

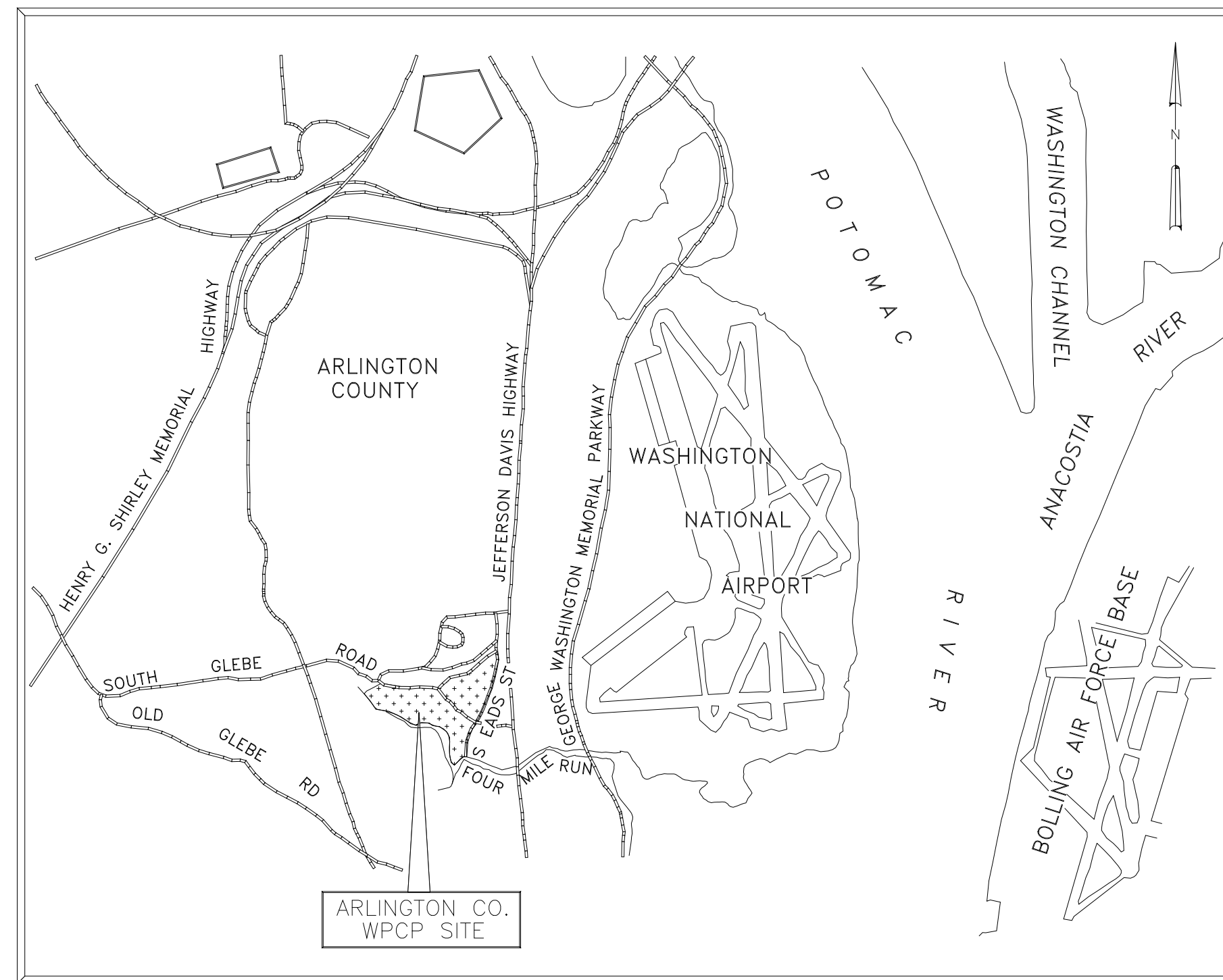


ARLINGTON COUNTY, VIRGINIA WATER POLLUTION CONTROL PLANT



UPGRADE AND EXPANSION PHASE IIIA

SOLIDS PROCESSING FACILITIES

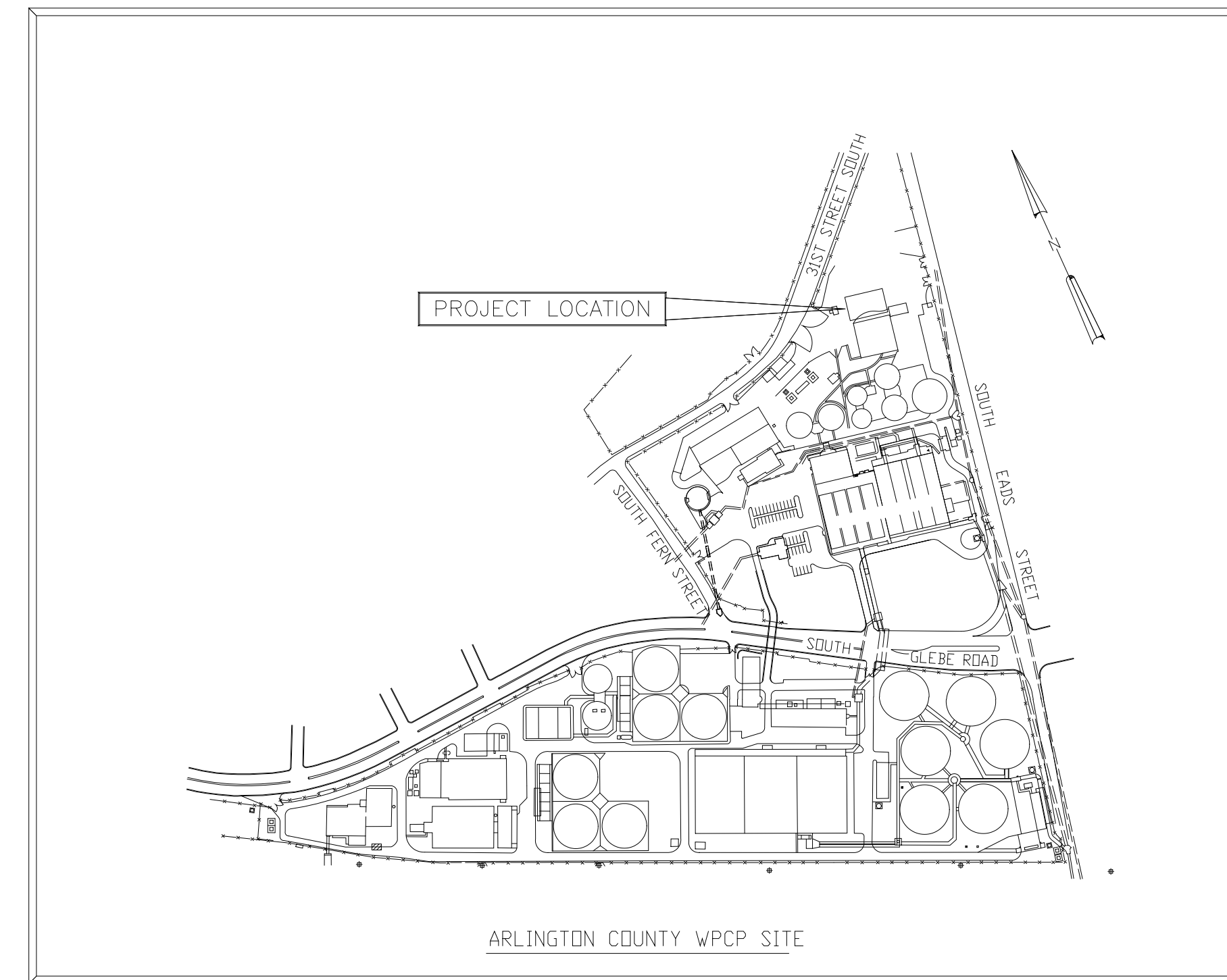
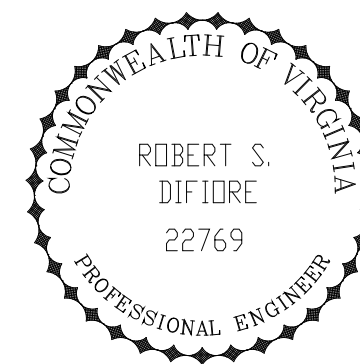


1 0 1 2 3 4
APPROX SCALE IN MILES

VICINITY MAP

CONTRACT NO. 93-02-WPC
BID NO. 289-94

SEPTEMBER 1994



150 0 150 300 450 600
APPROX SCALE IN FEET

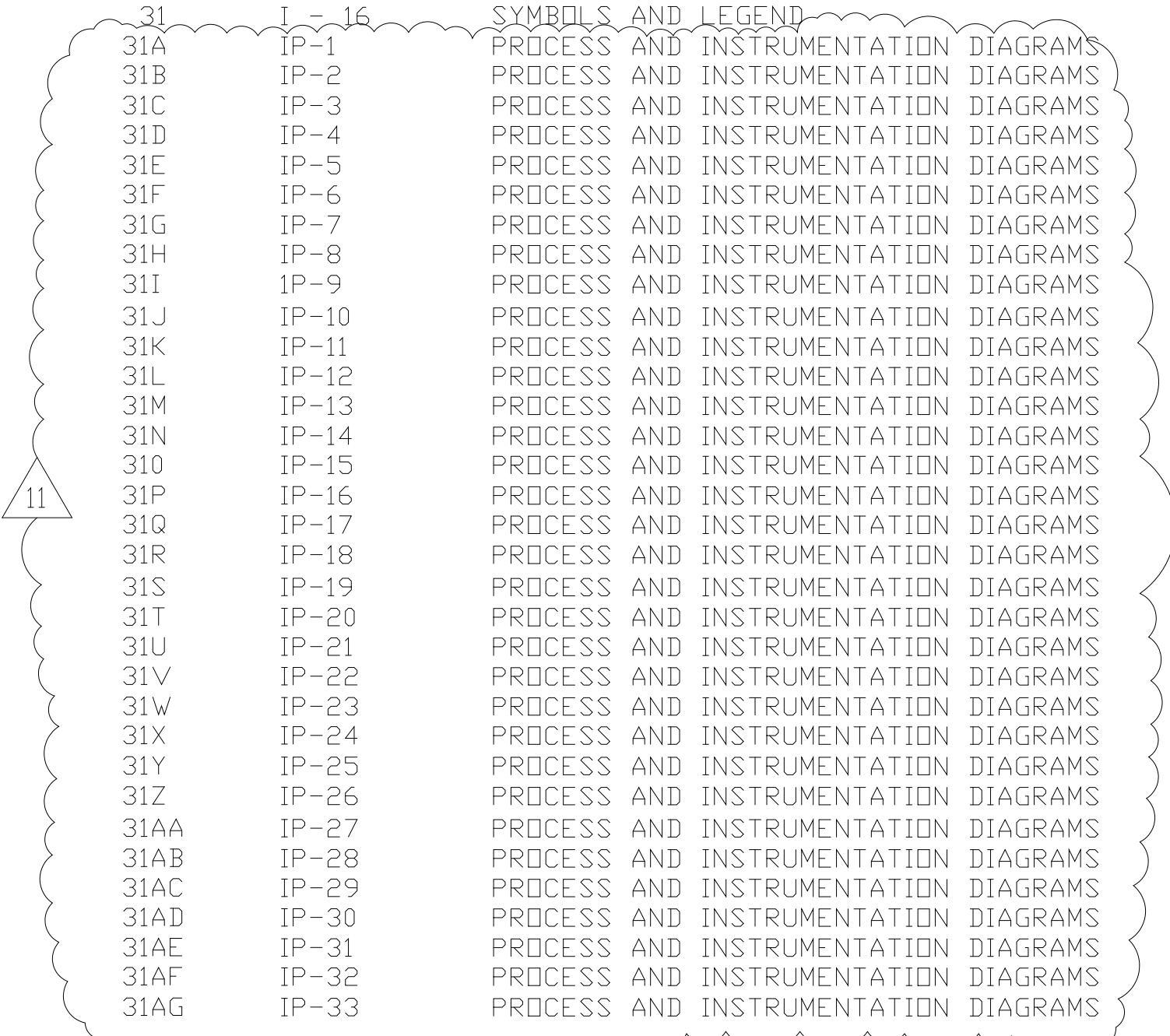
LOCATION MAP

HAZENAND SAWYER
Environmental Engineers & Scientists

RALEIGH, NORTH CAROLINA

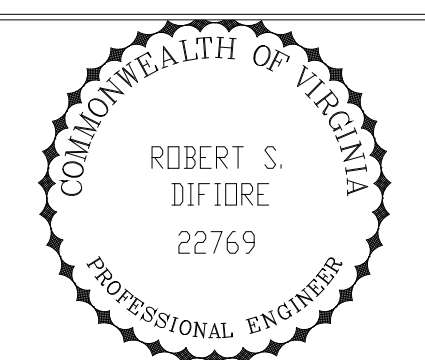
ARLINGTON COUNTY, VIRGINIA PHASE IIIA DEWATERING FACILITIES

SHEET No.	DRAWING No.	TITLE	SHEET No.	DRAWING No.	TITLE	SHEET No.	DRAWING No.	TITLE
<u>GENERAL</u>			<u>SITework</u>			<u>CENTRIFUGE DEWATERING BUILDING</u>		
	COVER	COVER SHEET			<u>CIVIL</u>			<u>STRUCTURAL</u>
1	G - 1	LIST OF DRAWINGS - SHEET 1	32	C - 101	EXISTING SITE PLAN	61	S - 201	PILE PLAN - SHEET 1
2	G - 2	LIST OF DRAWINGS - SHEET 2	33	C - 102	GRADING, DRAINAGE AND EROSION CONTROL	62	S - 202	PILE PLAN - SHEET 2
3	G - 3	SYMBOLS & ABBREVIATIONS	34	C - 103	MISCELLANEOUS SITEWORK - PLANS, SECTIONS AND DETAILS	63	S - 203	MAT PLAN - SHEET 1
		<u>PROCESS FLOW DIAGRAMS</u>	35	C - 104	MISCELLANEOUS SITEWORK - STANDARD DETAILS	64	S - 204	MAT PLAN - SHEET 2
4	F - 1	OVERALL PROCESS	36	C - 105	PROCESS YARD PIPING AND STAKING PLAN	65	S - 205	PLAN AT EL 25.00 - SHEET 1
5	F - 2	SLUDGE TRANSFER	37	C - 106	MISCELLANEOUS YARDWORK - STANDARD DETAILS - SHEET 1	65A	S - 205A	PLAN AT EL 25.00 - SHEET 1
6	F - 3	SLUDGE FEED	38	C - 107	MISCELLANEOUS YARDWORK - STANDARD DETAILS - SHEET 2	66	S - 206	PLAN AT EL 25.00 - SHEET 2
7	F - 4	POLYMER FEED	39	C - 108	MISCELLANEOUS YARDWORK - STANDARD DETAILS - SHEET 3	66A	S - 206A	PLAN AT EL 25.00 - SHEET 2
8	F - 5	SLUDGE CAKE HANDLING			<u>LANDSCAPING</u>	67	S - 207	PLAN AT EL 25.00 - SHEET 3
9	F - 6	CENTRATE	40	L - 101	LANDSCAPING PLAN	68	S - 208	PLAN AT EL 43.00 - SHEET 1
10	F - 7	LIME STABILIZATION	41	L - 102	PLANT LIST AND DETAILS	68A	S - 208A	PLAN AT EL 43.00 - SHEET 1
11	F - 8	BUILDING ODOR CONTROL			<u>CENTRIFUGE DEWATERING BUILDING</u>	69	S - 209	PLAN AT EL 43.00 - SHEET 2
12	F - 9	POINT SOURCE ODOR CONTROL			<u>ARCHITECTURAL</u>	69A	S - 209A	PLAN AT EL 43.00/54.00 - SHEET 2
12A	F - 9A	ACID SCRUBBER ODOR CONTROL SYSTEM			70	S - 210	PLAN AT EL 66.00 - SHEET 1	
13	F - 10	SERVICE AIR			71	S - 211	PLAN AT EL 66.00 - SHEET 2	
14	F - 11	PLANT EFFLUENT WATER - SHEET 1			72	S - 212	PLAN AT EL 82.50 - SHEET 1	
15	F - 12	PLANT EFFLUENT WATER - SHEET 2			73	S - 213	PLAN AT EL 82.50 - SHEET 2	
		<u>PROCESS AND INSTRUMENTATION DIAGRAMS</u>			74	S - 214	INTERMEDIATE PLAN AND LOW ROOF PLAN - SHEET 1	
16	I - 1	SLUDGE TRANSFER AND CENTRATE	42	A - 201	PLAN AT EL 25.00 - SHEET 1	75	S - 215	INTERMEDIATE PLAN AND LOW ROOF PLAN - SHEET 2
17	I - 2	SLUDGE FEED	43	A - 202	PLAN AT EL 25.00 - SHEET 2 AND TUNNEL PLAN	76	S - 216	HIGH ROOF PLAN
18	I - 3	DRY POLYMER FEED AND POLYMER BATCHING	44	A - 203	PLAN AT EL 43.00 - SHEET 1	77	S - 217	SECTIONS - SHEET 1
19	I - 4	LIQUID POLYMER AND POLYMER SOLUTION FEED PUMPING	45	A - 204	PLAN AT EL 43.00 - SHEET 2	77A	S - 217A	SECTIONS - SHEET 1
20	I - 5	CENTRIFUGE - SYSTEM CONTROL	46	A - 205	PLAN AT EL 66.00 - SHEET 1	78	S - 218	SECTIONS - SHEET 2
21	I - 6	CENTRIFUGE - ALTERNATIVE BACKDRIVE SYSTEM	47	A - 206	PLAN AT EL 66.00 - SHEET 2	79	S - 219	SECTIONS - SHEET 3
22	I - 7	LIME STORAGE AND TRANSFER SYSTEM	48	A - 207	PLAN AT EL 82.50 - SHEET 1	80	S - 220	SECTIONS - SHEET 4
23	I - 8	CAKE CONVEYANCE SYSTEM	48A	A - 207A	REFLECTED CEILING PLANS	80A	S - 220A	SECTIONS AND DETAILS
24	I - 9	SLUDGE/LIME MIXING	49	A - 208	PLAN AT EL 82.50 - SHEET 2	81	S - 221	SECTIONS AND DETAILS - SHEET 5
24A	I - 9A	TRUCK LOADING	50	A - 209	ROOF PLAN	82	S - 222	MISCELLANEOUS SECTIONS AND DETAILS - SHEET 1
25	I - 10	BUILDING ODOR CONTROL SYSTEM - FIRST STAGE SCRUBBERS	51	A - 210	EAST ELEVATION	83	S - 223	MISCELLANEOUS SECTIONS AND DETAILS - SHEET 2
26	I - 11	BUILDING ODOR CONTROL SYSTEM - SECOND STAGE SCRUBBER	52	A - 211	NORTH AND SOUTH ELEVATIONS	84	S - 224	MISCELLANEOUS SECTIONS AND DETAILS - SHEET 3
27	I - 12	POINT SOURCE ODOR CONTROL	53	A - 212	WEST ELEVATION	85	S - 225	STAIR No. 1 - PLANS, SECTIONS & DETAILS
28	I - 13	ACID SCRUBBER SYSTEM	54	A - 213	WALL SECTIONS	86	S - 226	STAIR No. 2 - PLANS, SECTIONS & DETAILS
29	I - 14	SERVICE AIR AND SUMP PUMPS	55	A - 214	SECTIONS AND DETAILS - SHEET 1	87	S - 227	BEAM SCHEDULE AND DETAILS - SHEET 1
30	I - 15	INSTALLATION DETAILS	56	A - 215	SECTIONS AND DETAILS - SHEET 2	88	S - 228	BEAM SCHEDULE AND DETAILS - SHEET 2
31	I - 16	SYMBOLS AND LEGEND	57	A - 216	SECTIONS AND DETAILS - SHEET 3	89	S - 229	COLUMN SCHEDULE AND DETAILS
31A	IP-1	PROCESS AND INSTRUMENTATION DIAGRAMS	58	A - 217	PARTIAL PLAN, SCHEDULES AND DETAILS	90	S - 230	MISCELLANEOUS METALS - SHEET 1
31B	IP-2	PROCESS AND INSTRUMENTATION DIAGRAMS	59	A - 218	FINISH SCHEDULES AND DETAILS	91	S - 231	MISCELLANEOUS METALS - SHEET 2
31C	IP-3	PROCESS AND INSTRUMENTATION DIAGRAMS	60	A - 219	DOOR SCHEDULE AND WINDOW ELEVATIONS	92	S - 232	MISCELLANEOUS METALS - SHEET 3
31D	IP-4	PROCESS AND INSTRUMENTATION DIAGRAMS				93	S - 233	MISCELLANEOUS METALS - SHEET 4
31E	IP-5	PROCESS AND INSTRUMENTATION DIAGRAMS				94	S - 234	MISCELLANEOUS METALS - SHEET 5
31F	IP-6	PROCESS AND INSTRUMENTATION DIAGRAMS				95	S - 235	MISCELLANEOUS METALS - SHEET 6
31G	IP-7	PROCESS AND INSTRUMENTATION DIAGRAMS						<u>MECHANICAL</u>
31H	IP-8	PROCESS AND INSTRUMENTATION DIAGRAMS				96	M - 201	PLAN AT EL 25.00 - SHEET 1
31I	IP-9	PROCESS AND INSTRUMENTATION DIAGRAMS				97	M - 202	PLAN AT EL 25.00 - SHEET 2
31J	IP-10	PROCESS AND INSTRUMENTATION DIAGRAMS				98	M - 203	PLAN AT EL 43.00 - SHEET 1
31K	IP-11	PROCESS AND INSTRUMENTATION DIAGRAMS				99	M - 204	PLAN AT EL 43.00 - SHEET 2
31L	IP-12	PROCESS AND INSTRUMENTATION DIAGRAMS				100	M - 205	PLAN AT EL 66.00 - SHEET 1
31M	IP-13	PROCESS AND INSTRUMENTATION DIAGRAMS				101	M - 206	PLAN AT EL 66.00 - SHEET 2
31N	IP-14	PROCESS AND INSTRUMENTATION DIAGRAMS				102	M - 207	PLAN AT EL 82.50 - SHEET 1
31O	IP-15	PROCESS AND INSTRUMENTATION DIAGRAMS				103	M - 208	PLAN AT EL 82.50 - SHEET 2
31P	IP-16	PROCESS AND INSTRUMENTATION DIAGRAMS				104	M - 209	ODOR CONTROL SYSTEM - PLAN OF AIR SCRUBBER UNITS
31Q	IP-17	PROCESS AND INSTRUMENTATION DIAGRAMS				105	M - 210	BUILDING SECTIONS - SHEET 1
31R	IP-18	PROCESS AND INSTRUMENTATION DIAGRAMS				106	M - 211	BUILDING SECTIONS - SHEET 2
31S	IP-19	PROCESS AND INSTRUMENTATION DIAGRAMS				107	M - 212	BUILDING SECTIONS - SHEET 3
31T	IP-20	PROCESS AND INSTRUMENTATION DIAGRAMS				108	M - 213	BUILDING SECTIONS - SHEET 4
31U	IP-21	PROCESS AND INSTRUMENTATION DIAGRAMS				109	M - 214	BUILDING SECTIONS - SHEET 5
31V	IP-22	PROCESS AND INSTRUMENTATION DIAGRAMS				109A	M - 214A	BUILDING SECTIONS - SHEET 5A
31W	IP-23	PROCESS AND INSTRUMENTATION DIAGRAMS				110	M - 215	BUILDING SECTIONS - SHEET 6
31X	IP-24	PROCESS AND INSTRUMENTATION DIAGRAMS				110A	M - 215A	BUILDING SECTIONS - SHEET 6A
31Y	IP-25	PROCESS AND INSTRUMENTATION DIAGRAMS				111	M - 216	BUILDING SECTIONS - SHEET 7
31Z	IP-26	PROCESS AND INSTRUMENTATION DIAGRAMS				112	M - 217	MISCELLANEOUS DETAILS - SHEET 1
31AA	IP-27	PROCESS AND INSTRUMENTATION DIAGRAMS				113	M - 218	MISCELLANEOUS DETAILS - SHEET 2
31AB	IP-28	PROCESS AND INSTRUMENTATION DIAGRAMS						
31AC	IP-29	PROCESS AND INSTRUMENTATION DIAGRAMS						
31AD	IP-30	PROCESS AND INSTRUMENTATION DIAGRAMS						
31AE	IP-31	PROCESS AND INSTRUMENTATION DIAGRAMS						
31AF	IP-32	PROCESS AND INSTRUMENTATION DIAGRAMS						
31AG	IP-33	PROCESS AND INSTRUMENTATION DIAGRAMS						



FILE: H:\244\BWP\Complete drawings\08-01-94\WPTS.XREF FILE - NONE

9	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD					DESIGNED	H&S
8	WP3 CONST.-LAND APP. REDES.	3-96	RSD					DRAWN	BRC
7	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD					CHECKED	
6	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD					PROJENGR.	AB/RNC
5	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD						
4	WP2 CONST.-LAND APP. REDES.	1-96	RSD						
3	WP2 APPROVAL-LAND APP. REDES.	12-95	RSD						
2	CONSTRUCTION	9-94	JJB	11	RECORD DRAWING	4-99	MKS		
1	REGULATORY APPROVAL	9-94	JJB	10	WP4,5,6/7 CONST.-LAND APP. REDES.	4-96	RSD		
NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	APPROVED	



Hazenand Sawyer
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
LIST OF DRAWINGS
SHEET 1

RECORD DRAWING

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94	
	H & S JOB NUMBER	2843	
	CONTRACT NUMBER	93-02-WPC	DRAWING NUMBER
SHEET		1	OF 199

ARLINGTON COUNTY, VIRGINIA PHASE IIIA DEWATERING FACILITIES

CENTRIFUGE DEWATERING BUILDING

HEATING, VENTILATING AND AIR CONDITIONING

114	H - 201	SYMBOLS & ABBREVIATIONS
115	H - 202	PLAN AT EL 25.00 - SHEET 1
115A	H - 202A	PLAN AT EL 25.00 - SHEET 2
116	H - 203	PLAN AT EL 25.00 - SHEET 3
116A	H - 203A	PLAN AT EL 25.00 - SHEET 4
117	H - 204	PLAN AT EL 43.00 - SHEET 1
117A	H - 204A	PLAN AT EL 43.00 - SHEET 2
118	H - 205	PLAN AT EL 43.00 - SHEET 3
118A	H - 205A	PLAN AT EL 43.00 - SHEET 4
119	H - 206	PLAN AT EL 66.00 - SHEET 1
120	H - 207	PLAN AT EL 66.00 - SHEET 1
121	H - 208	PLAN AT EL 82.50 - SHEET 1
122	H - 209	PLAN AT EL 82.50 - SHEET 2
122A	H - 209A	PLAN AT EL 100.50 & ROOF PLAN
123	H - 210	SECTION - SHEET 1
124	H - 211	SECTION - SHEET 2
125	H - 212	EQUIPMENT SCHEDULES - SHEET 1
126	H - 213	EQUIPMENT SCHEDULES - SHEET 2
127	H - 214	DETAILS & SCHEMATICS - SHEET 1
128	H - 215	DETAILS & SCHEMATICS - SHEET 2
129	H - 216	CONTROL DIAGRAMS
129A	H - 216A	CONTROL DIAGRAMS
129B	H - 216B	HVAC - CONTROL / WIRING DIAGRAMS
129C	H - 216C	HVAC - CONTROL / WIRING DIAGRAMS
129D	H - 216D	HVAC - CONTROL / WIRING DIAGRAMS
129E	H - 216E	HVAC - CONTROL / WIRING DIAGRAMS
129F	H - 216F	HVAC - CONTROL / WIRING DIAGRAMS
129G	H - 216G	HVAC - CONTROL / WIRING DIAGRAMS
129H	H - 216H	HVAC - CONTROL / WIRING DIAGRAMS
129I	H - 216I	HVAC - CONTROL / WIRING DIAGRAMS
129J	H - 216J	HVAC - CONTROL / WIRING DIAGRAMS
129K	H - 216K	HVAC - CONTROL / WIRING DIAGRAMS
129L	H - 216L	HVAC - CONTROL / WIRING DIAGRAMS
129M	H - 216M	HVAC - CONTROL / WIRING DIAGRAMS

PLUMBING

130	P - 201	PLANS AT EL 25.00 & 43.00
131	P - 202	PLANS AT EL 66.00 & 82.50
132	P - 203	ROOF PLAN & STORM DRAIN RISER DIAGRAM
133	P - 204	DETAILS
134	P - 205	RISER DIAGRAMS- HOT & COLD WATER SUPPLY
135	P - 206	RISER DIAGRAM - PROCESS AND SANITARY DRAINAGE
136	P - 210	FIRE PROTECTION - SITE PLAN, NOTES AND DETAILS
137	P - 211	FIRE PROTECTION - FLOOR EL. 18.00' AND DETAILS
138	P - 212	FIRE PROTECTION - FLOOR EL. 25.00' AND DETAILS
139	P - 213	FIRE PROTECTION - FLOOR EL. 43.00' AND DETAILS
139a	P - 213a	FIRE PROTECTION - BUILDING SECTION
139b	P - 213b	FIRE PROTECTION - FLOOR EL. 66.00' AND DETAILS
139c	P - 213c	FIRE PROTECTION - FLOOR EL. 82.50' AND DETAILS

CENTRIFUGE DEWATERING BUILDING

ELECTRICAL

140	E - 201	GENERAL NOTES & SYMBOLS
141	E - 202	SITE PLAN
142	E - 203	SINGLE LINE DIAGRAM - 480V SWITCHGEAR
143	E - 204	SINGLE LINE DIAGRAM - MCC-A - SHEET 1
144	E - 205	SINGLE LINE DIAGRAM - MCC-A - SHEET 2
145	E - 206	SINGLE LINE DIAGRAM - MCC-B - SHEET 1
146	E - 207	SINGLE LINE DIAGRAM - MCC-B - SHEET 2
146A	E - 207A	MCC-B LAYOUT - MCC-B - SHEET 2A
147	E - 208	PANEL SCHEDULES
148	E - 209	RISER DIAGRAM - FIRE ALARM SYSTEM - SHEET 1
149	E - 210	RISER DIAGRAM - FIRE ALARM SYSTEM - SHEET 2
150	E - 211	LIGHTING & POWER PLAN - TUNNEL/POLYMER TRANSFER PUMP ROOM
151	E - 212	LIGHTING & RECEPTACLE PLAN AT EL 25.00 - SHEET 1
152	E - 213	LIGHTING & RECEPTACLE PLAN AT EL 25.00 - SHEET 2
152A	E - 213A	LIGHTING & RECEPTACLE DETAILS
153	E - 214	LIGHTING & RECEPTACLE PLAN AT EL 43.00 - SHEET 1
154	E - 215	LIGHTING & RECEPTACLE PLAN AT EL 43.00 - SHEET 2
155	E - 216	LIGHTING & RECEPTACLE PLAN AT EL 66.00 - SHEET 1
156	E - 217	LIGHTING & RECEPTACLE PLAN AT EL 66.00 - SHEET 2
157	E - 218	LIGHTING & RECEPTACLE PLAN AT EL 82.50 - SHEET 1
158	E - 219	LIGHTING & RECEPTACLE PLAN AT EL 82.50 - SHEET 2
159	E - 220	POWER PLAN AT EL 25.00 - SHEET 1
160	E - 221	POWER PLAN AT EL 25.00 - SHEET 2
161	E - 222	POWER PLAN AT EL 43.00 - SHEET 1
162	E - 223	POWER PLAN AT EL 43.00 - SHEET 2
163	E - 224	POWER PLAN AT EL 66.00 - SHEET 1
164	E - 225	POWER PLAN AT EL 66.00 - SHEET 2
165	E - 226	POWER PLAN AT EL 82.50 - SHEET 1
166	E - 227	POWER PLAN AT EL 82.50 - SHEET 2
167	E - 228	POWER PLAN - SLUDGE TRANSFER & MIXING PUMPS
168	E - 229	ROOF PLAN, LIGHTNING PROTECTION, LIGHTING & POWER PLAN - SHEET 1
168A	E - 229A	ROOF PLAN, LIGHTNING PROTECTION, LIGHTING & POWER PLAN - SHEET 2
169	E - 230	POWER PLAN - EXISTING BIOSOLIDS AND LIME BUILDING
170	E - 231	POWER PLAN - EXISTING BIOSOLIDS BUILDING
171	E - 232	ELEMENTARY WIRING DIAGRAMS - SHEET 1
172	E - 233	ELEMENTARY WIRING DIAGRAMS - SHEET 2
173	E - 234	ELEMENTARY WIRING DIAGRAMS - SHEET 3
174	E - 235	ELEMENTARY WIRING DIAGRAMS - SHEET 4
175	E - 236	ELEMENTARY WIRING DIAGRAMS - SHEET 5
176	E - 237	ELEMENTARY WIRING DIAGRAMS - SHEET 6
177	E - 238	RISER DIAGRAM - DISTRIBUTED CONTROL SYSTEM
178	E - 239	MISCELLANEOUS DETAILS - SHEET 1
179	E - 240	MISCELLANEOUS DETAILS - SHEET 2

MODIFICATIONS TO EXISTING STRUCTURES

MECHANICAL

180	M - 301	EXISTING BIOSOLIDS BUILDING - PLAN AT EL 18.00
181	M - 302	EXISTING BIOSOLIDS BUILDING - PLAN AT EL 72.10
182	M - 303	EXISTING BIOSOLIDS BUILDING - SECTIONS AND DETAILS
183	M - 310	EXISTING SLUDGE TRANSFER PUMP STATION - REMOVALS
184	M - 311	EXISTING SLUDGE PUMP STATION - PLANS
185	M - 312	EXISTING SLUDGE TRANSFER PUMP STATION - SECTIONS
186	M - 325	EXISTING DIGESTER P2 - PLAN AND SECTION
187	M - 326	EXISTING DIGESTER P2 - ODDR CONTROL PIPING
188	M - 331	EXISTING FLOTATION THICKENER - POLYMER FEED SYSTEM
188A	M - 332	EXISTING LRT TUNNEL - 2ND STEP 6" SLUDGE LINE
188B	M - 333	EXISTING LRT TUNNEL - 2ND STEP 6" SLUDGE LINE

MISCELLANEOUS STRUCTURES

STRUCTURAL

189	S - 401	RETAINING WALL - PLAN, SECTIONS AND DETAILS
190	S - 402	TRANSFORMER PADS - PLANS, SECTIONS AND DETAILS

SCHEDULES & STANDARD DETAILS

ARCHITECTURAL

191	A - 501	TYPICAL STANDARD DETAILS - SHEET 1
192	A - 502	TYPICAL STANDARD DETAILS - SHEET 2
193	A - 503	FIRE STOPPING DETAILS

STRUCTURAL

194	S - 501	STANDARD NOTES AND DETAILS - SHEET 1
195	S - 502	STANDARD NOTES AND DETAILS - SHEET 2

DEMOLITION

196	D - 601	LIME BUILDING - PLANS AT ELEVATION 30.5 AND 42.8
197	D - 602	LIME BUILDING - PLANS AT ELEVATION 54.3 AND 77.0
198	D - 603	LIME BUILDING - SECTION
199	D - 610	SLUDGE FILTER BUILDING - PLANS AND SECTIONS

PAGES HAVE BEEN REMOVED, ALL INFORMATION SHOWN ON THESE DEMOLITION PAGES RELATE TO STRUCTURES THAT HAVE BEEN TOTALLY REMOVED.

RECORD DRAWING

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>9</td><td>WP6/7 APPROVAL-LAND APP REDES</td><td>3-96</td><td>RSD</td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>WP3 CONST.-LAND APP. REDES.</td><td>2-96</td><td>RSD</td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td>WP5 APPROVAL-LAND APP. REDES.</td><td>2-96</td><td>RSD</td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td>WP4 APPROVAL-LAND APP. REDES.</td><td>1-96</td><td>RSD</td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td>WP3 APPROVAL-LAND APP. REDES.</td><td>1-96</td><td>RSD</td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td>WP2 CONST.-LAND APP. REDES.</td><td>1-96</td><td>RSD</td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>WP2 APPROVAL-LAND APP. REDES.</td><td>12-95</td><td>RSD</td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>CONSTRUCTION</td><td>9-94</td><td>JJB</td><td>11</td><td>RECORD DRAWING</td><td>4-99</td><td>MKS</td></tr> <tr><td>1</td><td>REGULATORY APPROVAL</td><td>9-94</td><td>JJB</td><td>10</td><td>WP4,5,6/7 CONST.-LAND APP REDES</td><td>4-96</td><td>RSD</td></tr> <tr><td>NO.</td><td>ISSUED FOR</td><td>DATE</td><td>BY</td><td>NO.</td><td>ISSUED FOR</td><td>DATE</td><td>BY</td></tr> </table>	9	WP6/7 APPROVAL-LAND APP REDES	3-96	RSD					8	WP3 CONST.-LAND APP. REDES.	2-96	RSD					7	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD					6	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD					5	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD					4	WP2 CONST.-LAND APP. REDES.	1-96	RSD					3	WP2 APPROVAL-LAND APP. REDES.	12-95	RSD					2	CONSTRUCTION	9-94	JJB	11	RECORD DRAWING	4-99	MKS	1	REGULATORY APPROVAL	9-94	JJB	10	WP4,5,6/7 CONST.-LAND APP REDES	4-96	RSD	NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>DESIGNED</td><td>H&S</td></tr> <tr><td>DRAWN</td><td>BRC</td></tr> <tr><td>CHECKED</td><td></td></tr> <tr><td>PROJ/ENGR</td><td>AB/RNC</td></tr> <tr><td>APPROVED</td><td></td></tr> </table>	DESIGNED	H&S	DRAWN	BRC	CHECKED		PROJ/ENGR	AB/RNC	APPROVED			<p>HAZENAND SAWYER Environmental Engineers & Scientists RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA</p>	<p>ARLINGTON COUNTY WATER POLLUTION CONTROL PLANT UPGRADE AND EXPANSION - PHASE III A SOLIDS PROCESSING FACILITIES</p>	<p>GENERAL LIST OF DRAWINGS SHEET 2</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.</td><td>DATE</td><td>SEPT 94</td></tr> <tr><td></td><td>H & S JOB NUMBER</td><td>2843</td></tr> <tr><td></td><td>CONTRACT NUMBER</td><td>93-02-WPC</td></tr> <tr><td></td><td>DRAWING NUMBER</td><td>G-2</td></tr> <tr><td></td><td>SHEET</td><td>2 OF 199</td></tr> </table>	THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94		H & S JOB NUMBER	2843		CONTRACT NUMBER	93-02-WPC		DRAWING NUMBER	G-2		SHEET	2 OF 199
9	WP6/7 APPROVAL-LAND APP REDES	3-96	RSD																																																																																																												
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SERVICE ABBREVIATIONS

ACID	SULFURIC ACID
ATE	AERATION TANK EFFLUENT
ATM	ATMOSPHERE
BA	BLOWER AIR
CAS	CAUSTIC
CEN	CENTRATE
CLS	CHLORINE SOLUTION
CLW	CAKE LUBRICATION WATER
COW	COUNTY WATER (POTABLE)
CWR	COOLING WATER RETURN
CWS	COOLING WATER SUPPLY
DPOL	DRY POLYMER
DR	DRAIN (GENERAL)
FPW	FIRE PROTECTION WATER
FD	FLOOR DRAIN
FE	FINAL EFFLUENT
FIL	FILTRATE
FO	FUEL OIL
FSC	FINAL SKIMMINGS
HPEW-AWT	HOT PLANT EFFLUENT WATER- ADVANCED WASTEWATER TREATMENT
HO	HYDRAULIC OIL
HOD	HYDRAULIC OIL DRAIN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
LAV	LAVATORY
LO	LUBE OIL
LOD	LUBE OIL DRAIN
LPA	LOW PRESSURE AIR
LPOL	LIQUID POLYMER
LT	LIME TRANSFER
NaOCL	SODIUM HYPOCHLORITE
NAOH	SODIUM HYDROXIDE
NG	NATURAL GAS
OCA	ODOR CONTROL AIR
OD	OIL DRAIN
OF	OVERFLOW
PA	PROCESS AIR
PAD	POLYMER AIR DRYER INLET
PDA	POLYMER DRY AIR
PE	PRIMARY EFFLUENT
PEW-AWT	PLANT EFFLUENT WATER- ADVANCED WASTEWATER TREATMENT
PI	PLANT INFLUENT
POLS	POLYMER SOLUTION
PS	PRIMARY SLUDGE
PSC	PRIMARY SKIMMINGS
RD	ROOF DRAIN
RS	RETURN SLUDGE
S	SAMPLE
SA	SERVICE AIR
SAN	SANITARY SEWER (SITE)
SD	STORM DRAIN
SL	SLUDGE (GENERAL)
SLCK	SLUDGE CAKE
SLW	SEAL WATER
SPD	SUMP PUMP DISCHARGE
SPW	SPRINKLER WATER
SRD	SCRUBBER RECIRCULATION DISCHARGE
SRS	SCRUBBER RECIRCULATION SUCTION
SS	SANIATRY SEWER
STL	SLUDGE TRANSFER LOOP
SW	SPRAY WATER
SWD	SCRUBBER WATER DRAIN
TD	TANK DRAIN
TI	THICKENER INFLUENT
TO	THICKENER OVERFLOW
TS	THICKENER SLUDGE
U	UNDERDRAIN
V	VENT
WC	WATER CLOSET
WS	WASTE SLUDGE

GENERAL LEGEND

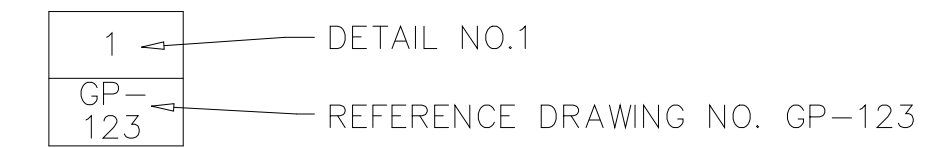
	NEW STRUCTURES
	EXISTING STRUCTURES
	EXISTING STRUCTURES TO BE DEMOLISHED
	NEW CONTOURS
	EXISTING CONTOURS
	NEW PIPELINE
	EXISTING PIPELINE
	EXISTING PIPELINE OR EQUIPMENT TO BE REMOVED
	CLEANOUT
	EXISTING CATCH BASIN
	EXISTING STORM MANHOLE
	SPOT ELEVATION (EXISTING)
	SPOT ELEVATION (PROPOSED)
	FUTURE STRUCTURES
	PROPERTY LINES
	EXISTING ITEM TO BE DEMOLISHED
	FENCES
	FIRE HYDRANT
	TYPICAL PIPING DESIGNATION (DIAMETER & SERVICE ABBREVIATION)

PROCESS EQUIPMENT AND VALVE SYMBOLS

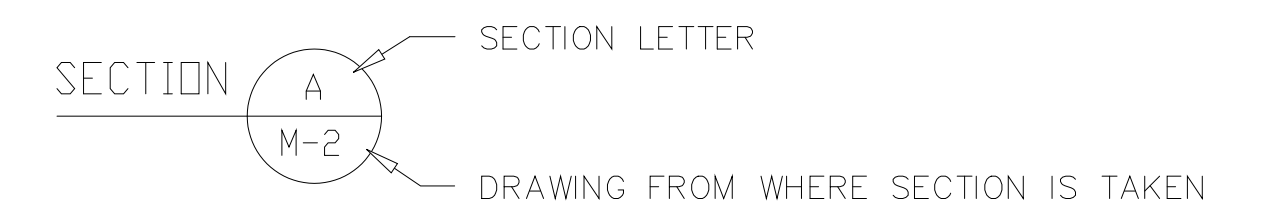
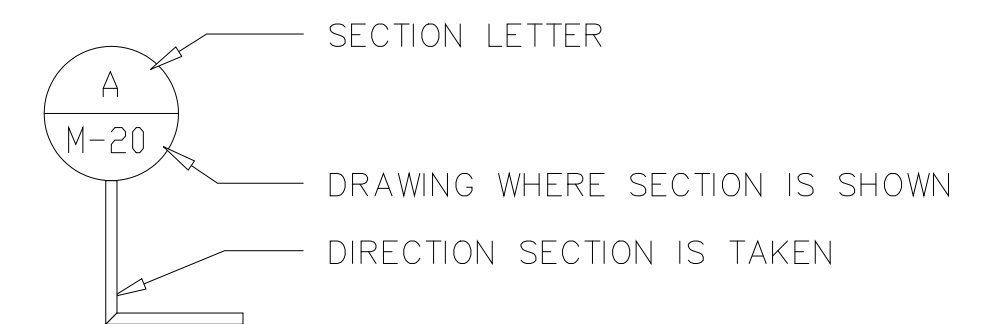
	PIPELINE		MOTOR OPERATOR
	CHANNEL		HYDRAULIC
	CENTRIFUGAL PUMP		PNEUMATIC
	CENTRIFUGAL BLOWER		SOLENOID
	POSITIVE DISPLACEMENT PUMP		3-WAY DIVERTER VALVE
	METERING PUMP		4-WAY DIVERTER VALVE
	PROGRESSIVE CAVITY PUMP		ORIFICE PLATE
	GRINDER		OIL FILTER
	GATE VALVE		FLEXIBLE CONNECTION
	PLUG VALVE		RUBBER FLEXIBLE COUPLING
	DIAPHRAGM VALVE		SLEEVE TYPE COUPLING
	BUTTERFLY VALVE OR DAMPER		GROOVED TYPE COUPLING
	CHECK VALVE		FILTER/REGULATOR/LUBRICATOR (SERVICE AIR LINES)
	BALL CHECK VALVE		FILTER/REGULATOR/LUBRICATOR w/ QUICK DISCONNECT
	PRESSURE RELIEF/VACUUM RELIEF VALVE		FILTER/REGULATOR
	PRESSURE REDUCING REGULATOR		PRESSURE REDUCING VALVE/BACK PRESSURE VALVE
	FLOAT ACTUATED VALVE		REDUCER
	BALL VALVE		MAGMETER
	GLOBE VALVE		VENTURI
	NEEDLE VALVE		MASS FLOW METER (AIR)
	3-WAY VALVE		UNION
	FLUSHING CONNECTION w/CAP (VALVE AS APPROPRIATE)		ANALYZER OR SENSOR
	FLUSHING CONNECTION (VALVE AS APPROPRIATE)		ROTAMETER
	HOSE BIB (VALVE AS APPROPRIATE)		STATIC MIXER
	EDUCTOR		AIR PUMP
	SLUICE GATE		PLUNGER PUMP
	SLIDE / FLAPPER GATE		
	STOP PLANK		
	Y-STRAINER		
	DUAL BASKET STRAINER		
	DRAIN		
	SHUTTER		

GENERAL NOTES

- * INDICATES A DIMENSION TO BE VERIFIED WITH MANUFACTURER'S DRAWINGS.
- ** INDICATES A DIMENSION TO BE VERIFIED IN THE FIELD.



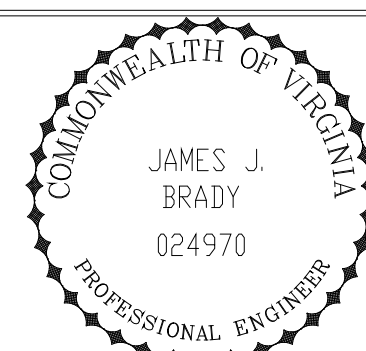
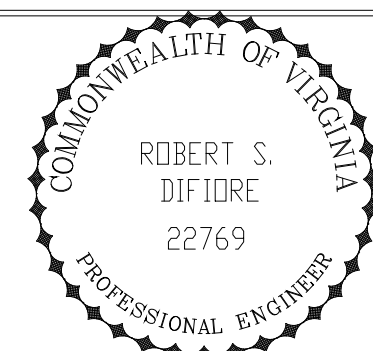
THE NOTATION "NC" IS USED TO INDICATE A NORMALLY CLOSED VALVE.



RECORD DRAWING

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DESIGNED	J.C.B.
DRAWN	J.C.B.
CHECKED	A.A.B.
PROJ. ENGR.	J.J.B.
DATE	9-94
BY	J.J.B.
APPROVED	



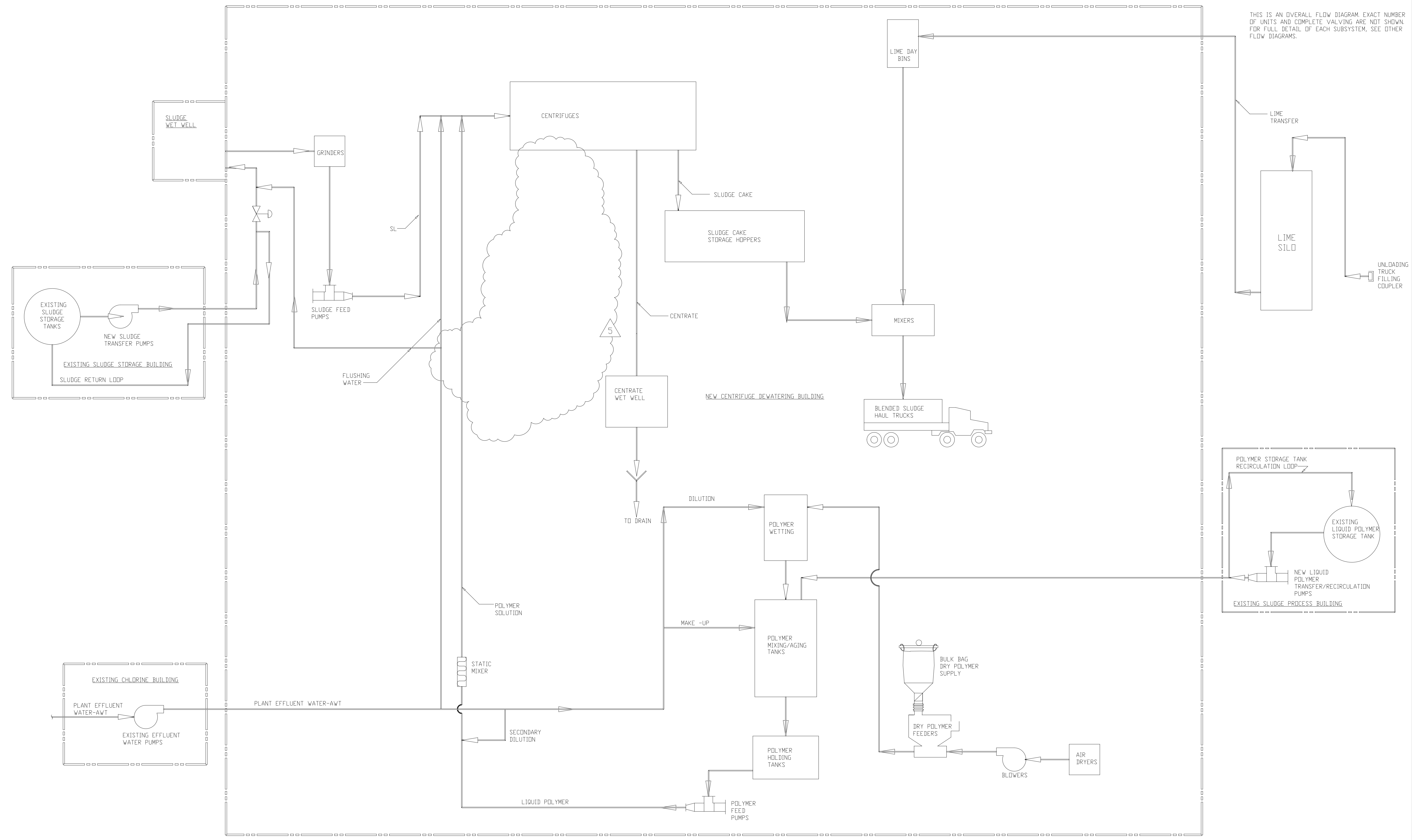
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
SYMBOLS & ABBREVIATIONS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER G-3
	SHEET 3 OF 199

NOTES:
THIS IS AN OVERALL FLOW DIAGRAM. EXACT NUMBER OF UNITS AND COMPLETE VALVING ARE NOT SHOWN. FOR FULL DETAIL OF EACH SUBSYSTEM, SEE OTHER FLOW DIAGRAMS.



RECORD DRAWING

5	RECORD DRAWING	4-99	MKS
4	WP9 CONST-LAND APP.REDES.	4-96	J.J.B.
3	WP9 APPROVAL-LAND APP.REDES.	1-96	J.J.B.
2	CONSTRUCTION	9-94	J.J.B.
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.
ND.	ISSUED FOR	DATE	BY

DESIGNED: A.A.B.
DRAWN: R.M.
CHECKED: A.B.
PRJ.ENGR.: J.B.

APPROVED:

HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

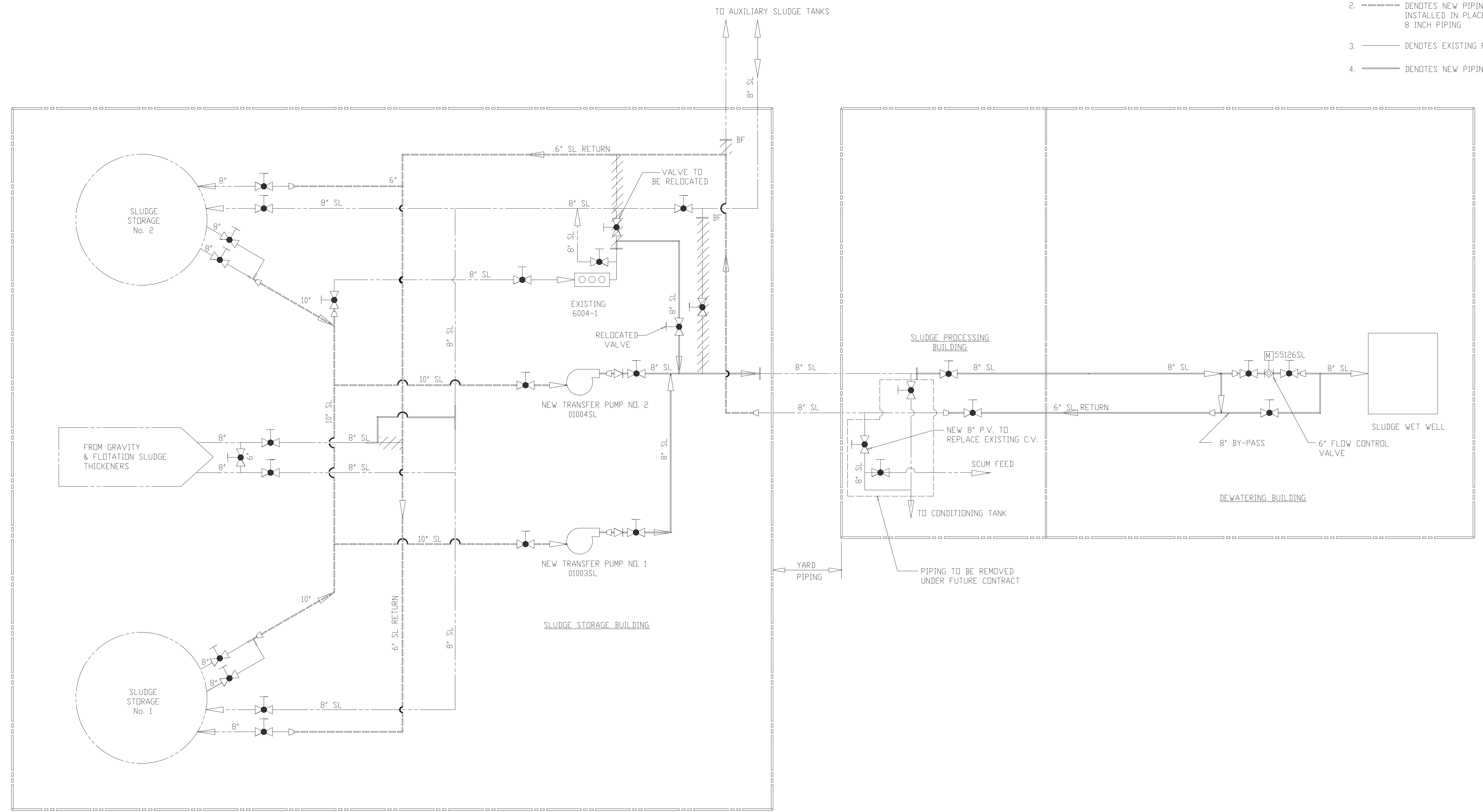
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS FLOW DIAGRAM
OVERALL PROCESS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT. 1994
	H & S JOB NUMBER	3274
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	F-1
SHEET		4 OF 199

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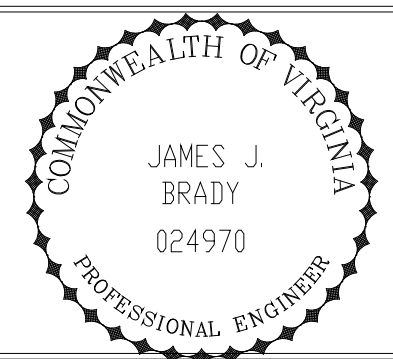
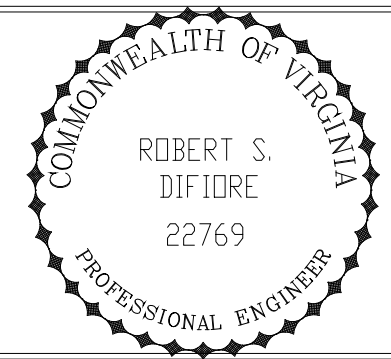
- LEGEND**
1. DENOTES PIPING TO BE REMOVED
 2. DENOTES NEW PIPING TO BE INSTALLED IN PLACE OF EXISTING 8 INCH PIPING
 3. DENOTES EXISTING PIPING
 4. DENOTES NEW PIPING



RECORD DRAWING

3	RECORD DRAWING	6-99	F.X.P.
2	CONSTRUCTION	9-94	J.J.B.
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.
NO.	ISSUED FOR	DATE	BY

DESIGNED	K.H.
DRAWN	J.C.B.
CHECKED	A.A.B.
PROJ. ENGR.	J.J.B.
APPROVED	J.J.B.



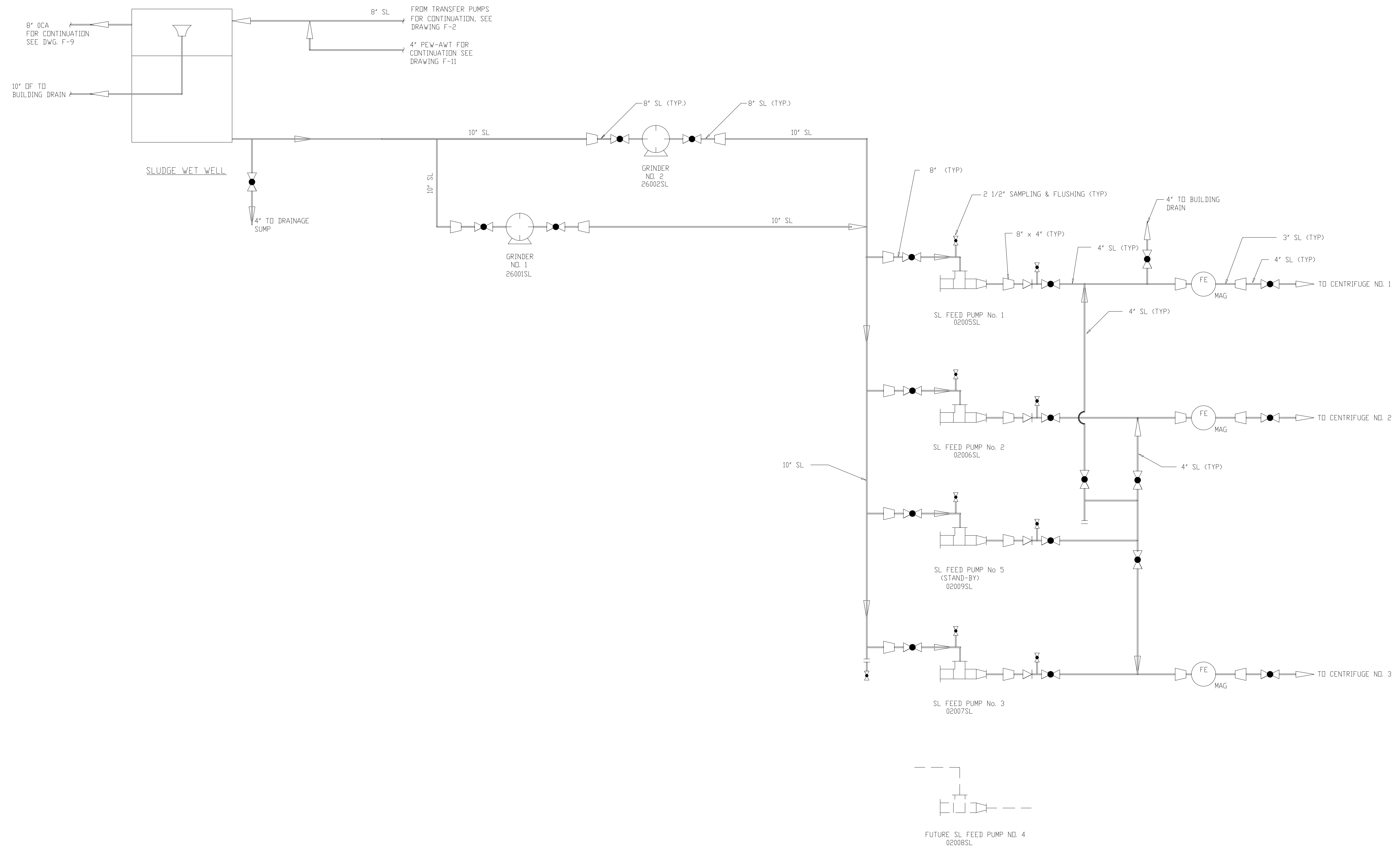
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION – PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS FLOW DIAGRAM
SLUDGE TRANSFER

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER F-2
	SHEET 5 OF 199

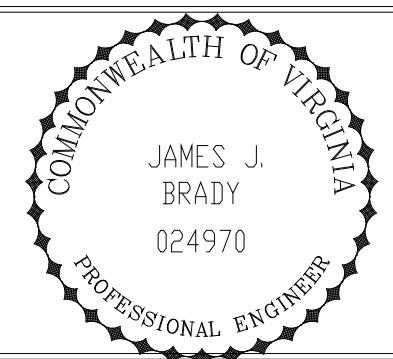
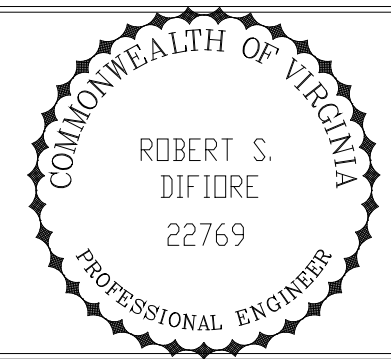
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RECORD DRAWING

3	RECORD DRAWING	6-99	F.X.P.
2	CONSTRUCTION	9-94	J.J.B.
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.
NO.	ISSUED FOR	DATE	BY

DESIGNED	K.H.
DRAWN	N.N.
CHECKED	A.B.
PROJ. ENGR.	J.J.B.
APPROVED	J.J.B.



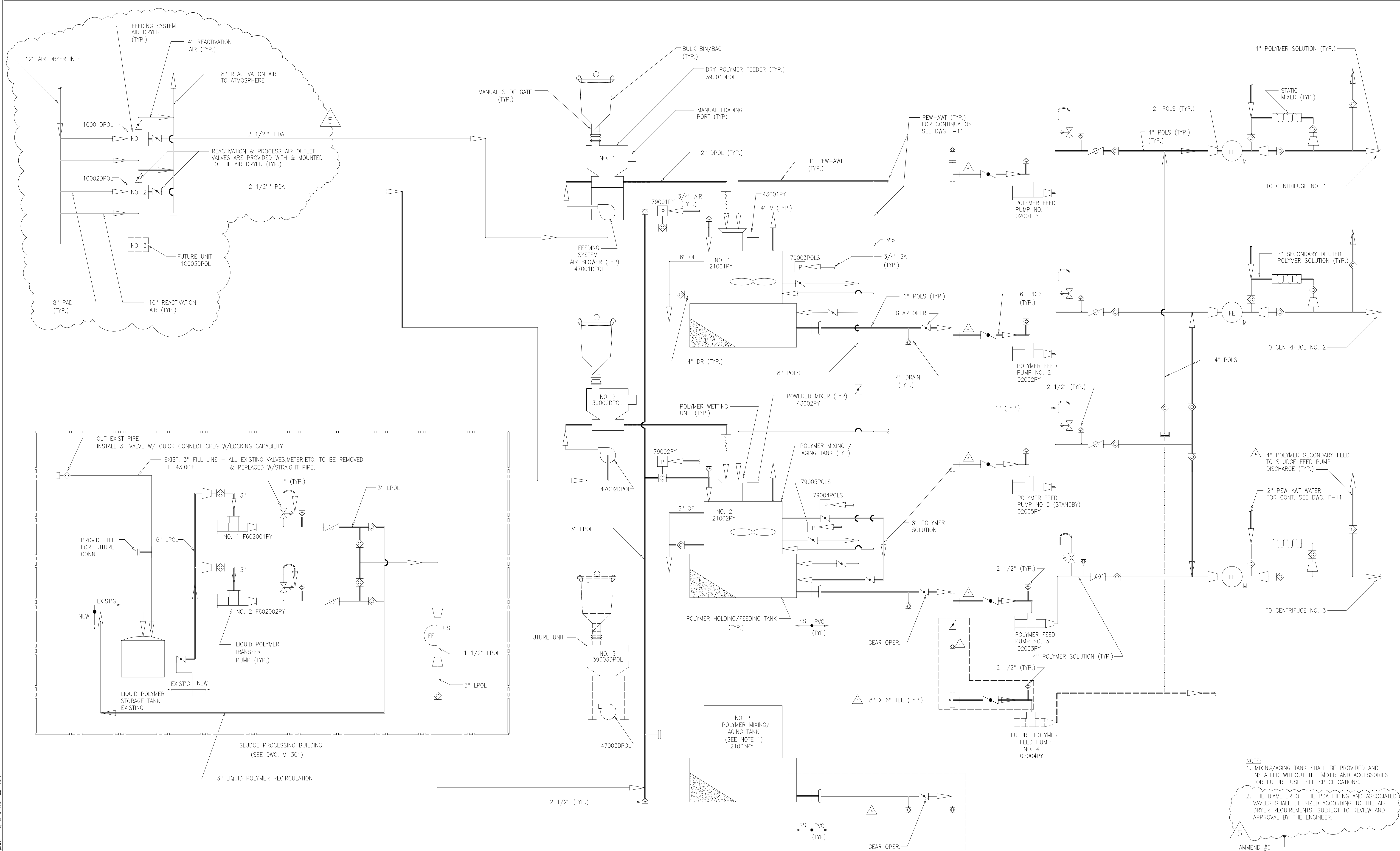
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS FLOW DIAGRAM
SLUDGE FEED

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER F-3
	SHEET 6 OF 199

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NOTE:
 1. MIXING/AGING TANK SHALL BE PROVIDED AND INSTALLED WITHOUT THE MIXER AND ACCESSORIES FOR FUTURE USE. SEE SPECIFICATIONS.
 2. THE DIAMETER OF THE PDA PIPING AND ASSOCIATED VALVES SHALL BE SIZED ACCORDING TO THE AIR DRYER REQUIREMENTS, SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.

AMMEND #5

RECORD DRAWING

DESIGNED	T.P.
DRAWN	N.N.
CHECKED	T.P.
PROJ.ENGR.	A.A.B.
APPROVED	J.J.B.

ROBERT S. DIFIORE
22769

JAMES J. BRADY
024970

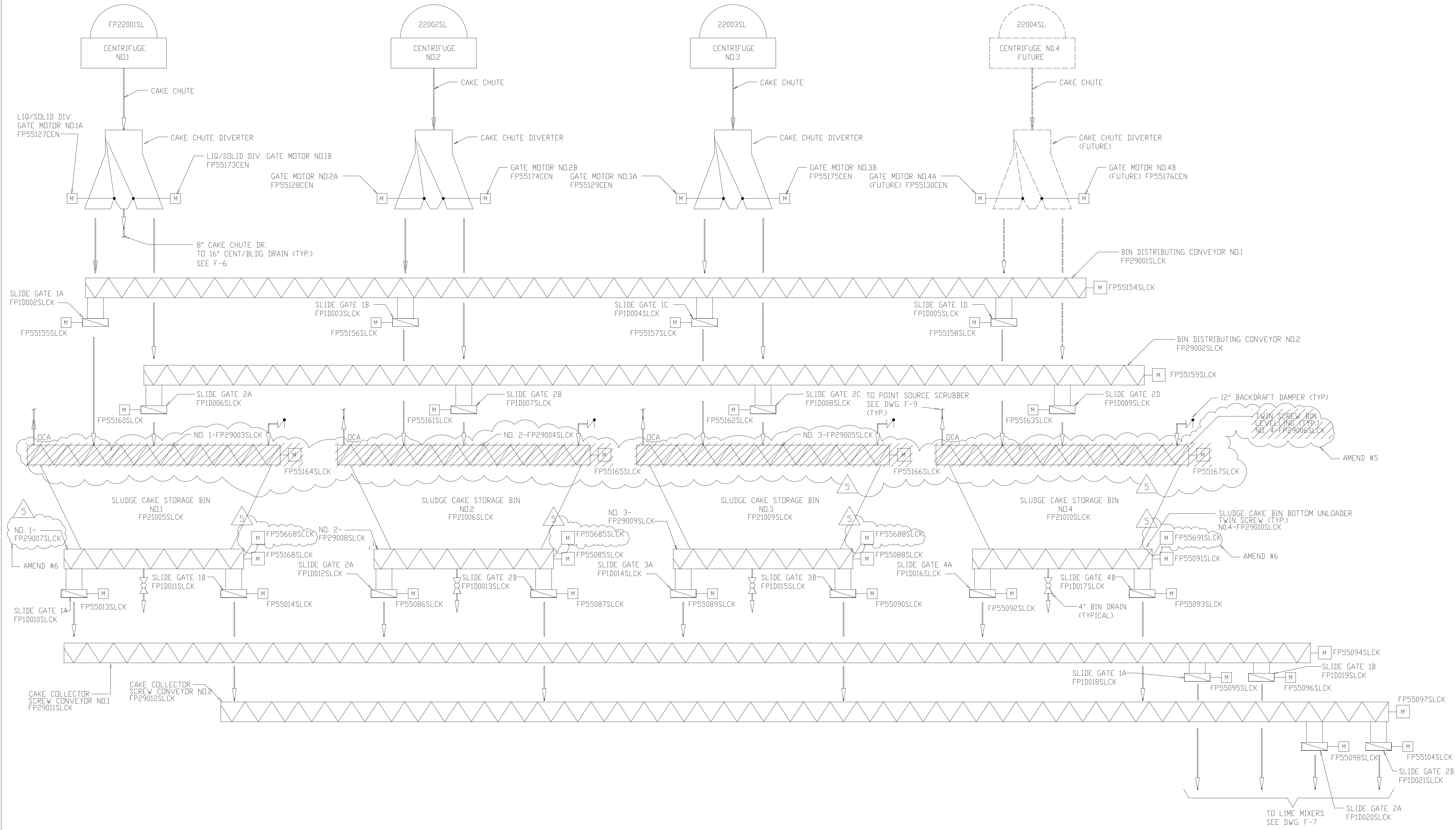
HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS FLOW DIAGRAM
 POLYMER FEED

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER F-4
	SHEET 7 OF 199

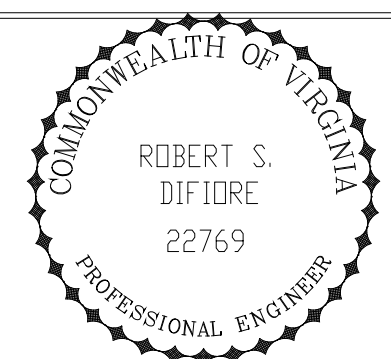
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RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
4	RECORD DRAWING	6-99	J.J.B.	
4	WP9 CONST.-LAND APPREDES.	4-96	J.J.B.	
3	WP9 APPROVAL-LAND APPREDES.	1-96	J.J.B.	
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

DESIGNED	T.A.P.
DRAWN	J.H.R./J.F.
CHECKED	A.A.B.
PROJ.ENGR.	J.J.B.
	J.J.B.
	J.J.B.

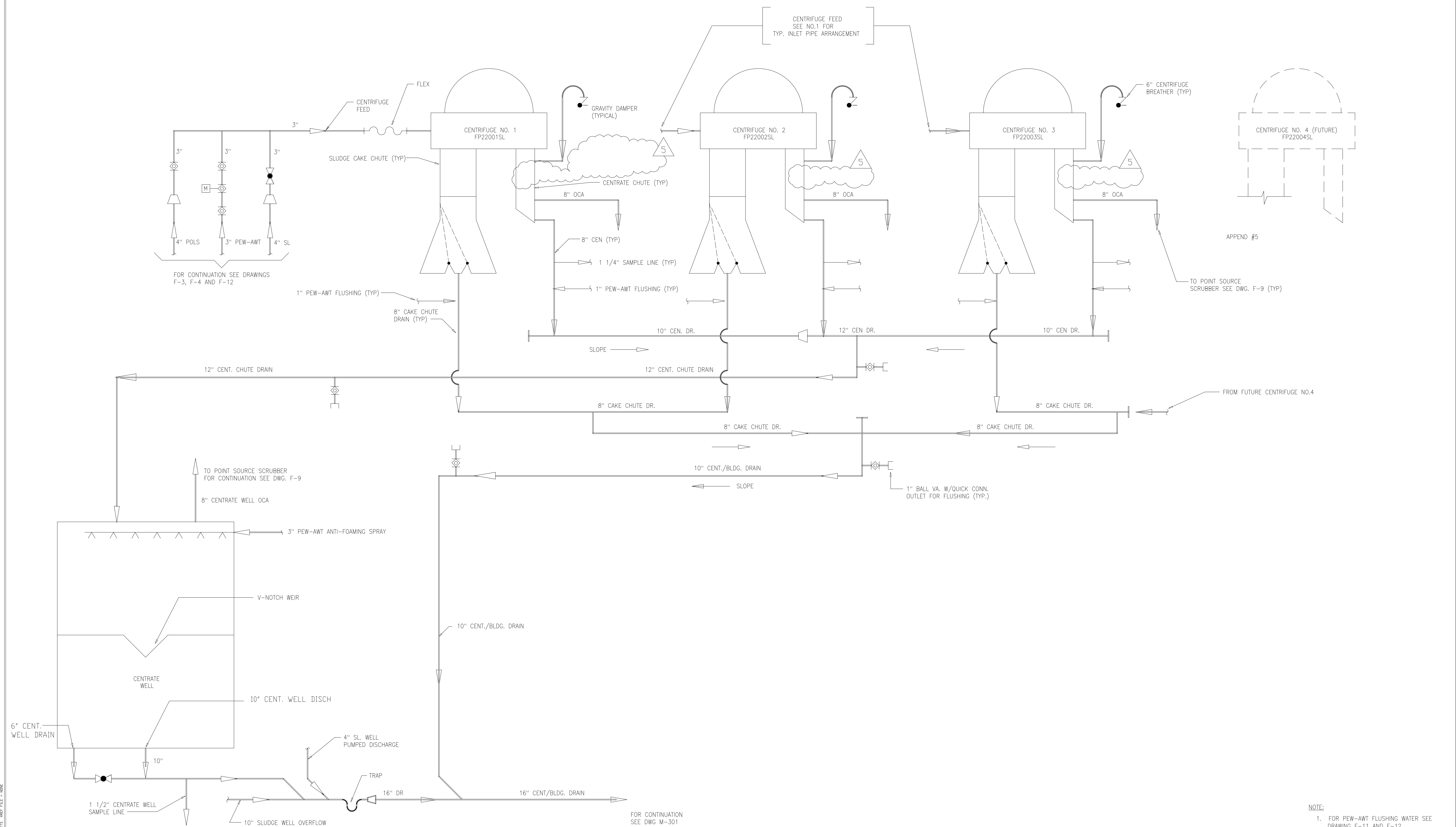


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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS FLOW DIAGRAM
 SLUDGE CAKE HANDLING

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER F-5
	SHEET 8 OF 199

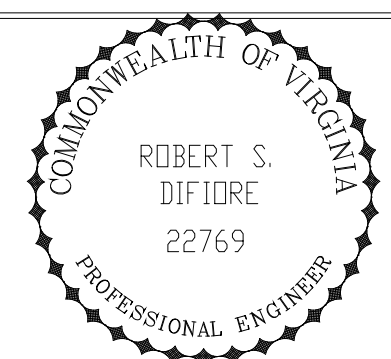


APPEND #5

NOTE:
1. FOR PEW-AWT FLUSHING WATER SEE DRAWING F-11 AND F-12

5	RECORD DRAWING	4-99	MKS
4	WP9 CONST.-LAND APP.REDES.	4-96	J.J.B
3	WP9 APPROVAL-LAND APP.REDES.	1-96	J.J.B
2	CONSTRUCTION	9-94	J.J.B
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B
NO.	ISSUED FOR	DATE	BY

DESIGNED	K.H.
DRAWN	N.N.
CHECKED	K.H.
PROJ.ENGR.	A.B.
APPROVED	J.J.B.

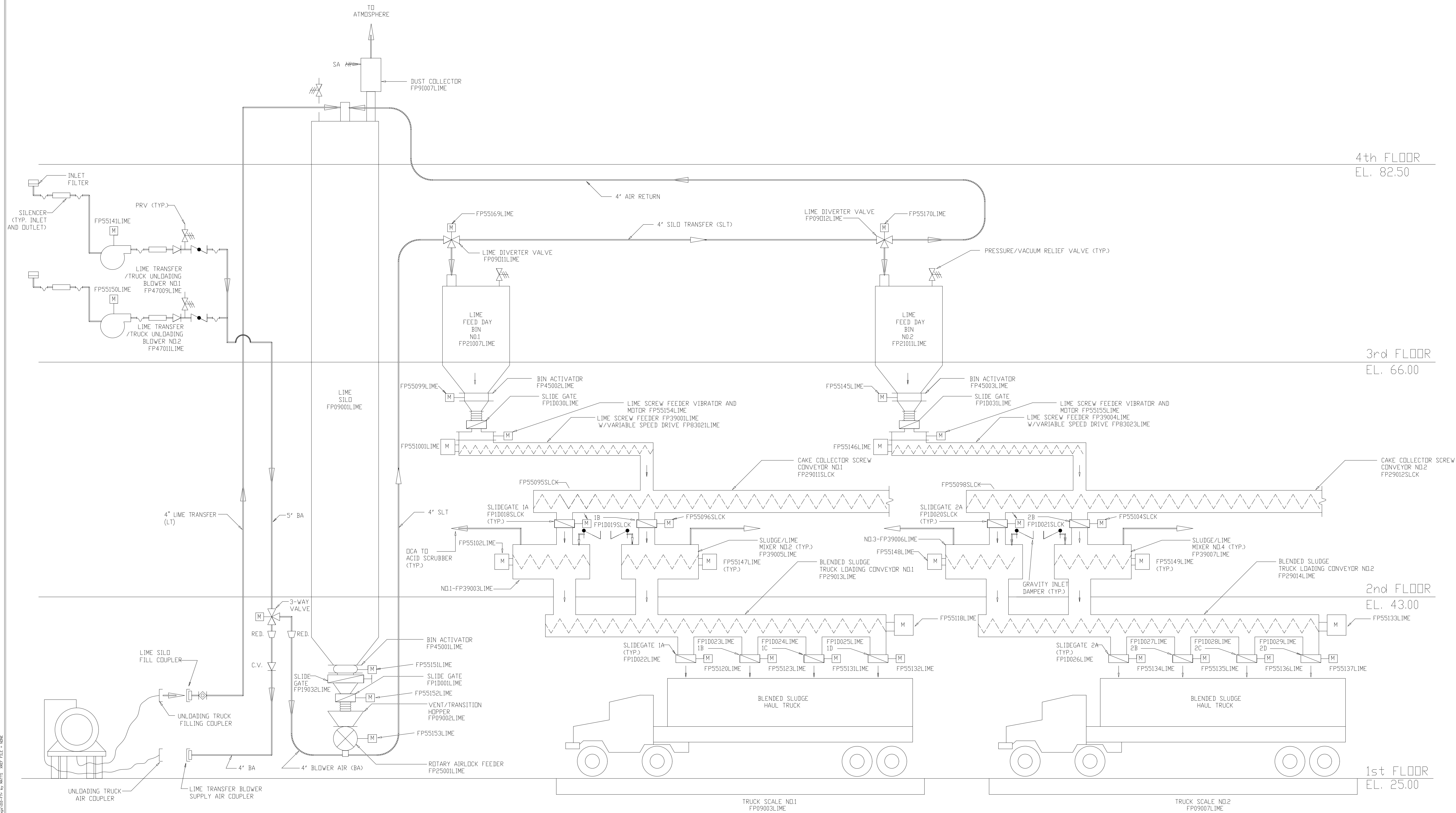


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

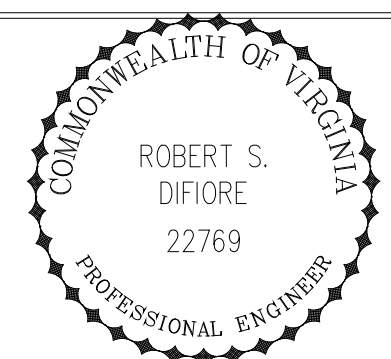
GENERAL
PROCESS FLOW DIAGRAM
CENTRATE

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER F-6
	SHEET 9 OF 199



RECORD DRAWING

DESIGNED	T.A.P.		
DRAWN	J.H.R./J.F.		
CHECKED	A.A.B.		
PROJ. ENGR.	A.B.		
	J.J.B.		
NO.	DATE	BY	APPROVED
5	4-99	M.K.S.	
4	4-96	J.J.B.	
3	1-96	J.J.B.	
2	9-94	J.J.B.	
1	9-94	J.J.B.	

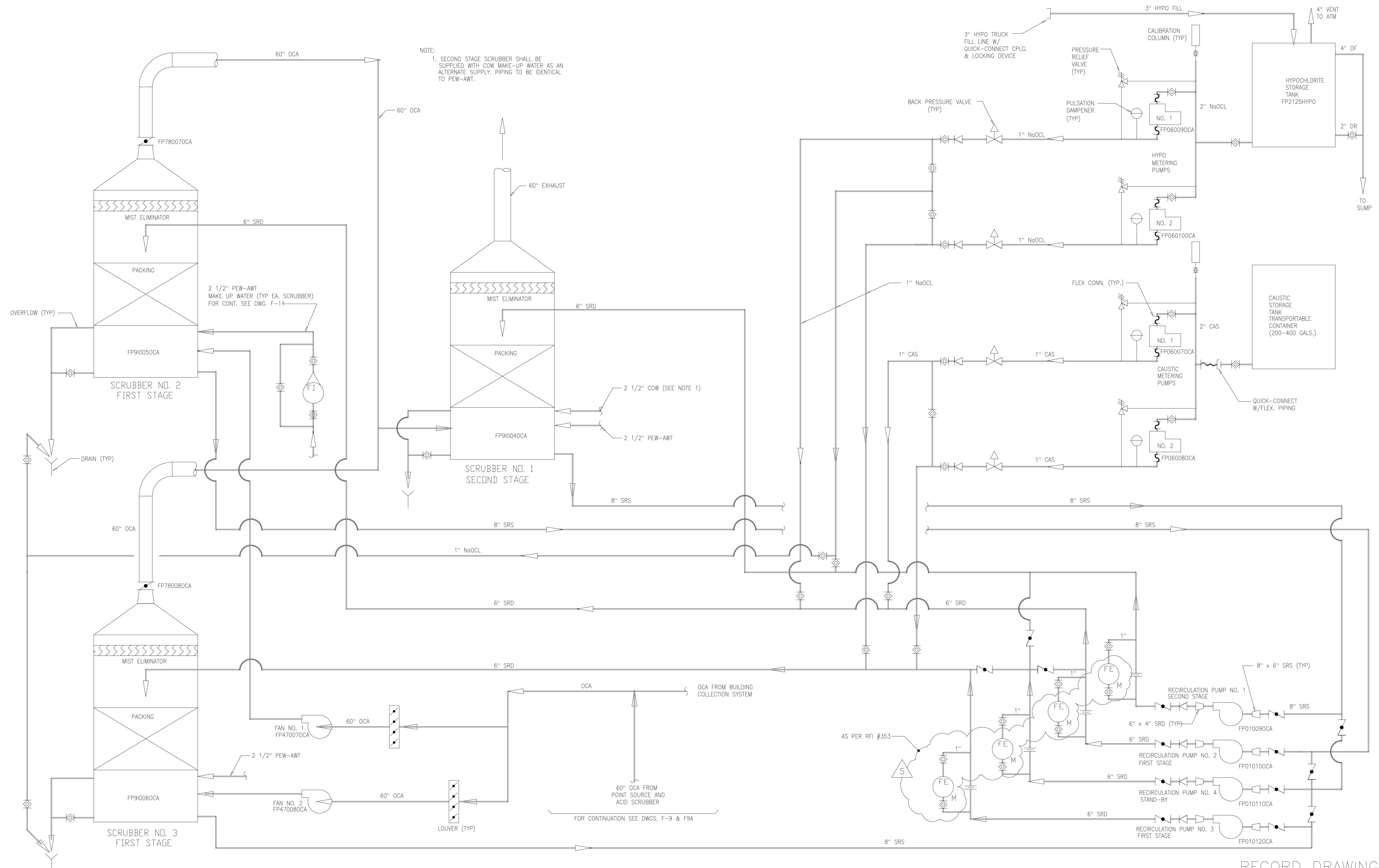


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS FLOW DIAGRAM
LIME STABILIZATION

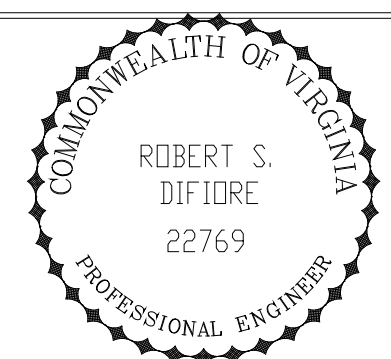
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	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER F-7
	SHEET 10 OF 199



RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
5	RECORD DRAWING	4-99	MKS	
4	WP9 CONST.-LAND APP.REDES.	4-96	J.J.B.	
3	WP9 APPROVAL-LAND APP.REDES.	1-96	J.J.B.	
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

DESIGNED: R.H.
DRAWN: J.H.R./J.F.
CHECKED: A.A.B.
PROJ.ENGR.: A.B.
APPROVED: J.J.B.

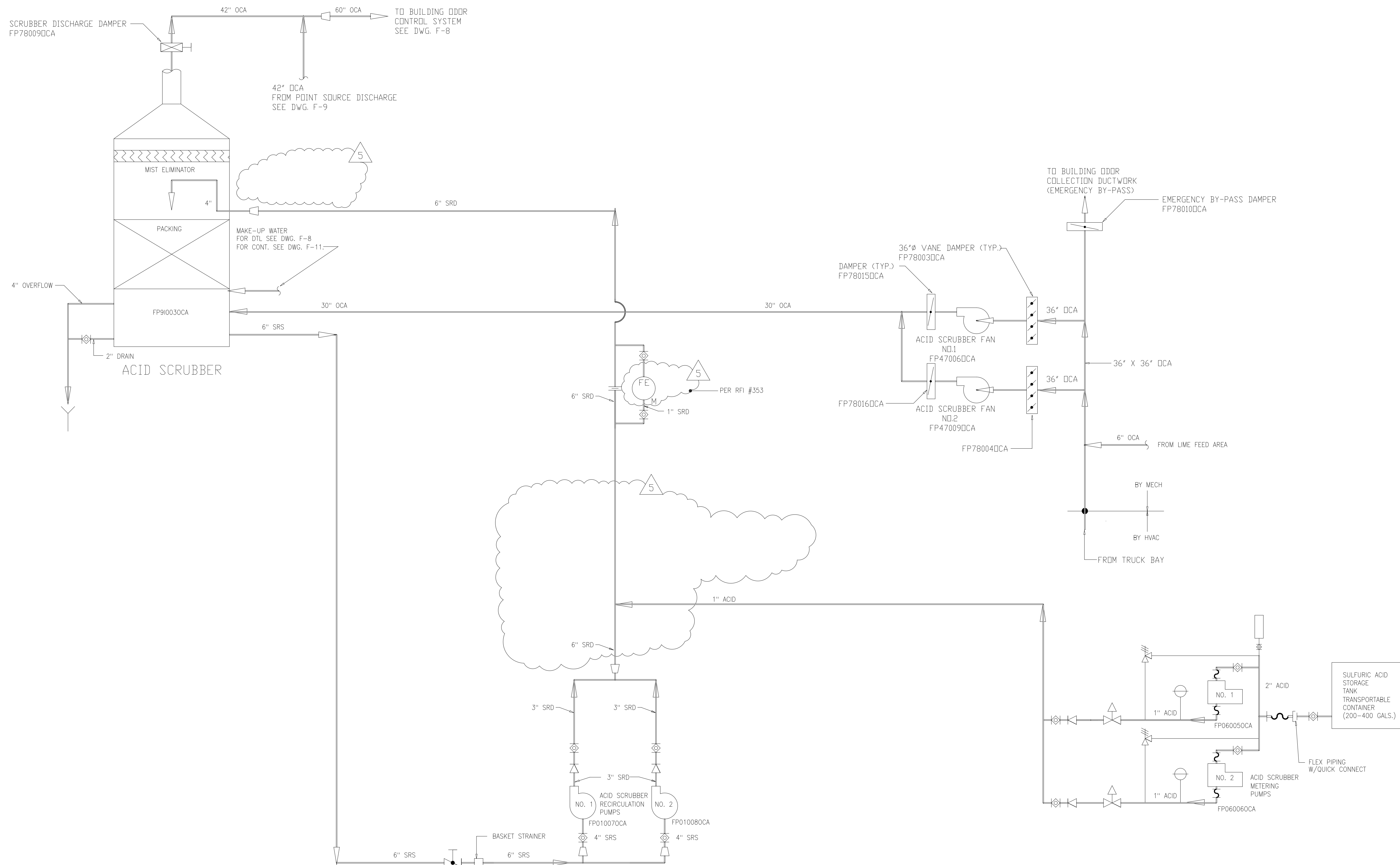


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

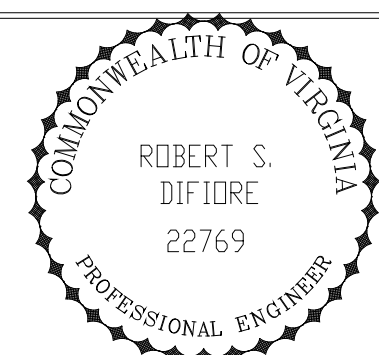
GENERAL
PROCESS FLOW DIAGRAM
BUILDING ODOR CONTROL

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER F-8
	SHEET 11 OF 199



RECORD DRAWING

DESIGNED	R.H.
DRAWN	J.H.R./J.F.
CHECKED	A.A.B.
PROJ.ENGR.	J.J.B.
BY	J.J.B.
APPROVED	



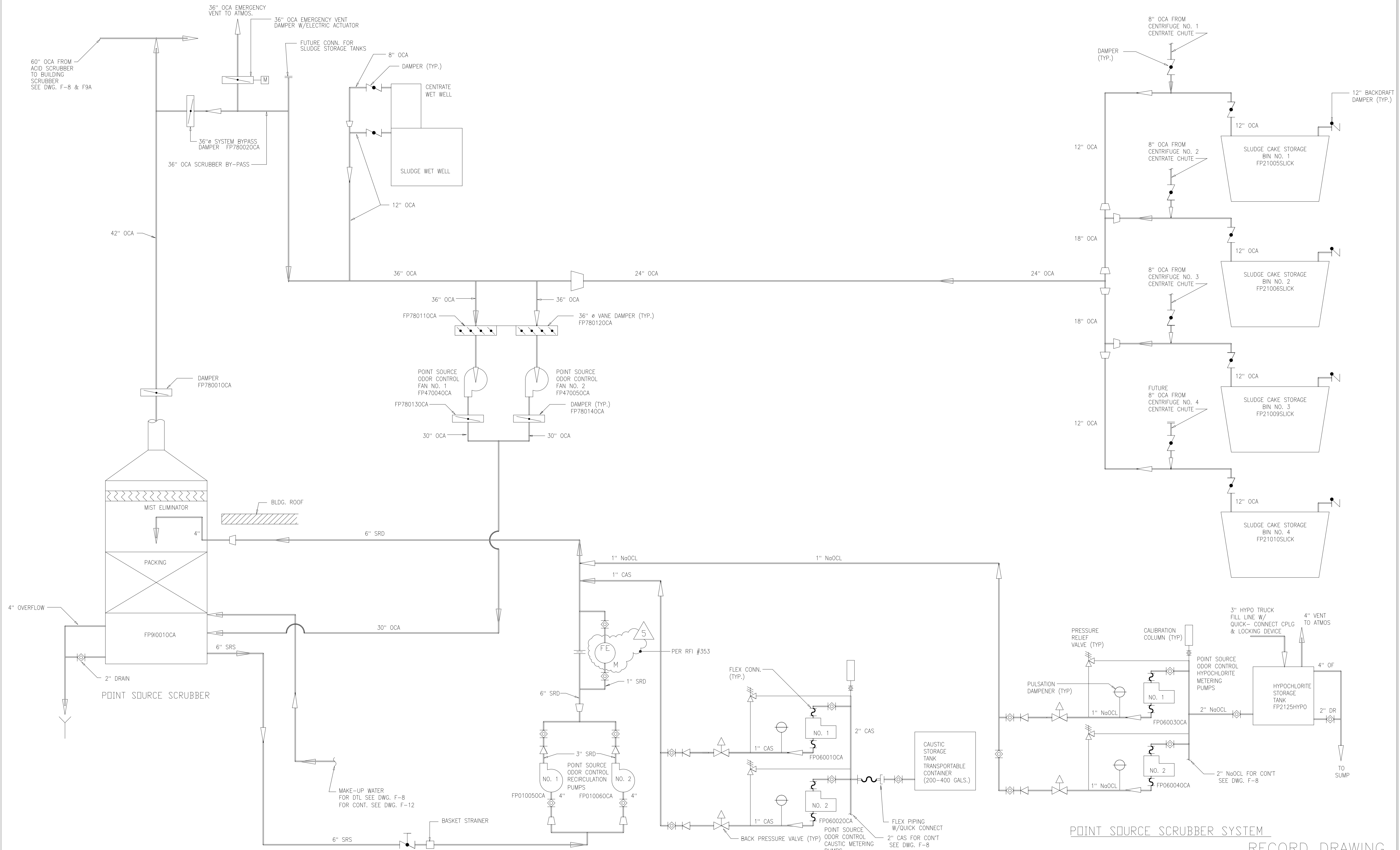
HAZENAND SAWYER
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RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS FLOW DIAGRAM
ACID SCRUBBER ODOR CONTROL SYSTEM

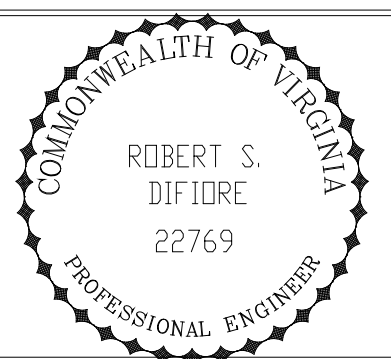
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	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER F-9A
	SHEET 12A OF 199

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POINT SOURCE SCRUBBER SYSTEM
 RECORD DRAWING

DESIGNED	R.H.
DRAWN	J.H.R.
CHECKED	R.H.
PROJ. ENGR.	A.B.
DATE	BY
APPROVED	J.J.B.



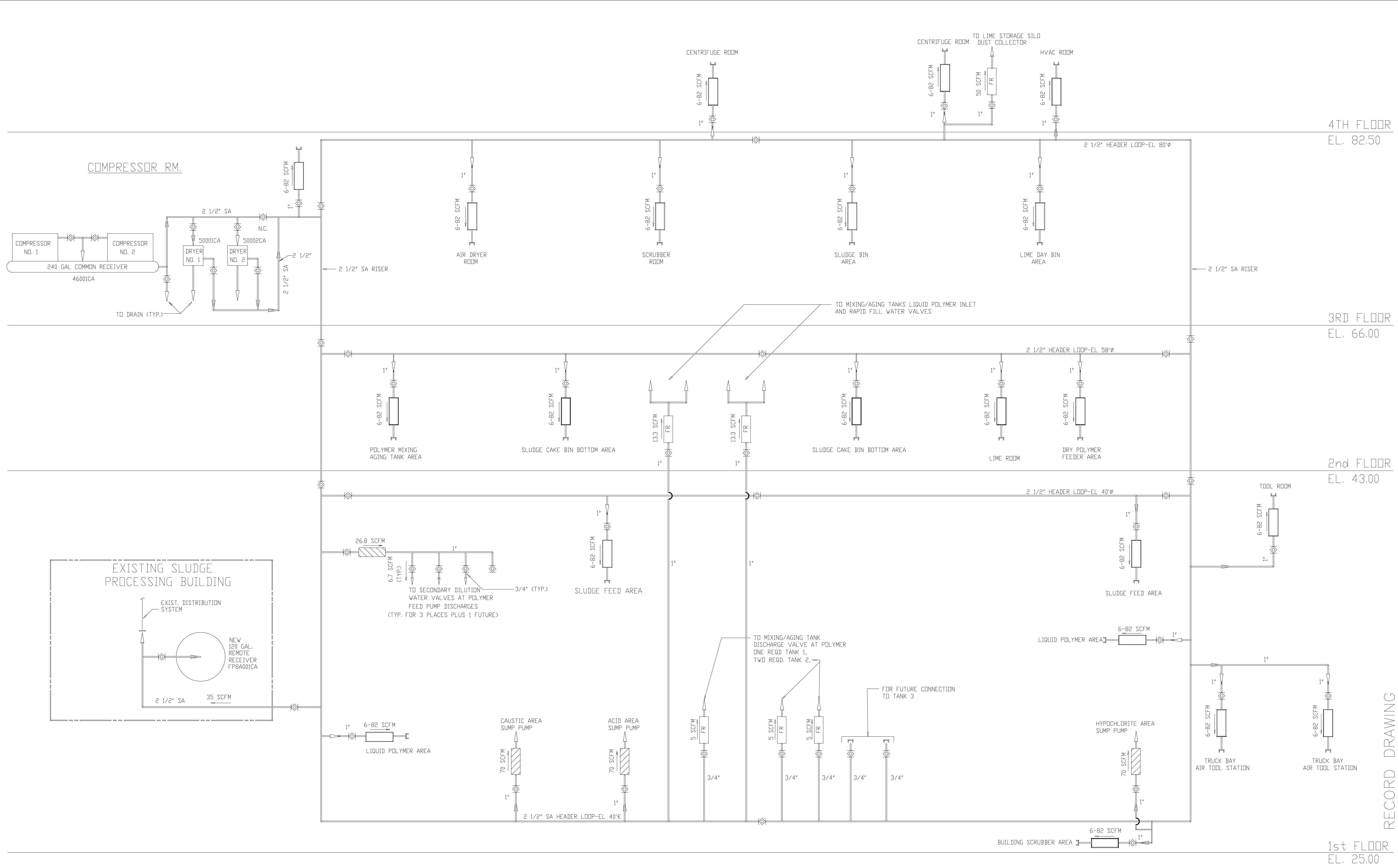
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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS FLOW DIAGRAM
 POINT SOURCE ODOR CONTROL

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
CONTRACT NUMBER 93-02-WPC	DRAWING NUMBER F-9
SHEET 12	OF 199

FILED: 08/29/94 09:51 AM FILE: 103045000 Dwg: 02-FP-9 BY: MTT: SHEET FILE: NONE



4TH FLOOR
EL. 82.50

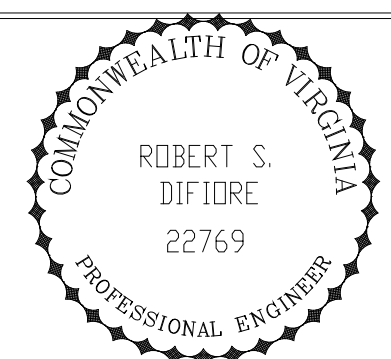
3RD FLOOR
EL. 66.00

2nd FLOOR
EL. 43.00

1st FLOOR
EL. 25.00

RECORD DRAWING

8	RECORD DRAWING	4-99	MKS	DESIGNED	J.S.
7	WP-5, 6/7 CONST.-LAND APPREDES.	4-96	J.J.B.	DRAWN	N.N.
6	WP-6/7 APPROVAL-LAND APPREDES.	3-96	J.J.B.		
5	WP-3 CONST.-LAND APPREDES.	3-96	J.J.B.	CHECKED	J.S.
4	WP-5 APPROVAL-LAND APPREDES.	2-96	J.J.B.		
3	WP-3 APPROVAL-LAND APPREDES.	1-96	J.J.B.	PROJ.ENGR.	A.B.
2	CONSTRUCTION	9-94	J.J.B.		
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.		J.J.B.
NO.	ISSUED FOR	DATE	BY	APPROVED	

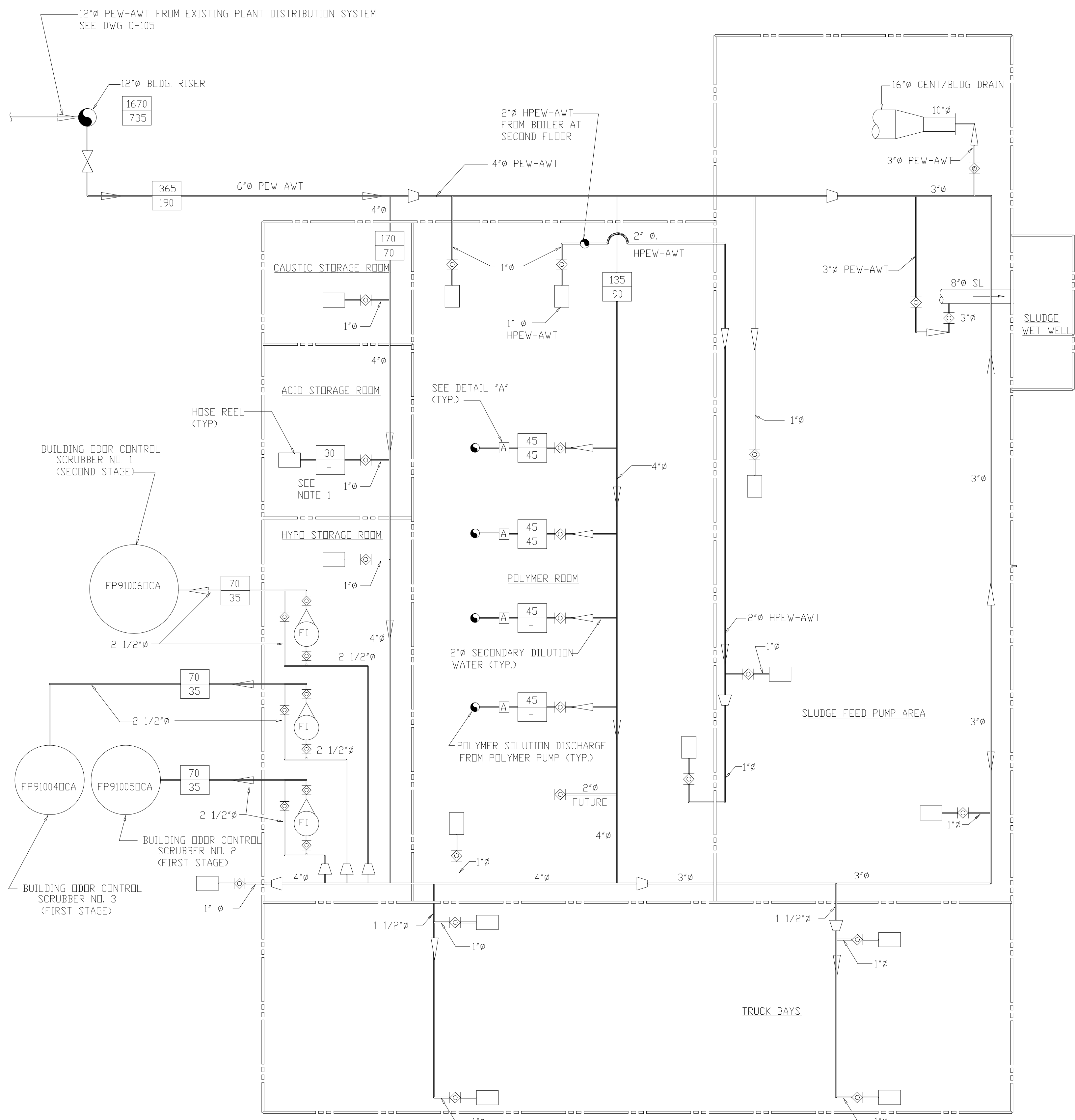


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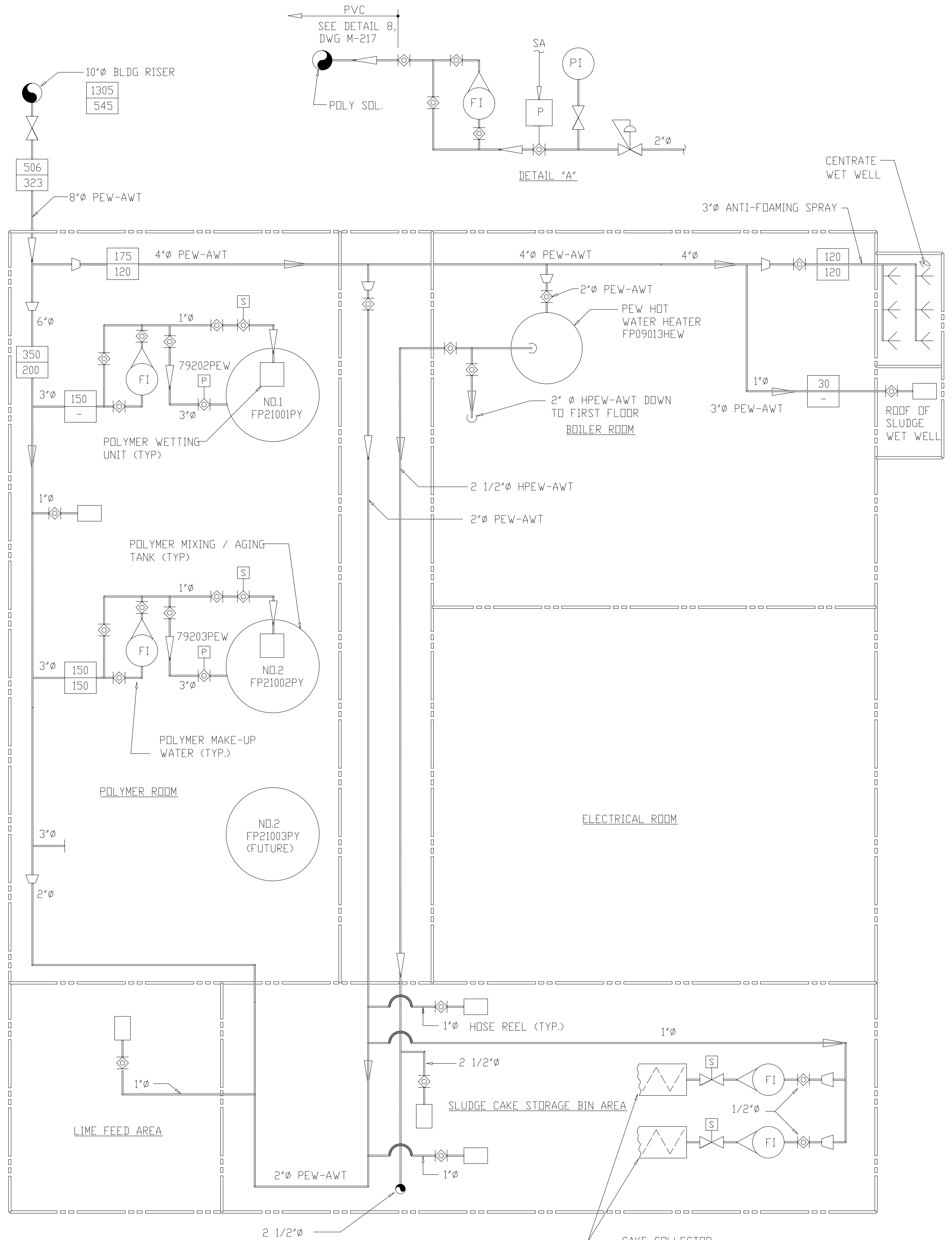
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS FLOW DIAGRAM
SERVICE AIR

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER F-10
	SHEET 13 OF 199



FIRST FLOOR



SECOND FLOOR

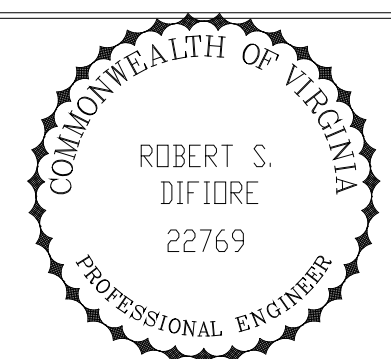
LEGEND

-	MAXIMUM FLOW RATE (GPM)
-	AVERAGE FLOW RATE (GPM)

NOTE:
1. FLOWRATE SHOWN IS TYPICAL FOR ALL HOSE REELS.

PLT: 04/17/99 09:29:03am FILE: H:\303\303.dwg Imp\jhd\jhd.rvt by FRAMP MSF FILE - KNE

DESIGNED	R.H./T.A.P.
DRAWN	J.H.R./J.F.
CHECKED	A.B.
PROJ.ENGR.	J.J.B.
APPROVED	J.J.B.
NO.	ISSUED FOR
DATE	BY
APPROVED	



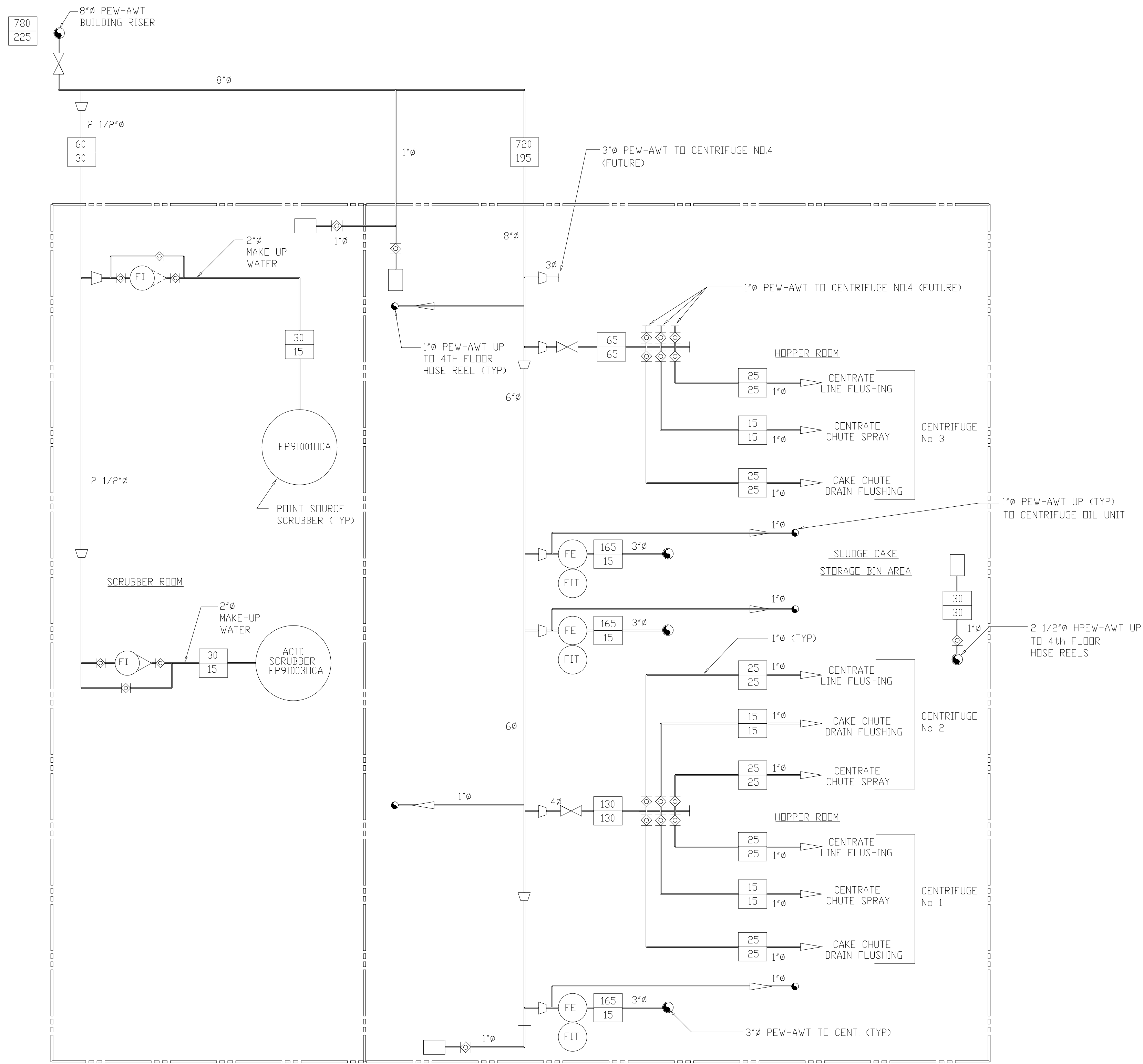
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

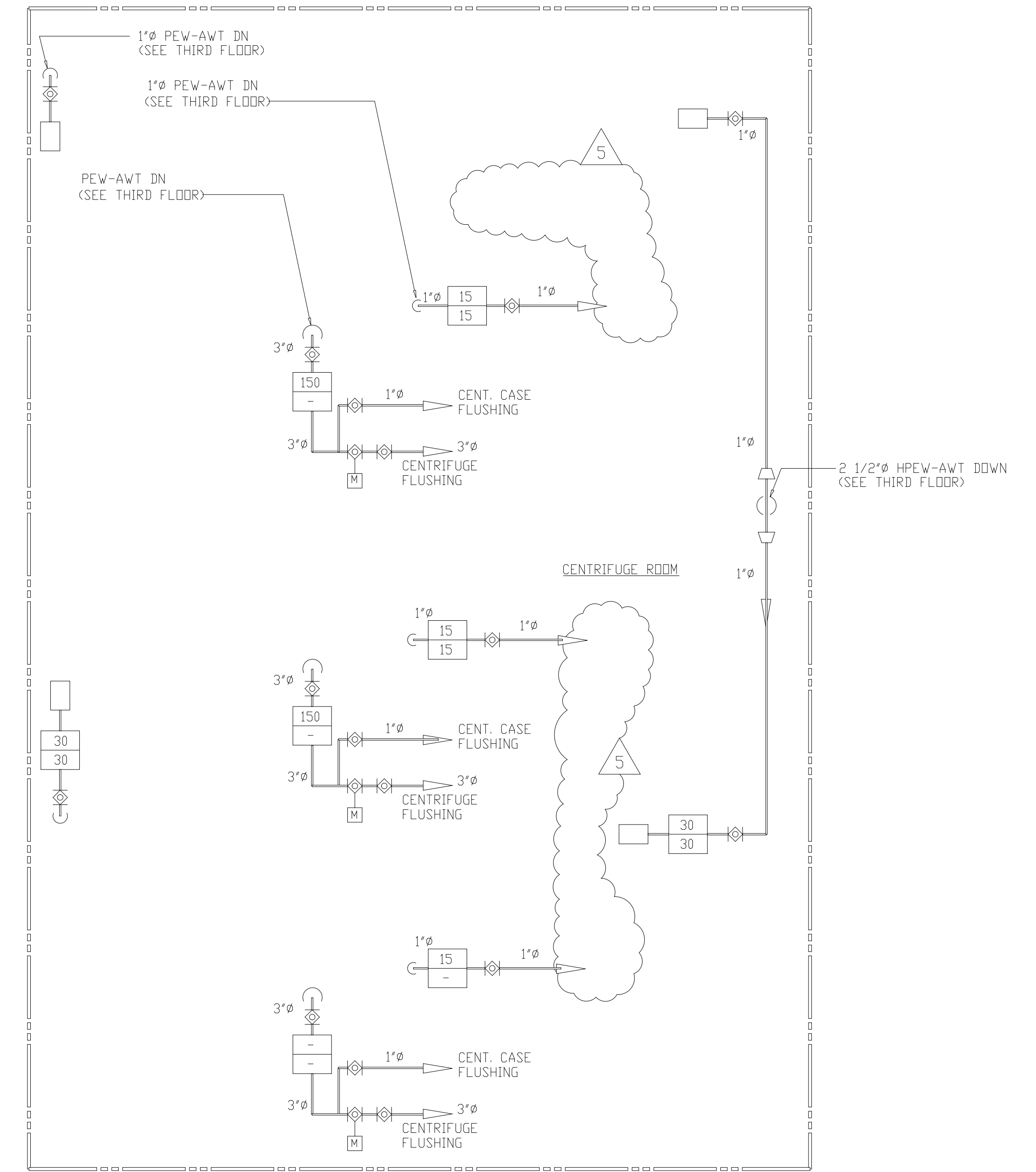
GENERAL
PROCESS FLOW DIAGRAM
PLANT EFFLUENT WATER SYSTEM
SHEET 1

RECORD DRAWING

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT. 1994
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	F-11
	SHEET	14 OF 199



THIRD FLOOR



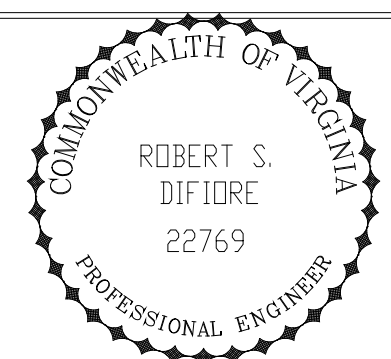
FOURTH FLOOR

LEGEND

-	MAXIMUM FLOW RATE (GPM)
-	AVERAGE FLOW RATE (GPM)

RECORD DRAWING

DESIGNED	K.H.
DRAWN	J.C.B.
CHECKED	A.B.
PROJ. ENGR.	J.J.B.
APPROVED	J.J.B.



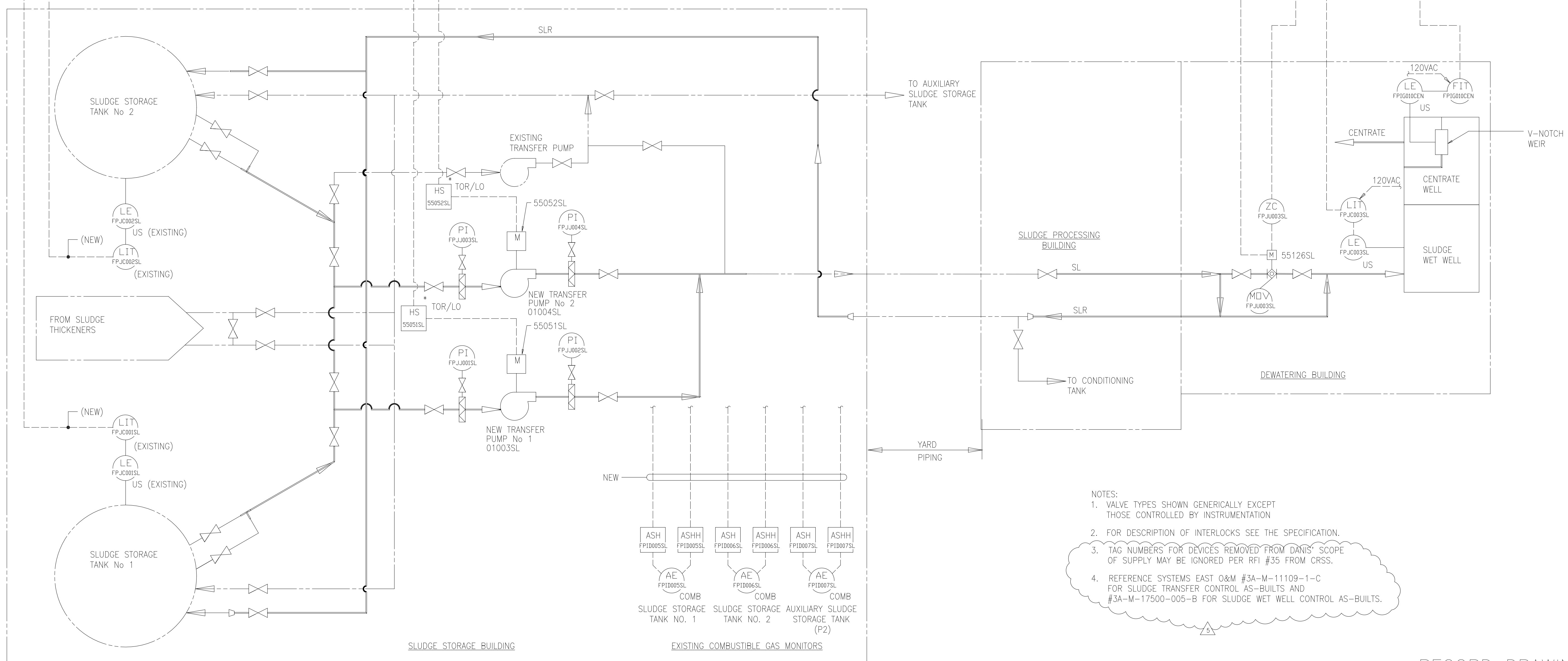
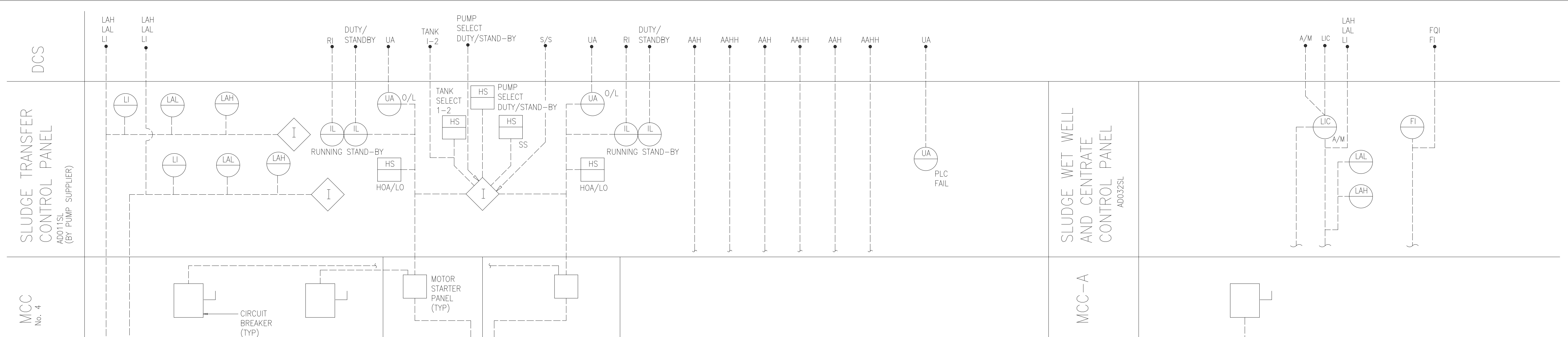
HAZENAND SAWYER
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS FLOW DIAGRAM
PLANT EFFLUENT WATER SYSTEM
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT. 1994
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	F-12
	SHEET	15 OF 199

FILE: H:\ARLINGTON\DWG\1994\1994-09-15\1994-09-15-1000.DWG
 PLOT DATE: 09/15/94 10:00 AM
 PLOT BY: J.C.B.



- NOTES:
1. VALVE TYPES SHOWN GENERICALLY EXCEPT THOSE CONTROLLED BY INSTRUMENTATION
 2. FOR DESCRIPTION OF INTERLOCKS SEE THE SPECIFICATION.
 3. TAG NUMBERS FOR DEVICES REMOVED FROM DANIS' SCOPE OF SUPPLY MAY BE IGNORED PER RFI #35 FROM CRSS.
 4. REFERENCE SYSTEMS EAST O&M #3A-M-11109-1-C FOR SLUDGE TRANSFER CONTROL AS-BUILTS AND #3A-M-17500-005-B FOR SLUDGE WET WELL CONTROL AS-BUILTS.

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
5	RECORD DRAWING	4-99	MKS	
4	WP9 CONST.-LAND APP. REDES.	4-96	RSD	
3	WP9 APPROVAL-LAND APP. REDES.	1-96	RSD	
2	CONSTRUCTION	9-94	JJB	
1	REGULATORY APPROVAL	9-94	JJB	

DESIGNED	TP/KH/DBE
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC

ROBERT S. DIFIORE
22769

DANIEL B. EDWARDS
024960

HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION DIAGRAM
SLUDGE TRANSFER AND CENTRATE

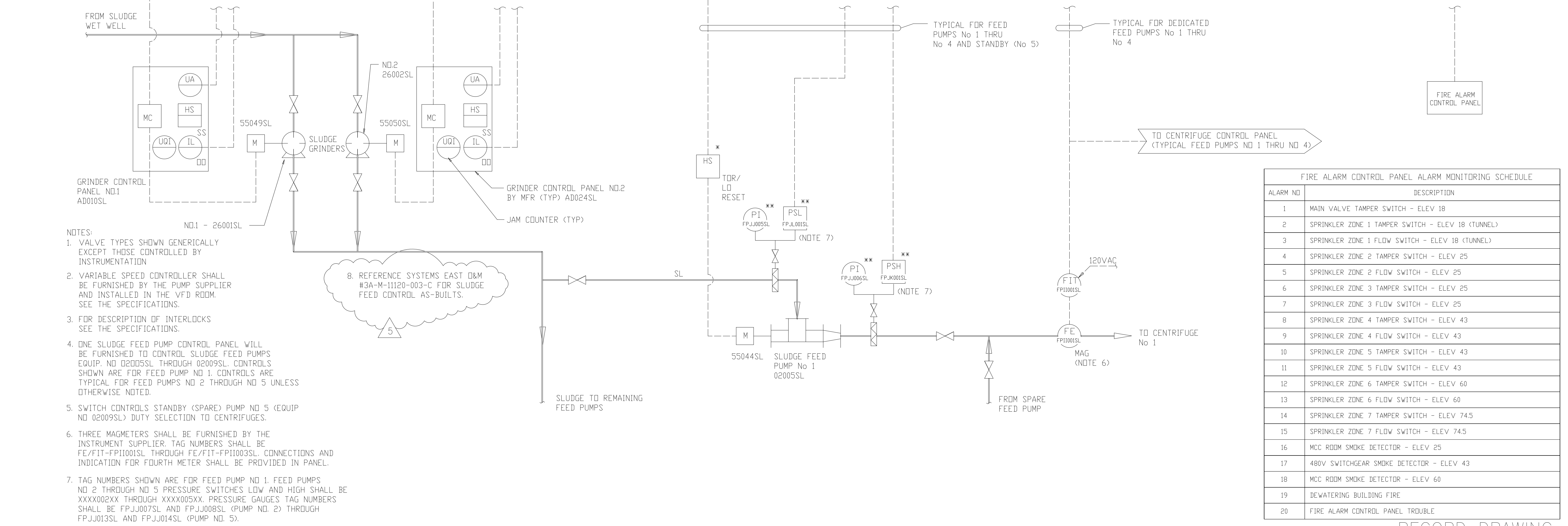
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	I-1
	SHEET	16 OF 199

DCS
SLUDGE FEED PUMP CONTROL PANEL AD031SL (BY PUMP SUPPLIER) NOTE 4
MCC-A

FEED PUMP ON/OFF STATUS, FEED PUMP COMMON ALARM SIGNALS TO THE CENTRIFUGE CONTROL PANEL

REMOTE SPEED CONTROL SIGNAL START/STOP COMMAND, CENTRIFUGE SYSTEM FAILURE AND CENTRIFUGE OFF/RUNNING STATUS SIGNALS FROM THE CENTRIFUGE CONTROL PANEL

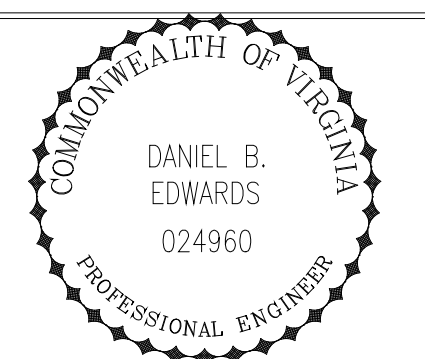
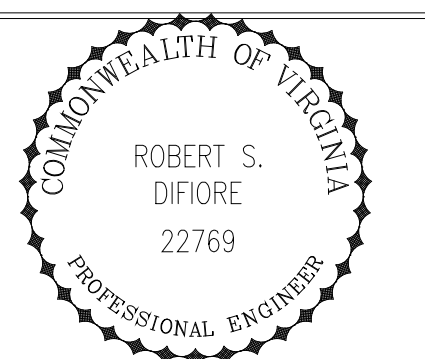
- RFI #142 - 7/19/96
1. ALL SIGNALS BETWEEN PANELS WITH NETWORK CONNECTED PLC'S ARE TO BE VIA THE PLC NETWORK.
 2. ALARM SILENCE/ACKNOWLEDGE AND RESET PUSHBUTTONS NEED TO BE ADDED TO PANEL AD 031SL.
 3. A SINGLE RUN LIGHT IS ACCEPTABLE.
 4. SIGNALS FROM THE GRINDER WILL BE ROUTED DIRECTLY TO THE DCU TERMINATION CABINET.
 5. ON-OFF LIGHTS SHALL BE PROVIDED.



- NOTES:
1. VALVE TYPES SHOWN GENERICALLY EXCEPT THOSE CONTROLLED BY INSTRUMENTATION
 2. VARIABLE SPEED CONTROLLER SHALL BE FURNISHED BY THE PUMP SUPPLIER AND INSTALLED IN THE VFD ROOM. SEE THE SPECIFICATIONS.
 3. FOR DESCRIPTION OF INTERLOCKS SEE THE SPECIFICATIONS.
 4. ONE SLUDGE FEED PUMP CONTROL PANEL WILL BE FURNISHED TO CONTROL SLUDGE FEED PUMPS EQUIP. NO 02005SL THROUGH 02009SL. CONTROLS SHOWN ARE FOR FEED PUMP NO 1. CONTROLS ARE TYPICAL FOR FEED PUMPS NO 2 THROUGH NO 5 UNLESS OTHERWISE NOTED.
 5. SWITCH CONTROLS STANDBY (SPARE) PUMP NO 5 (EQUIP NO 02009SL) DUTY SELECTION TO CENTRIFUGES.
 6. THREE MAGMETERS SHALL BE FURNISHED BY THE INSTRUMENT SUPPLIER. TAG NUMBERS SHALL BE FE/FIT-FP11001SL THROUGH FE/FIT-FP11003SL. CONNECTIONS AND INDICATION FOR FOURTH METER SHALL BE PROVIDED IN PANEL.
 7. TAG NUMBERS SHOWN ARE FOR FEED PUMP NO 1. FEED PUMPS NO 2 THROUGH NO 5 PRESSURE SWITCHES LOW AND HIGH SHALL BE XXXX002XX THROUGH XXXX005XX. PRESSURE GAUGES TAG NUMBERS SHALL BE FPJ007SL AND FPJ008SL (PUMP NO. 2) THROUGH FPJ013SL AND FPJ014SL (PUMP NO. 5).

FIRE ALARM CONTROL PANEL ALARM MONITORING SCHEDULE	
ALARM NO	DESCRIPTION
1	MAIN VALVE TAMPER SWITCH - ELEV 18
2	SPRINKLER ZONE 1 TAMPER SWITCH - ELEV 18 (TUNNEL)
3	SPRINKLER ZONE 1 FLOW SWITCH - ELEV 18 (TUNNEL)
4	SPRINKLER ZONE 2 TAMPER SWITCH - ELEV 25
5	SPRINKLER ZONE 2 FLOW SWITCH - ELEV 25
6	SPRINKLER ZONE 3 TAMPER SWITCH - ELEV 25
7	SPRINKLER ZONE 3 FLOW SWITCH - ELEV 25
8	SPRINKLER ZONE 4 TAMPER SWITCH - ELEV 43
9	SPRINKLER ZONE 4 FLOW SWITCH - ELEV 43
10	SPRINKLER ZONE 5 TAMPER SWITCH - ELEV 43
11	SPRINKLER ZONE 5 FLOW SWITCH - ELEV 43
12	SPRINKLER ZONE 6 TAMPER SWITCH - ELEV 60
13	SPRINKLER ZONE 6 FLOW SWITCH - ELEV 60
14	SPRINKLER ZONE 7 TAMPER SWITCH - ELEV 74.5
15	SPRINKLER ZONE 7 FLOW SWITCH - ELEV 74.5
16	MCC ROOM SMOKE DETECTOR - ELEV 25
17	480V SWITCHGEAR SMOKE DETECTOR - ELEV 43
18	MCC ROOM SMOKE DETECTOR - ELEV 60
19	DEWATERING BUILDING FIRE
20	FIRE ALARM CONTROL PANEL TROUBLE

DESIGNED	TP/DBE
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	



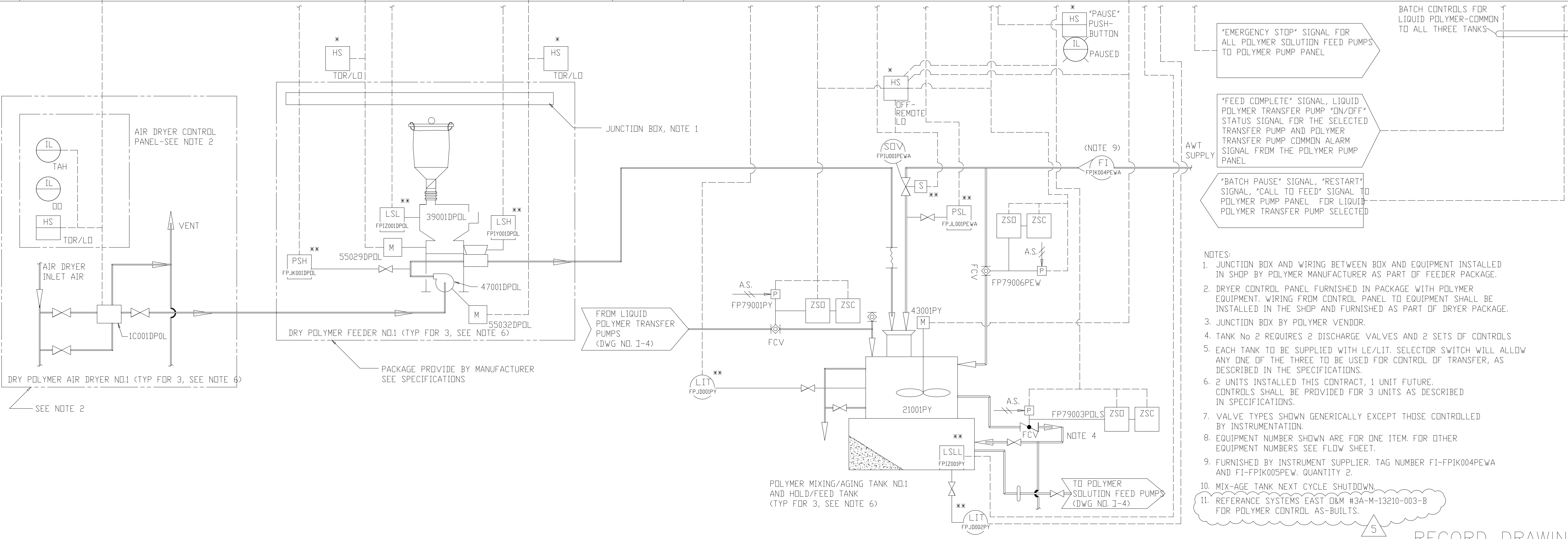
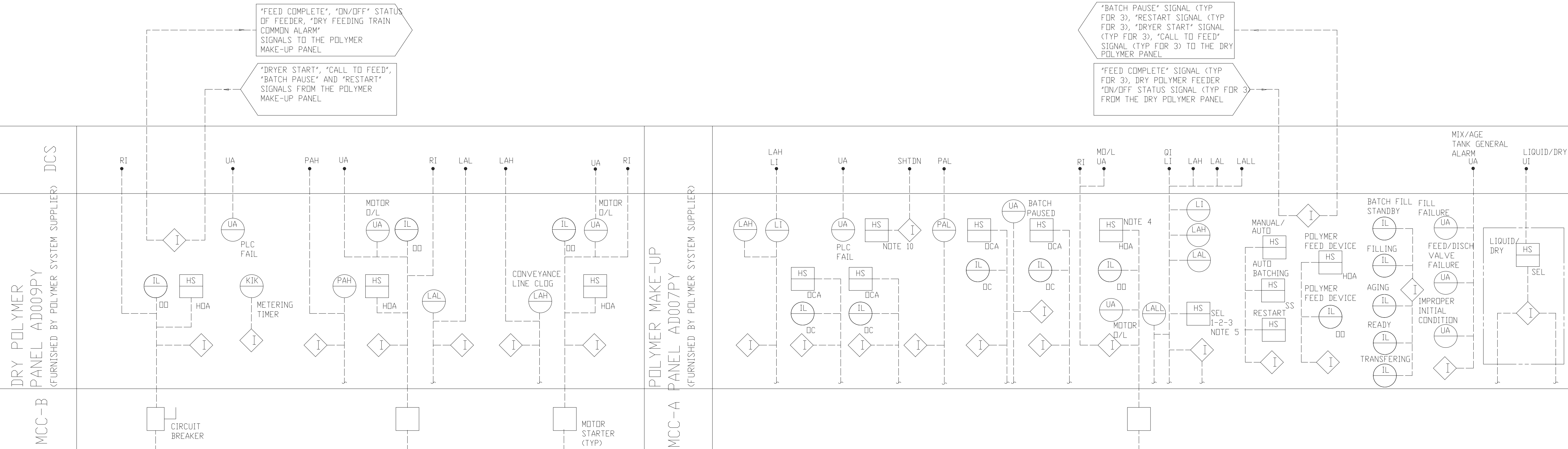
HAZENAND SAWYER
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RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION DIAGRAM
SLUDGE FEED

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	I-2
	SHEET	17 OF 199

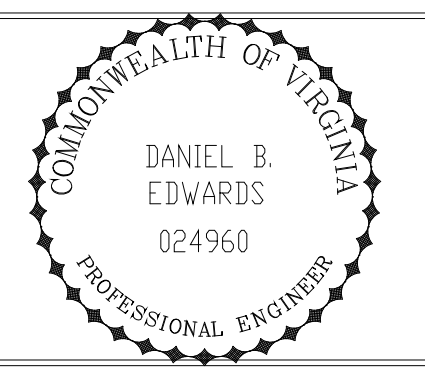
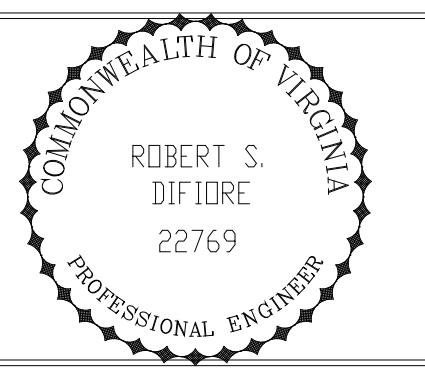
RECORD DRAWING



- NOTES:
1. JUNCTION BOX AND WIRING BETWEEN BOX AND EQUIPMENT INSTALLED IN SHOP BY POLYMER MANUFACTURER AS PART OF FEEDER PACKAGE.
 2. DRYER CONTROL PANEL FURNISHED IN PACKAGE WITH POLYMER EQUIPMENT. WIRING FROM CONTROL PANEL TO EQUIPMENT SHALL BE INSTALLED IN THE SHOP AND FURNISHED AS PART OF DRYER PACKAGE.
 3. JUNCTION BOX BY POLYMER VENDOR.
 4. TANK No 2 REQUIRES 2 DISCHARGE VALVES AND 2 SETS OF CONTROLS
 5. EACH TANK TO BE SUPPLIED WITH LE/LIT. SELECTOR SWITCH WILL ALLOW ANY ONE OF THE THREE TO BE USED FOR CONTROL OF TRANSFER, AS DESCRIBED IN THE SPECIFICATIONS.
 6. 2 UNITS INSTALLED THIS CONTRACT, 1 UNIT FUTURE. CONTROLS SHALL BE PROVIDED FOR 3 UNITS AS DESCRIBED IN SPECIFICATIONS.
 7. VALVE TYPES SHOWN GENERALLY EXCEPT THOSE CONTROLLED BY INSTRUMENTATION.
 8. EQUIPMENT NUMBER SHOWN ARE FOR ONE ITEM. FOR OTHER EQUIPMENT NUMBERS SEE FLOW SHEET.
 9. FURNISHED BY INSTRUMENT SUPPLIER. TAG NUMBER FI-FPIK004PEWA AND FI-FPIK005PEW. QUANTITY 2.
 10. MIX-AGE TANK NEXT CYCLE SHUTDOWN.
 11. REFERENCE SYSTEMS EAST D&M #3A-M-13210-003-B FOR POLYMER CONTROL AS-BUILTS.

RECORD DRAWING

	DESIGNED	TP/DBE
	DRAWN	BRC
5	RECORD DRAWING	4-99 MKS
4	WP9 CONST-LAND APP. REDES.	4-96 RSD
3	WP9 APPROVAL-LAND APP. REDES.	1-96 RSD
2	CONSTRUCTION	9-94 JJB
1	REGULATORY APPROVAL	9-94 JJB
NO.	ISSUED FOR	DATE BY APPROVED

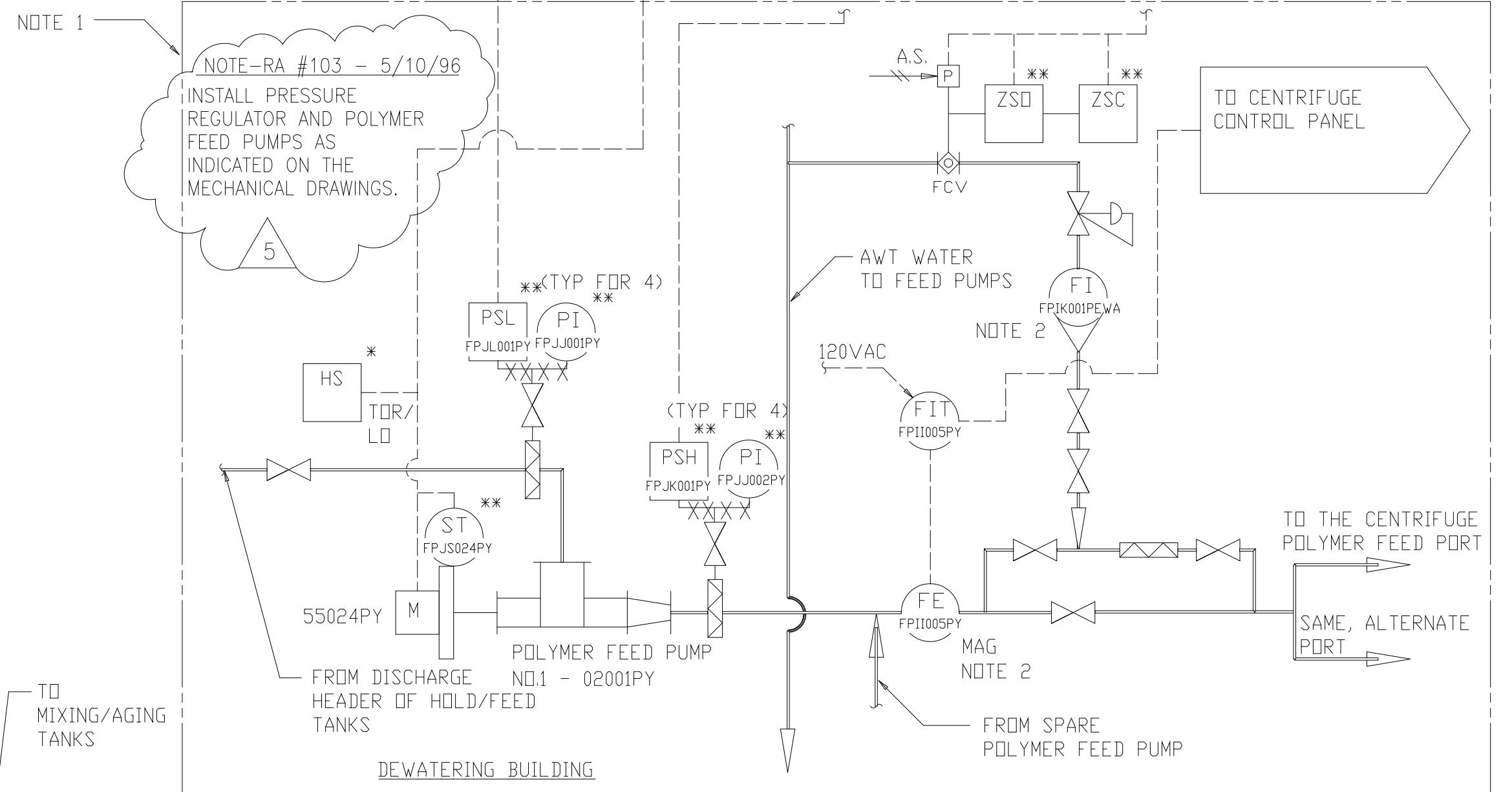
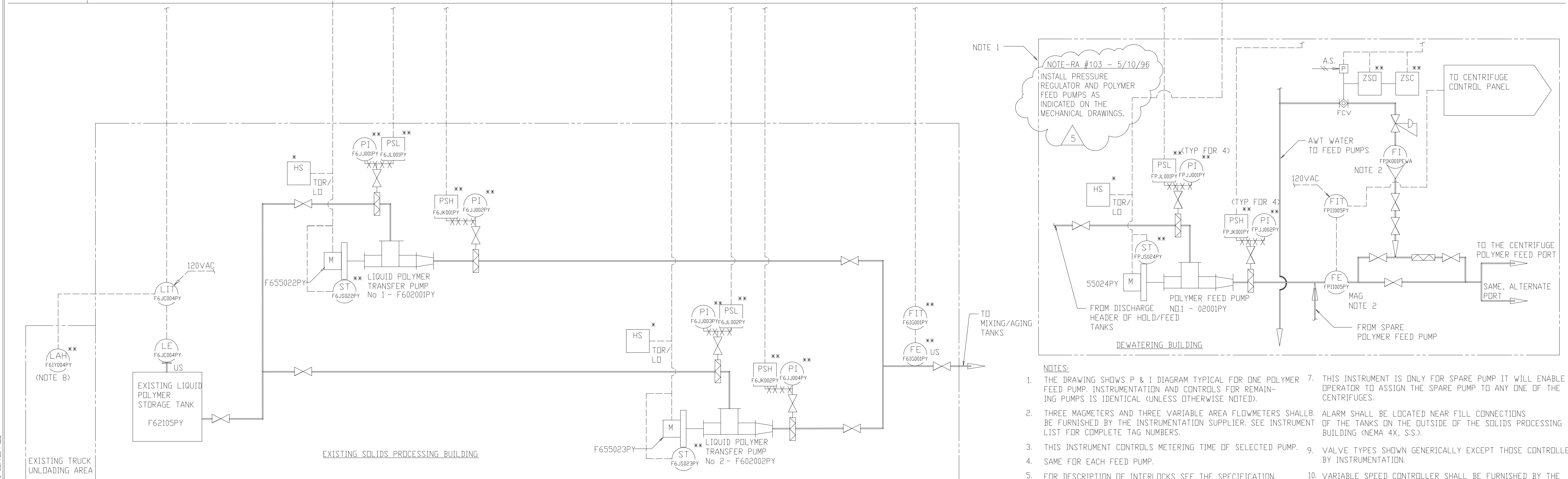
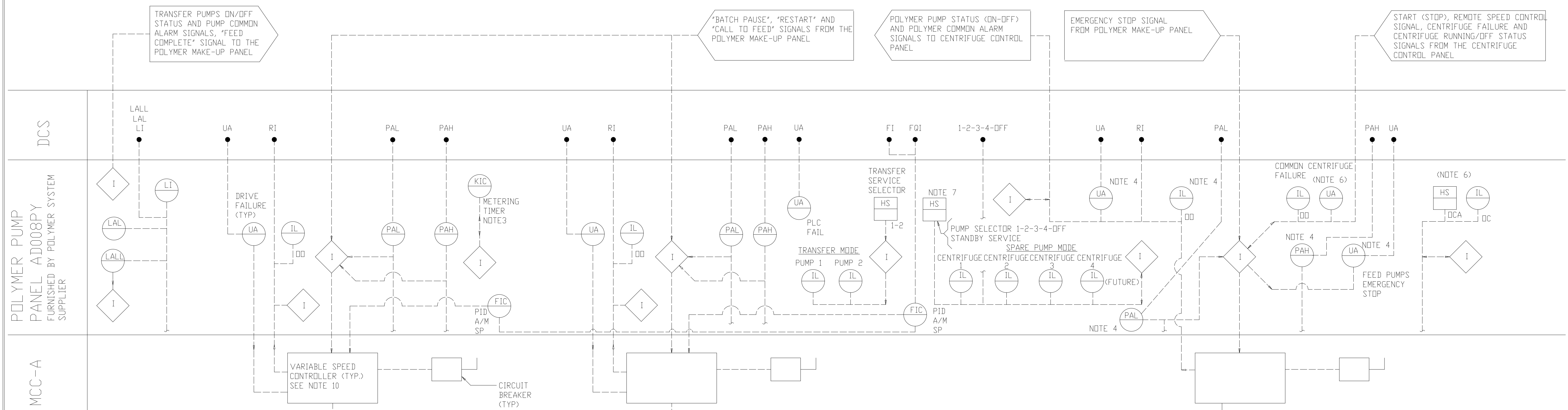


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

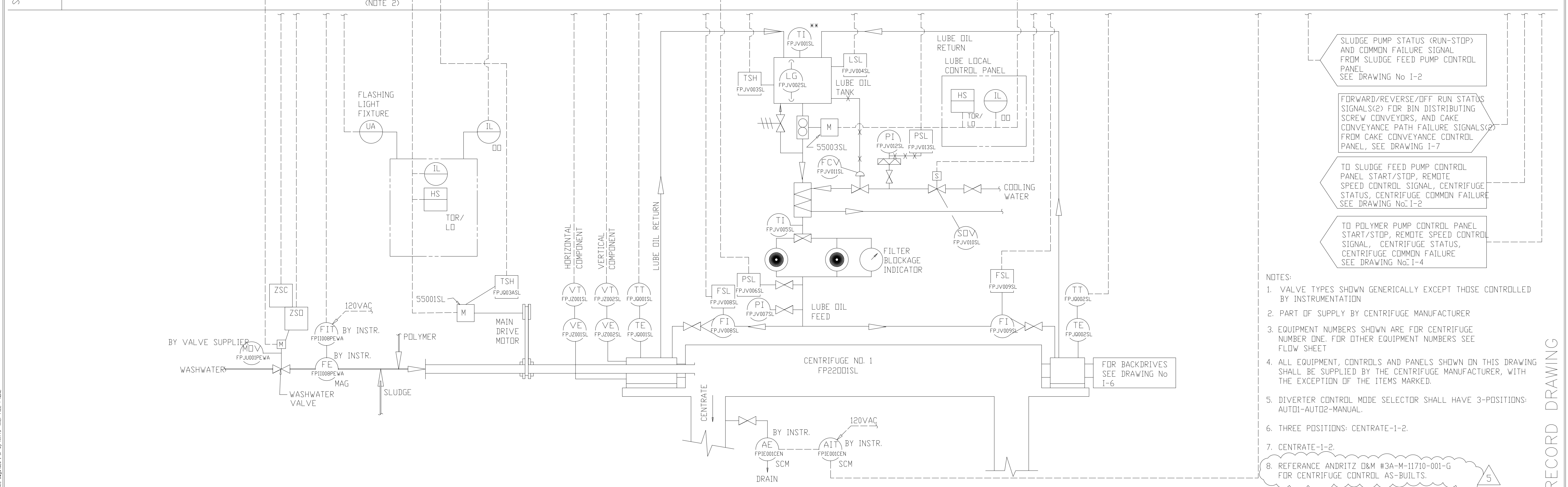
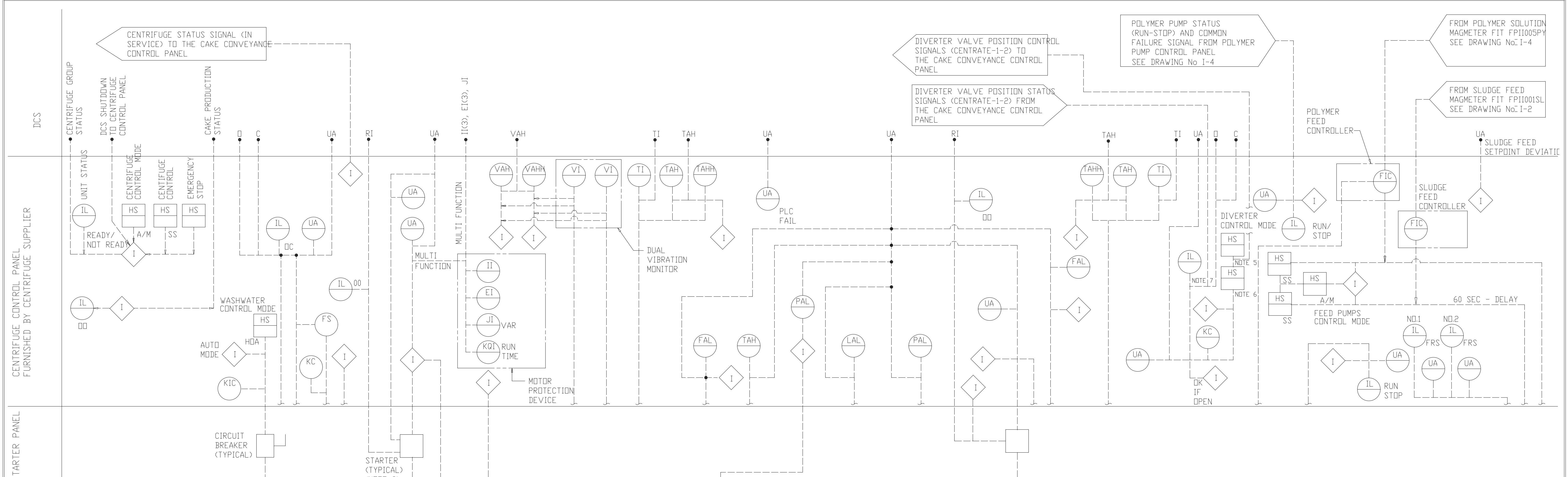
GENERAL
PROCESS AND INSTRUMENTATION DIAGRAM
DRY POLYMER FEED
AND POLYMER BATCHING

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	I-3
	SHEET	18 OF 199



- NOTES:**
1. THE DRAWING SHOWS P & I DIAGRAM TYPICAL FOR ONE POLYMER FEED PUMP. INSTRUMENTATION AND CONTROLS FOR REMAINING PUMPS IS IDENTICAL (UNLESS OTHERWISE NOTED).
 2. THREE MAGNETERS AND THREE VARIABLE AREA FLOWMETERS SHALL BE FURNISHED BY THE INSTRUMENTATION SUPPLIER. SEE INSTRUMENT LIST FOR COMPLETE TAG NUMBERS.
 3. THIS INSTRUMENT CONTROLS METERING TIME OF SELECTED PUMP.
 4. SAME FOR EACH FEED PUMP.
 5. FOR DESCRIPTION OF INTERLOCKS SEE THE SPECIFICATION.
 6. THESE CONTROLS ARE TYPICAL FOR EACH OF THE 3 DEDICATED AND 1 FUTURE FEED PUMPS. STANDBY FEED PUMP IS NOT INCLUDED SEE THE SPECS.
 7. THIS INSTRUMENT IS ONLY FOR SPARE PUMP IT WILL ENABLE OPERATOR TO ASSIGN THE SPARE PUMP TO ANY ONE OF THE CENTRIFUGES.
 8. ALARM SHALL BE LOCATED NEAR FILL CONNECTIONS OF THE TANKS ON THE OUTSIDE OF THE SOLIDS PROCESSING BUILDING (NEMA 4X, S.S.).
 9. VALVE TYPES SHOWN GENERICALLY EXCEPT THOSE CONTROLLED BY INSTRUMENTATION.
 10. VARIABLE SPEED CONTROLLER SHALL BE FURNISHED BY THE PUMP SUPPLIER, AND INSTALLED IN THE VFD ROOM. SEE THE SPECIFICATIONS.
 11. REFERENCE SYSTEMS EAST D&M #3A-M-13210-003-B FOR POLYMER CONTROL AS-BUILTS.

DESIGNED	TP/DBE				ARLINGTON COUNTY WATER POLLUTION CONTROL PLANT UPGRADE AND EXPANSION - PHASE III A SOLIDS PROCESSING FACILITIES	GENERAL PROCESS AND INSTRUMENTATION DIAGRAM LIQUID POLYMER AND POLYMER SOLUTION FEED PUMPING	THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
DRAWN	BRC						H & S JOB NUMBER	2843	CONTRACT NUMBER
5	RECORD DRAWING	4-99	MKS	PROJECT: ARLINGTON COUNTY WATER POLLUTION CONTROL PLANT UPGRADE AND EXPANSION - PHASE III A SOLIDS PROCESSING FACILITIES	DRAWING: GENERAL PROCESS AND INSTRUMENTATION DIAGRAM LIQUID POLYMER AND POLYMER SOLUTION FEED PUMPING	SHEET: 19 OF 199	11. REFERENCE SYSTEMS EAST D&M #3A-M-13210-003-B FOR POLYMER CONTROL AS-BUILTS.		
4	WP9 CONST-LAND APP. REDES.	4-96	RSD						
3	WP9 APPROVAL-LAND APP. REDES.	1-96	RSD						
2	CONSTRUCTION	9-94	JJB						
1	REGULATORY APPROVAL ISSUED FOR	9-94	JJB						



- SLUDGE PUMP STATUS (RUN-STOP) AND COMMON FAILURE SIGNAL FROM SLUDGE FEED PUMP CONTROL PANEL SEE DRAWING No I-2
- FORWARD/REVERSE/OFF RUN STATUS SIGNALS(2) FOR BIN DISTRIBUTING SCREW CONVEYORS, AND CAKE CONVEYANCE PATH FAILURE SIGNALS(2) FROM CAKE CONVEYANCE CONTROL PANEL, SEE DRAWING I-7
- TO SLUDGE FEED PUMP CONTROL PANEL START/STOP, REMOTE SPEED CONTROL SIGNAL, CENTRIFUGE STATUS, CENTRIFUGE COMMON FAILURE SEE DRAWING No I-2
- TO POLYMER PUMP CONTROL PANEL START/STOP, REMOTE SPEED CONTROL SIGNAL, CENTRIFUGE STATUS, CENTRIFUGE COMMON FAILURE SEE DRAWING No I-4

- NOTES:
1. VALVE TYPES SHOWN GENERICALLY EXCEPT THOSE CONTROLLED BY INSTRUMENTATION
 2. PART OF SUPPLY BY CENTRIFUGE MANUFACTURER
 3. EQUIPMENT NUMBERS SHOWN ARE FOR CENTRIFUGE NUMBER ONE. FOR OTHER EQUIPMENT NUMBERS SEE FLOW SHEET
 4. ALL EQUIPMENT, CONTROLS AND PANELS SHOWN ON THIS DRAWING SHALL BE SUPPLIED BY THE CENTRIFUGE MANUFACTURER, WITH THE EXCEPTION OF THE ITEMS MARKED.
 5. DIVERTER CONTROL MODE SELECTOR SHALL HAVE 3-POSITIONS: AUTO1-AUTO2-MANUAL.
 6. THREE POSITIONS: CENTRATE-1-2.
 7. CENTRATE-1-2.
 8. REFERENCE ANDRITZ Q&M #3A-M-11710-001-G FOR CENTRIFUGE CONTROL AS-BUILTS.

DESIGNED	DBE/AGG
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

ROBERT S. DIFIORE
22769
PROFESSIONAL ENGINEER

DANIEL B. EDWARDS
024960
PROFESSIONAL ENGINEER

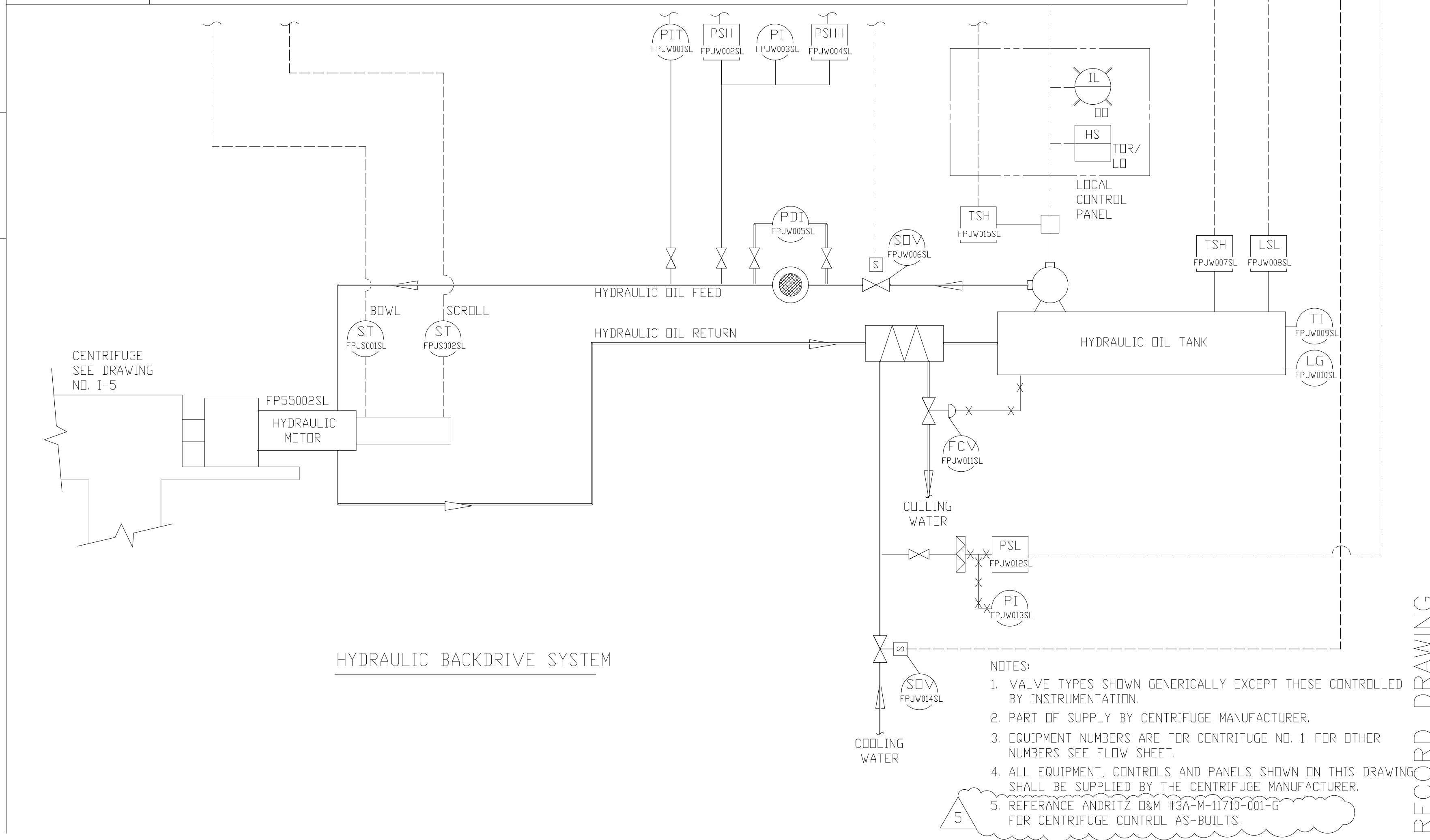
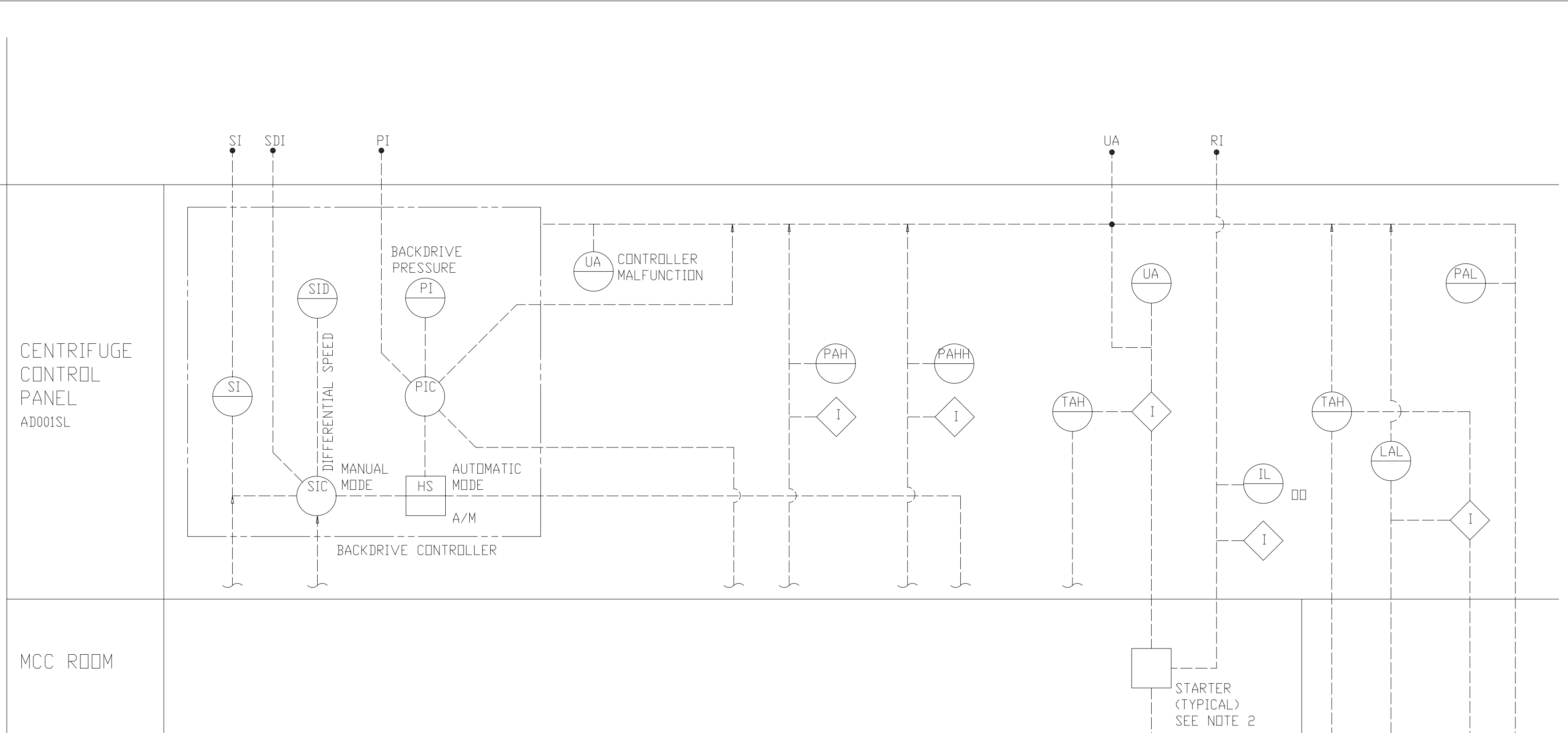
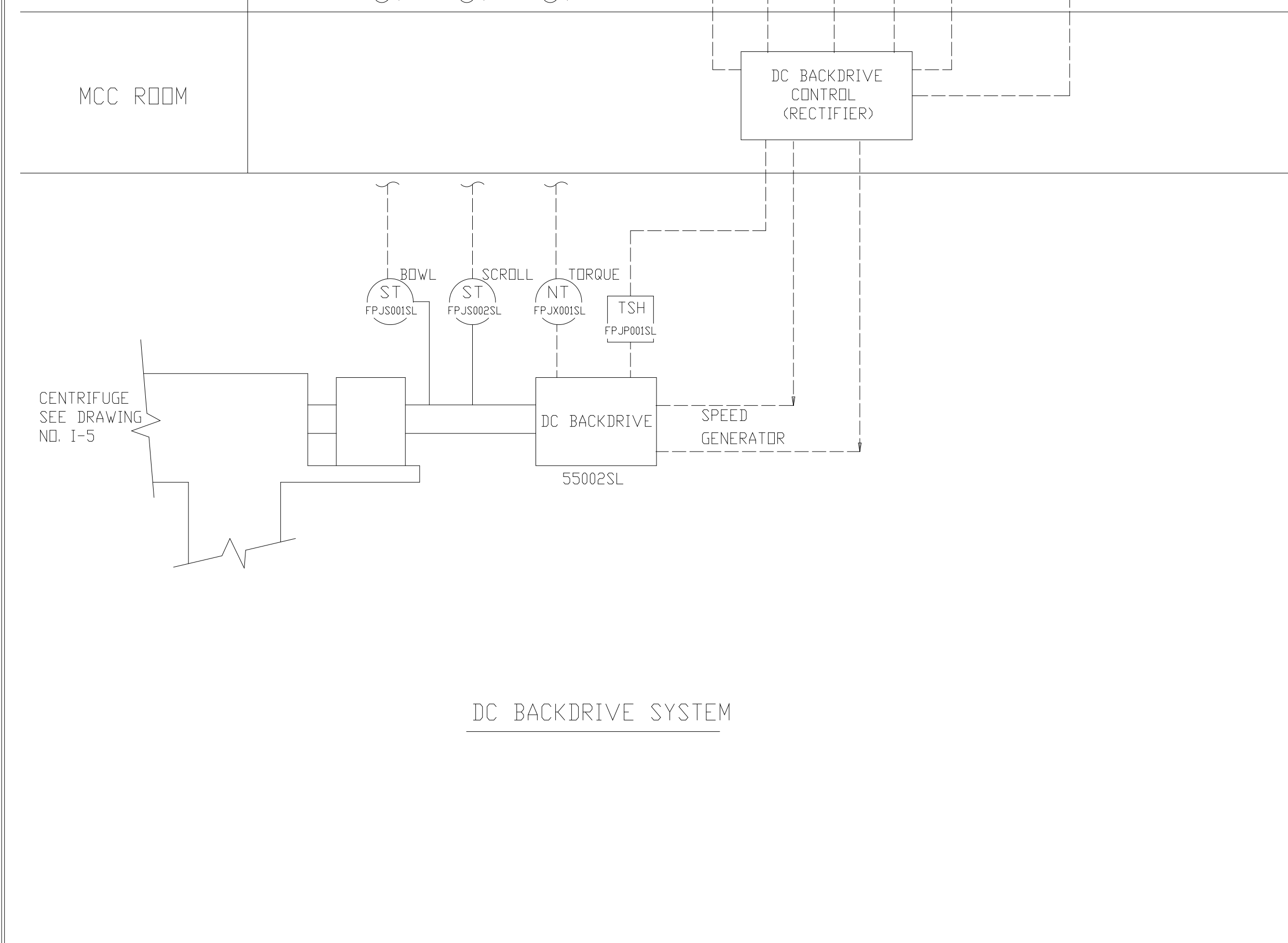
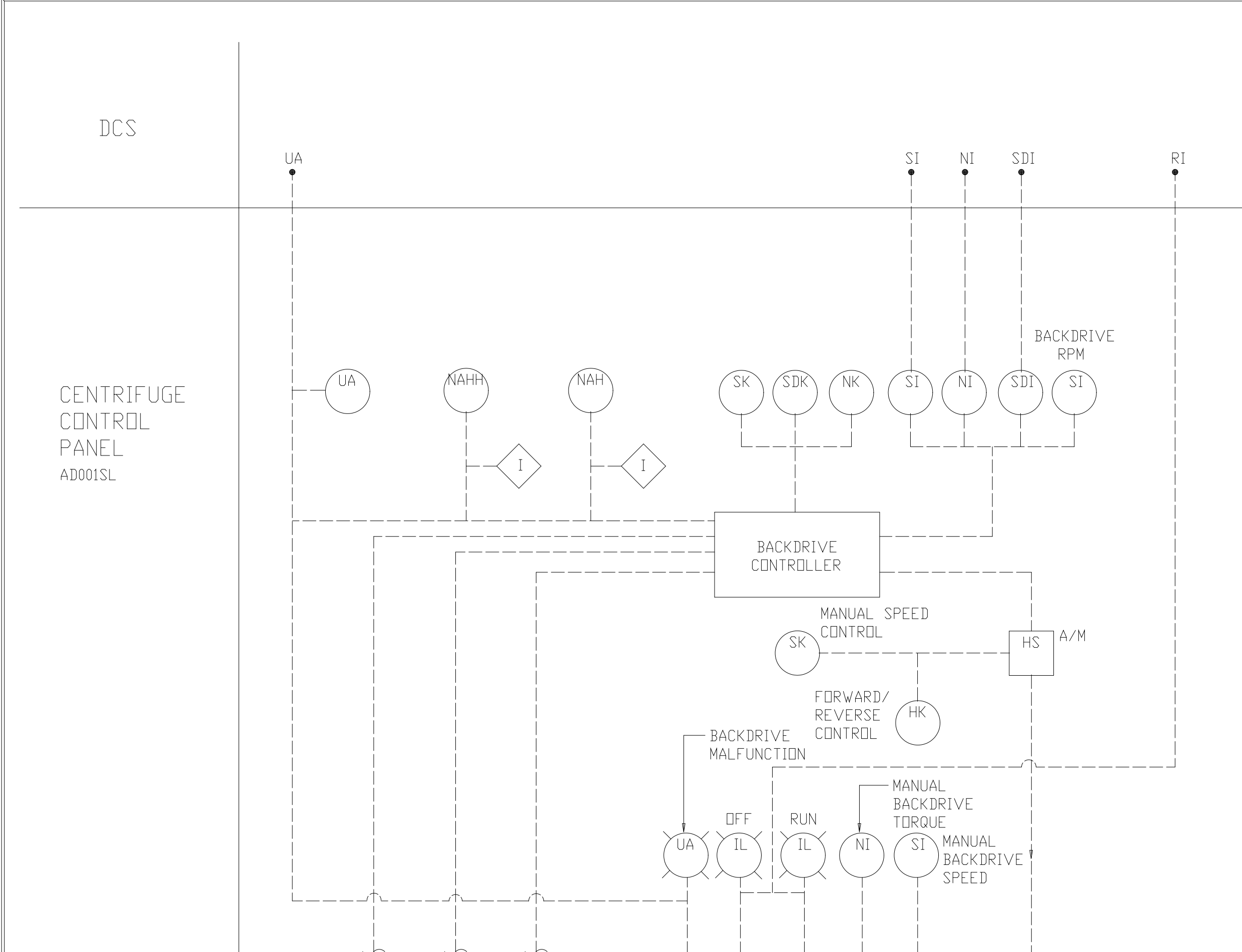
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION DIAGRAM
CENTRIFUGE - SYSTEM CONTROL

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER I-5
	SHEET 20 OF 199

RECORD DRAWING



- NOTES:
1. VALVE TYPES SHOWN GENERICALLY EXCEPT THOSE CONTROLLED BY INSTRUMENTATION.
 2. PART OF SUPPLY BY CENTRIFUGE MANUFACTURER.
 3. EQUIPMENT NUMBERS ARE FOR CENTRIFUGE NO. 1. FOR OTHER NUMBERS SEE FLOW SHEET.
 4. ALL EQUIPMENT, CONTROLS AND PANELS SHOWN ON THIS DRAWING SHALL BE SUPPLIED BY THE CENTRIFUGE MANUFACTURER.
 5. REFERENCE ANDRITZ O&M #3A-M-11710-001-G FOR CENTRIFUGE CONTROL AS-BUILTS.

PLOT DATE: 09/29/99 08:59 AM; FILE: \\N:\WORKING\Drawings\I-6.dwg; PLOT FILE: I-6.dwg

DESIGNED	RH/DBE
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	

COMMONWEALTH OF VIRGINIA
ROBERT S. DIFIORE
 22769
 PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA
DANIEL B. EDWARDS
 024960
 PROFESSIONAL ENGINEER

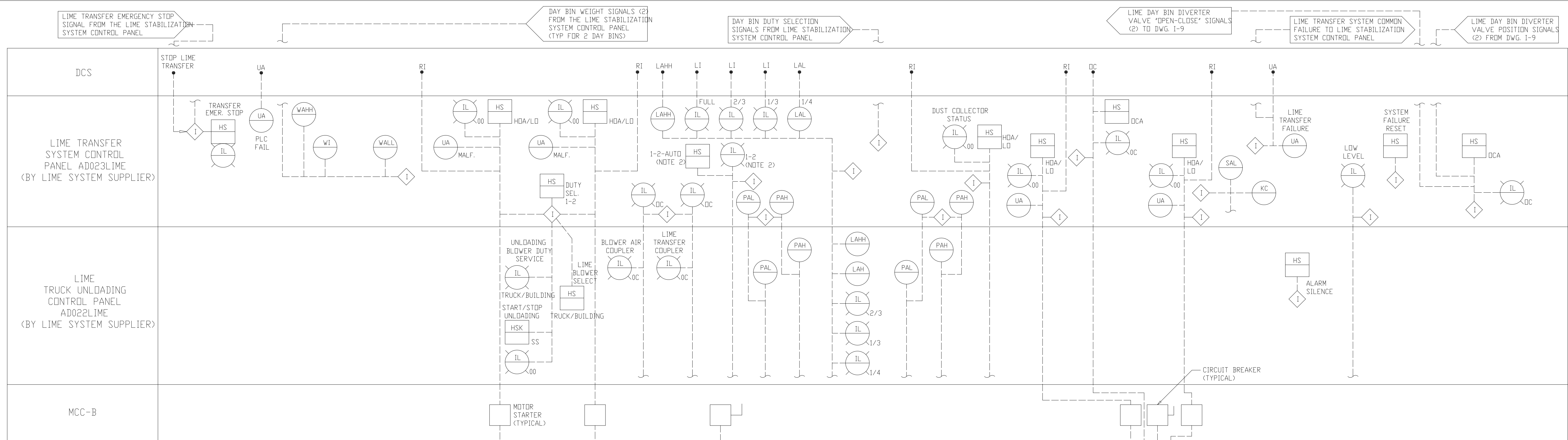
HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

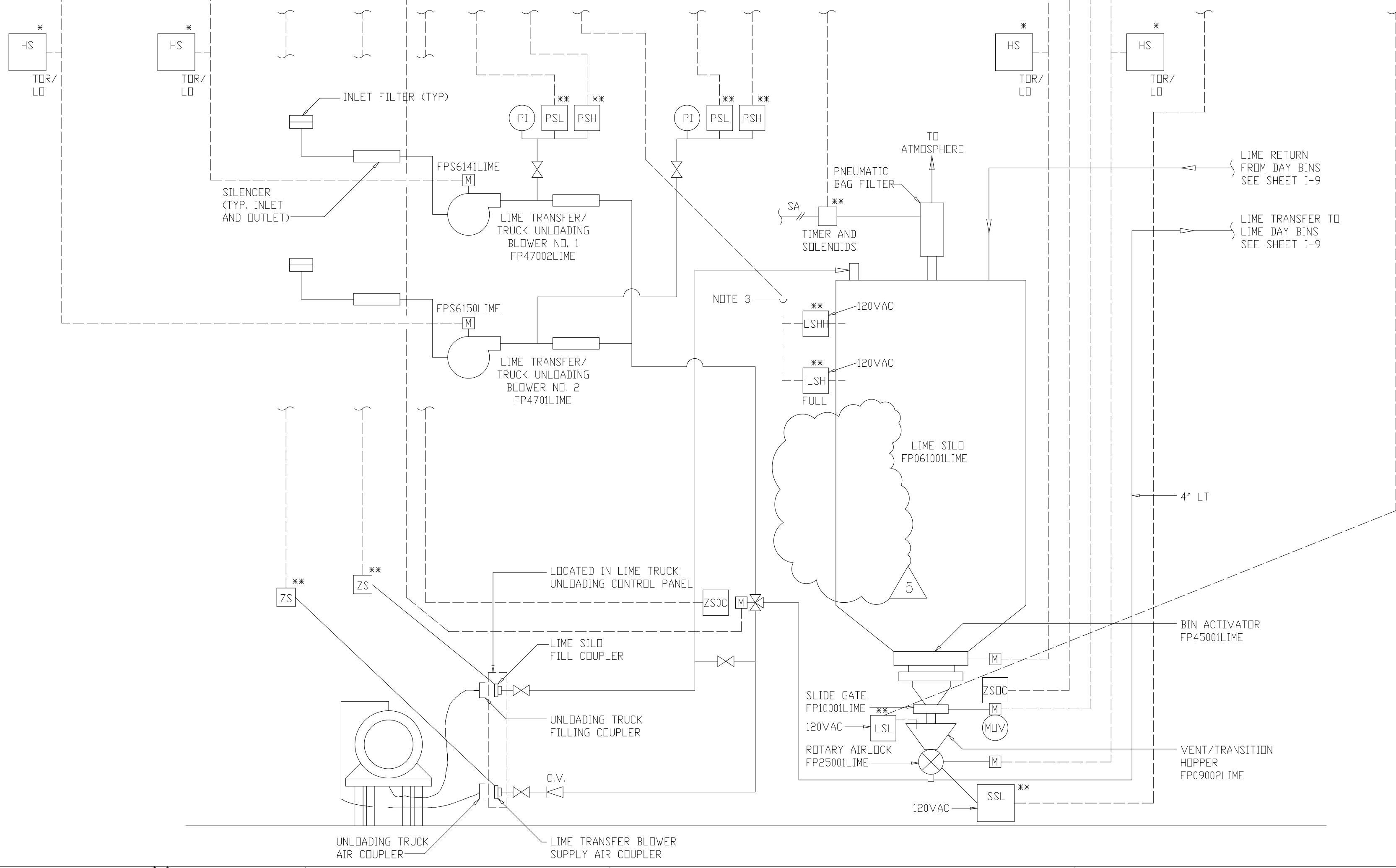
GENERAL
 PROCESS AND INSTRUMENTATION DIAGRAM
 CENTRIFUGE - ALTERNATIVE
 BACKDRIVE SYSTEM

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	I-6
	SHEET	21 OF 199

RECORD DRAWING

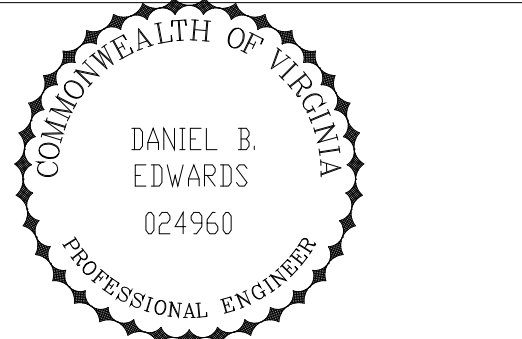
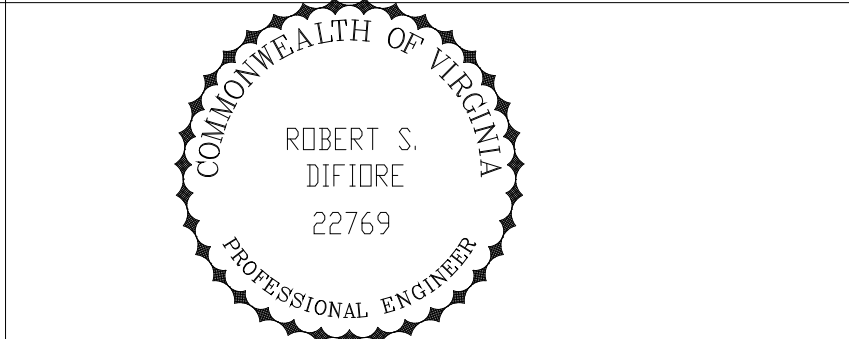


- NOTES:
- INTERLOCKS ARE DESCRIBED IN THE SPECIFICATIONS.
 - POSITION NO. 1 WILL BE LIME TRANSFER AND POSITION NO. 2 WILL BE TRUCK UNLOADING.
 - SINGLE LINE REPRESENTS FIVE SIGNALS RUNNING SEPARATELY TO CONTROL PANELS.
 - REFERENCE SYSTEMS EAST D&M #3A-M-13266-001-G FOR LIME TRANSFER AND TRUCK UNLOADING AS-BUILTS.



RECORD DRAWING

DESIGNED	TP/DBE
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	



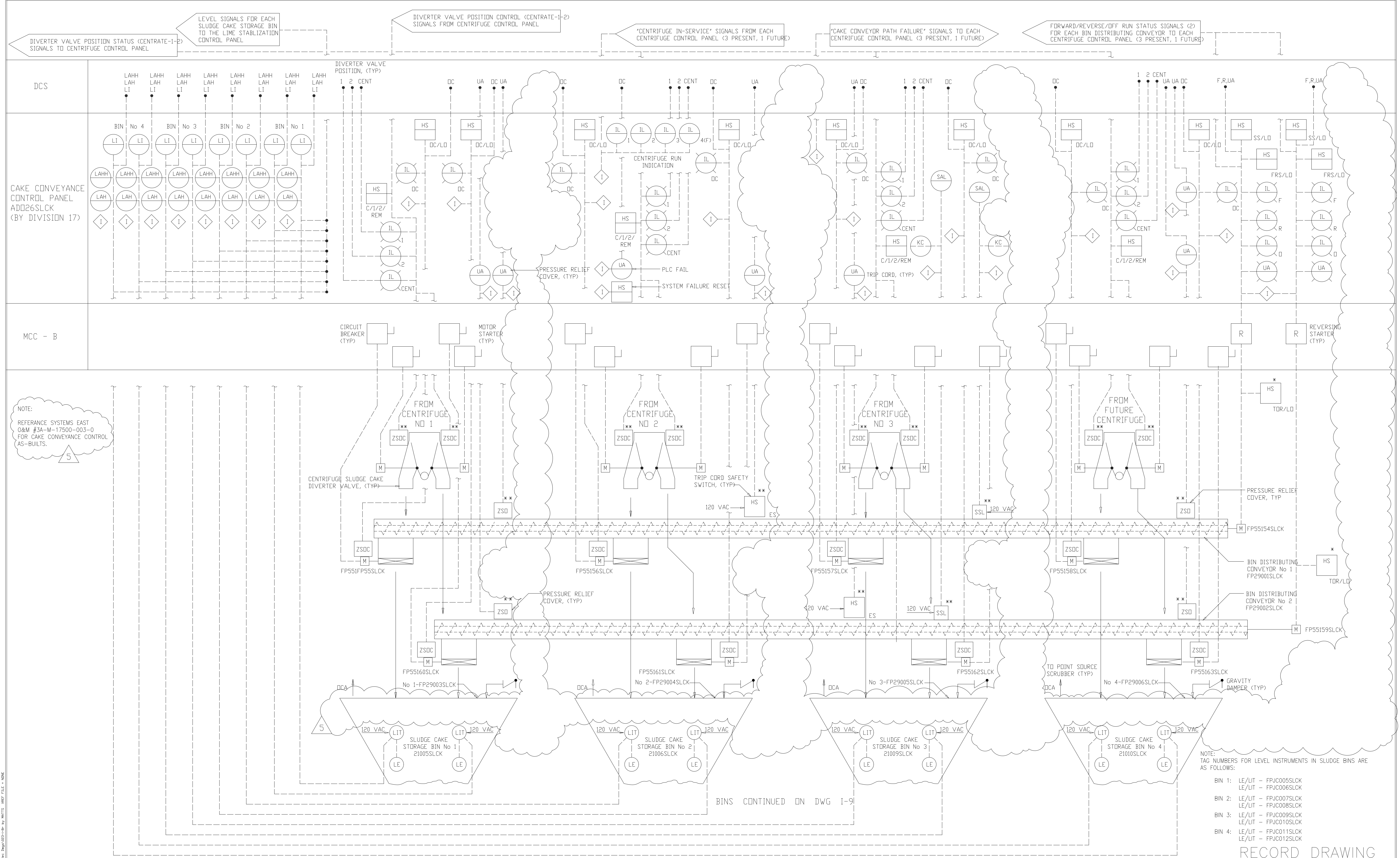
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION DIAGRAM
LIME STORAGE AND TRANSFER SYSTEM

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG IN THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	I-7
	SHEET	22 OF 199

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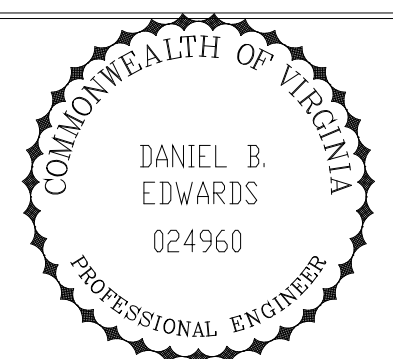
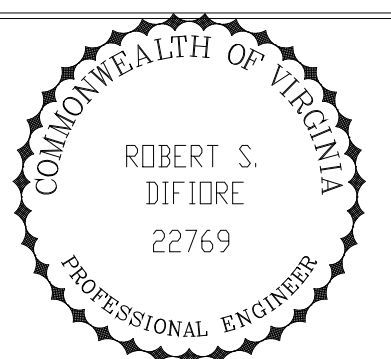
NOTE:
 REFERENCE SYSTEMS EAST
 O&M #3A-M-17500-003-0
 FOR CAKE CONVEYANCE CONTROL
 AS-BUILTS.

NOTE:
 TAG NUMBERS FOR LEVEL INSTRUMENTS IN SLUDGE BINS ARE
 AS FOLLOWS:

- BIN 1: LE/LIT - FPJC005SLCK
 LE/LIT - FPJC006SLCK
- BIN 2: LE/LIT - FPJC007SLCK
 LE/LIT - FPJC008SLCK
- BIN 3: LE/LIT - FPJC009SLCK
 LE/LIT - FPJC010SLCK
- BIN 4: LE/LIT - FPJC011SLCK
 LE/LIT - FPJC012SLCK

NO.	ISSUED FOR	DATE	BY
5	RECORD DRAWING	4-99	MKS
4	WP9 CONST.-LAND APP. REDES.	4-96	RSD
3	WP9 APPROVAL-LAND APP. REDES.	1-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB

DESIGNED	TP/DBE
DRAWN	WAM
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

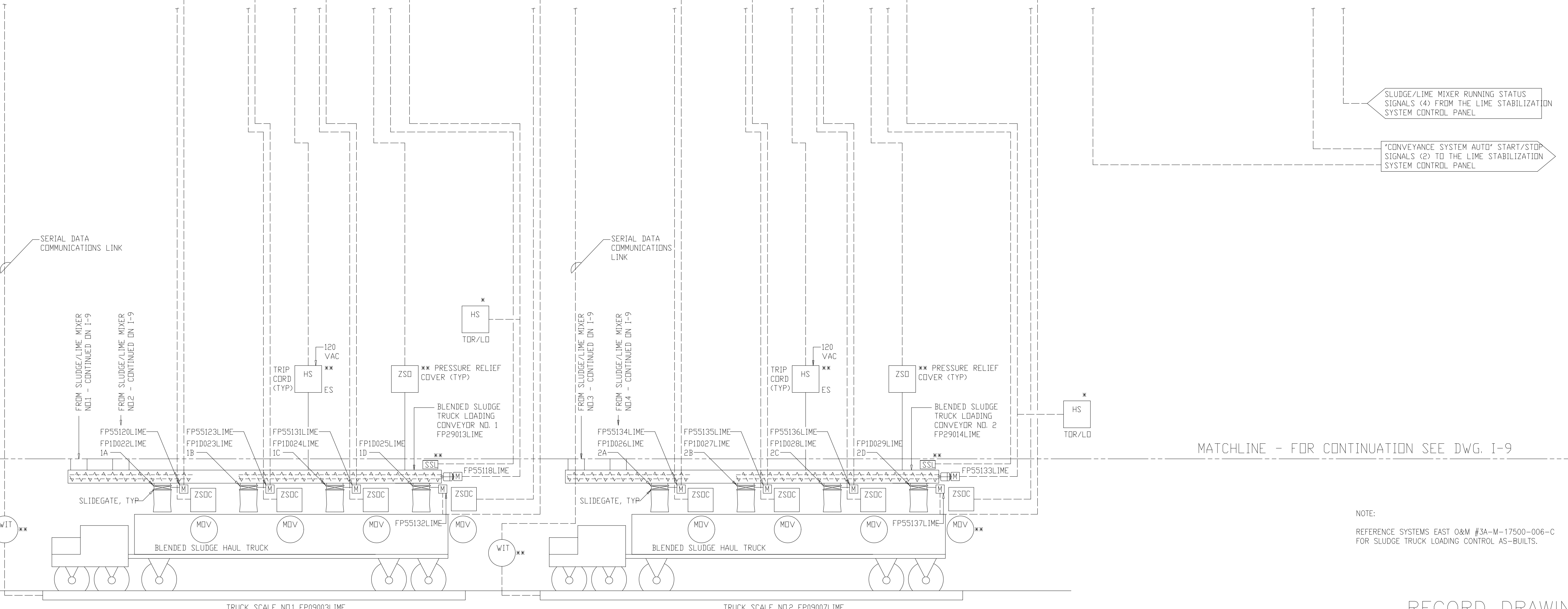
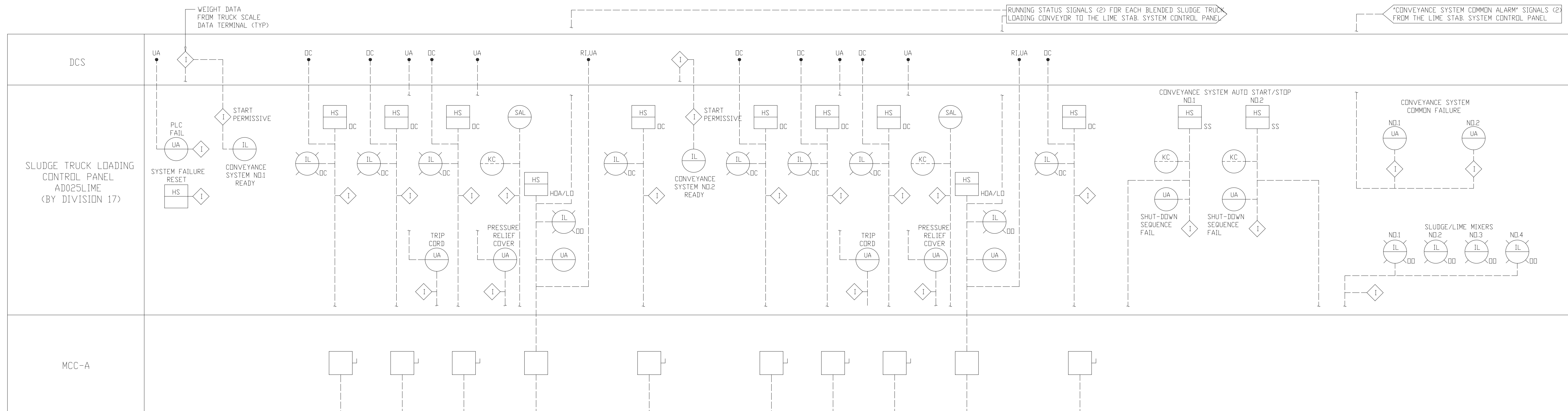


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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION DIAGRAM
 CAKE CONVEYANCE SYSTEM

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	I-8
	SHEET	23 OF 199



NOTE: TRUCK SCALE DATA TERMINALS ARE LOCATED ADJACENT TO SLUDGE TRUCK LOADING CONTROL PANEL.

NOTE: REFERENCE SYSTEMS EAST O&M #34-M-17500-006-C FOR SLUDGE TRUCK LOADING CONTROL AS-BUILTS.

MATCHLINE - FOR CONTINUATION SEE DWG. I-9

PLT: 04/12/2019 09:53 AM FILE: H:\ASB\DWG\24A-19A-1.dwg BY: MMTS. DWG FILE: R20E

DESIGNED	TP/DBE
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

ROBERT S. DIFIORE
22769
PROFESSIONAL ENGINEER

DANIEL B. EDWARDS
024960
PROFESSIONAL ENGINEER

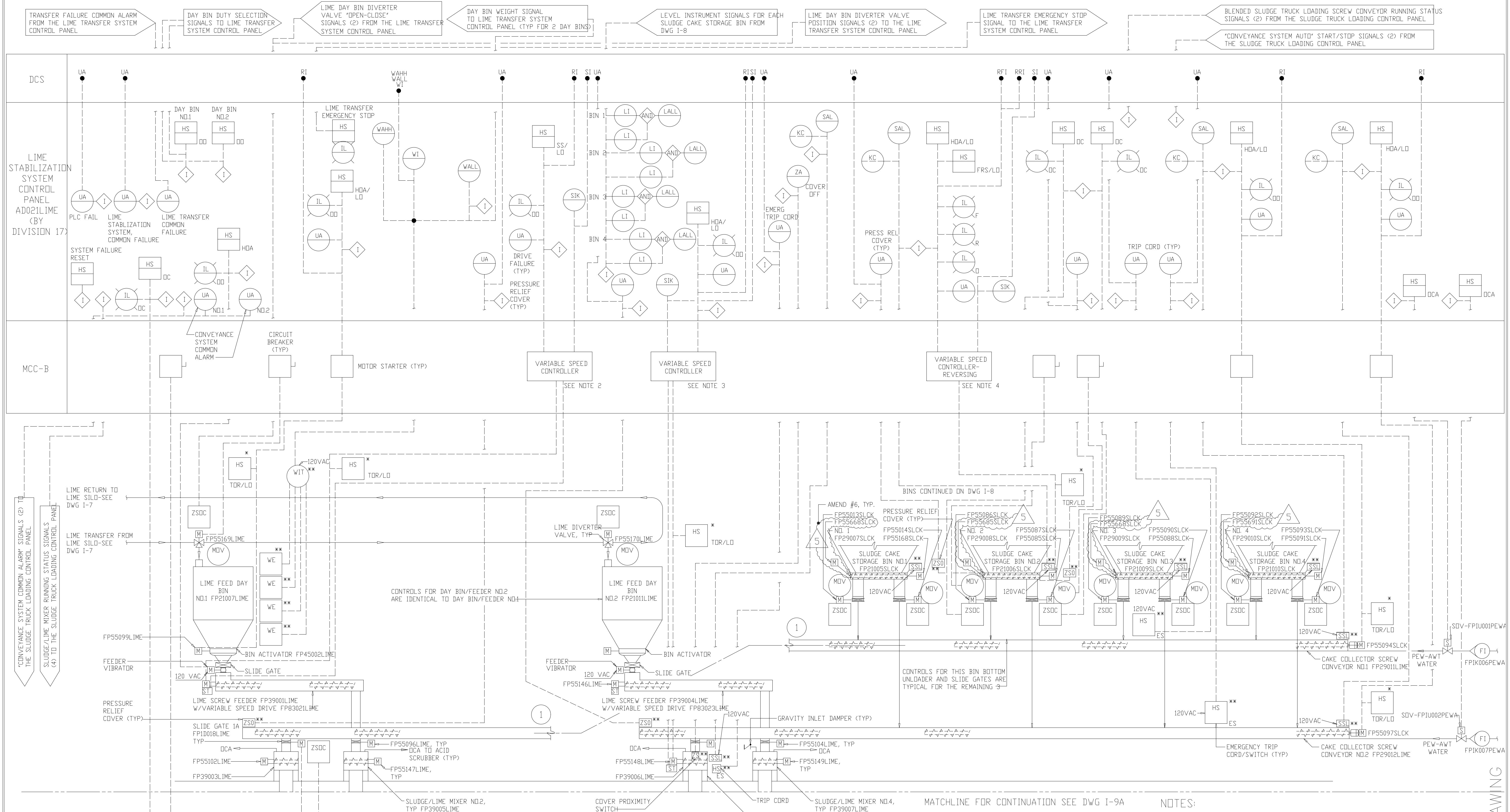
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION DIAGRAM
TRUCK LOADING

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	I-9A
	SHEET	24A OF 199

RECORD DRAWING

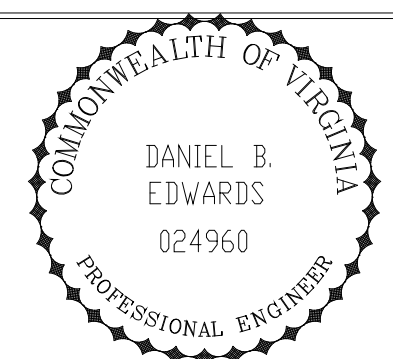
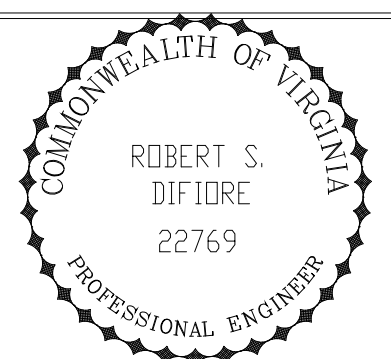


- NOTES:
- INTERLOCKS ARE DESCRIBED IN THE SPECIFICATIONS.
 - VARIABLE SPEED CONTROLLER TO BE FURNISHED BY THE LIME SYSTEM SUPPLIER AND INSTALLED IN THE MCC ROOM. SEE SPECIFICATIONS.
 - VARIABLE SPEED CONTROLLER TO BE FURNISHED BY THE SLUDGE/LIME MIXER SUPPLIER AND INSTALLED IN THE MCC ROOM. SEE SPECIFICATIONS.
 - VARIABLE SPEED CONTROLLER TO BE FURNISHED UNDER DIVISION 16, ELECTRICAL. SEE SPECIFICATIONS.
 - REFER TO PROCESS FLOW DIAGRAMS FOR COMPLETE INDICATION OF ALL EQUIPMENT IDENTIFICATION NUMBERS.
 - FOR DRAWING CLARITY, INSTRUMENTATION AND CONTROLS FOR SIMILAR EQUIPMENT ARE SHOWN FOR ONE PIECE OF EQUIPMENT AND NOTED AS BEING TYPICAL FOR REMAINDER.

7. REFERENCE SYSTEMS EAST O&M #3A-M-17500-002-B FOR LIME STABILIZATION CONTROL AS-BUILTS.

5	RECORD DRAWING	4-99	MKS
4	WP9 CONST.-LAND APP. REDES.	4-96	RSD
3	WP9 APPROVAL-LAND APP. REDES.	1-96	RSD
2	CONSTRUCTION	9-94	JUB
1	REGULATORY APPROVAL	9-94	JUB
NO.	ISSUED FOR	DATE	BY

DESIGNED TP/DBE
 DRAWN BRC
 CHECKED
 PROJ.ENGR. AB/RNC
 APPROVED



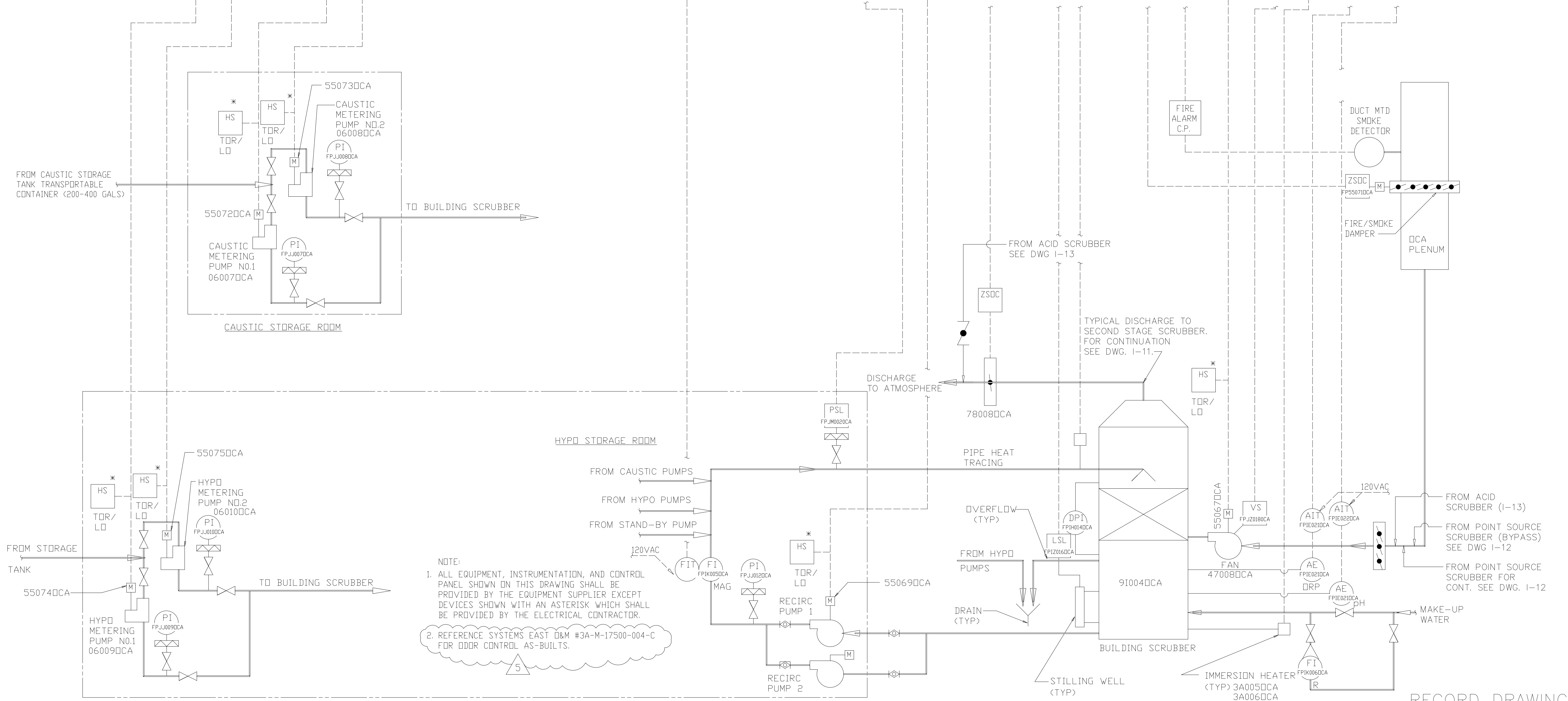
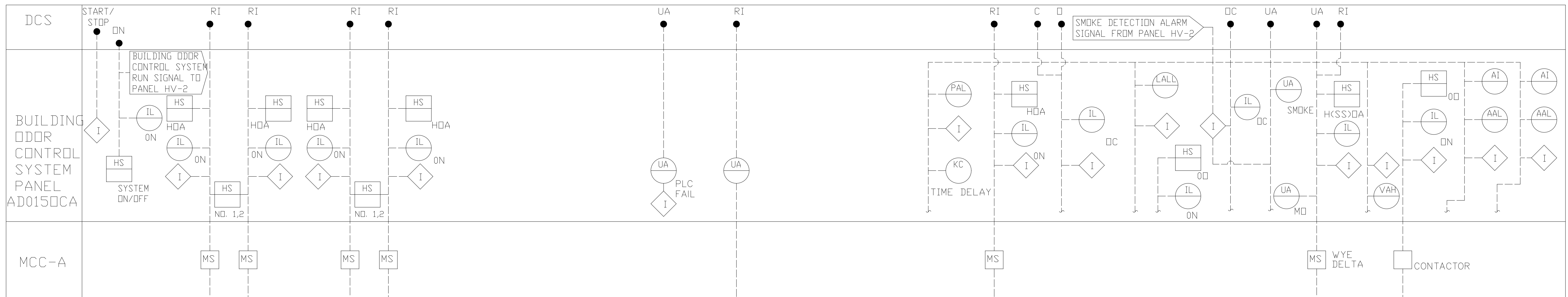
HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION DIAGRAM
 SLUDGE/LIME MIXING

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER I-9
	SHEET 24 OF 199

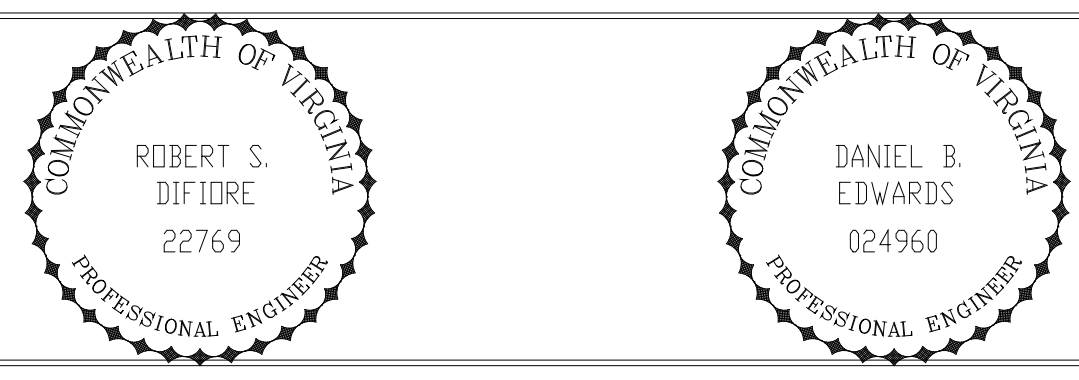
RECORD DRAWING



NOTE:
 1. ALL EQUIPMENT, INSTRUMENTATION, AND CONTROL PANEL SHOWN ON THIS DRAWING SHALL BE PROVIDED BY THE EQUIPMENT SUPPLIER EXCEPT DEVICES SHOWN WITH AN ASTERISK WHICH SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
 2. REFERENCE SYSTEMS EAST O&M #3A-M-17500-004-C FOR ODDR CONTROL AS-BUILTS.

RECORD DRAWING

DESIGNED	DBE/RH		
DRAWN	AMD		
CHECKED			
PROJ. ENGR.	DBE		
NO.	DATE	BY	APPROVED
4	9-99	MKS	
3	6-97	JMM	
2	9-94	JJB	
1	9-94	JJB	

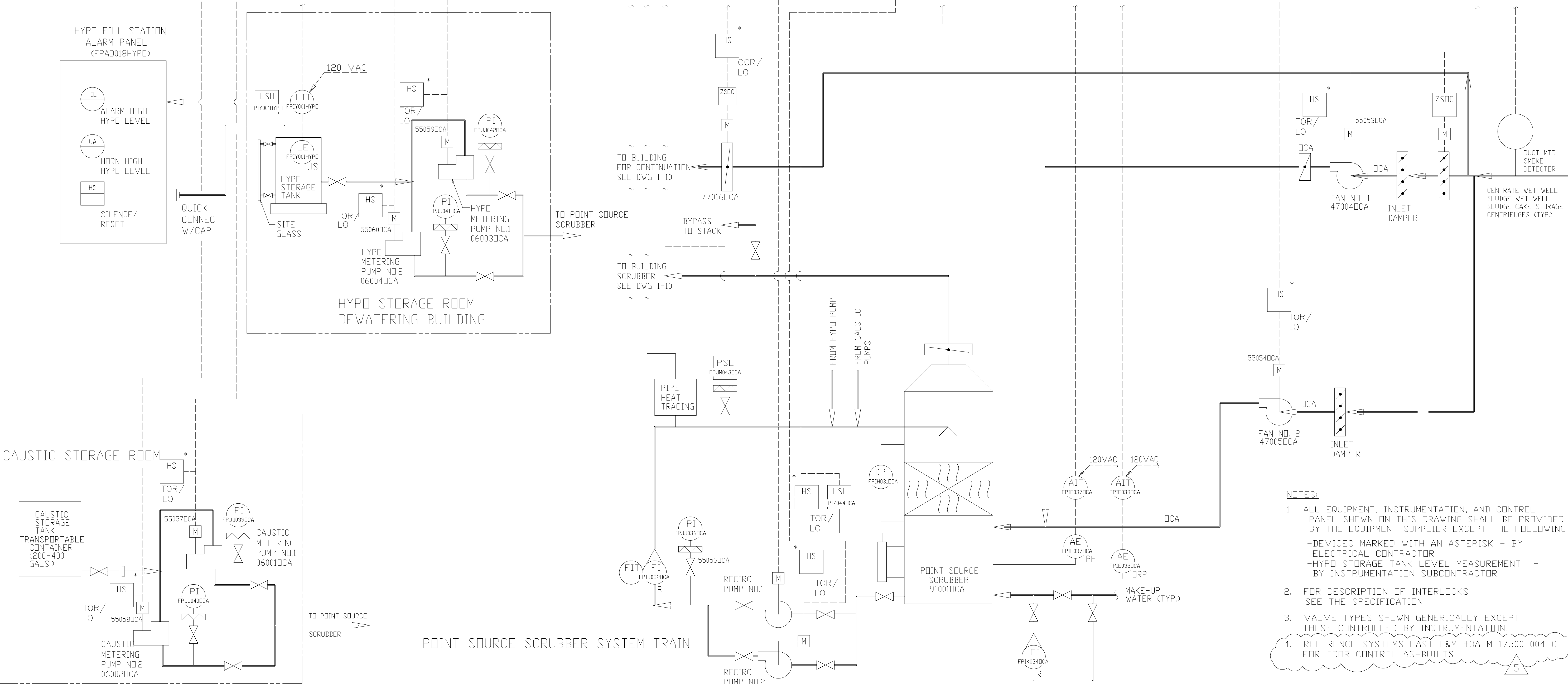
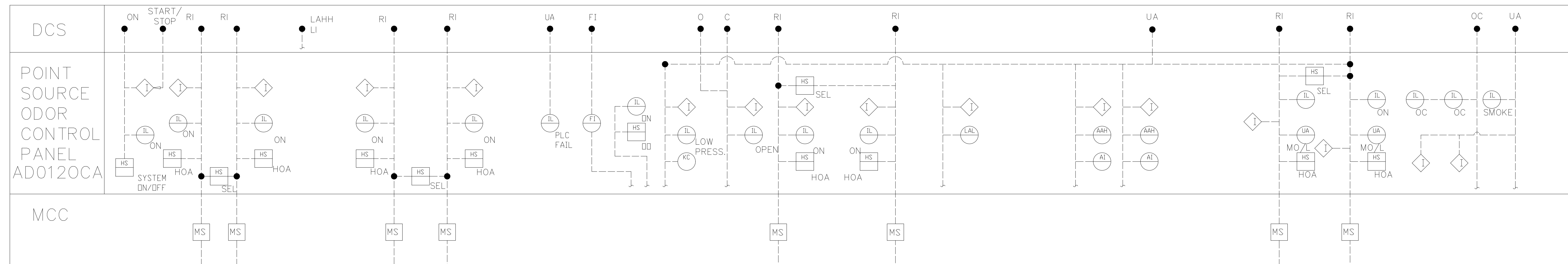


HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

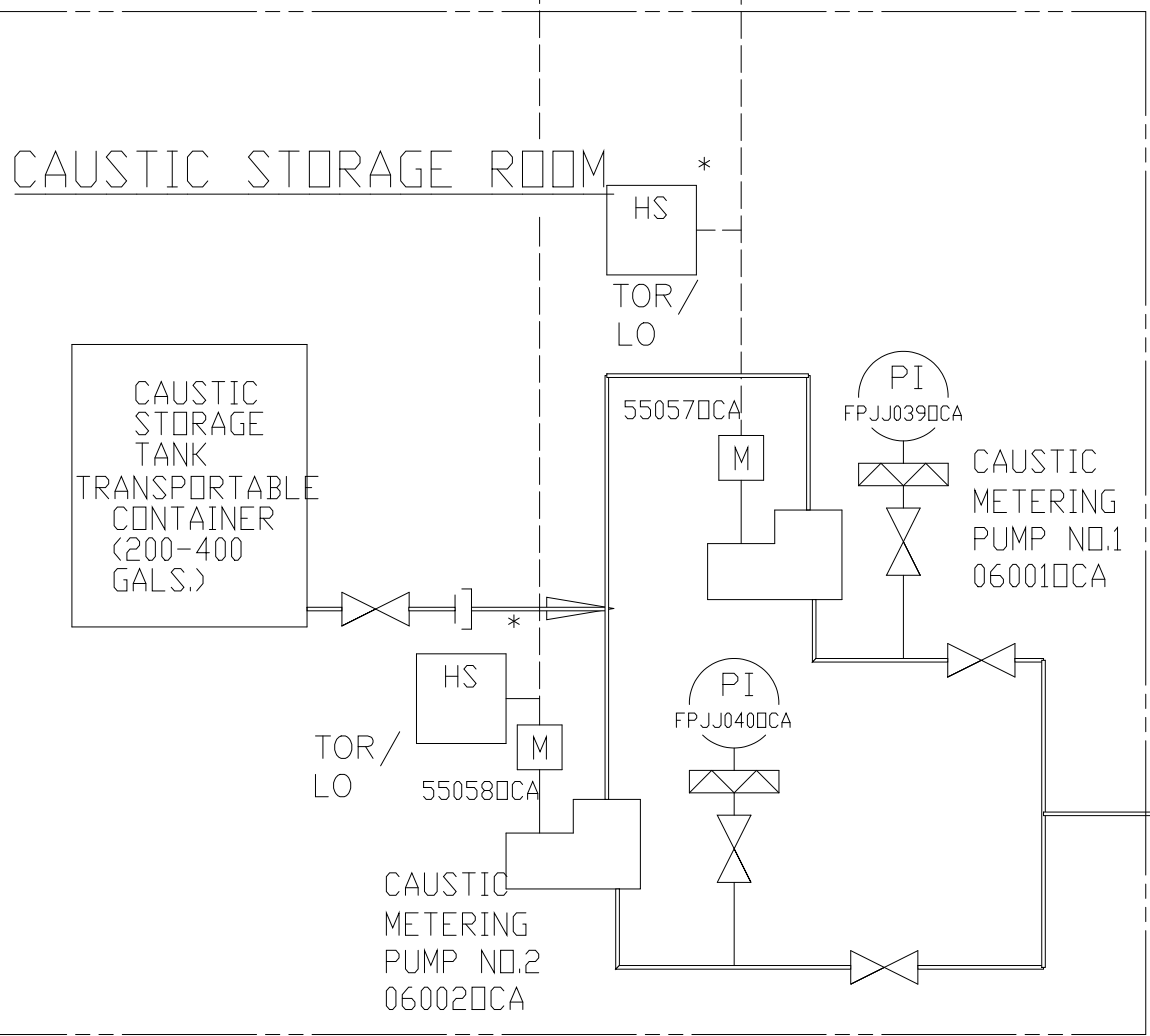
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION DIAGRAM
 BUILDING ODOR CONTROL SYSTEM
 SECOND STAGE SCRUBBER

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE NOV. 1996
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER I-10
	SHEET 25 OF 199



- NOTES:
1. ALL EQUIPMENT, INSTRUMENTATION, AND CONTROL PANEL SHOWN ON THIS DRAWING SHALL BE PROVIDED BY THE EQUIPMENT SUPPLIER EXCEPT THE FOLLOWING:
 -DEVICES MARKED WITH AN ASTERISK - BY ELECTRICAL CONTRACTOR
 -HYPO STORAGE TANK LEVEL MEASUREMENT - BY INSTRUMENTATION SUBCONTRACTOR
 2. FOR DESCRIPTION OF INTERLOCKS SEE THE SPECIFICATION.
 3. VALVE TYPES SHOWN GENERICALLY EXCEPT THOSE CONTROLLED BY INSTRUMENTATION.
 4. REFERENCE SYSTEMS EAST O&M #3A-M-17500-004-C FOR DDC CONTROL AS-BUILTS.



NO.	ISSUED FOR	DATE	BY	APPROVED
4	RECORD DRAWING	9-99	MKS	
3	PH IIIA REDSIGN ARTH. NO.7	6-97	JMM	
2	CONSTRUCTION			
1	REGULATORY APPROVAL			

DESIGNED: DBE/RH		
DRAWN: AMD		
CHECKED:		
PROJ. ENGR.: DBE		

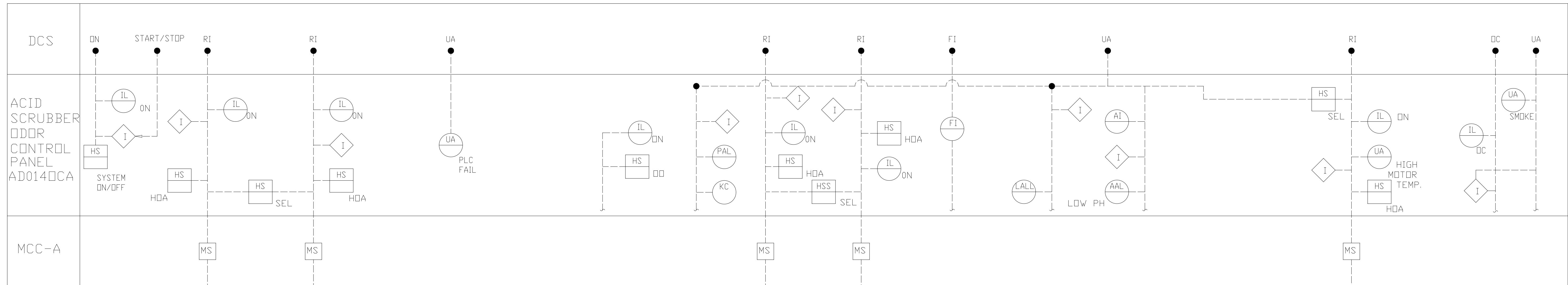
HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION DIAGRAM
 POINT SOURCE
 ODOR CONTROL

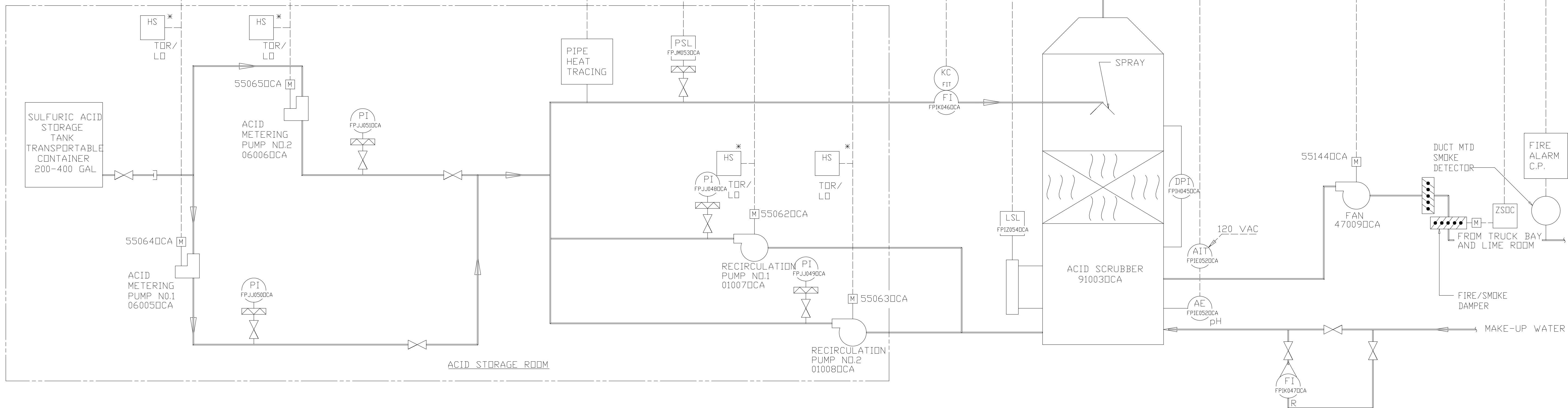
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE NOV. 1996
H & S JOB NUMBER 2843	DRAWING NUMBER I-11
CONTRACT NUMBER 93-02-WPC	SHEET 26 OF 199

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NOTES:

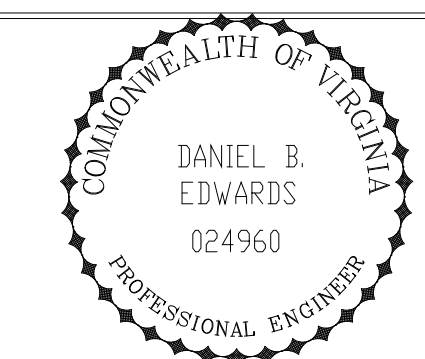
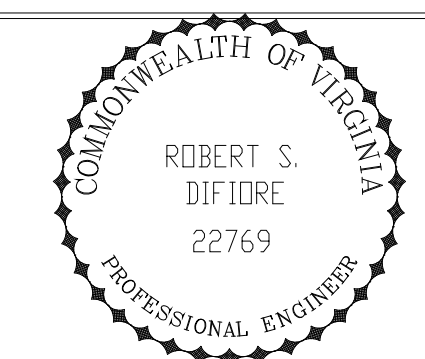
1. ALL EQUIPMENT, INSTRUMENTATION, AND CONTROL PANEL SHOWN ON THIS DRAWING SHALL BE PROVIDED BY THE EQUIPMENT SUPPLIER.
2. FOR DESCRIPTION OF INTERLOCKS SEE THE SPECIFICATION.
3. REFERENCE SYSTEMS EAST O&M #3A-M-17500-004-C FOR ODDOR CONTROL AS-BUILTS.



RECORD DRAWING

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DESIGNED	DBE/RH
DRAWN	AMD
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PROJ. ENGR.	DBE
NO.	ISSUED FOR
	DATE
	BY
	APPROVED

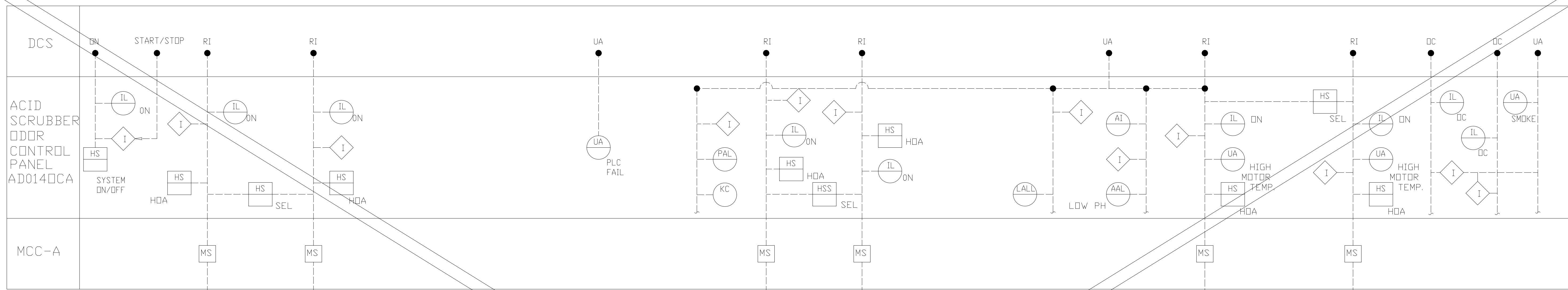


HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

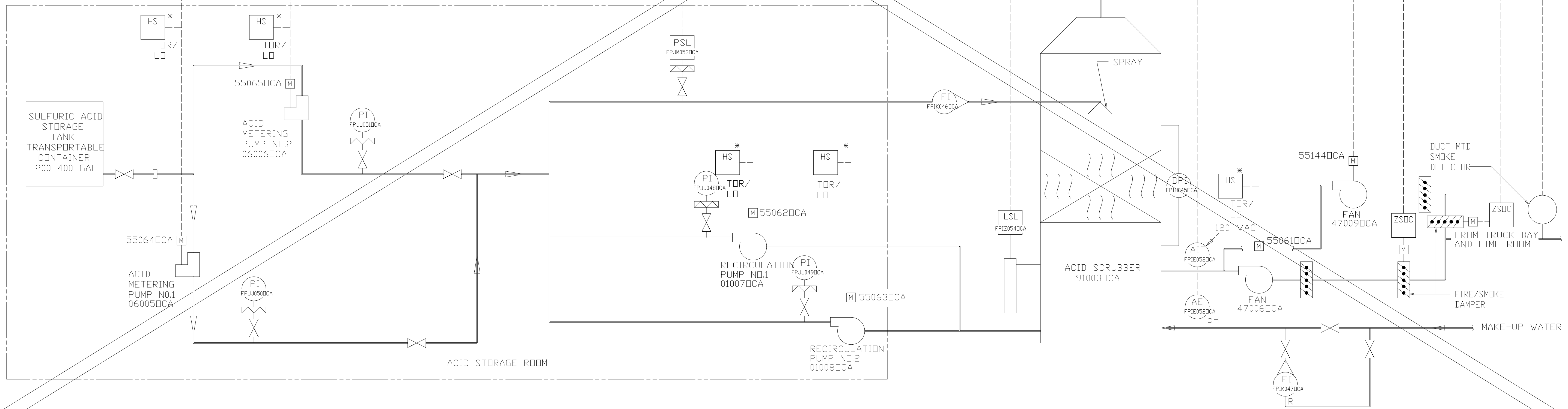
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION DIAGRAM
 ACID SCRUBBER SYSTEM

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE NOV. 1996
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER I-12
	SHEET 27 OF 199

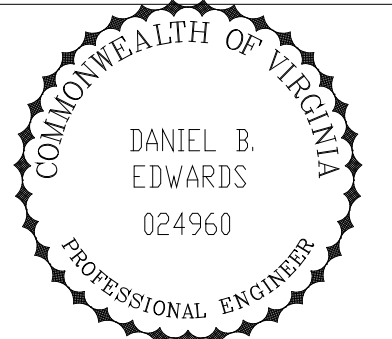
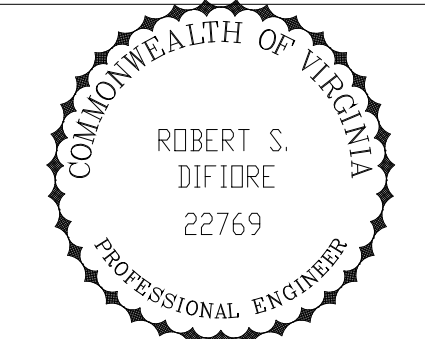


- NOTES:**
1. ALL EQUIPMENT, INSTRUMENTATION, AND CONTROL PANEL SHOWN ON THIS DRAWING SHALL BE PROVIDED BY THE EQUIPMENT SUPPLIER.
 2. FOR DESCRIPTION OF INTERLOCKS SEE THE SPECIFICATION.
 3. VALVES TYPES SHOWN GENERICALLY EXCEPT THOSE CONTROLLED BY INSTRUMENTATION.



RECORD DRAWING

DESIGNED	RH/DBE
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



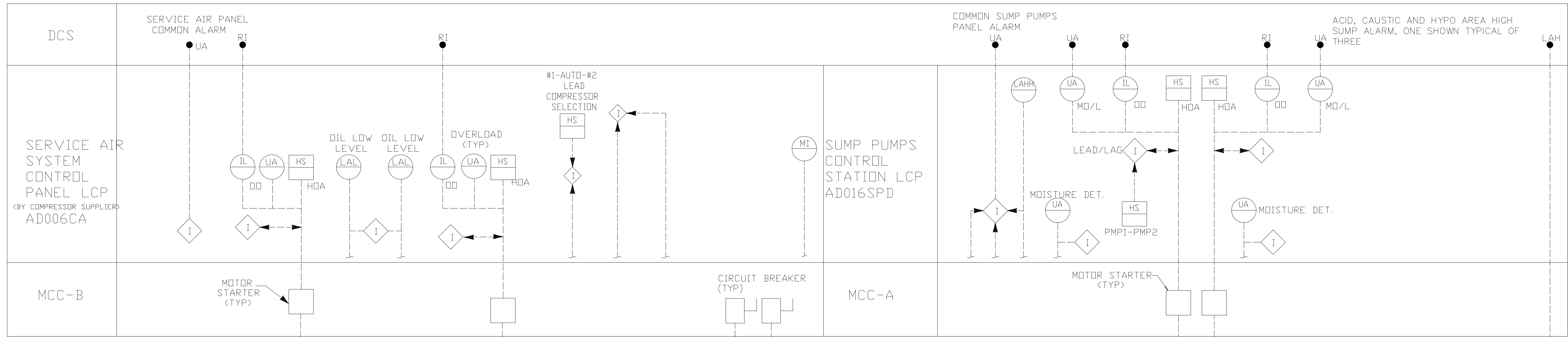
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION DIAGRAM
ACID SCRUBBER SYSTEM

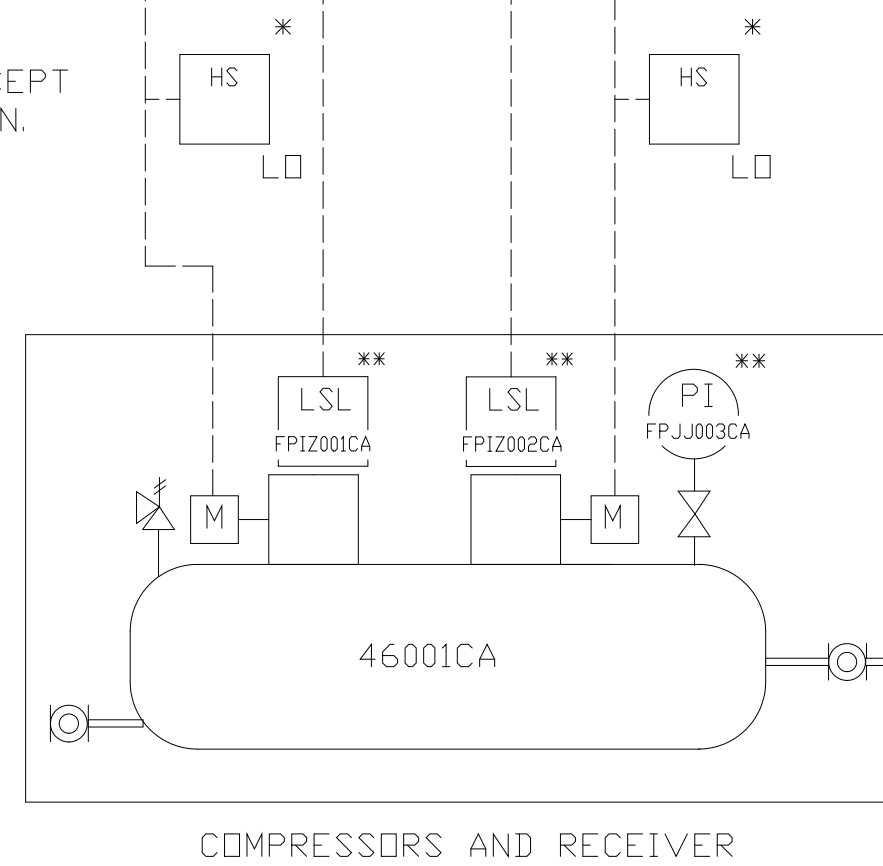
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	I-13
	SHEET	28 OF 199

PLOT DATE: 09/24/94 09:55AM FILE: H:\ENGINEERING\PROJECTS\113P\113P.DWG BY: MATEL

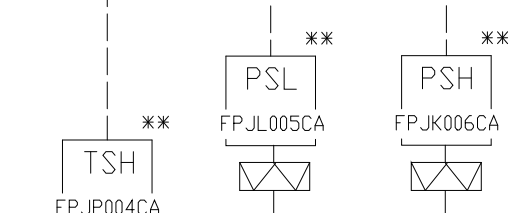


NOTES:

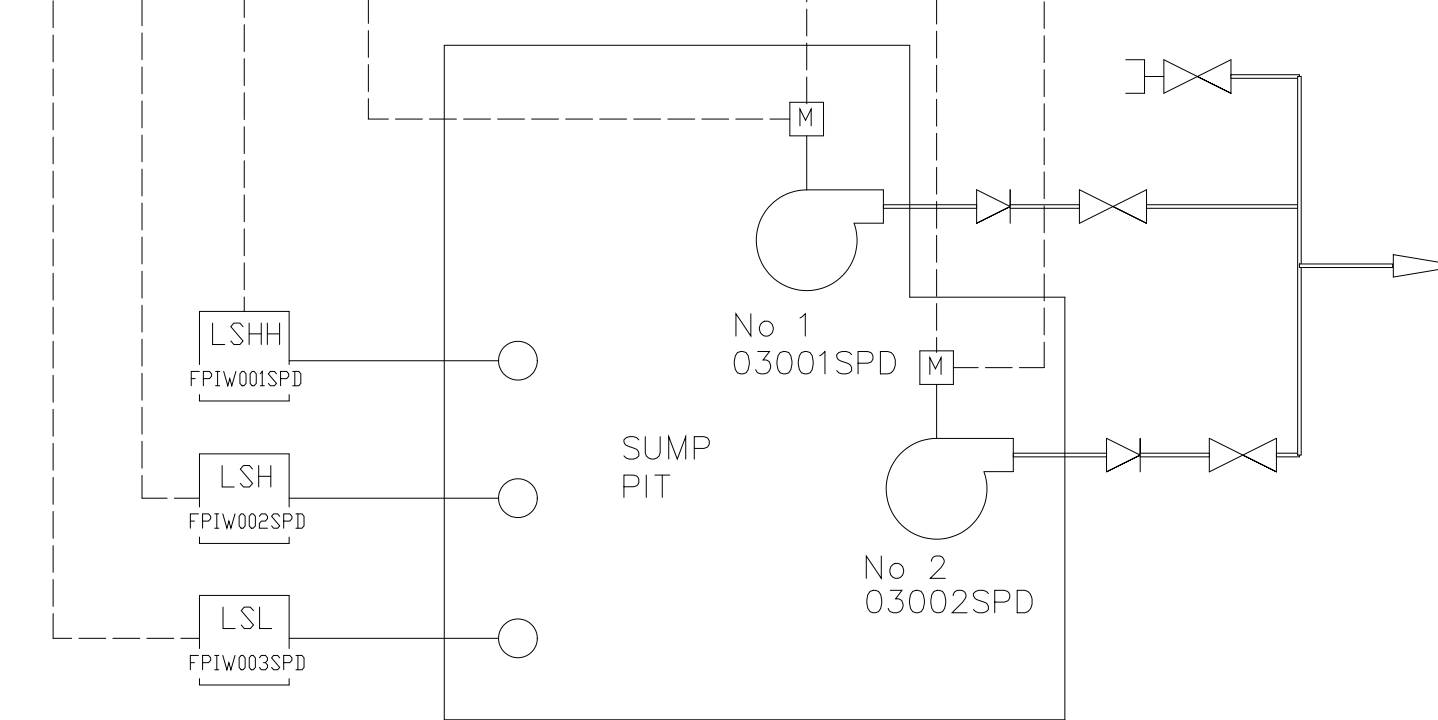
1. INSTRUMENT TAG NUMBER WILL HAVE A PREFIX-EQUIPMENT ID. NO. THAT INSTRUMENT ARE RELATED TO (UNLESS OTHERWISE NOTED).
2. FOR DESCRIPTION OF INTERLOCKS SEE THE SPECIFICATION.
3. VALVE TYPES SHOWN GENERICALLY EXCEPT THOSE CONTROLLED BY INSTRUMENTATION.
4. REFERENCE SYSTEMS EAST O&M #3M-A-13220-002-B FOR SERVICE AIR CONTROL AS-BUILTS.



COMPRESSOR ROOM

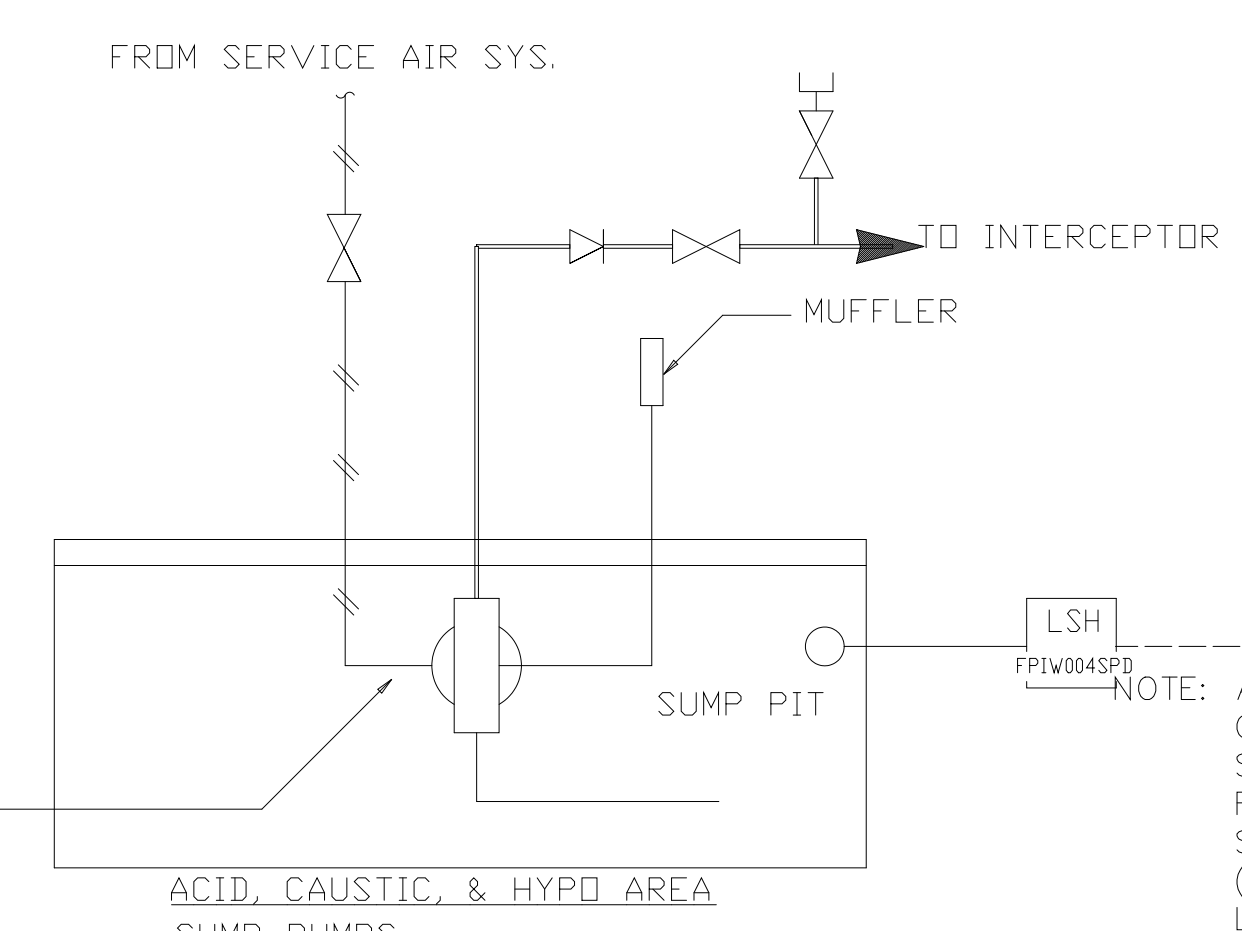


TO SERVICE AIR DISTRIBUTION



POLYMER ROOM & SLUDGE FEED ROOM SUMP PUMP SETS

NOTE: POLYMER SUMP SYSTEM SHOWN. SLUDGE FEED ROOM PUMP SYSTEM IDENTICAL, SEE FLOW SHEET FOR EQUIPMENT NUMBERS. FLOAT SWITCH TAG NUMBERS ARE: LSHH-FPIW005SPD, LSH-FPIW006SPD, LSL-FPIW007SPD.



LOCATION	PUMP IDENTIFICATION NUMBER
ACID	03005SPD
CAUSTIC	03007SPD
HYPO	03008SPD

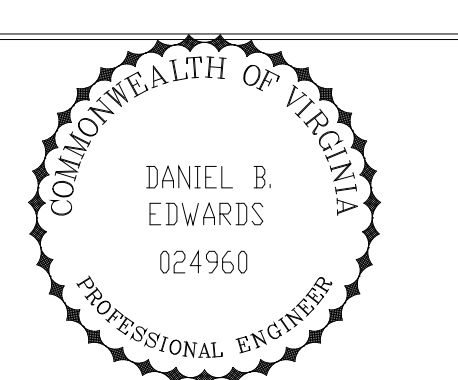
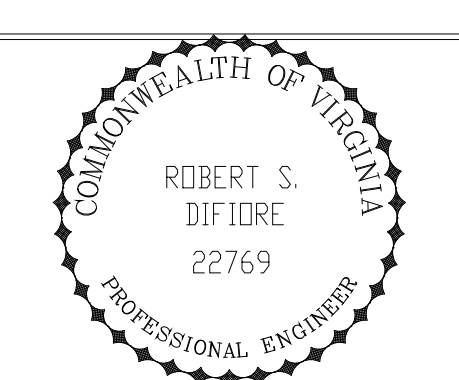
AIR OPERATED DIAPHRAGM PUMP

ACID, CAUSTIC, & HYPO AREA SUMP PUMPS

NOTE: ACID SUMP AREA IS SHOWN. CAUSTIC AND HYPO AREA SUMP PUMPS ARE IDENTICAL. FLOAT SWITCH TAG NUMBER SHALL BE LSH-FPIW008SPD (CAUSTIC AREA) AND LSH-FPIW009SPD (HYPO AREA).

PLOT DATE: 07/19/99 4:00pm FILE: \\ns0401\eng\mgs\0311\cpl\watts\asst\file - NOTE

DESIGNED	RH/DBE
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



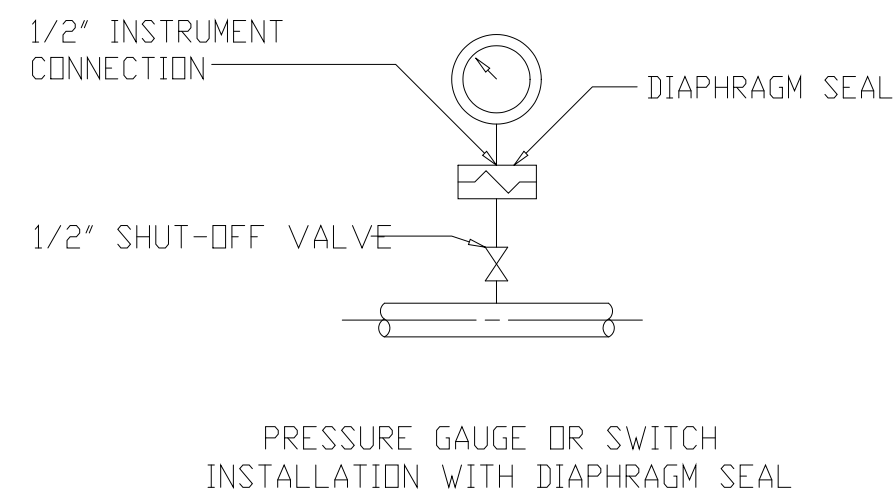
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

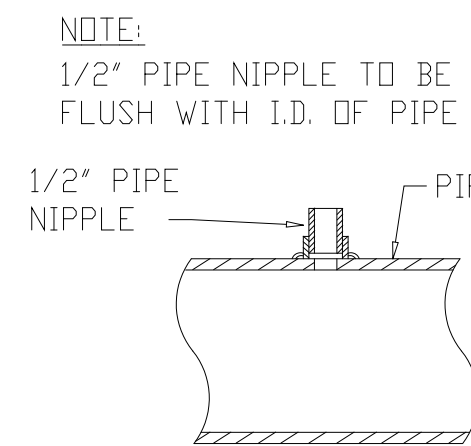
GENERAL
PROCESS AND INSTRUMENTATION DIAGRAM
SERVICE AIR AND SUMP PUMPS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	I-14
	SHEET	29 OF 199

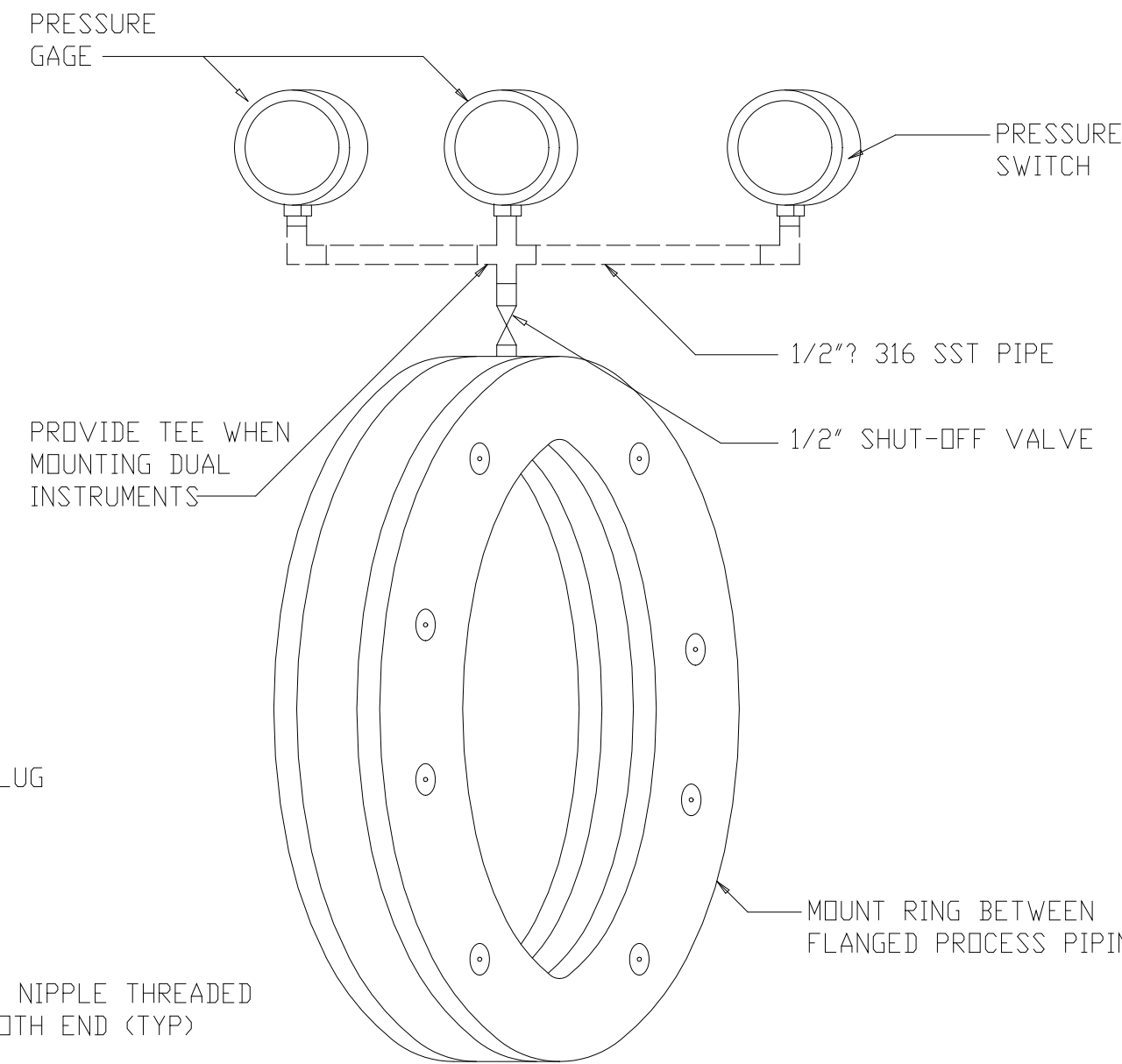
RECORD DRAWING



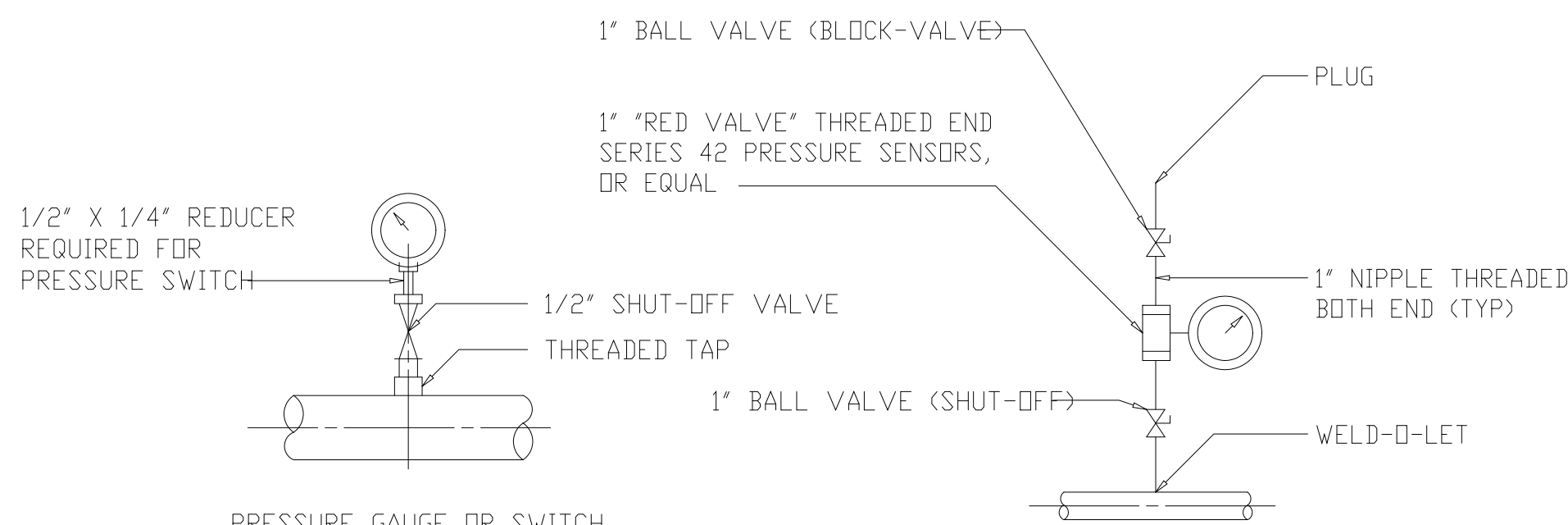
DETAIL 1
NTS STD



DETAIL 2
NOT TO SCALE STD

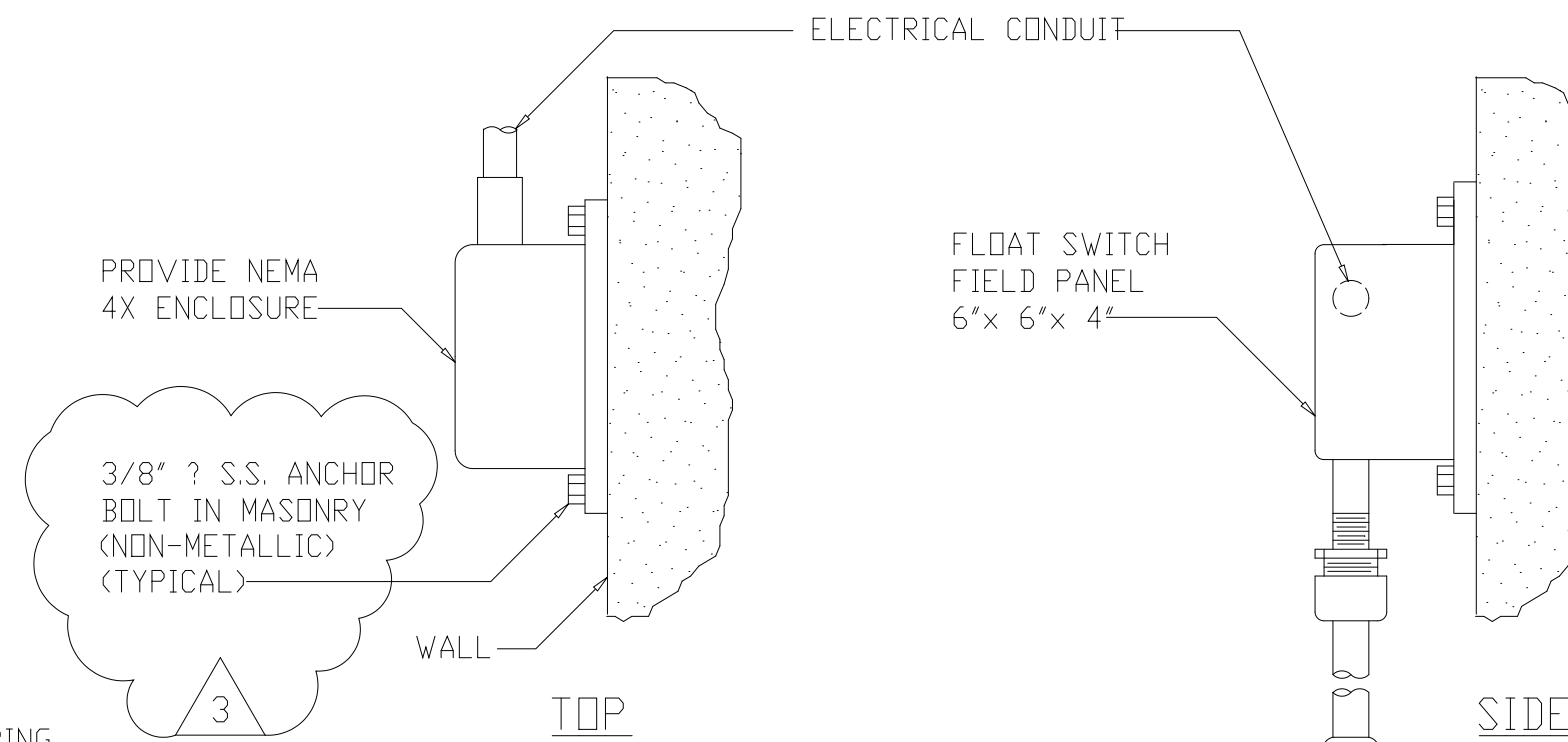


IN-LINE ISOLATING RING DETAIL FOR HEAVY SOLIDS/SLURRY SERVICE
DETAIL 7
NTS STD

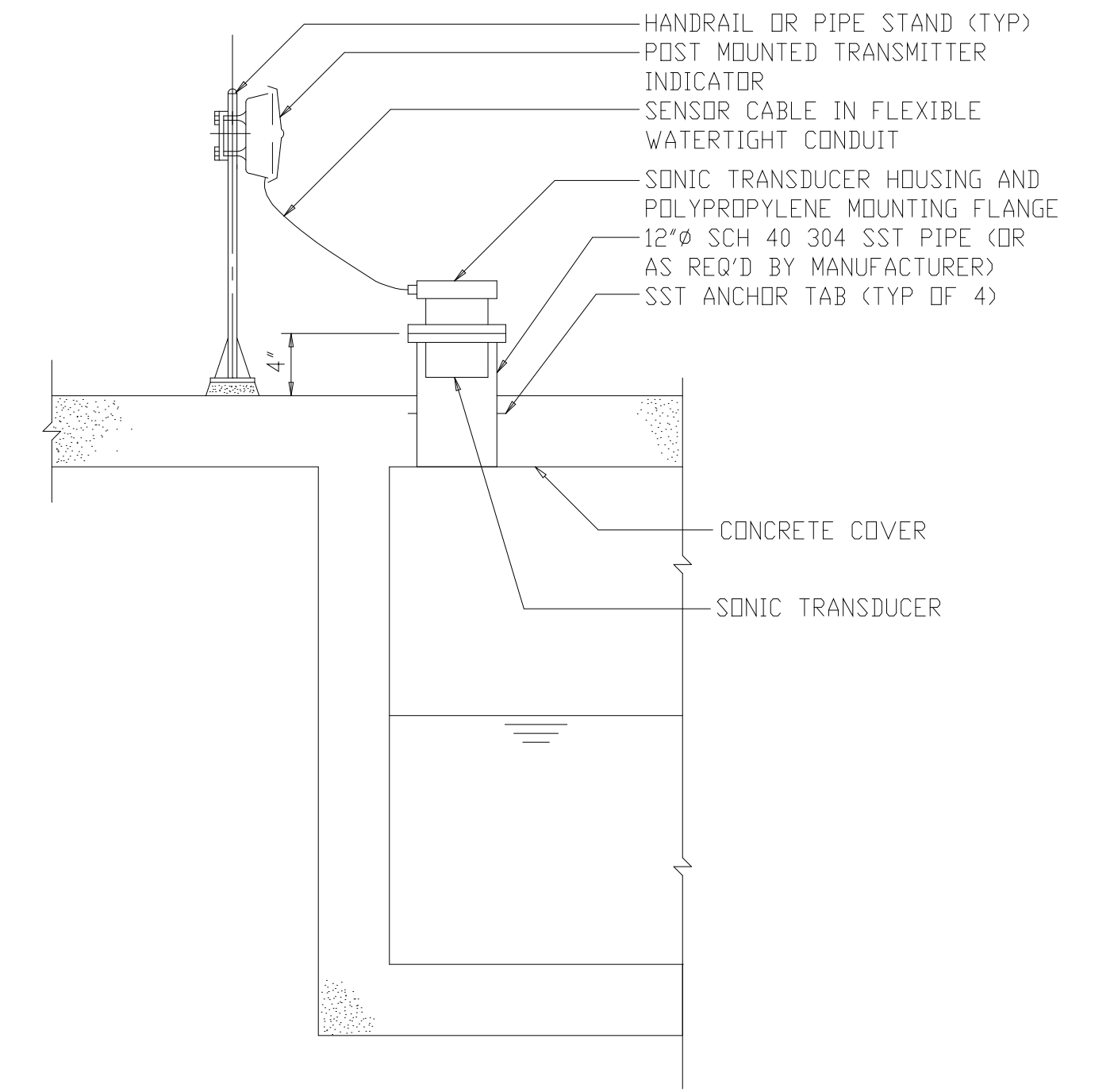


PRESSURE GAUGE OR SWITCH INSTALLATION WITH THREADED CAP (SHOWN WITHOUT DIAPHRAGM SEAL) USED FOR PIPES 2" AND LARGER
DETAIL 3
NOT TO SCALE STD

PRESSURE GAUGES INSTALLATION DETAIL WITH DIAPHRAGM SEAL USED FOR PIPE SIZE 8" AND 10" (SLUDGE TRANSFER PUMPS DISCHARGE & SUCTION LINE)
DETAIL 4
NTS STD



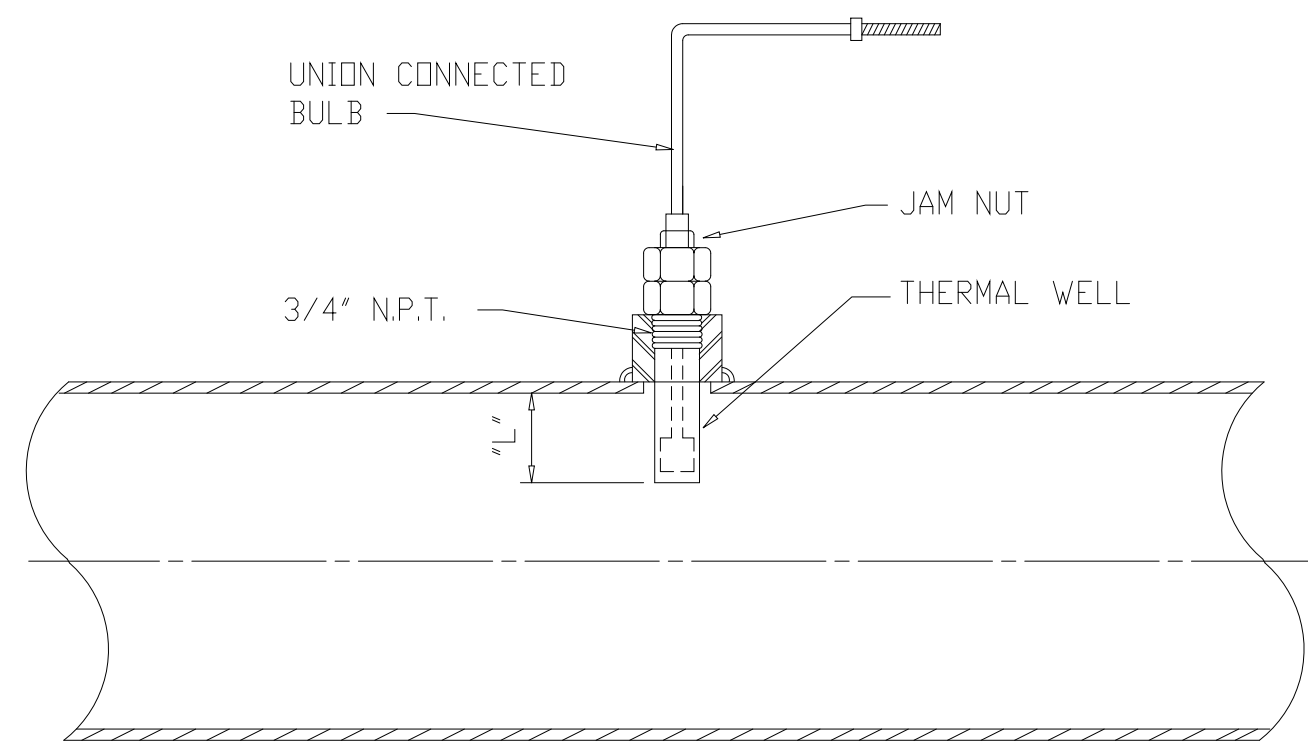
WALL MOUNTED FLOAT SWITCH DETAIL
DETAIL 8
NTS STD



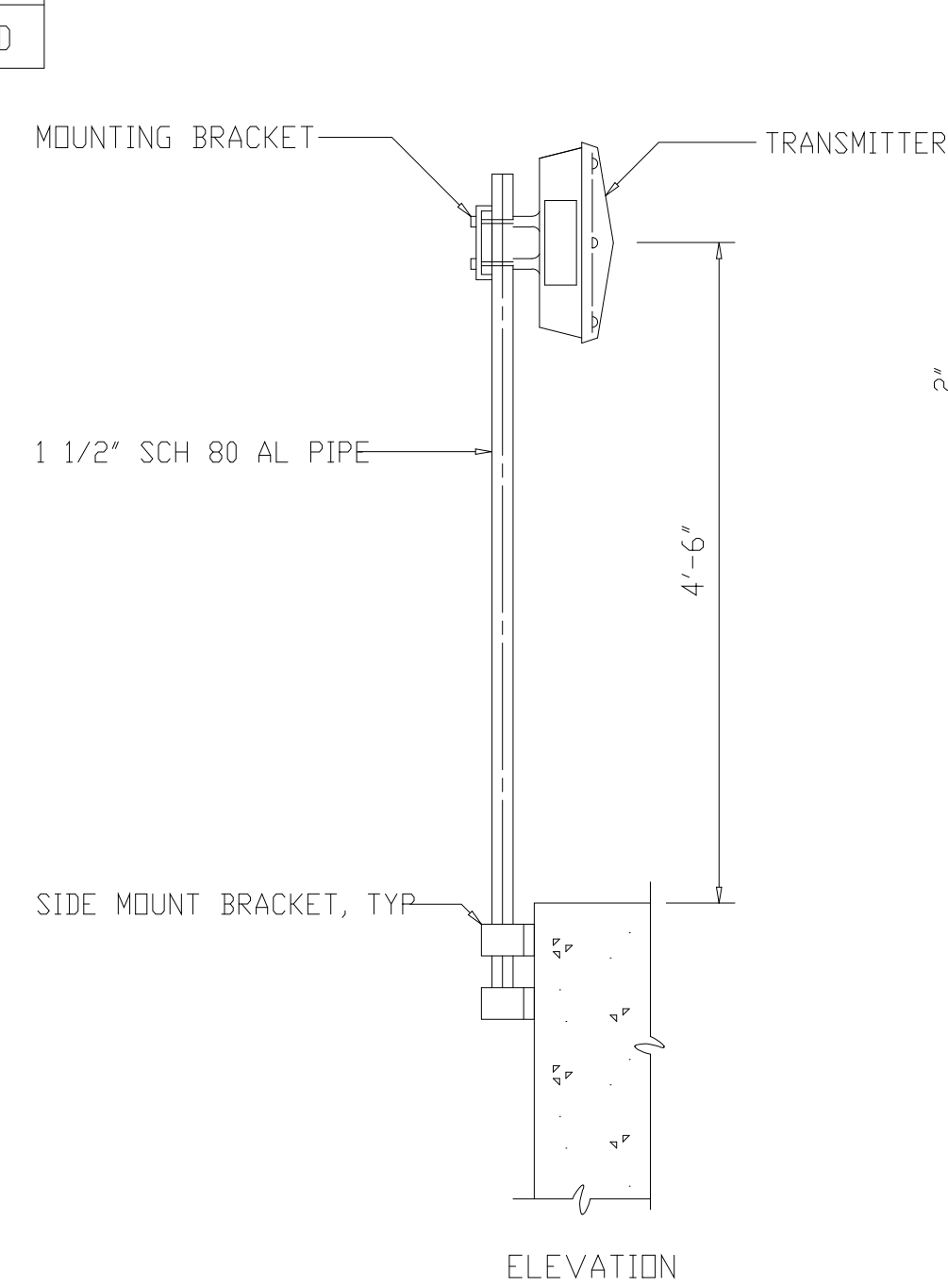
ULTRASONIC LEVEL SENSOR DETAIL
DETAIL 5
NTS STD

NOTES

1. FLOW AND PRESSURE TRANSMITTERS SHOWN WITHOUT INDICATORS TO SIMPLIFY DRAWING. EACH UNIT SHALL BE FURNISHED WITH INDICATORS AS SPECIFIED.
2. INSERTION LENGTH "L" SHALL BE AS FOLLOWS: FOR PIPES UP TO 12 INCHES "L" SHALL EQUAL 1/3 THE DIAMETER OF THE PIPE. FOR LARGER PIPES AND VESSELS, "L" SHALL BE SIZED SO THAT IT EXTENDS 4 INCHES INTO THE PROCESS.

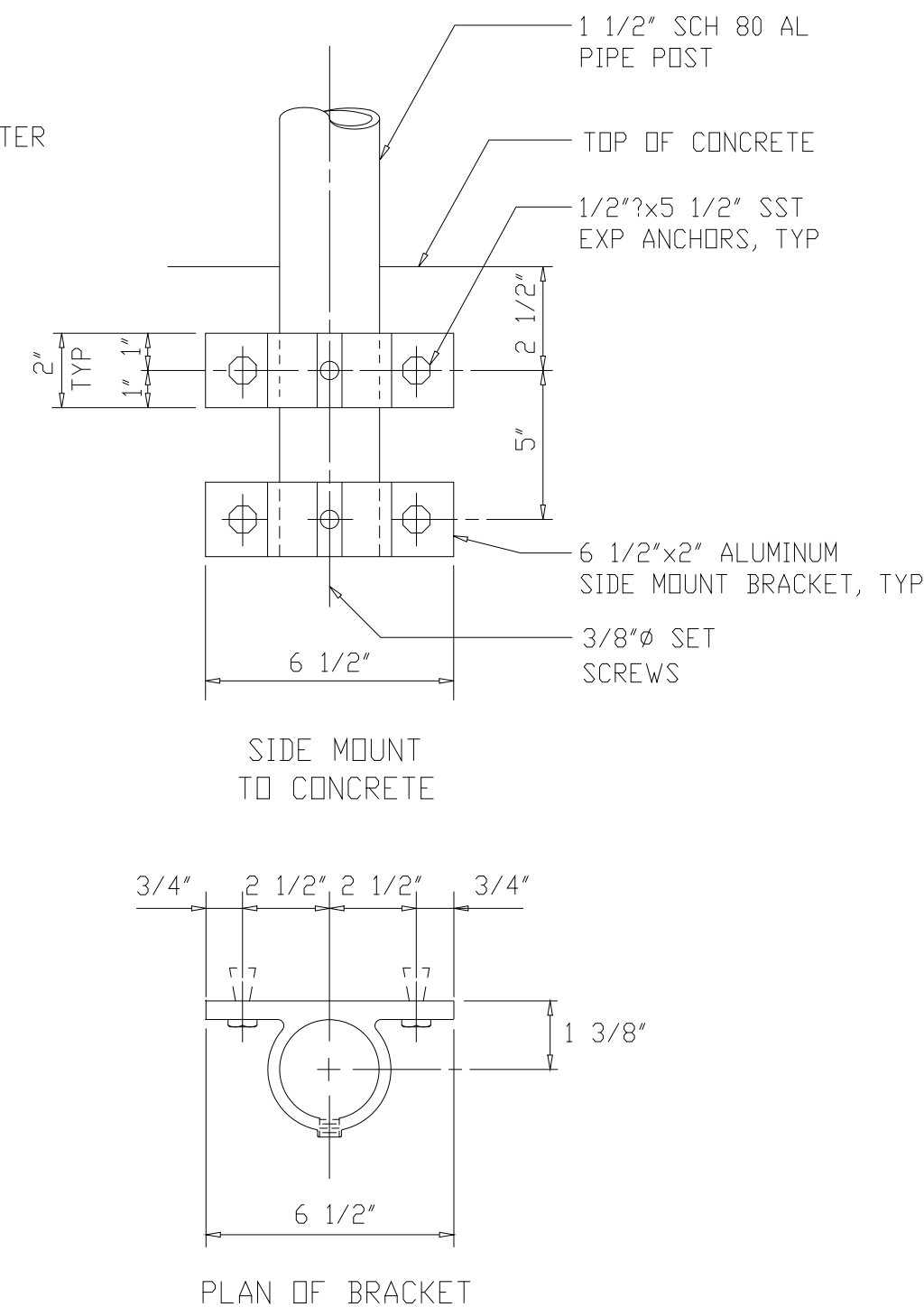


TYPICAL TEMPERATURE SENSOR
DETAIL 6
NOT TO SCALE STD

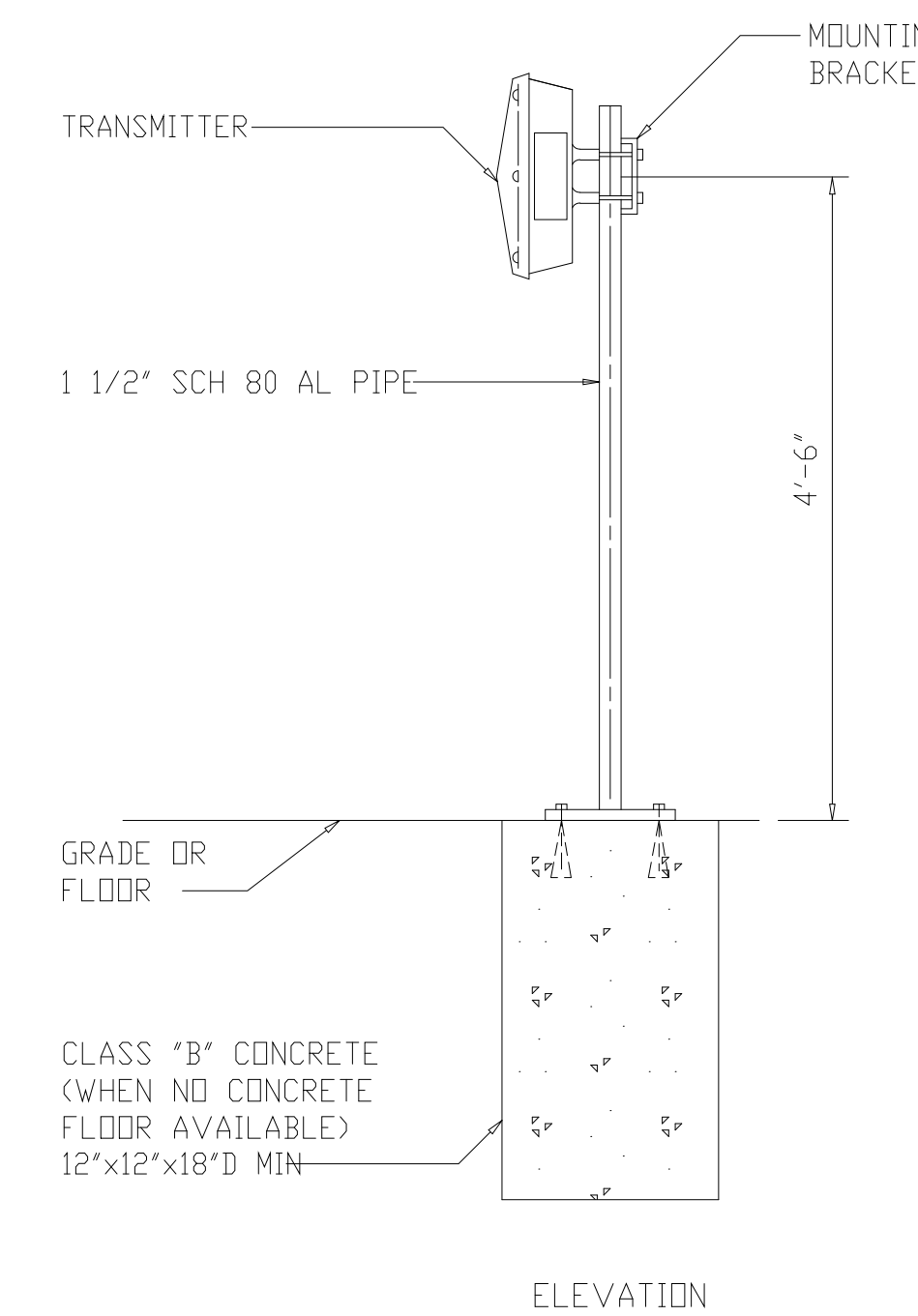


TYPICAL PIPE STAND TRANSMITTER MOUNTED ON SIDE WALL

DETAIL 9
NOT TO SCALE STD

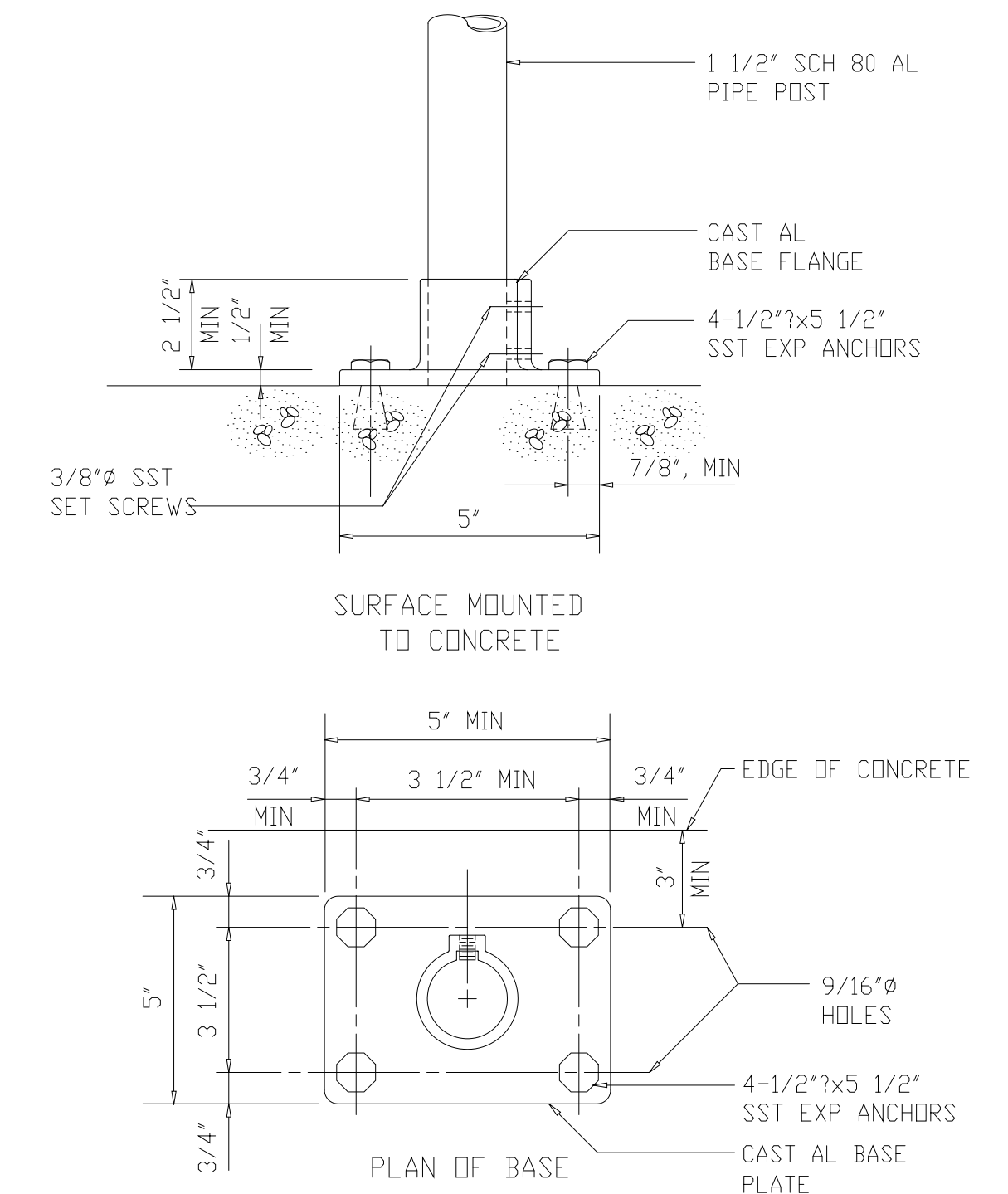


PLAN OF BRACKET



TYPICAL PIPE STAND TRANSMITTER MOUNTED ON TOP OF SLAB

DETAIL 10
NOT TO SCALE STD



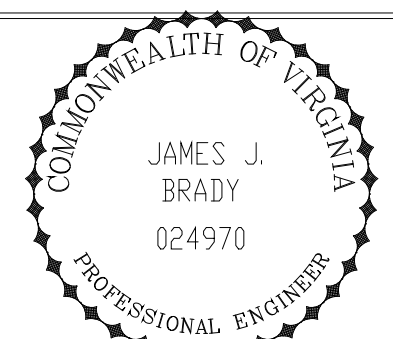
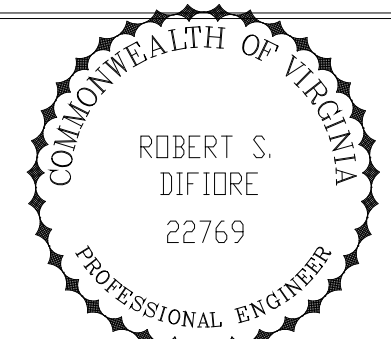
PLAN OF BASE

SURFACE MOUNTED TO CONCRETE

RECORD DRAWING

PLOT DATE: 02/09/99 4:05pm FILE: INSTRUM.dwg PLOT: 02/09/99 4:05pm

DESIGNED	DMC
DRAWN	AMD
CHECKED	A.B.
PROJ. ENGR.	J.J.B.
REGULATORY APPROVAL	J.J.B.
ISSUED FOR	

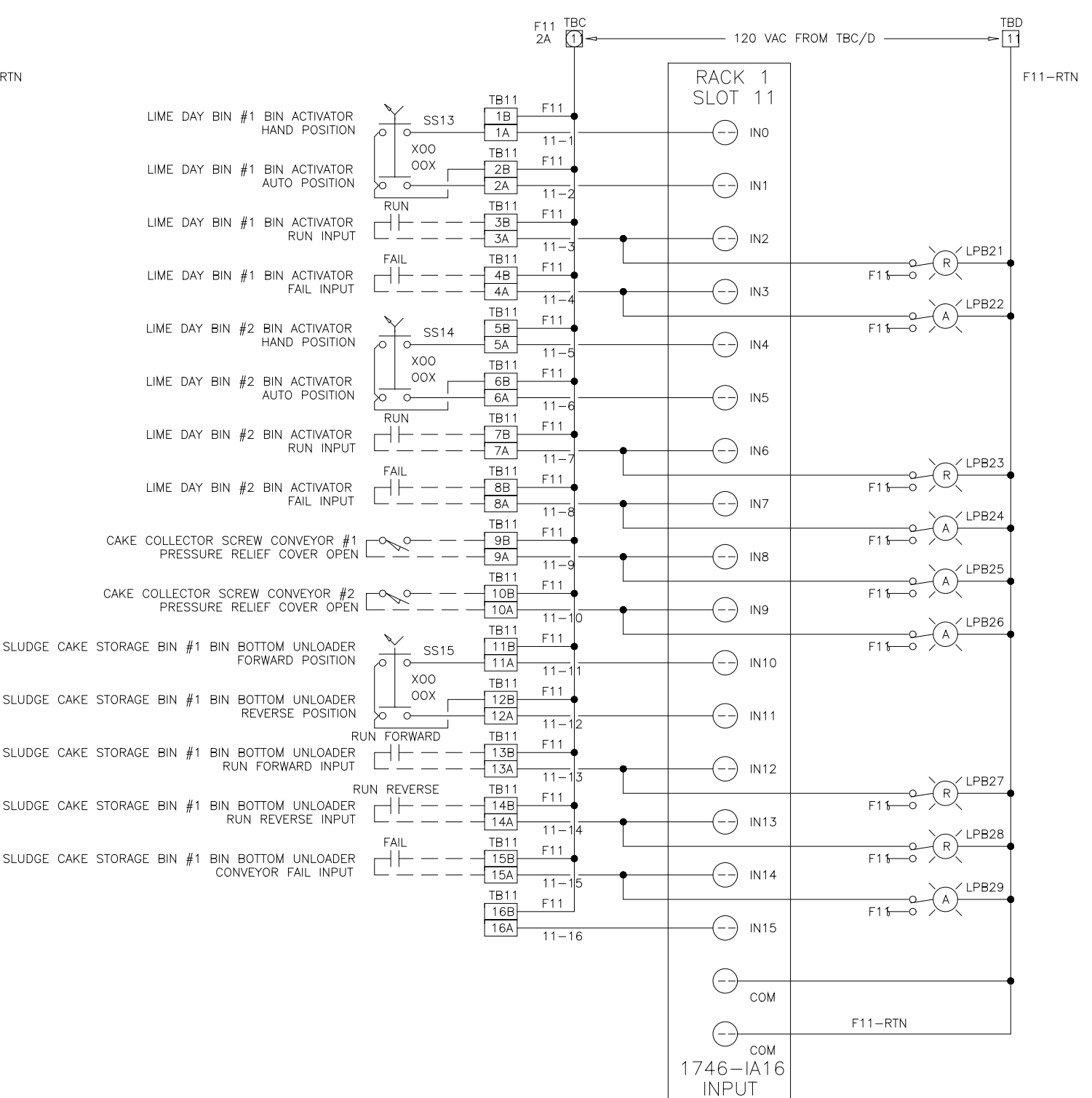
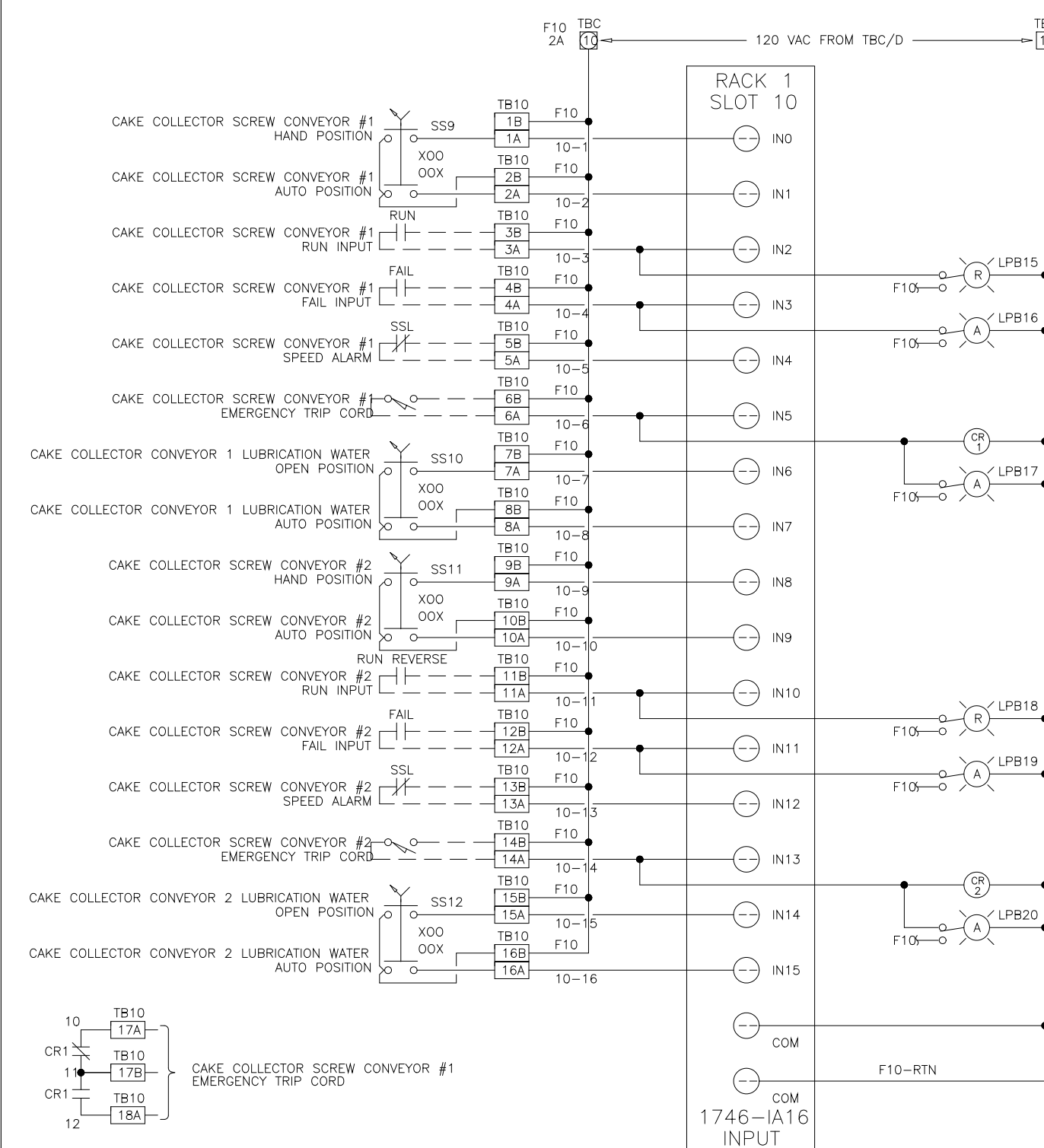
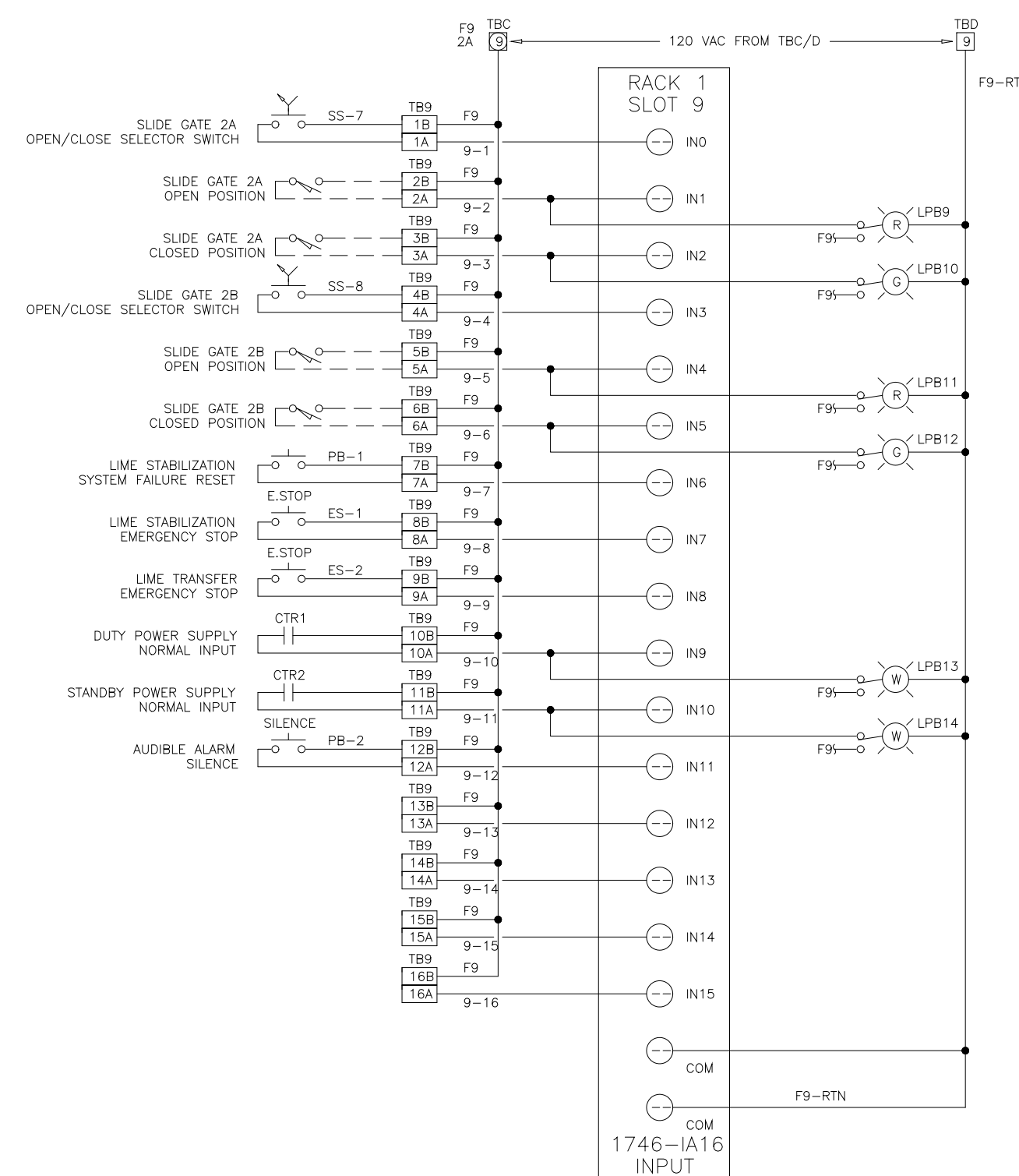
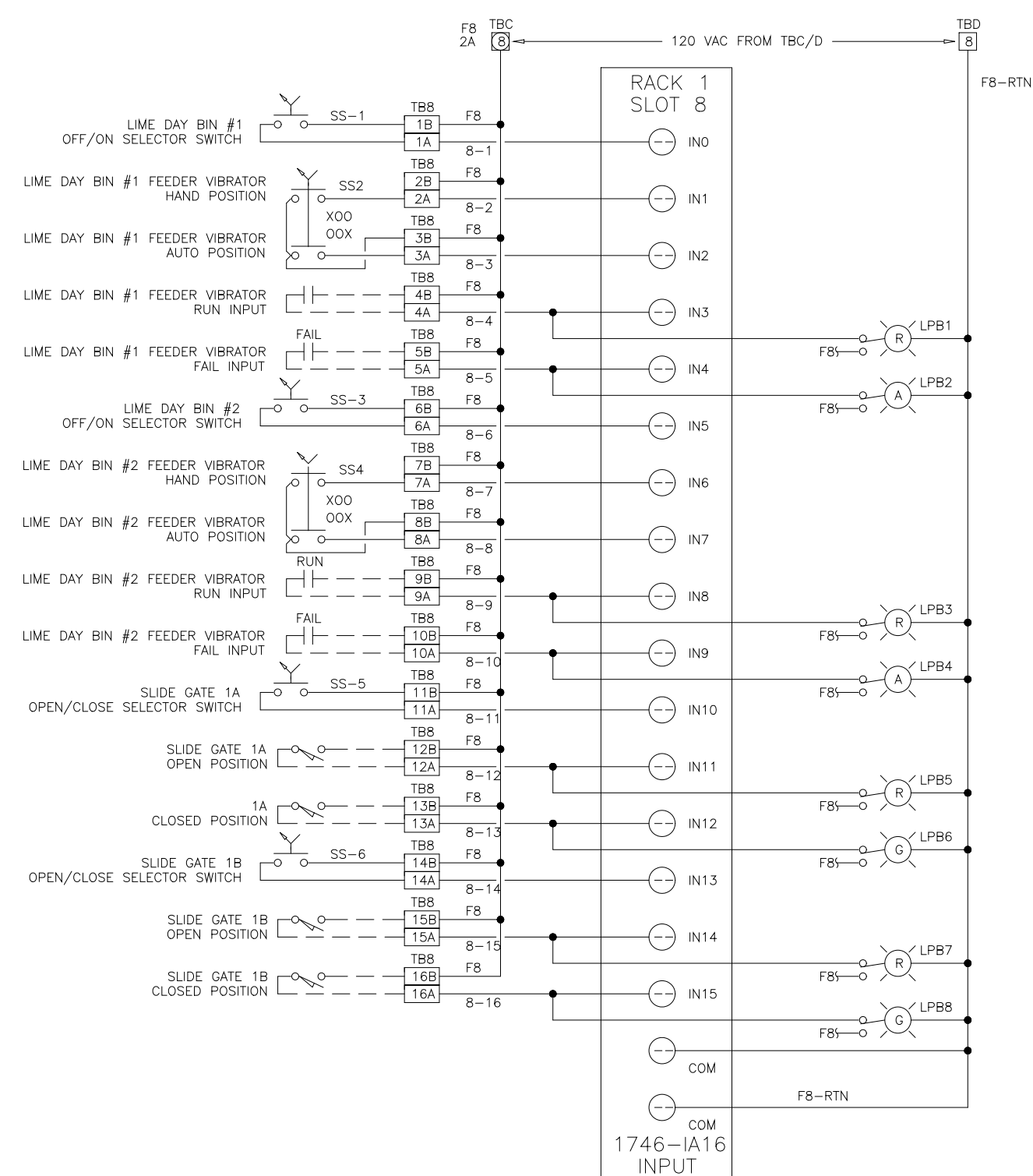


HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE IIIA
SOLID PROCESSING FACILITIES

GENERAL
INSTRUMENTATION
INSTALLATION DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER I-15
	SHEET 30 OF 199



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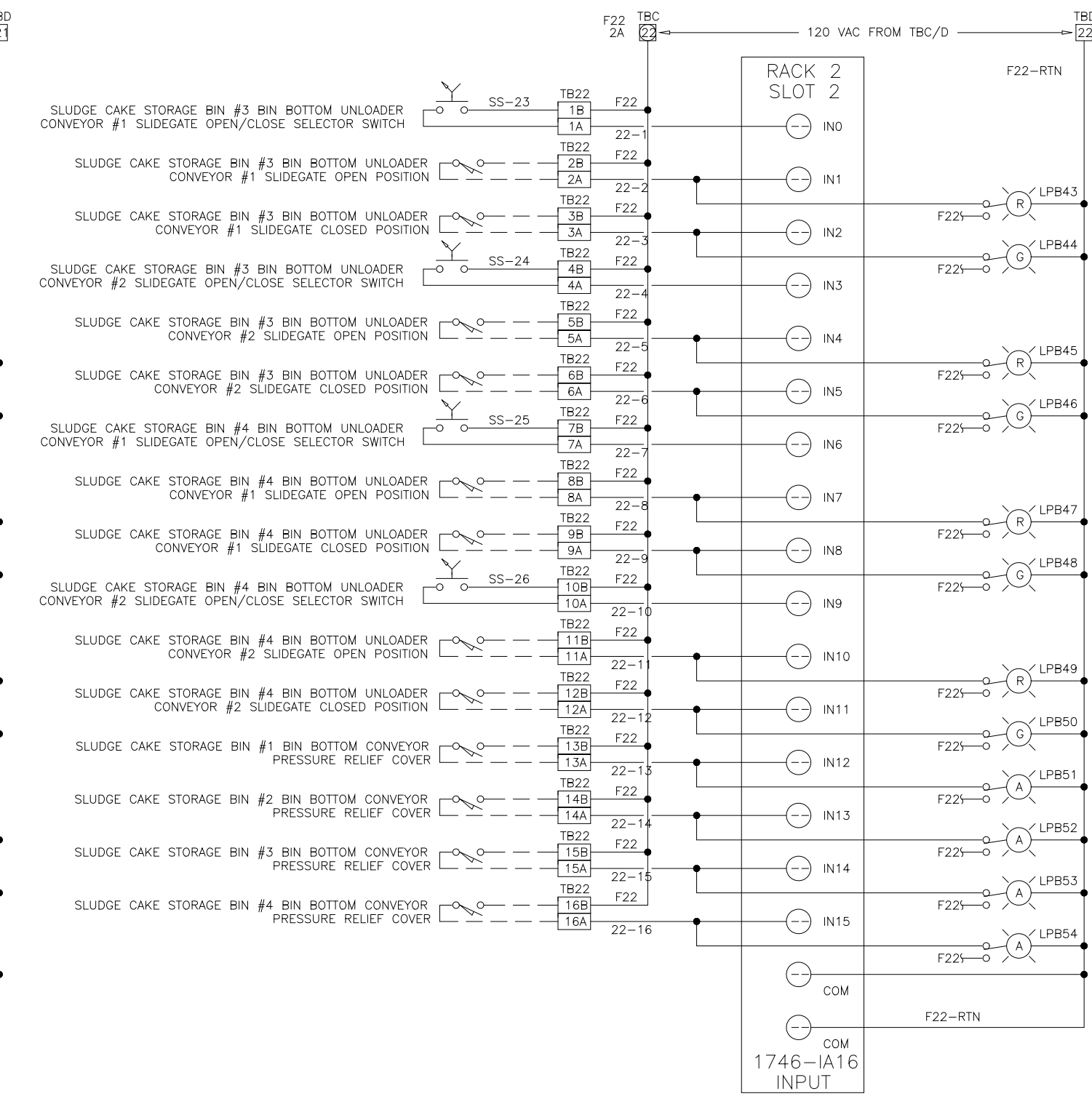
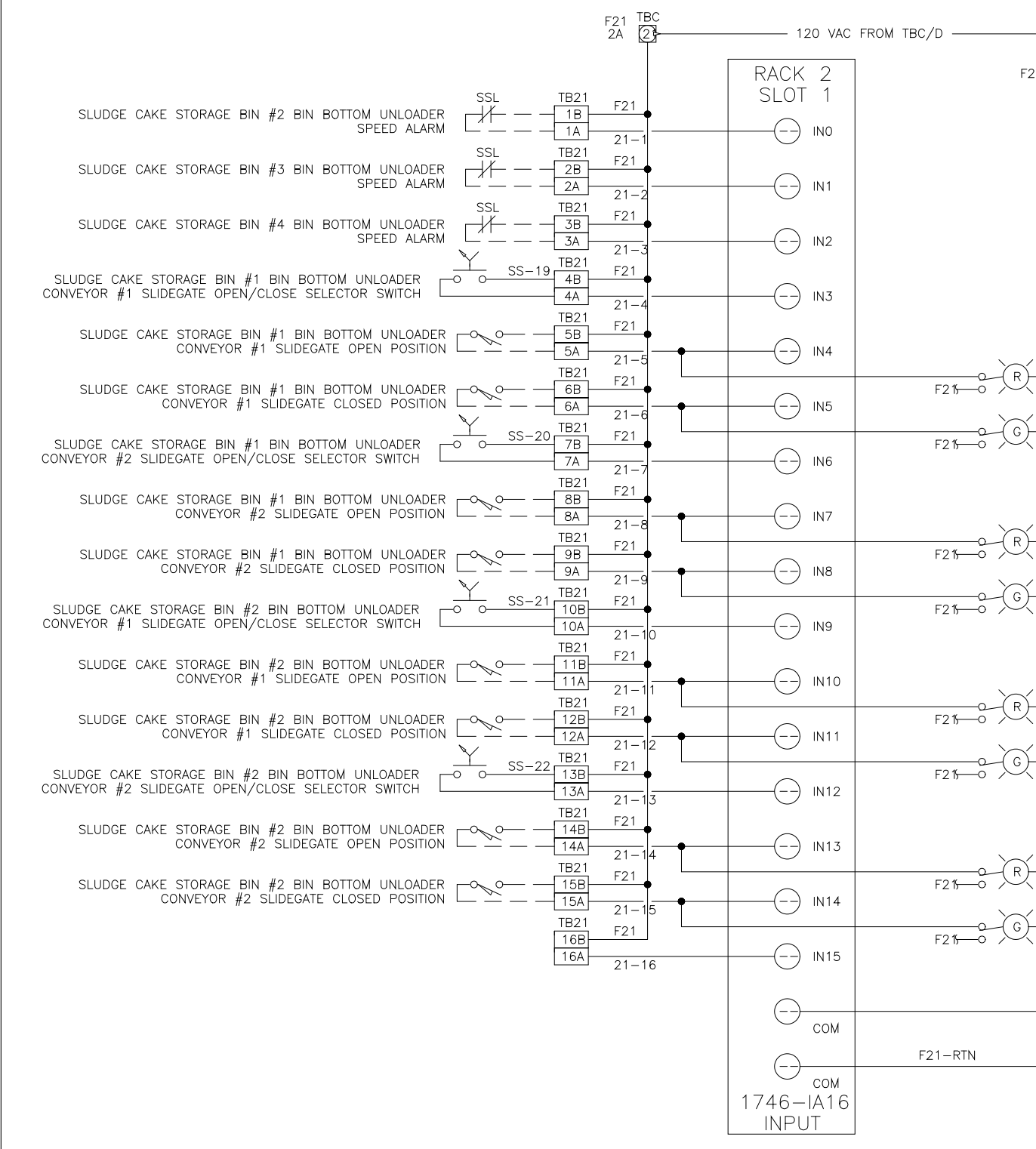
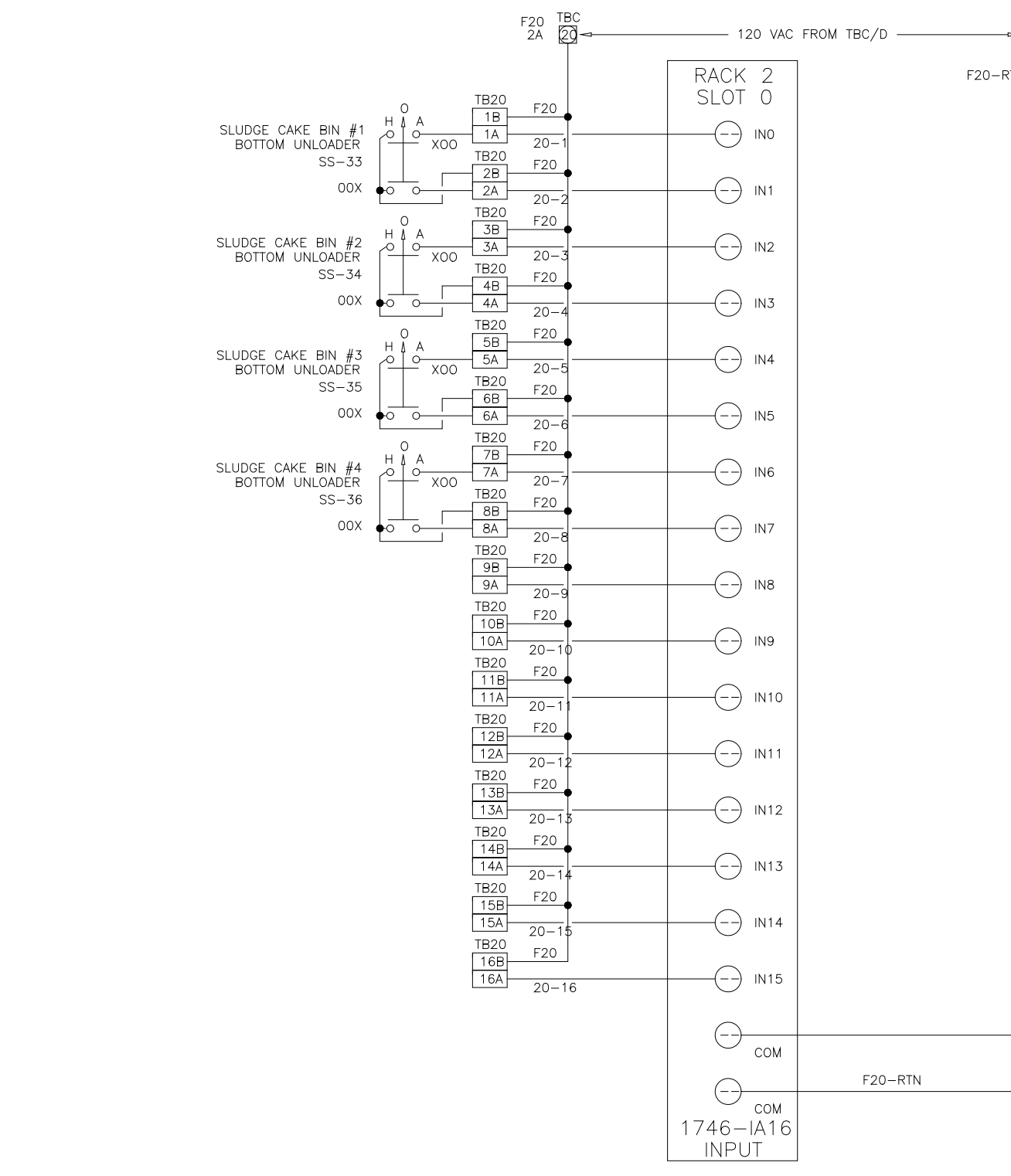
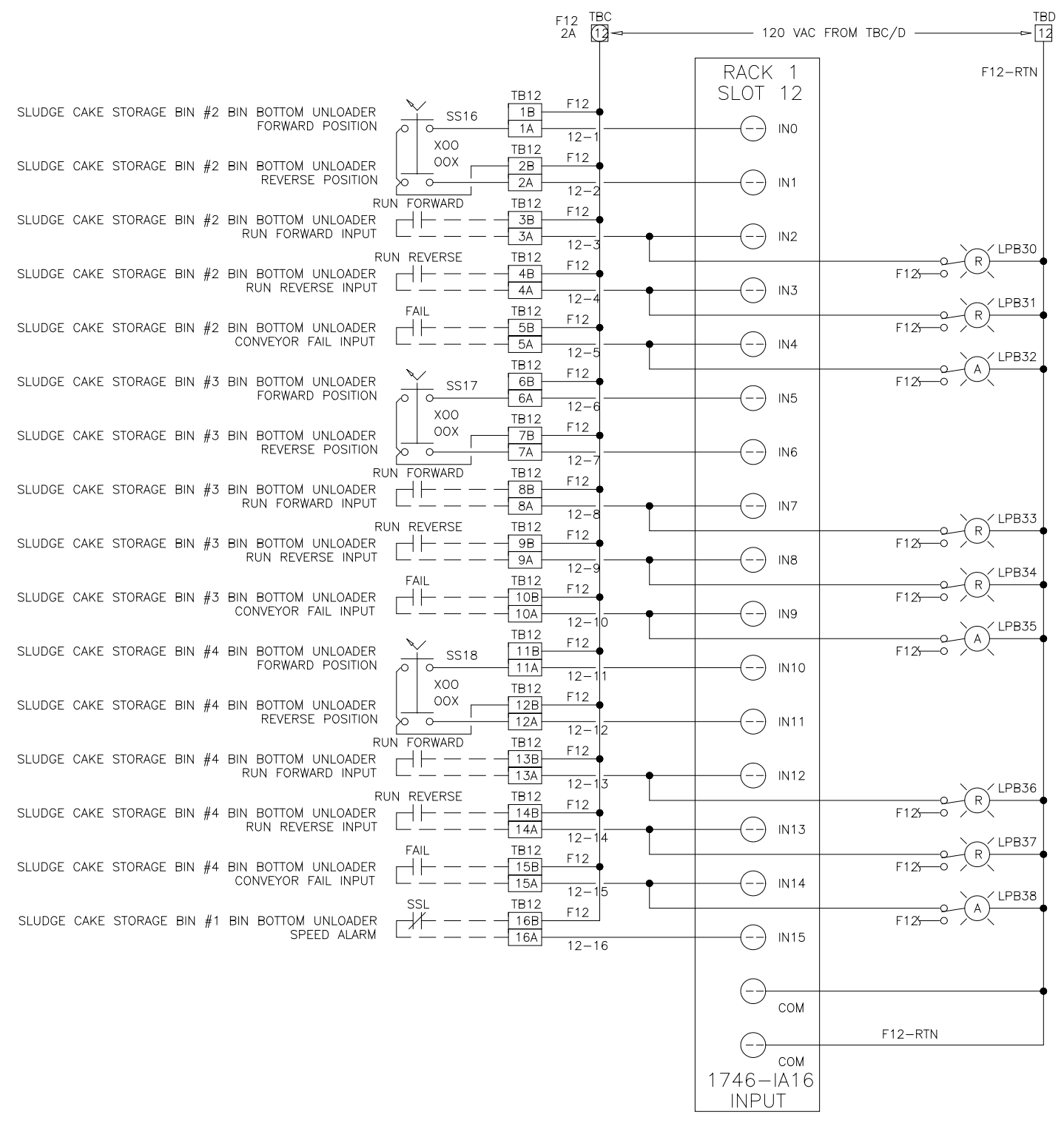
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REV DATE	PURPOSE	BY	CHK	

DES	MA	PRS	4/29/97	MA
DRF	MA	SAT	4/29/97	MA
CHK	MA	SAT	4/29/97	MA
REV DATE	PURPOSE	BY	CHK	

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DRF	MA	SAT	4/29/97	MA
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REV DATE	PURPOSE	BY	CHK	

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DRF	MA	SAT	4/29/97	MA
CHK	MA	SAT	4/29/97	MA
REV DATE	PURPOSE	BY	CHK	



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DES	MA	PRS	4/29/97	MA
DRF	MA	SAT	4/29/97	MA
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REV DATE	PURPOSE	BY	CHK	

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DRF	MA	SAT	4/29/97	MA
CHK	MA	SAT	4/29/97	MA
REV DATE	PURPOSE	BY	CHK	

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CHK	MA	SAT	4/29/97	MA
REV DATE	PURPOSE	BY	CHK	

DESIGNED	MKS
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
APPROVED	

THIS DRAWING HAS BEEN COMPILED BY
HAZEN AND SAWYER, P.C.

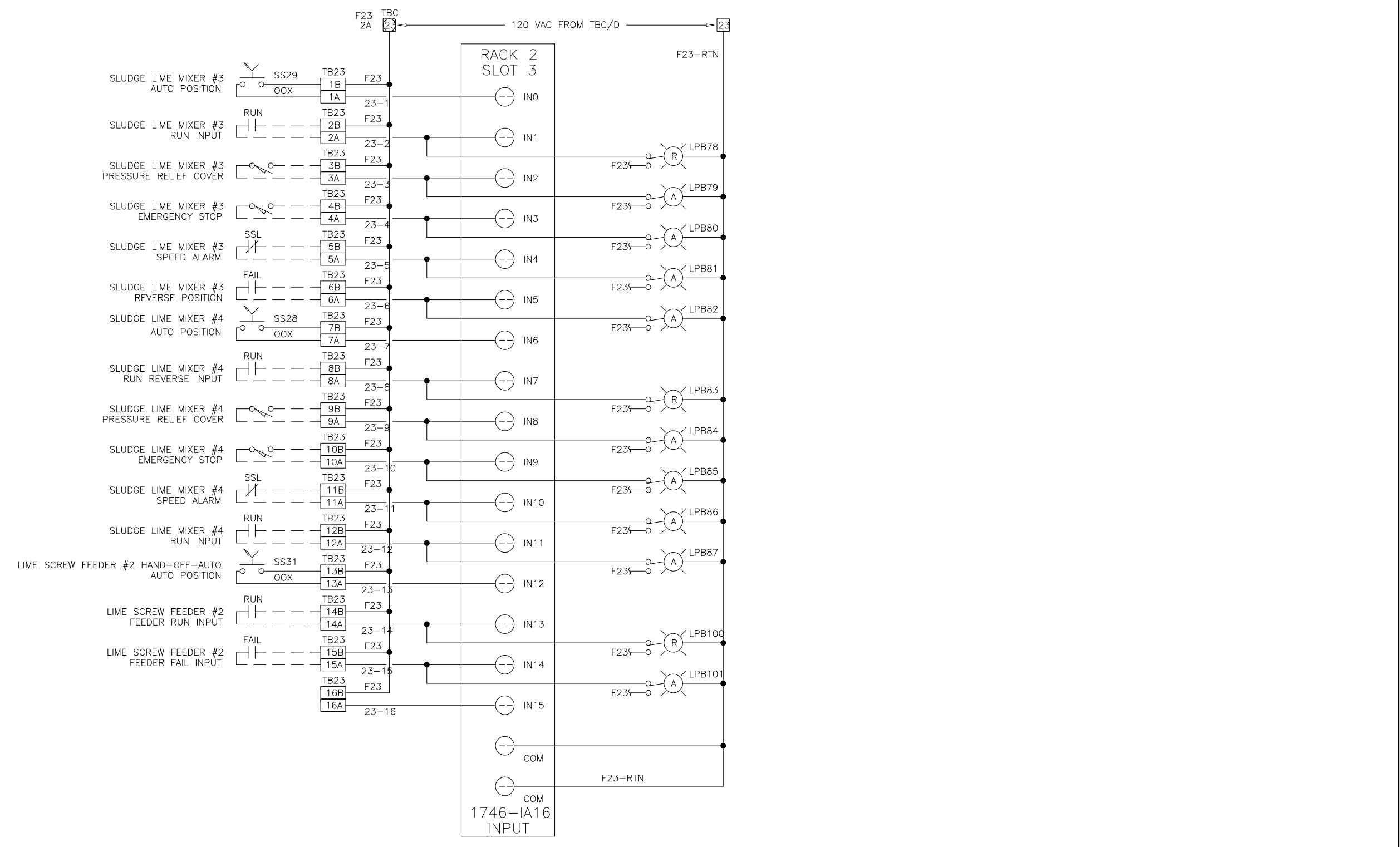
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Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

DATE JULY 99
H & S JOB NUMBER 2843
CONTRACT NUMBER 93-02-WPC
DRAWING NUMBER IP-27
SHEET 31AA OF 199

RECORD DRAWING

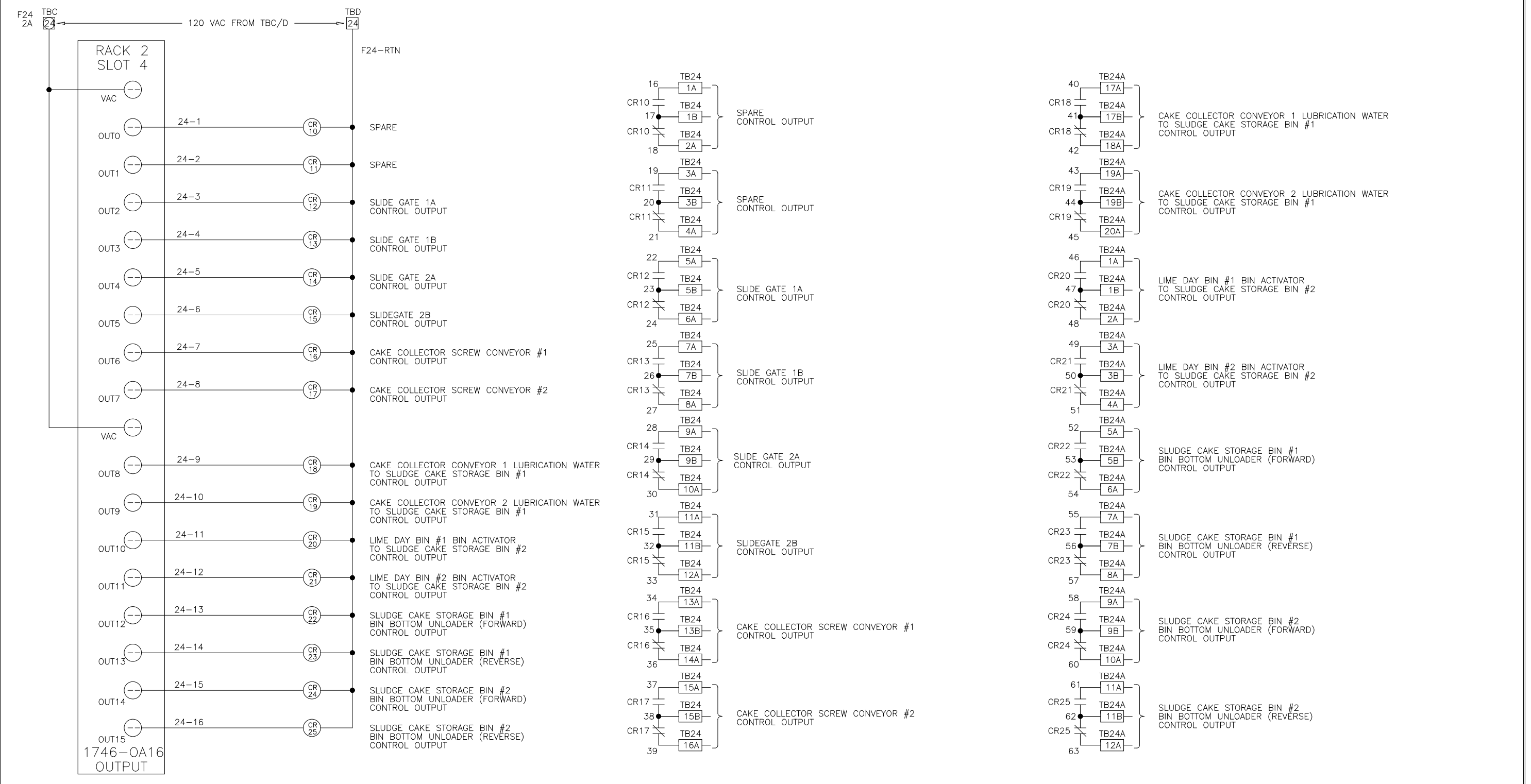


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SEI SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

FOR: DANIS INDUSTRIES ADO21LIME

REV LTR B DWG NO 954281

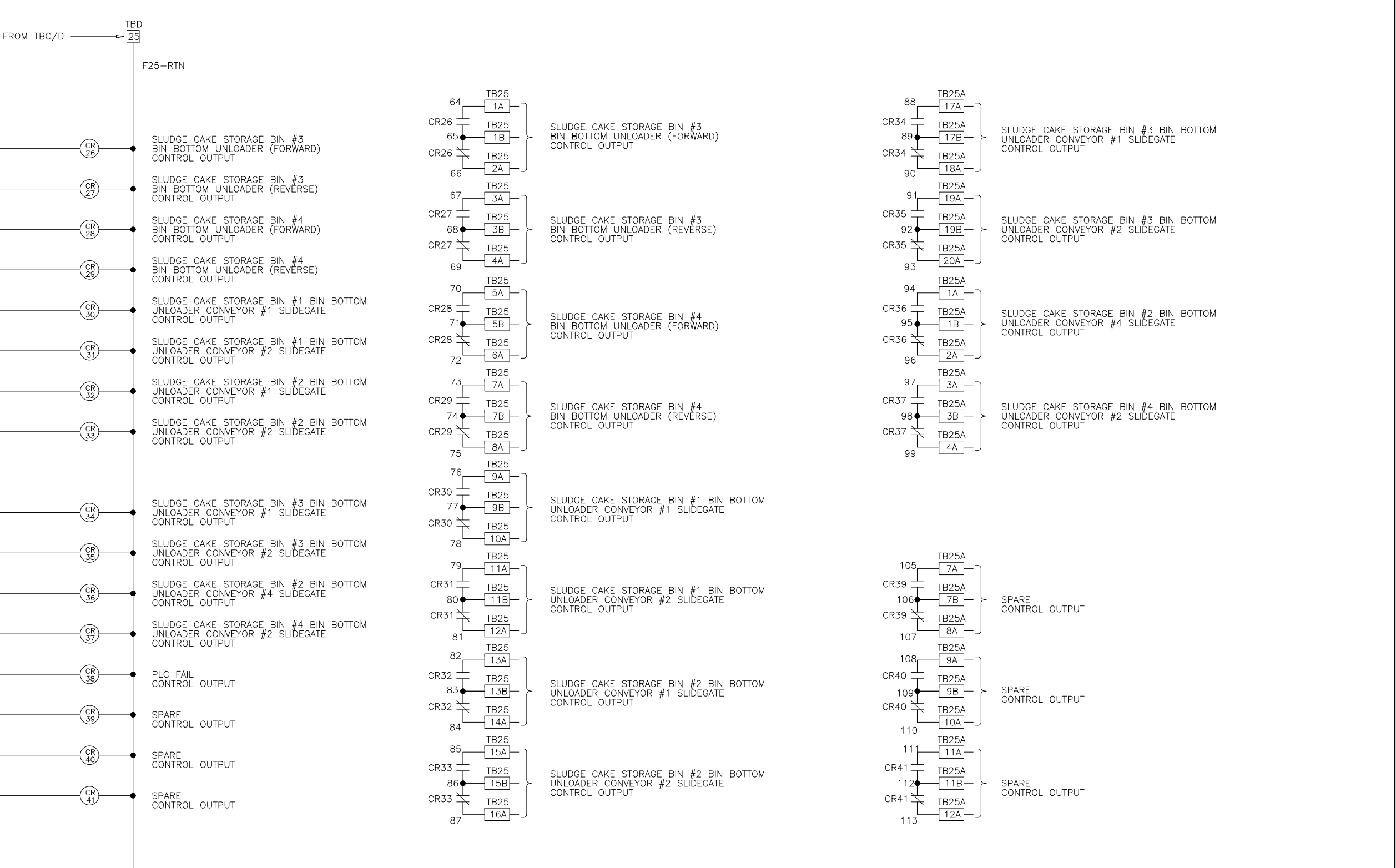


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SEI SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

FOR: DANIS INDUSTRIES ADO21LIME

REV LTR B DWG NO 954282

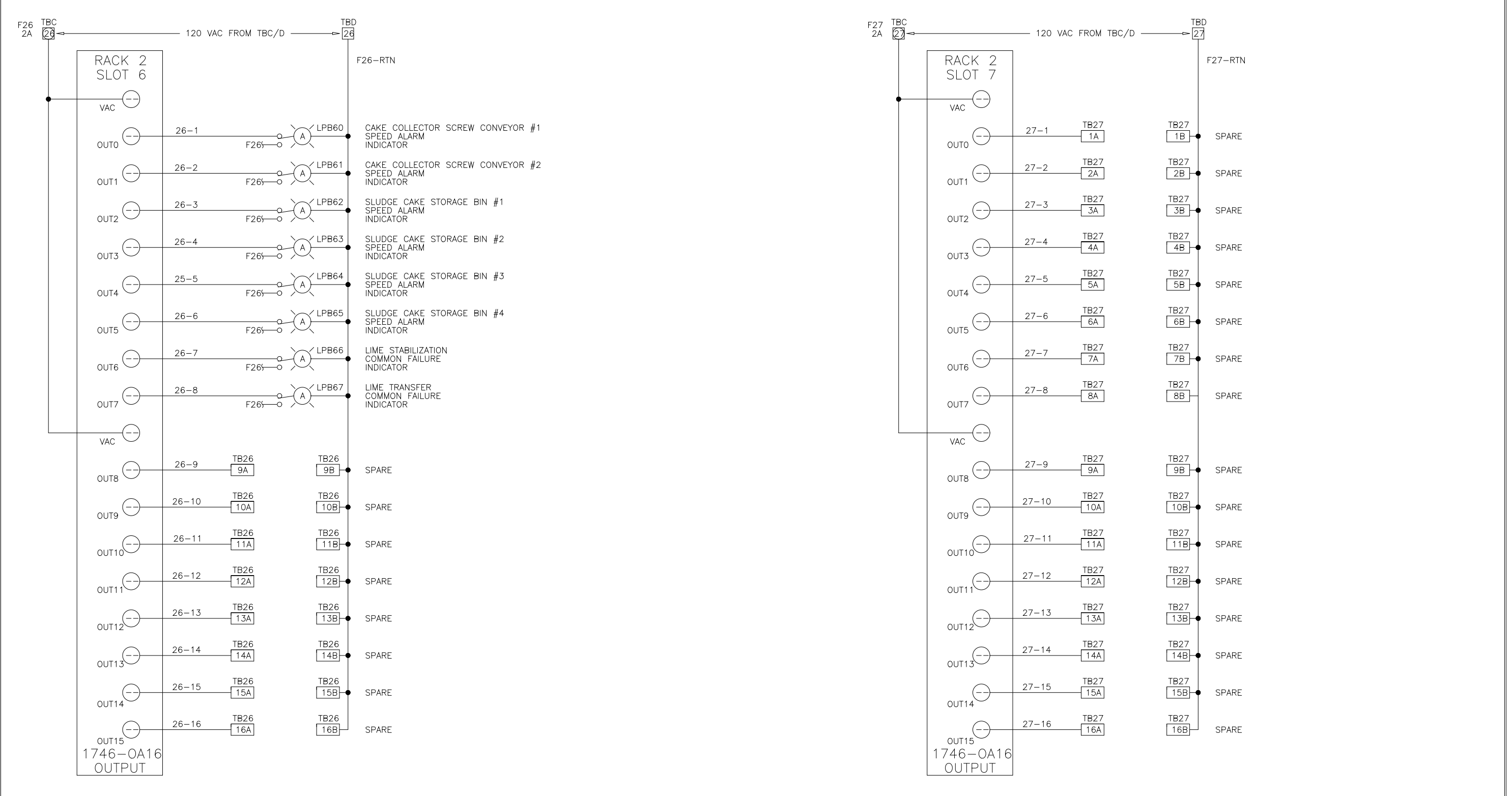


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CHK	MA	SAT	4/29/97	4/29/97	4/29/97	MA	
SCALE							

SEI SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

FOR: DANIS INDUSTRIES ADO21LIME

REV LTR B DWG NO 954283



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SCALE							

SEI SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

FOR: DANIS INDUSTRIES ADO21LIME

REV LTR B DWG NO 954284

PLT: DATE 07/29/99 4:59pm FILE: \\H2421\proj\ADO21\ADO21-IP-28-01.dwg XREF FILE: NONE

DESIGNED	MKS			
DRAWN	MKS			
CHECKED				
PROJ. ENGR.				
NO.	ISSUED FOR	DATE	BY	APPROVED

THIS DRAWING HAS BEEN COMPILED BY HAZEN AND SAWYER, P.C.

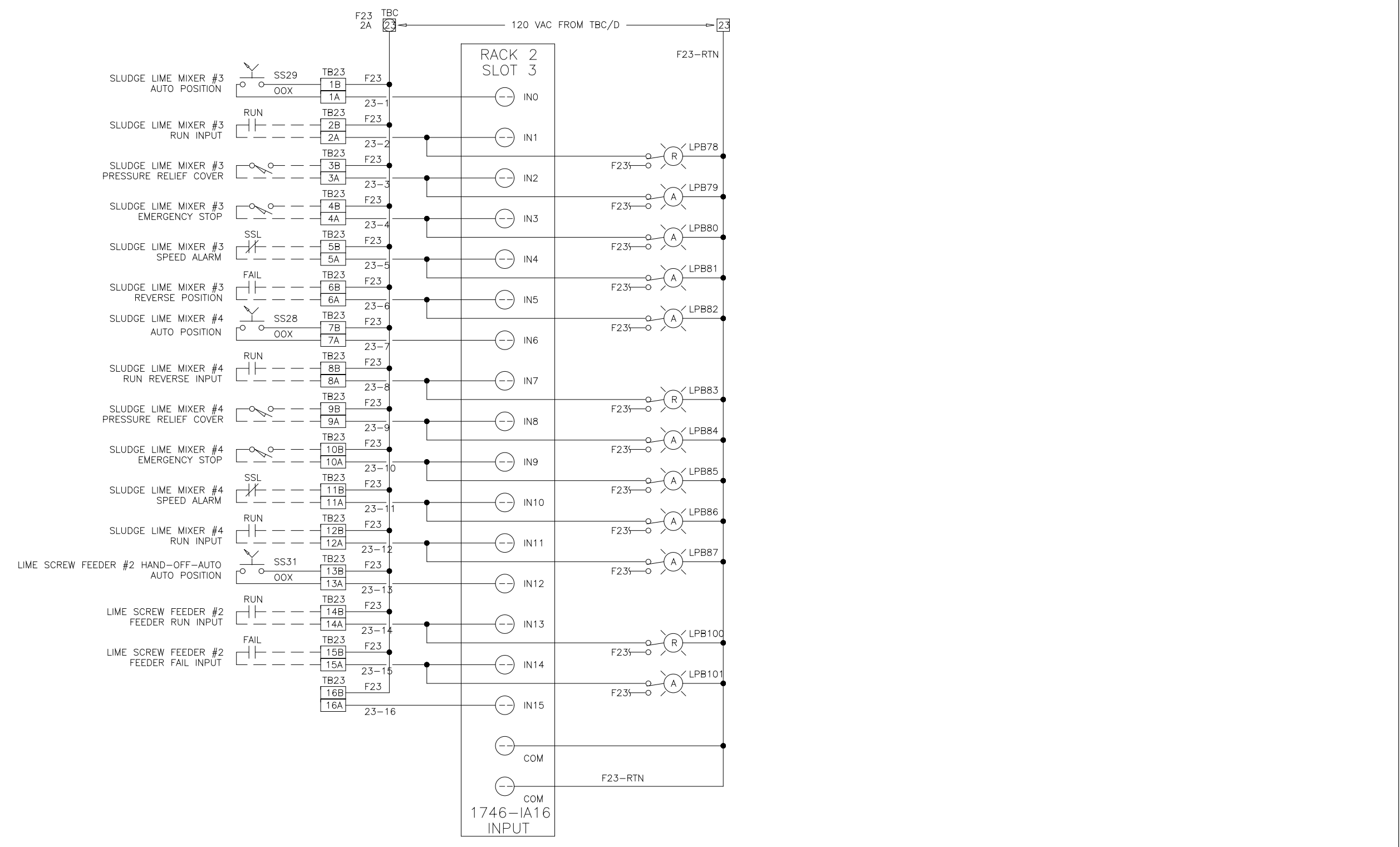
HAZEN AND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-28
SHEET	31AB OF 199

RECORD DRAWING

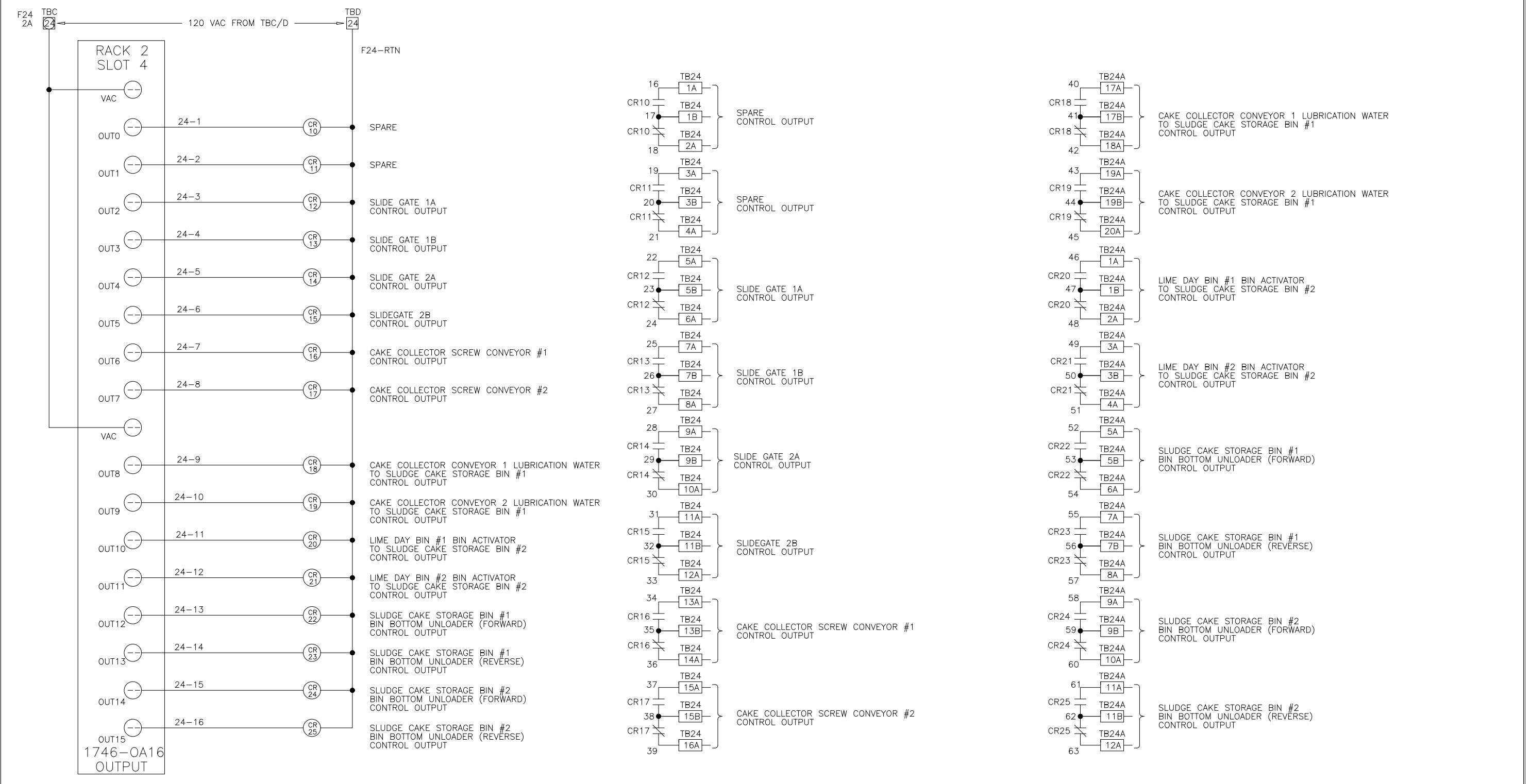


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SEI SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

FOR: DANIS INDUSTRIES ADO21LIME

REV LTR B DWG NO 954281

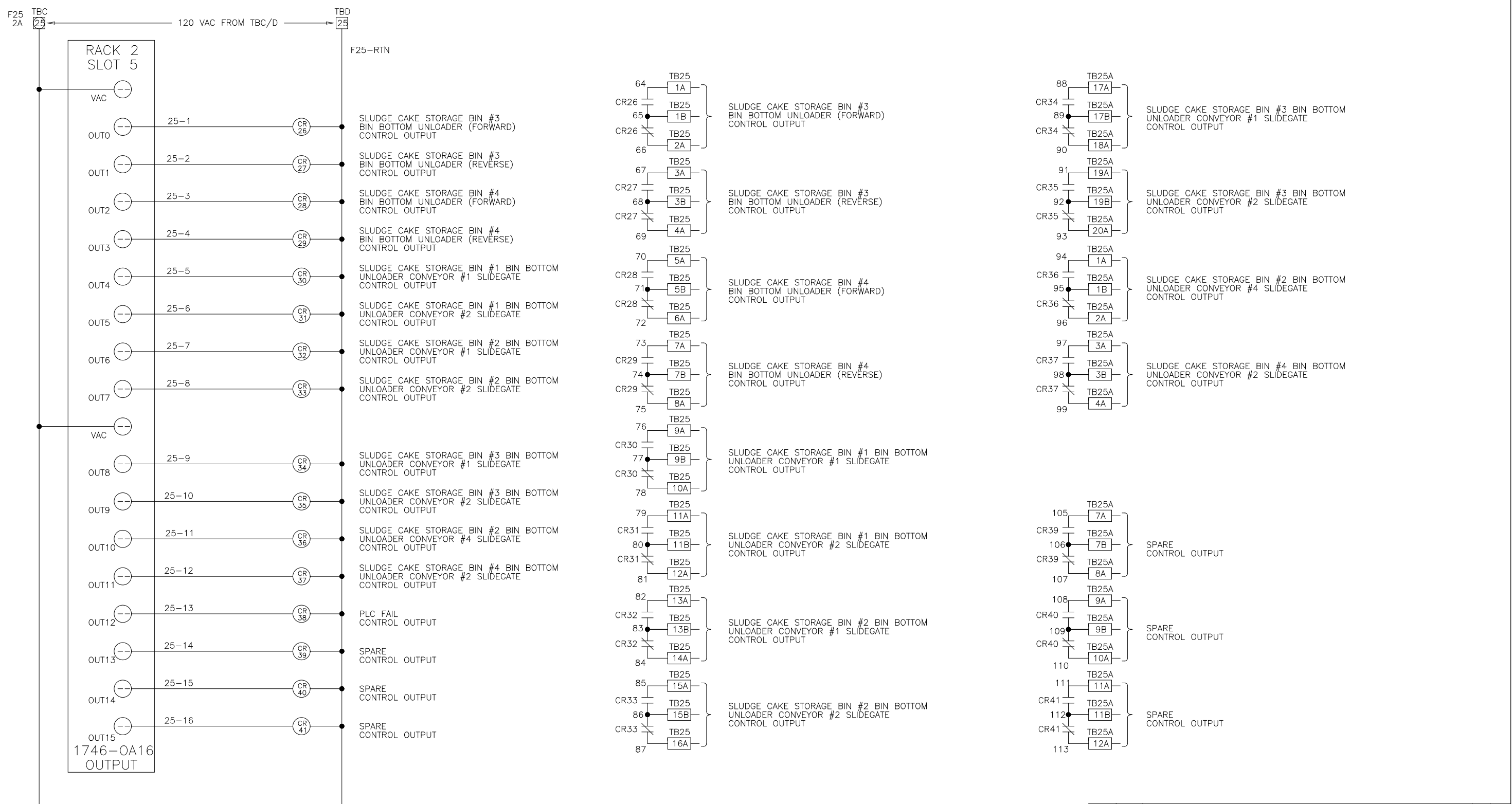


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SEI SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

FOR: DANIS INDUSTRIES ADO21LIME

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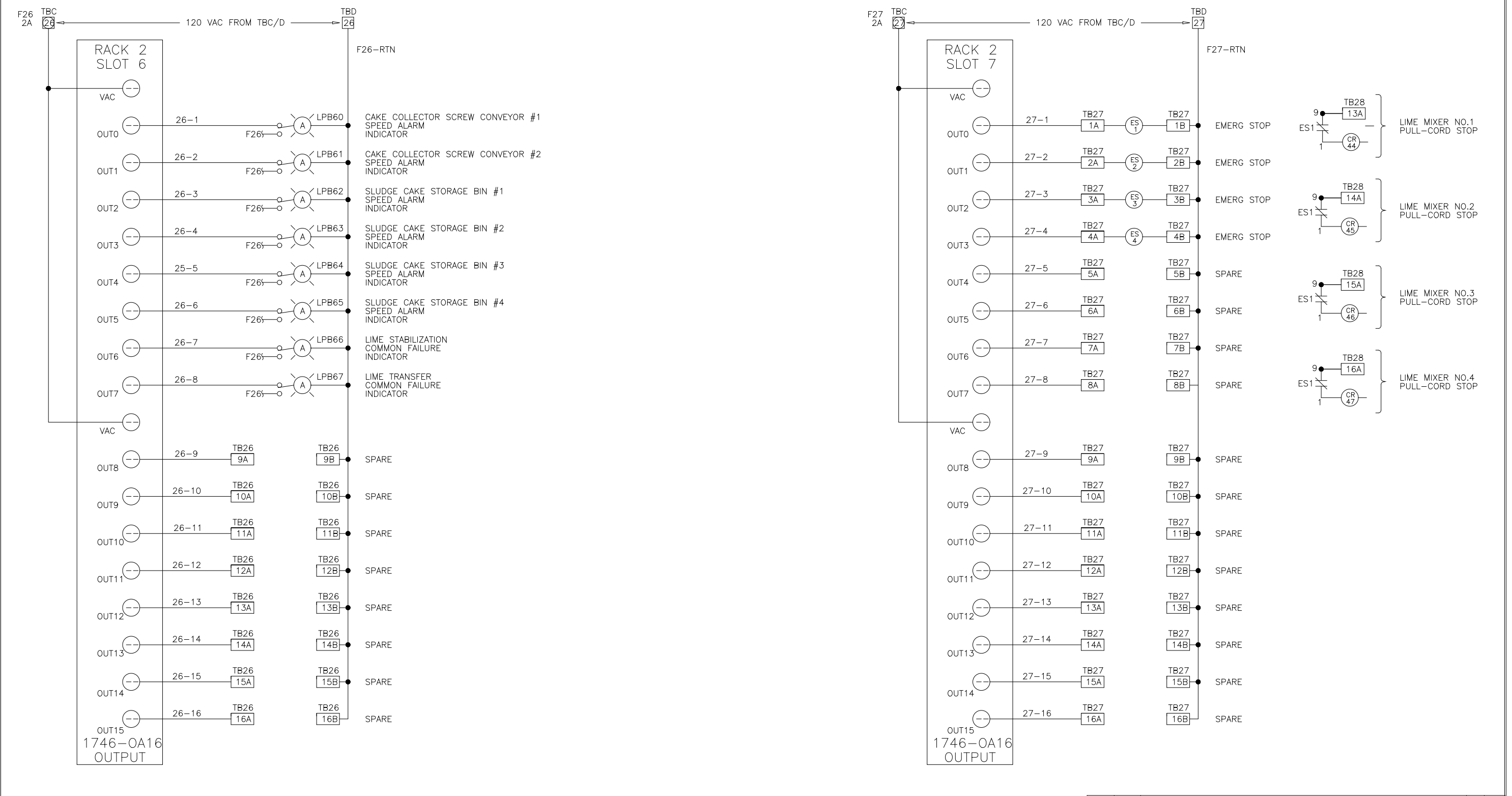


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SCALE						

SEI SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

FOR: DANIS INDUSTRIES ADO21LIME

REV LTR B DWG NO 954283



DES	MA	PRS	4/29/97	4/29/97	4/29/97	4/29/97
DRF	MA	SAT	4/29/97	4/29/97	4/29/97	4/29/97
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SCALE						

SEI SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

FOR: DANIS INDUSTRIES ADO21LIME

REV LTR B DWG NO 954284

NO.	ISSUED FOR	DATE	BY	APPROVED
	REVISION - ADDED	5/27/04	JJ	
	MANUAL FULL-CORD INTERLOCK			

DESIGNED _____
 DRAWN MKS
 CHECKED _____
 PROJ. ENGR. _____

THIS DRAWING HAS BEEN COMPILED BY
HAZEN AND SAWYER, P.C.

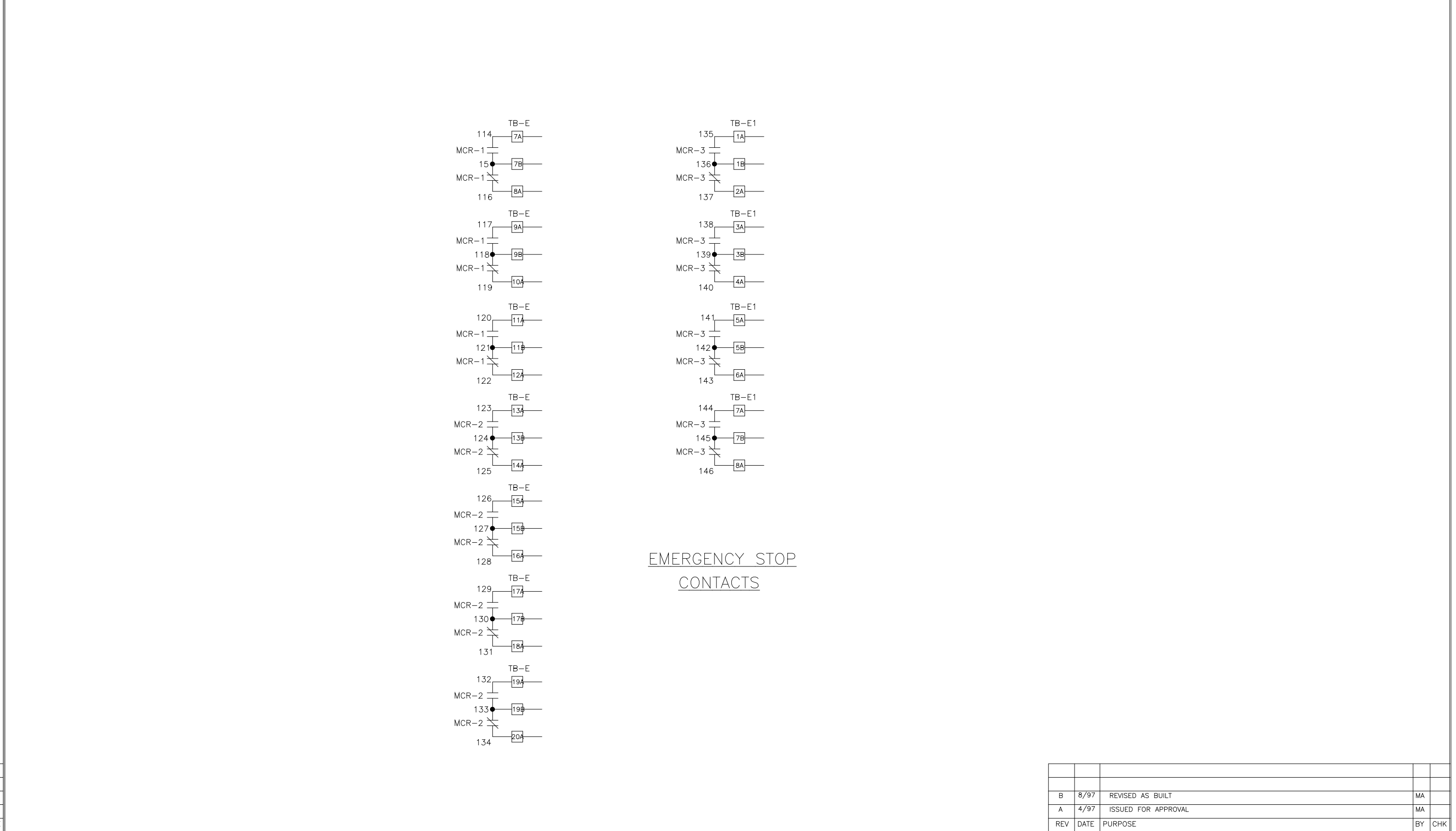
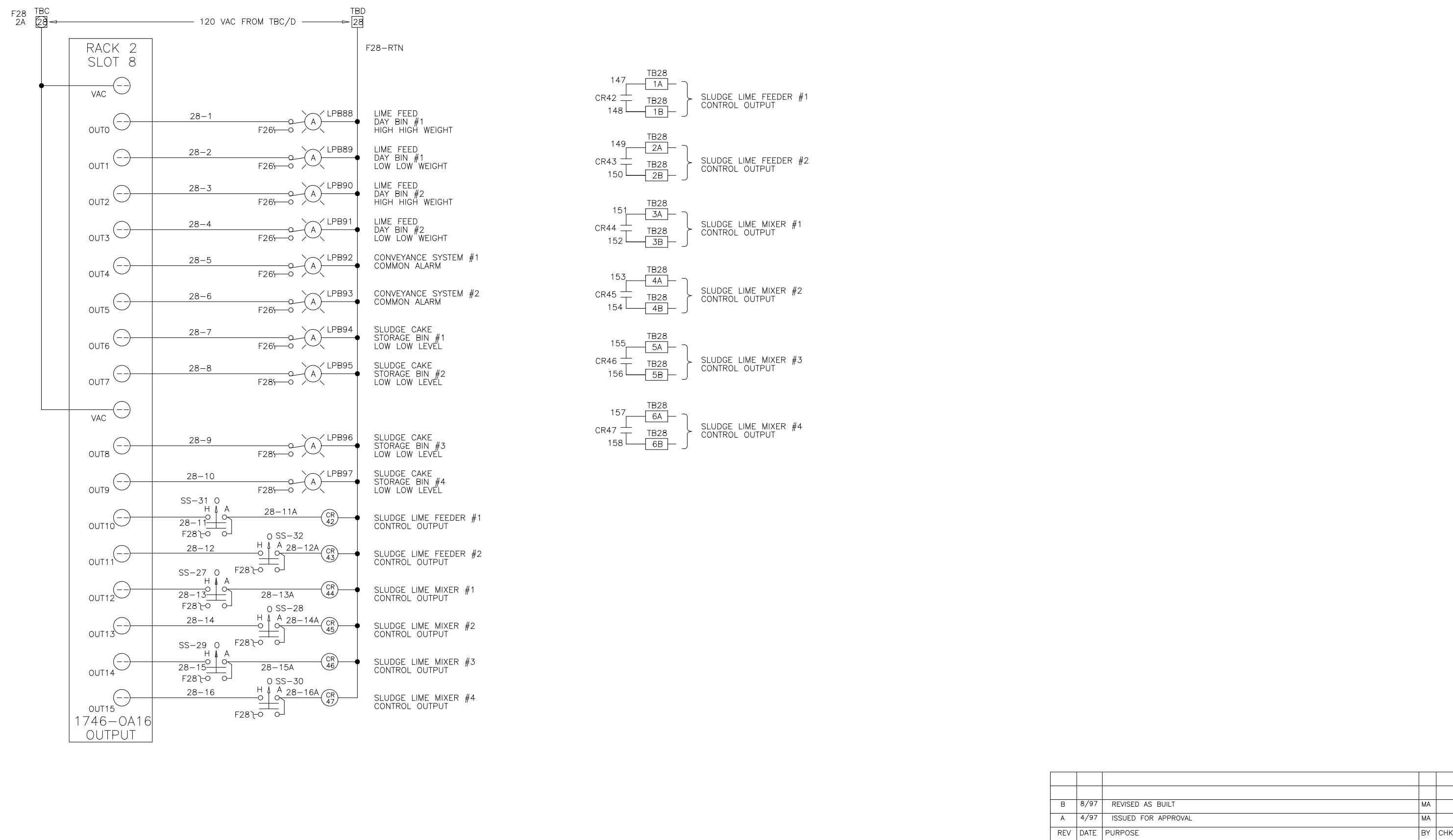
HAZEN AND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION

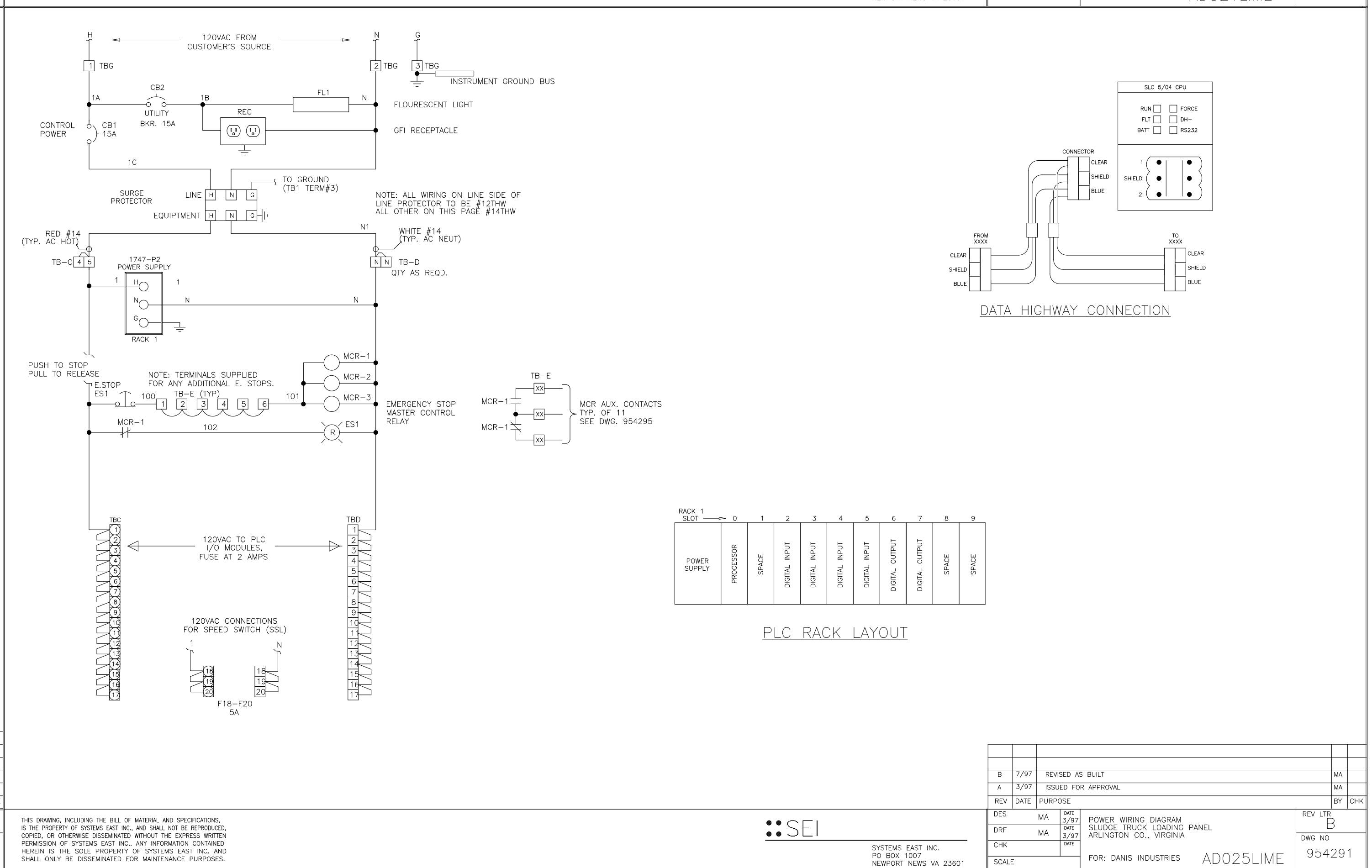
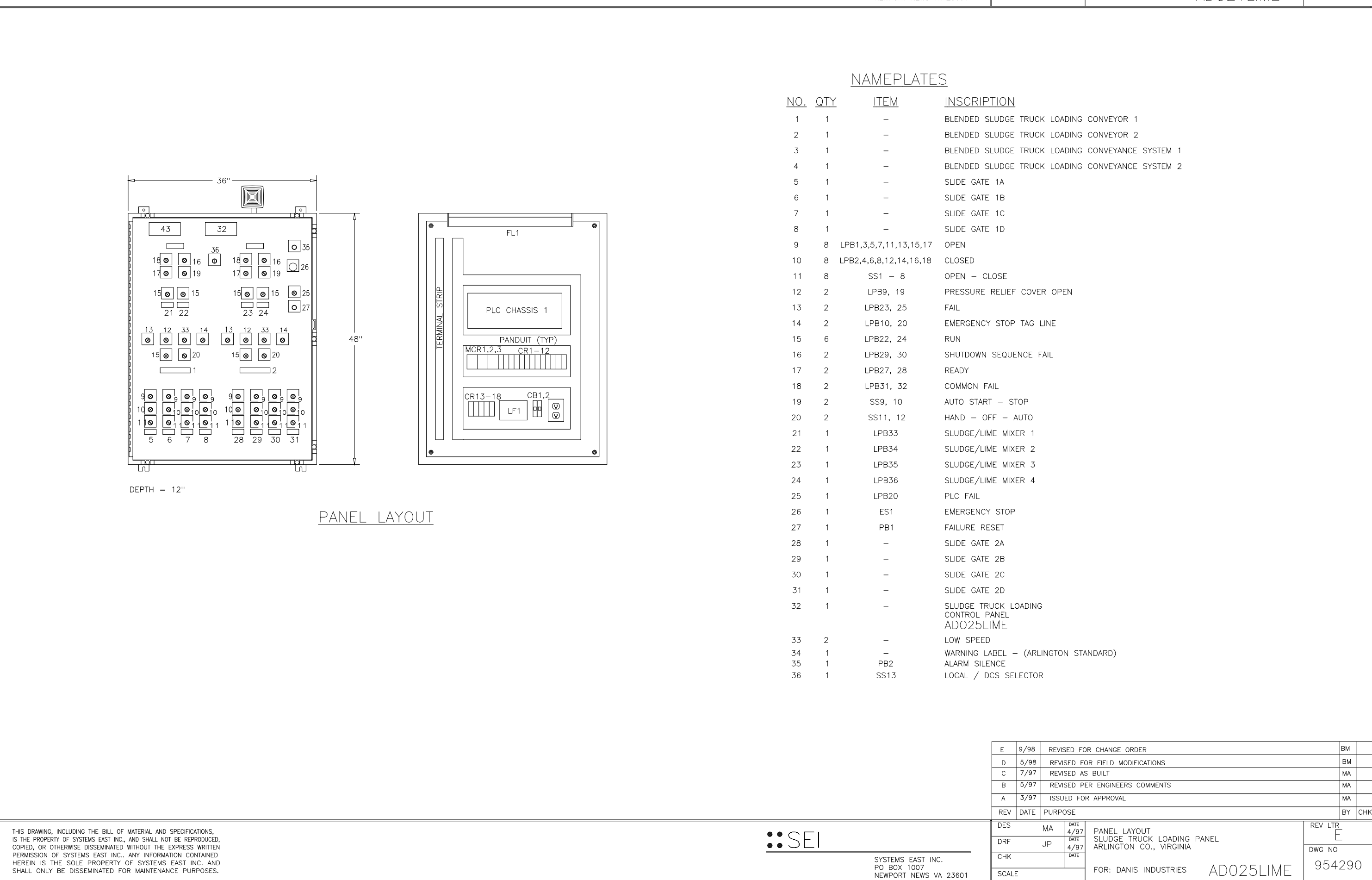
DATE JULY 99
 H & S JOB NUMBER 2843
 CONTRACT NUMBER 93-02-WPC
 DRAWING NUMBER IP-28
 SHEET 31AB OF 199

RECORD DRAWING



DES	MA	4/97	ELEMENTARY WIRING DIAGRAM	REV LTR	B
DRF	MA	4/97	LIME STABILIZATION CONTROL PANEL	DWG NO	954285
CHK	MA	4/97	ARLINGTON CO, VIRGINIA	REV LTR	B
SCALE			FOR: DANIS INDUSTRIES	DWG NO	954285

DES	MA	4/97	ELEMENTARY WIRING DIAGRAM	REV LTR	B
DRF	MA	4/97	LIME STABILIZATION CONTROL PANEL	DWG NO	954286
CHK	MA	4/97	ARLINGTON CO, VIRGINIA	REV LTR	B
SCALE			FOR: DANIS INDUSTRIES	DWG NO	954286

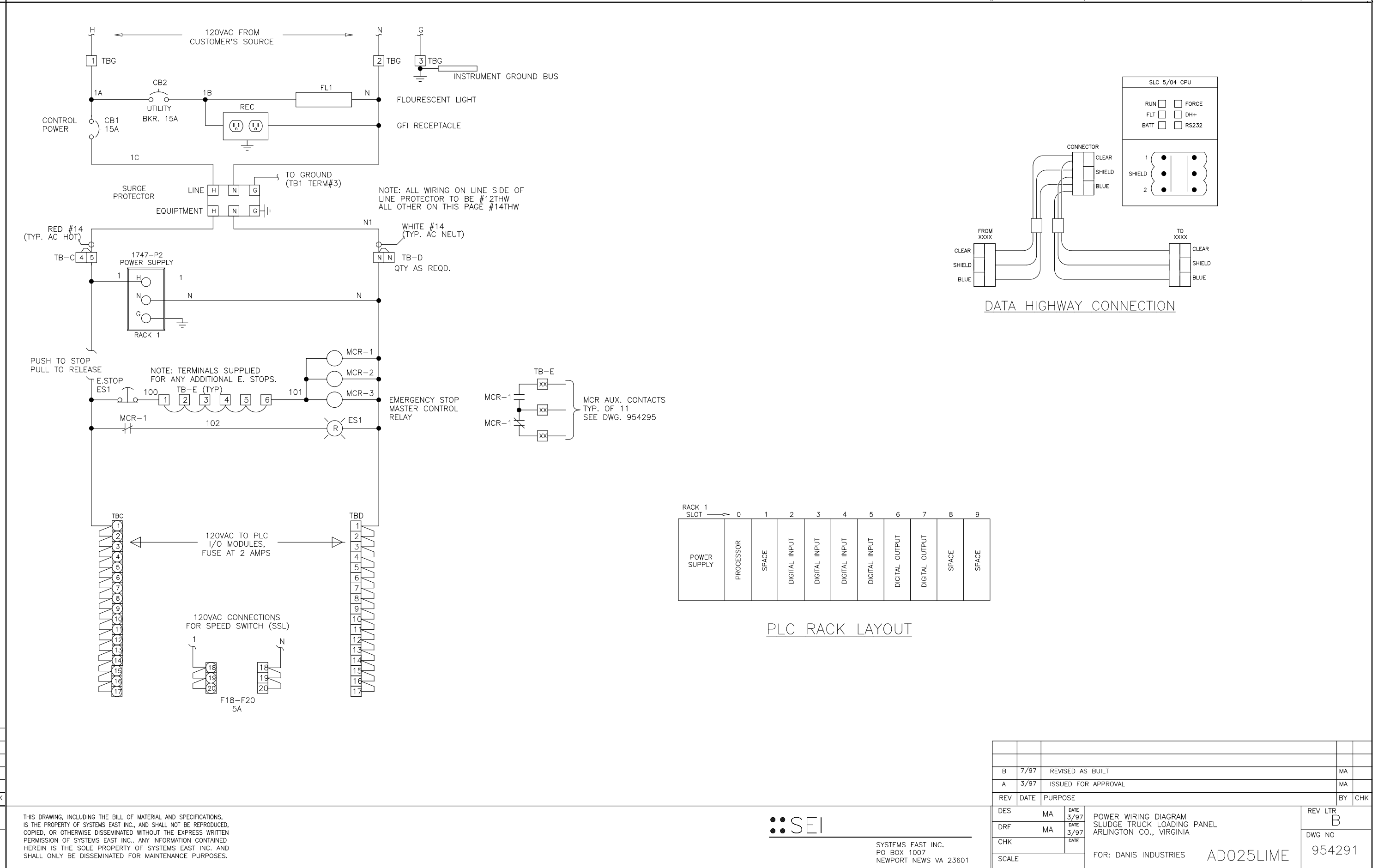
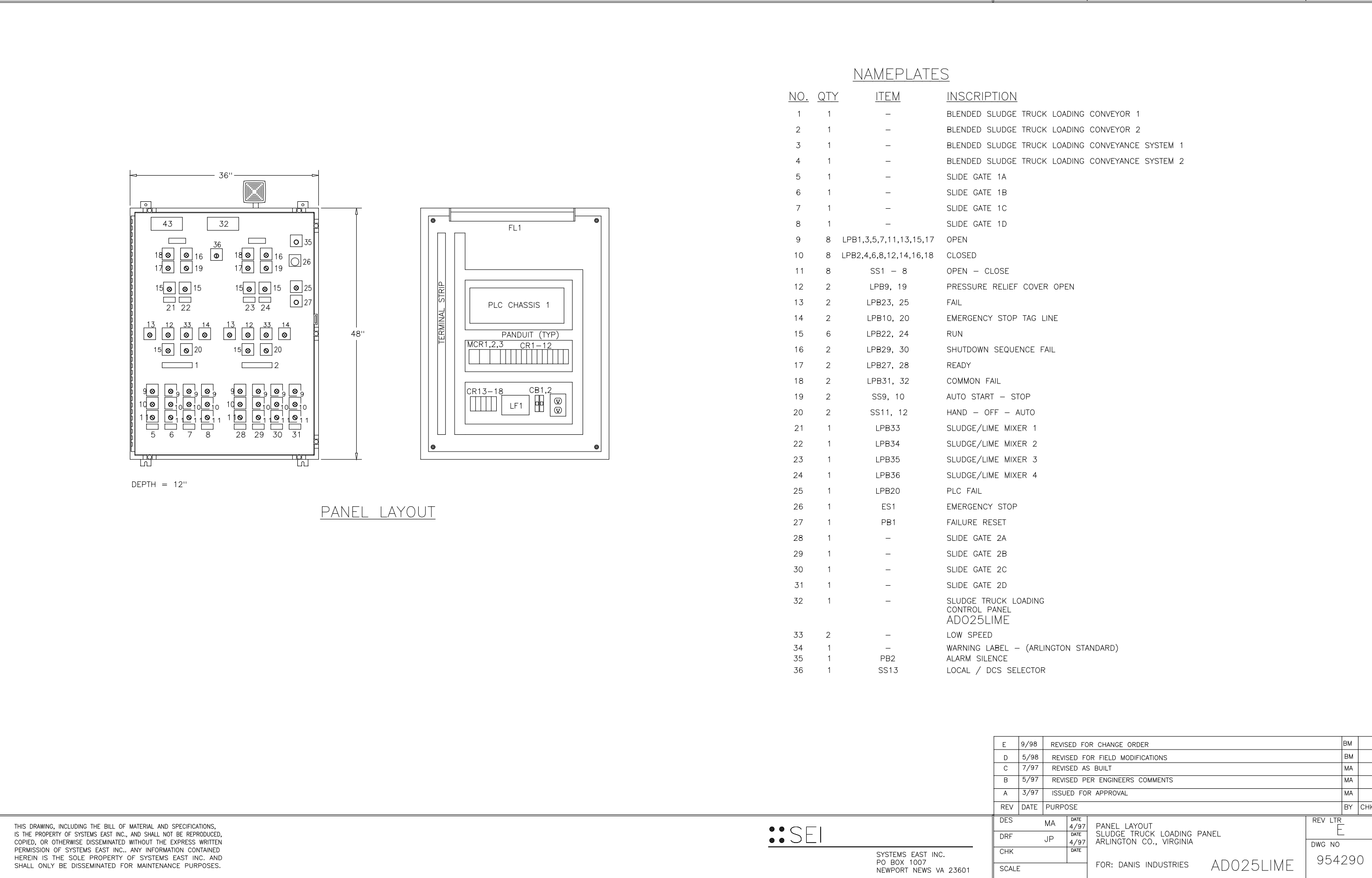
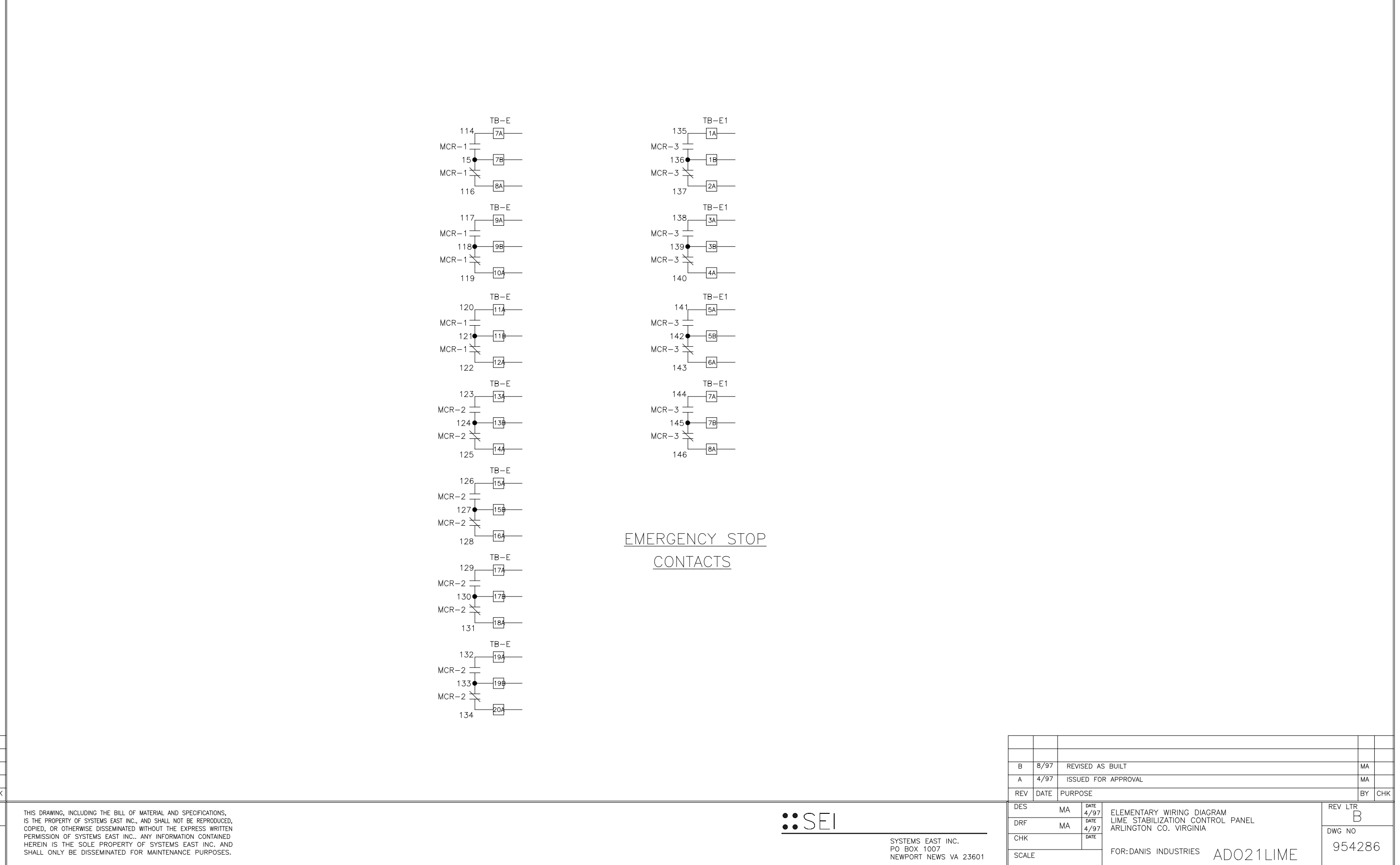
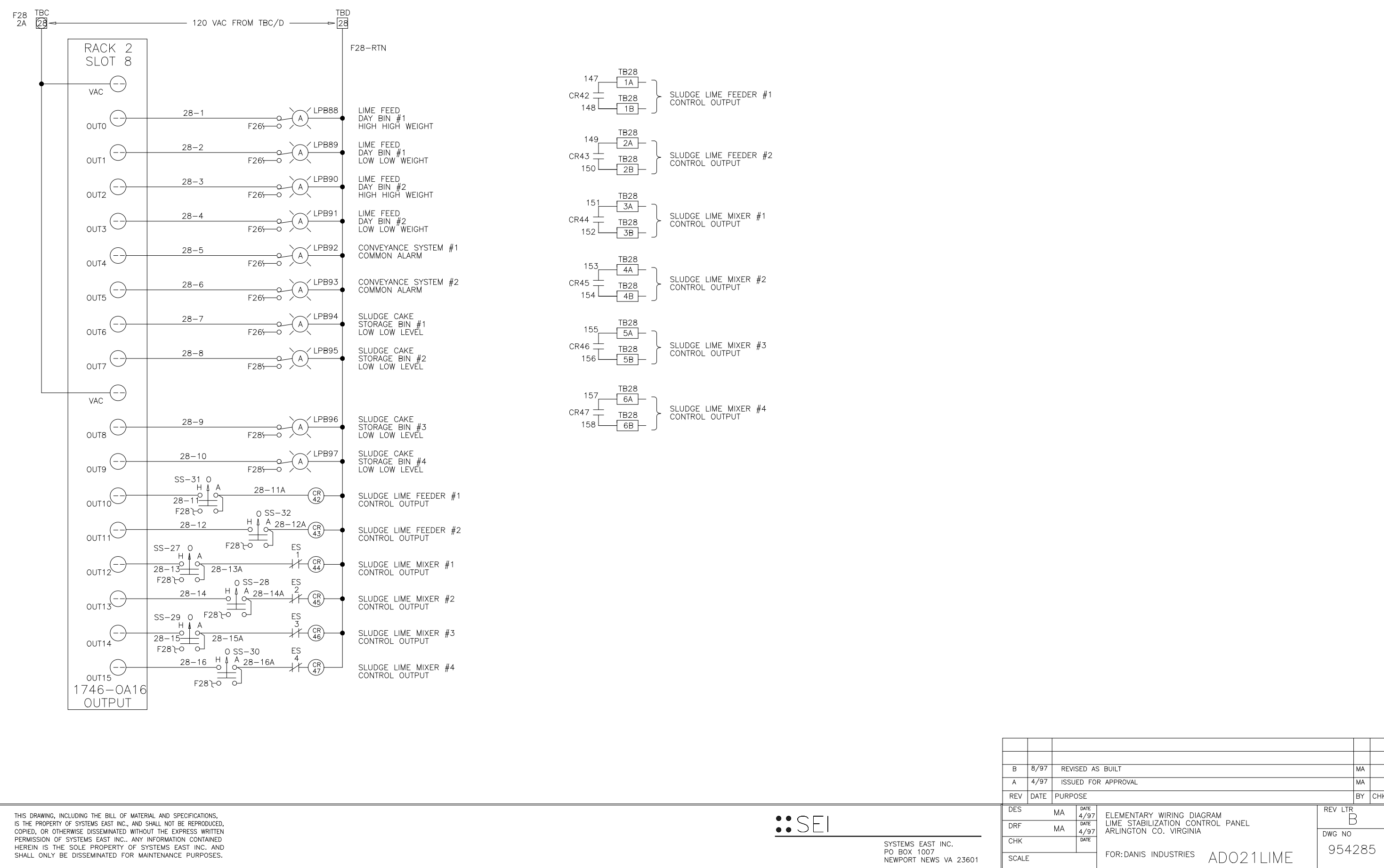


DES	MA	4/97	PANEL LAYOUT	REV LTR	E
DRF	JP	4/97	SLUDGE TRUCK LOADING PANEL	DWG NO	954290
CHK	MA	4/97	ARLINGTON CO, VIRGINIA	REV LTR	E
SCALE			FOR: DANIS INDUSTRIES	DWG NO	954290

DES	MA	4/97	POWER WIRING DIAGRAM	REV LTR	B
DRF	MA	4/97	SLUDGE TRUCK LOADING PANEL	DWG NO	954291
CHK	MA	4/97	ARLINGTON CO, VIRGINIA	REV LTR	B
SCALE			FOR: DANIS INDUSTRIES	DWG NO	954291

DESIGNED	MKS	<p>THIS DRAWING HAS BEEN COMPILED BY HAZEN AND SAWYER, P.C.</p>	<p>HAZEN AND SAWYER Environmental Engineers & Scientists RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA</p>	<p>ARLINGTON COUNTY WATER POLLUTION CONTROL PLANT UPGRADE AND EXPANSION - PHASE III A SOLIDS PROCESSING FACILITIES</p>	<p>GENERAL PROCESS AND INSTRUMENTATION</p>	<p>DATE JULY 99 H & S JOB NUMBER 2843 CONTRACT NUMBER 93-02-WPC DRAWING NUMBER IP-29 SHEET 31AC OF 199</p>
DRAWN						
CHECKED						
PROJ. ENGR.						
NO.	ISSUED FOR	DATE	BY	APPROVED	THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	

RECORD DRAWING



REVISION	ADDED	5/27/04	JJ	DESIGNED	
	MANUAL PULL-CORD INTERLOCK			DRAWN	MKS
				CHECKED	
				PROJ. ENGR.	
				APPROVED	

THIS DRAWING HAS BEEN COMPILED BY HAZEN AND SAWYER, P.C.

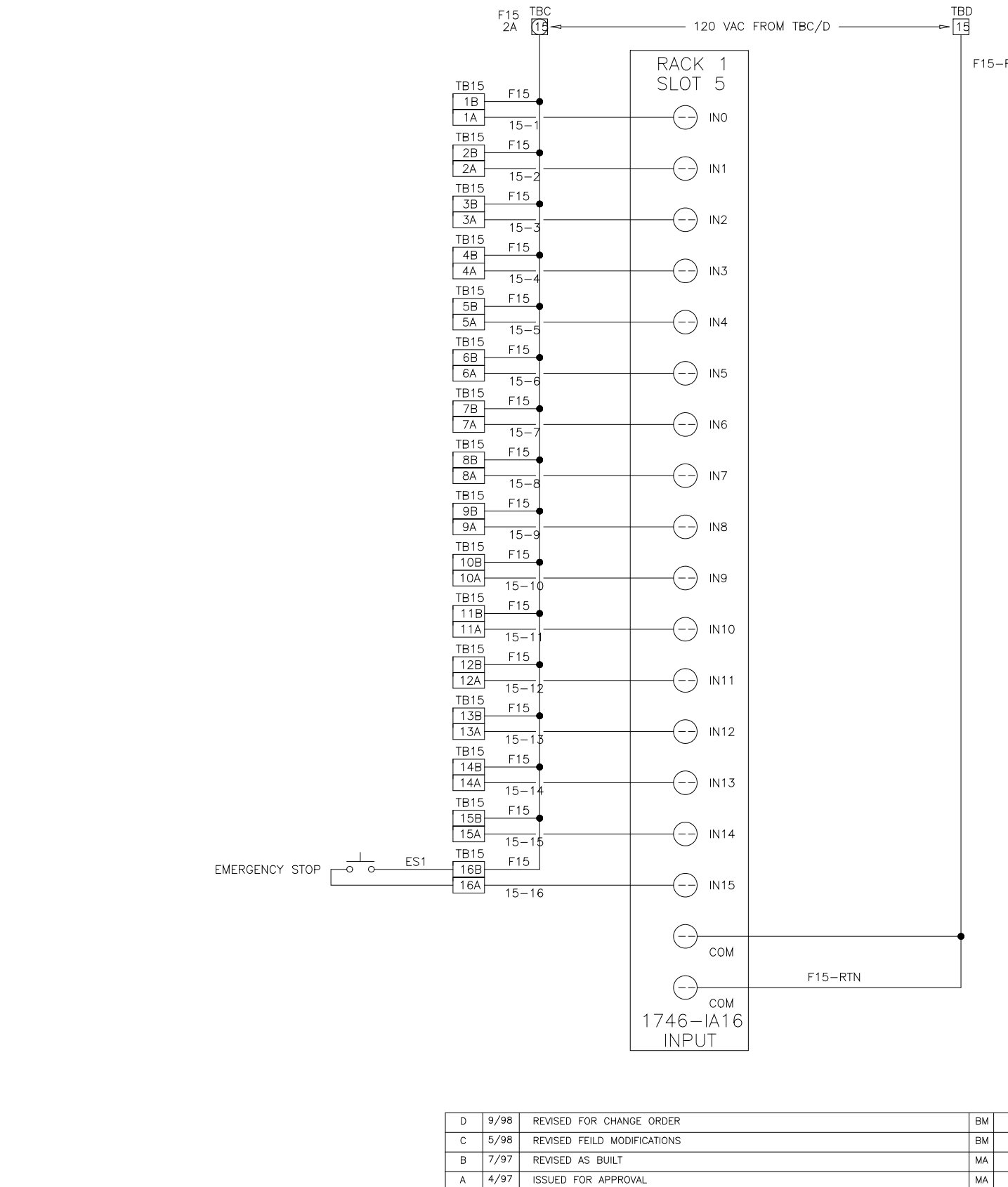
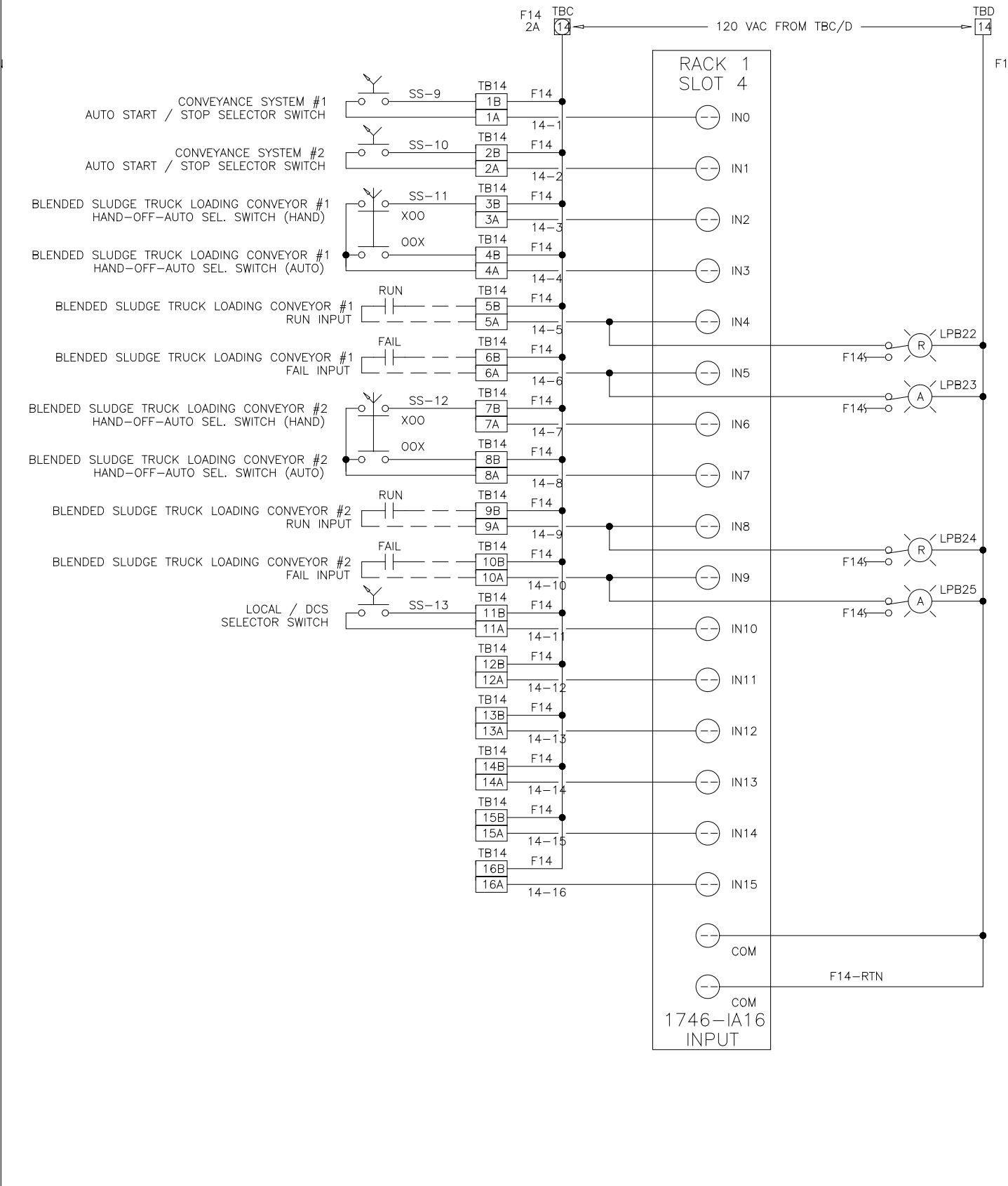
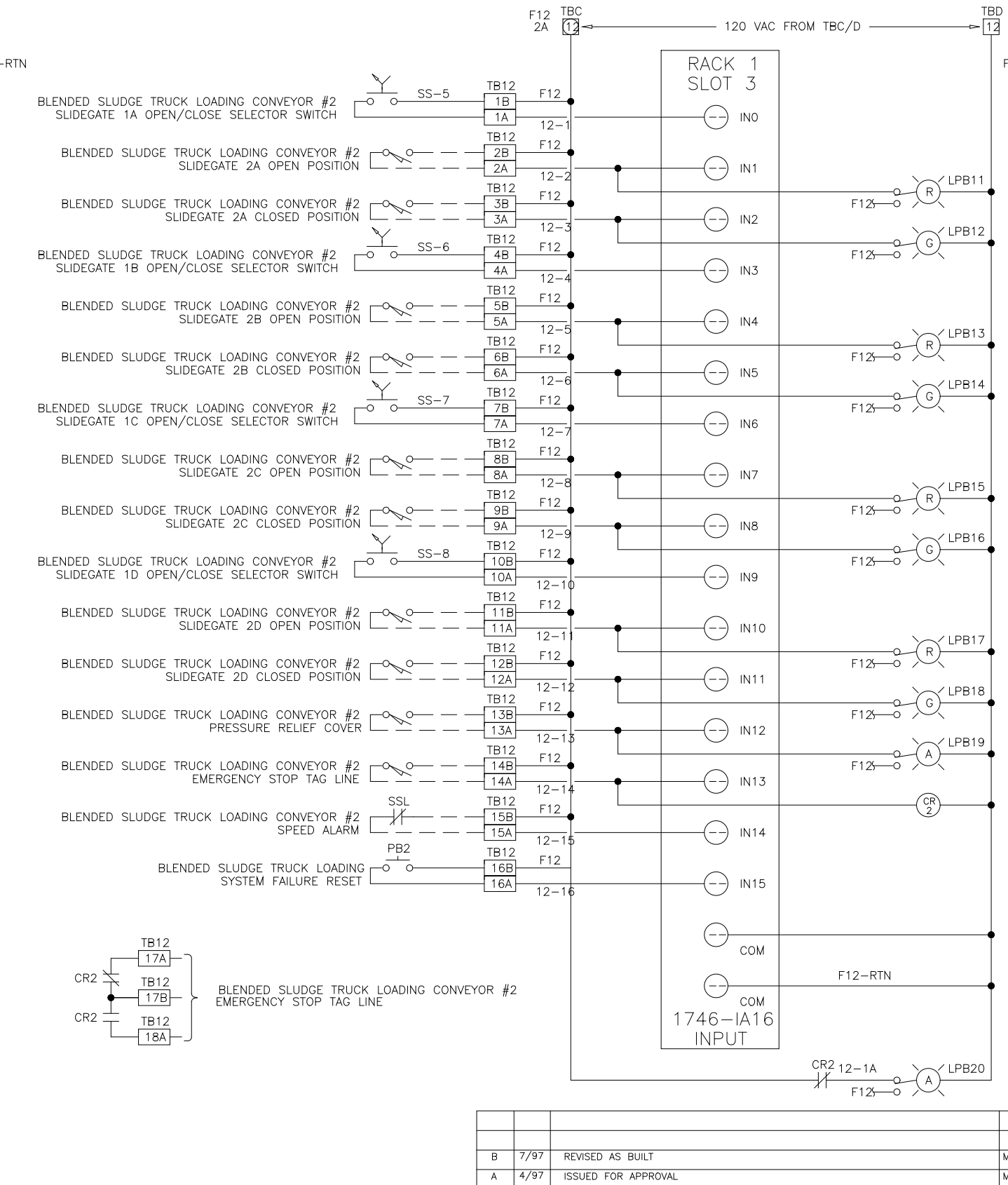
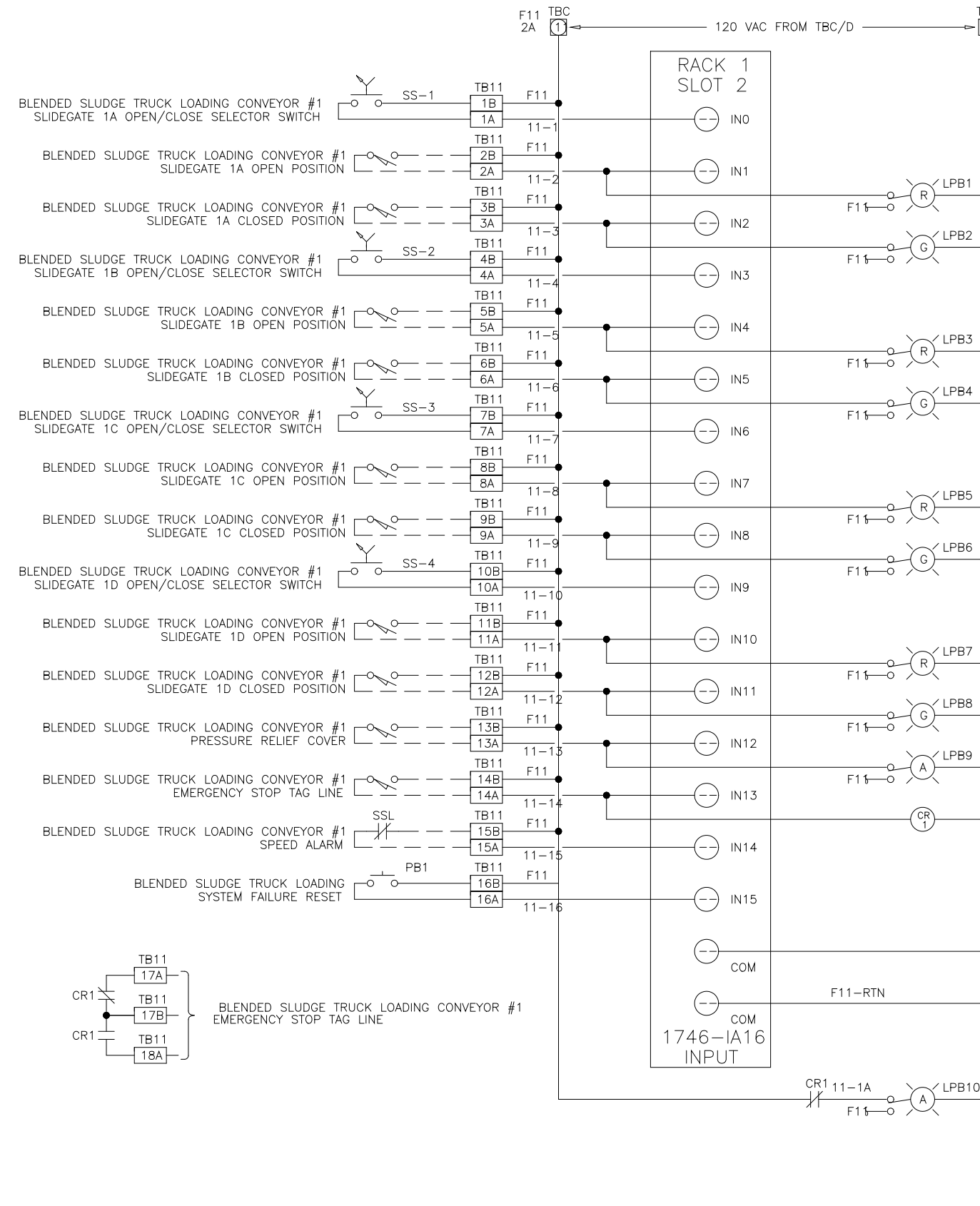
HAZEN AND SAWYER Environmental Engineers & Scientists RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY WATER POLLUTION CONTROL PLANT UPGRADE AND EXPANSION - PHASE III A SOLIDS PROCESSING FACILITIES

GENERAL PROCESS AND INSTRUMENTATION

DATE: JULY 99
H & S JOB NUMBER: 2843
CONTRACT NUMBER: 93-02-WPC
DRAWING NUMBER: IP-29
SHEET 31AC OF 199

RECORD DRAWING



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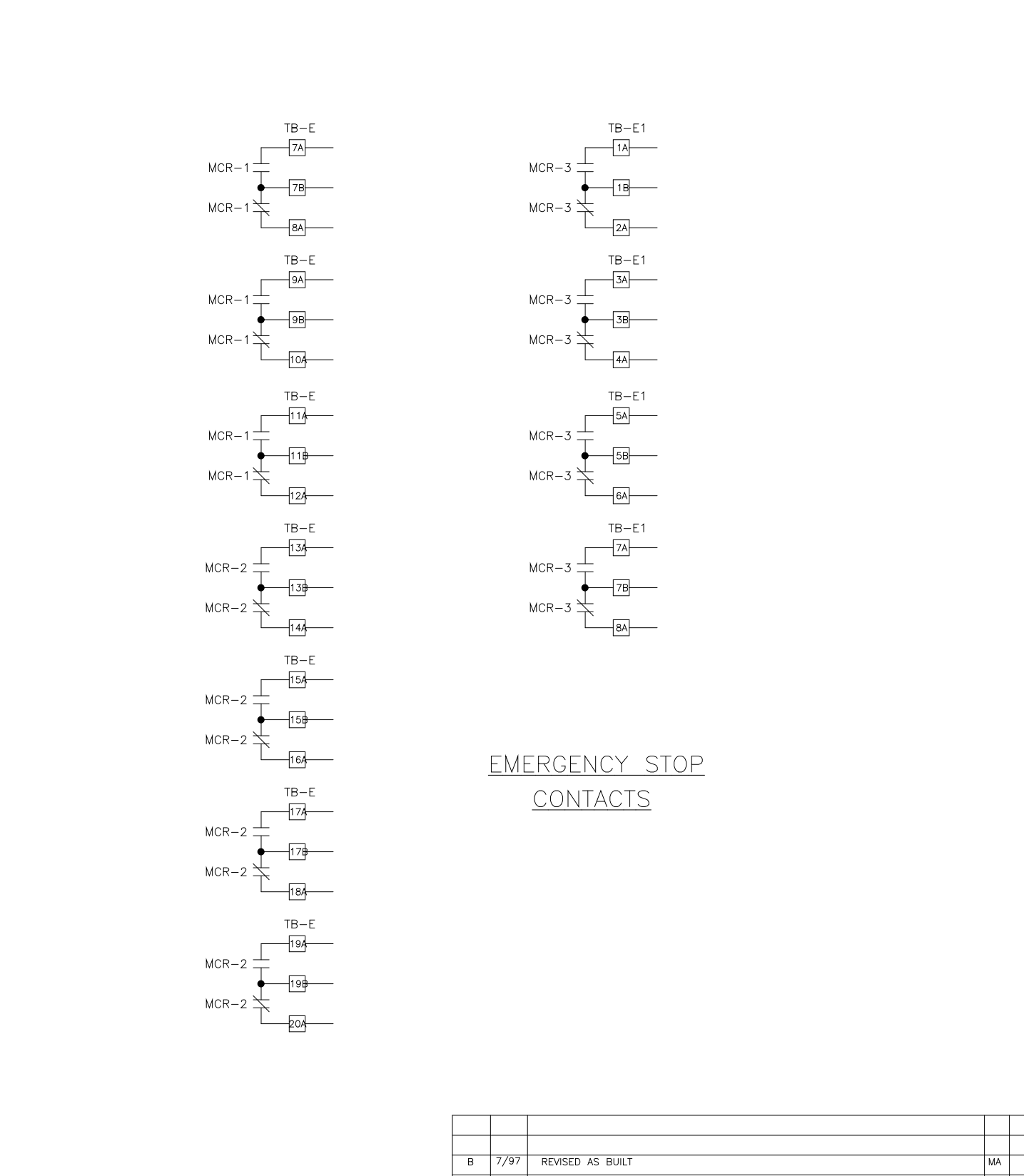
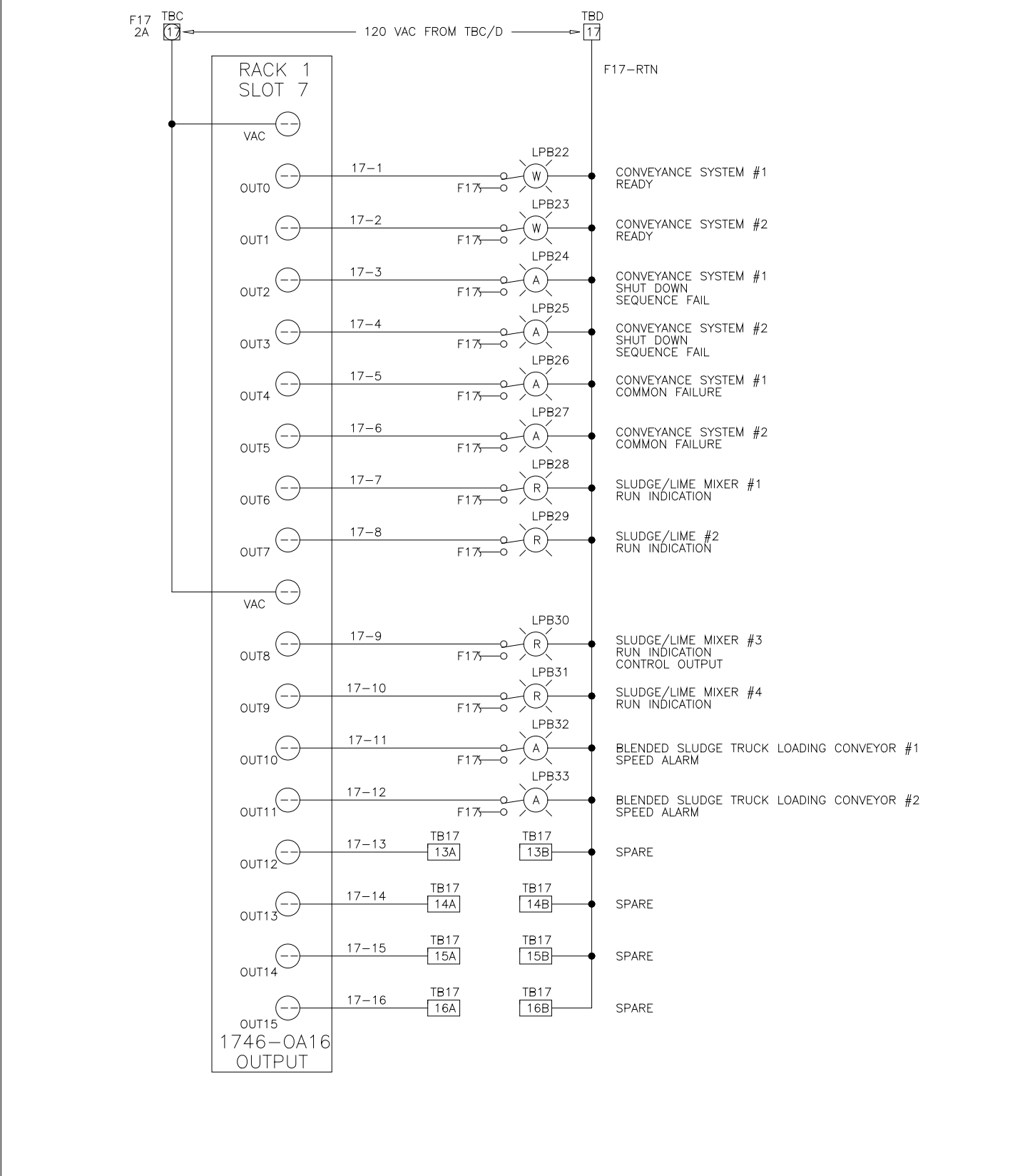
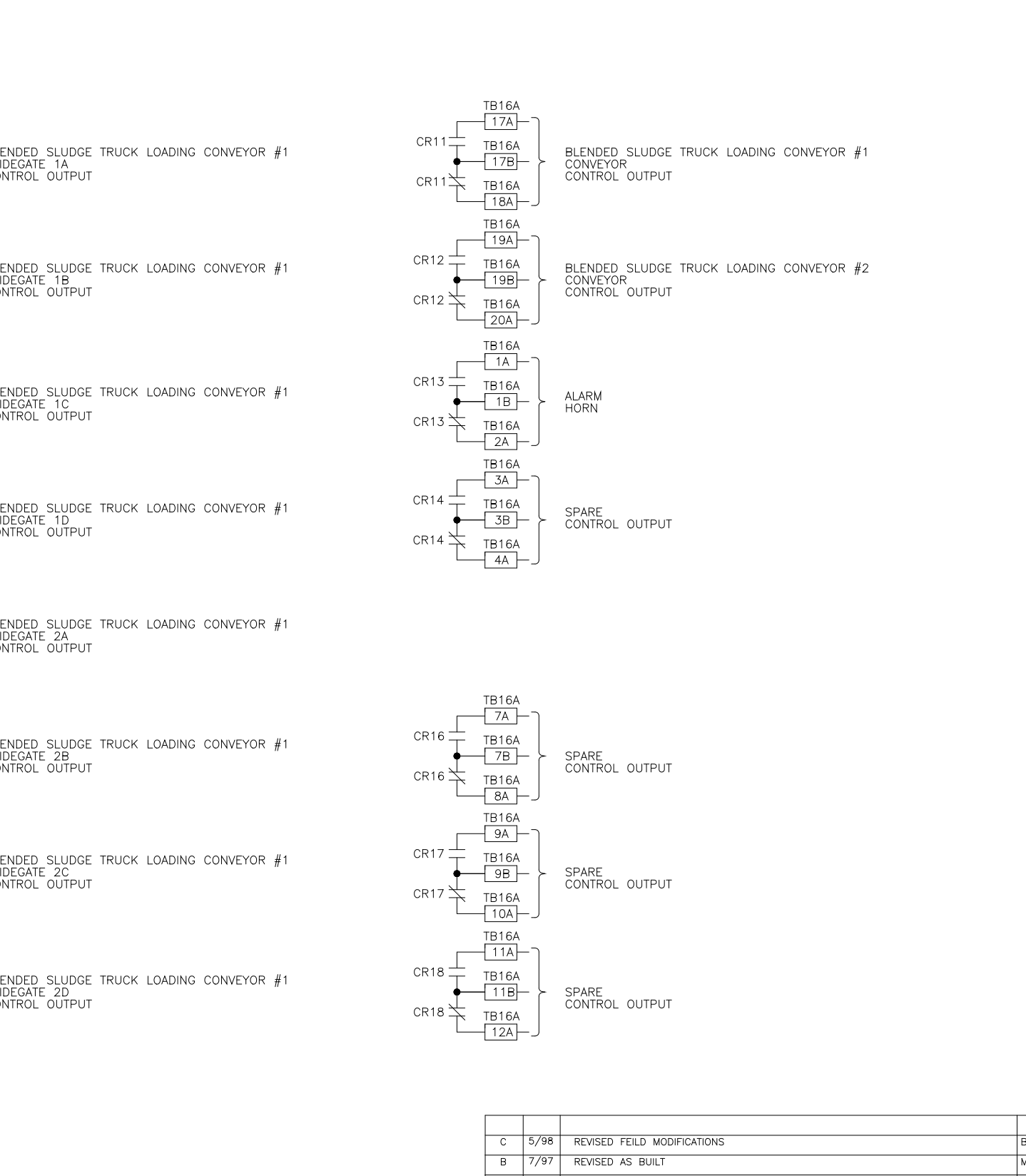
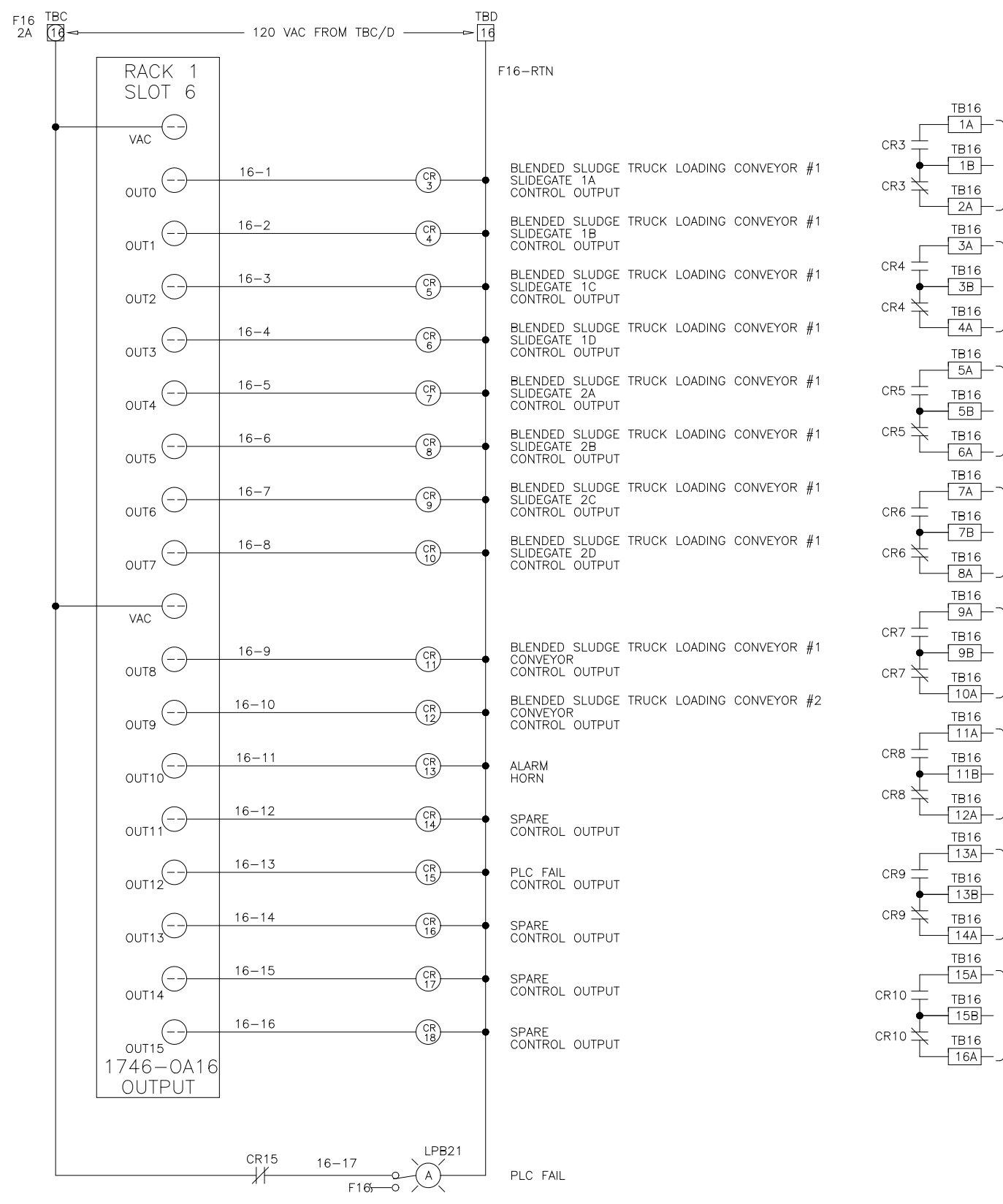
DES MA PSE 4/29/97 ELEMENTARY WIRING DIAGRAM
 DRP MA SAE 4/29/97 SLUDGE TRUCK LOADING CONTROL PANEL
 CHK MA SAE 4/29/97 ARLINGTON CO. VIRGINIA
 SCALE FOR: DANIS INDUSTRIES ADO25LIME

REV LTR B
 DWG NO 954292

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DES MA PSE 4/29/97 ELEMENTARY WIRING DIAGRAM
 DRP MA SAE 4/29/97 SLUDGE TRUCK LOADING CONTROL PANEL
 CHK MA SAE 4/29/97 ARLINGTON CO. VIRGINIA
 SCALE FOR: DANIS INDUSTRIES ADO25LIME

REV LTR D
 DWG NO 954293



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DES MA PSE 4/29/97 ELEMENTARY WIRING DIAGRAM
 DRP MA SAE 4/29/97 LIME STABILIZATION CONTROL PANEL
 CHK MA SAE 4/29/97 ARLINGTON CO. VIRGINIA
 SCALE FOR: DANIS INDUSTRIES ADO25LIME

REV LTR C
 DWG NO 954294

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DES MA PSE 4/29/97 ELEMENTARY WIRING DIAGRAM
 DRP MA SAE 4/29/97 SLUDGE TRUCK LOADING CONTROL PANEL
 CHK MA SAE 4/29/97 ARLINGTON CO. VIRGINIA
 SCALE FOR: DANIS INDUSTRIES ADO25LIME

REV LTR B
 DWG NO 954295

DESIGNED	MKS
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
NO.	ISSUED FOR
	DATE
	BY
	APPROVED

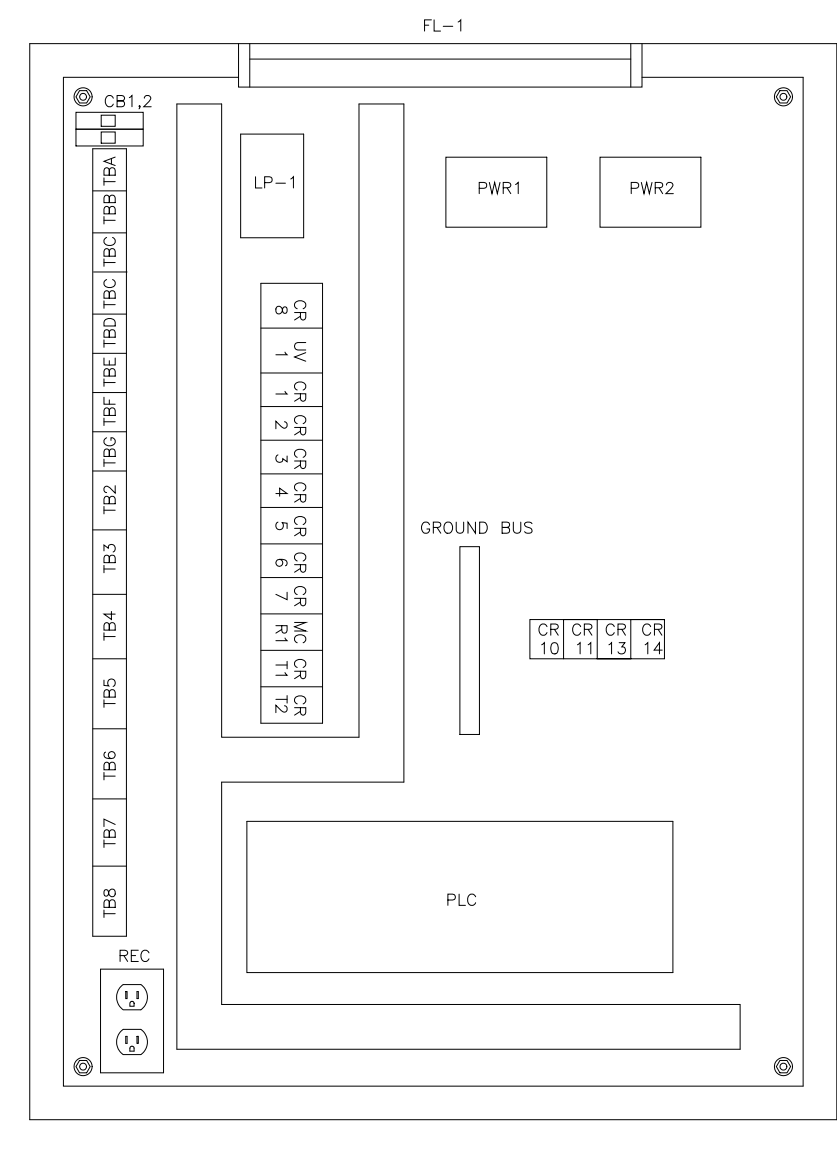
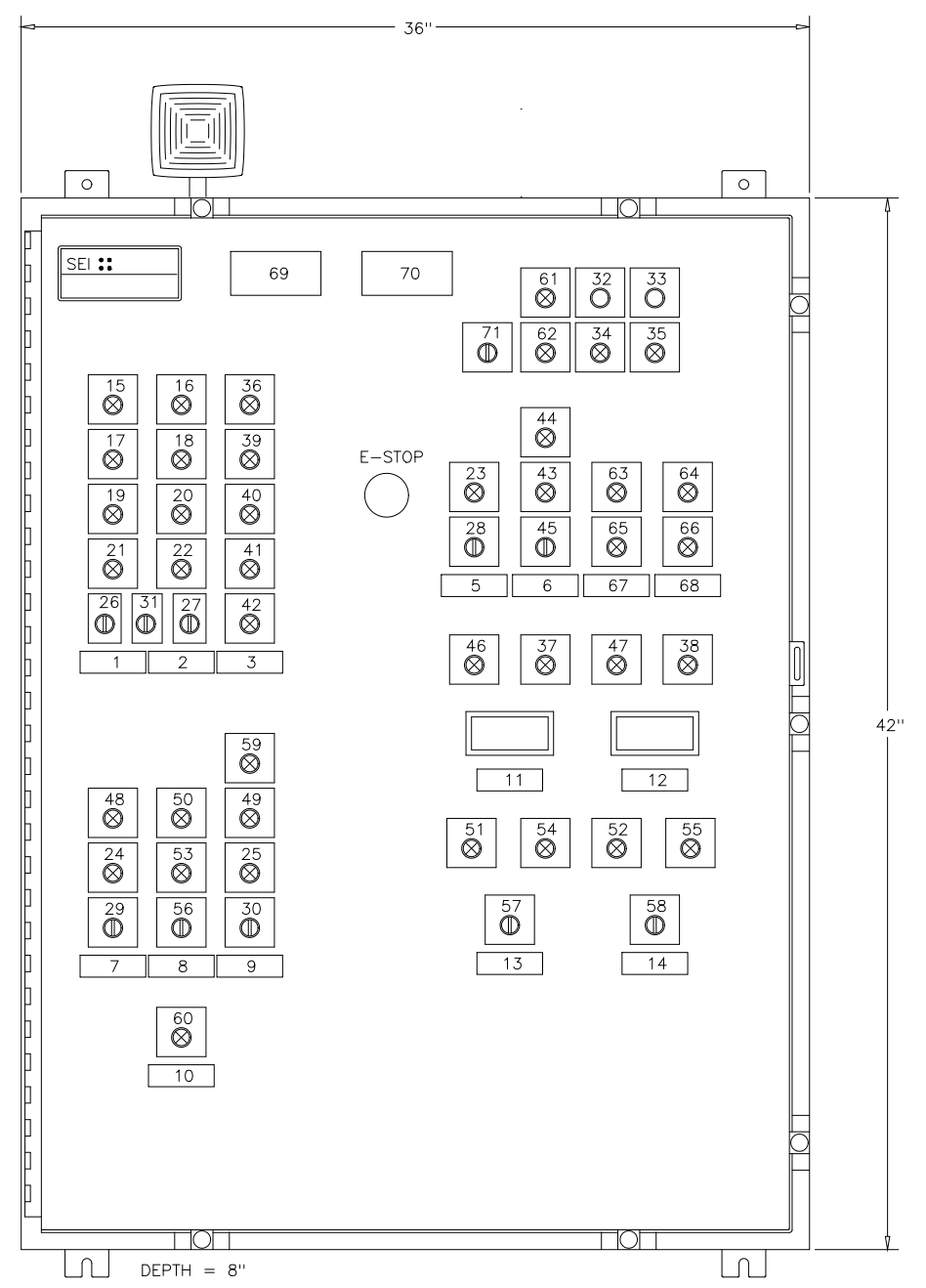
THIS DRAWING HAS BEEN COMPILED BY
HAZEN AND SAWYER, P.C.

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-30
SHEET	31AD OF 199

RECORD DRAWING

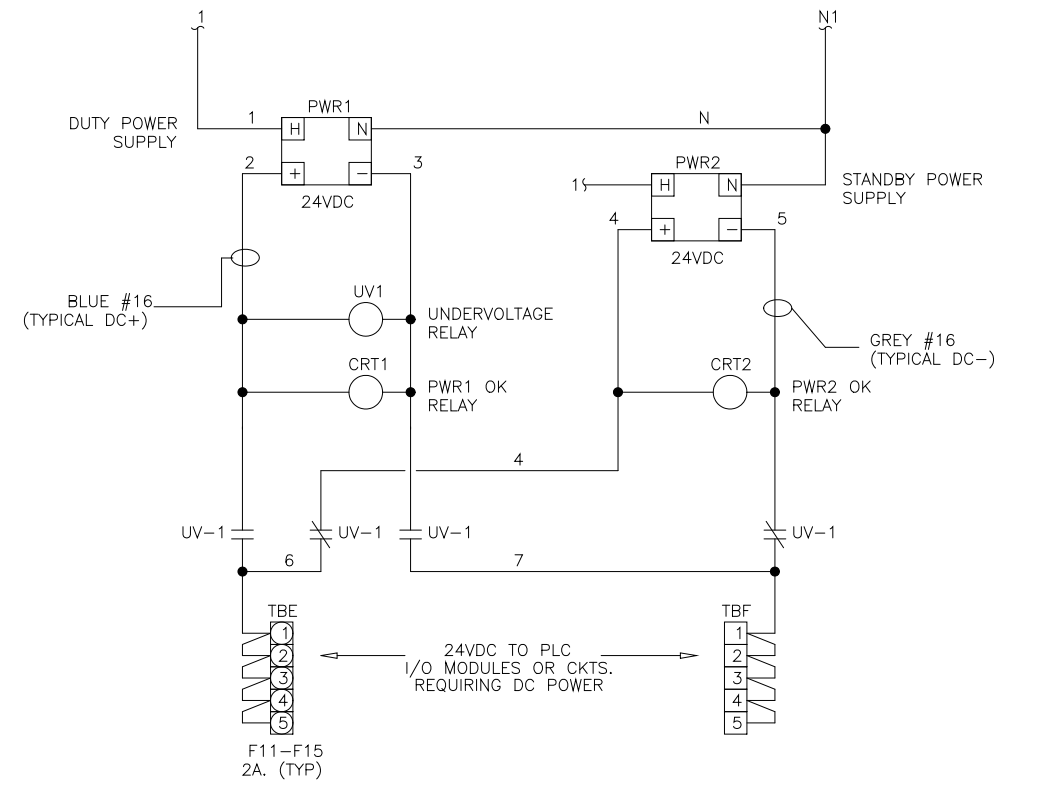
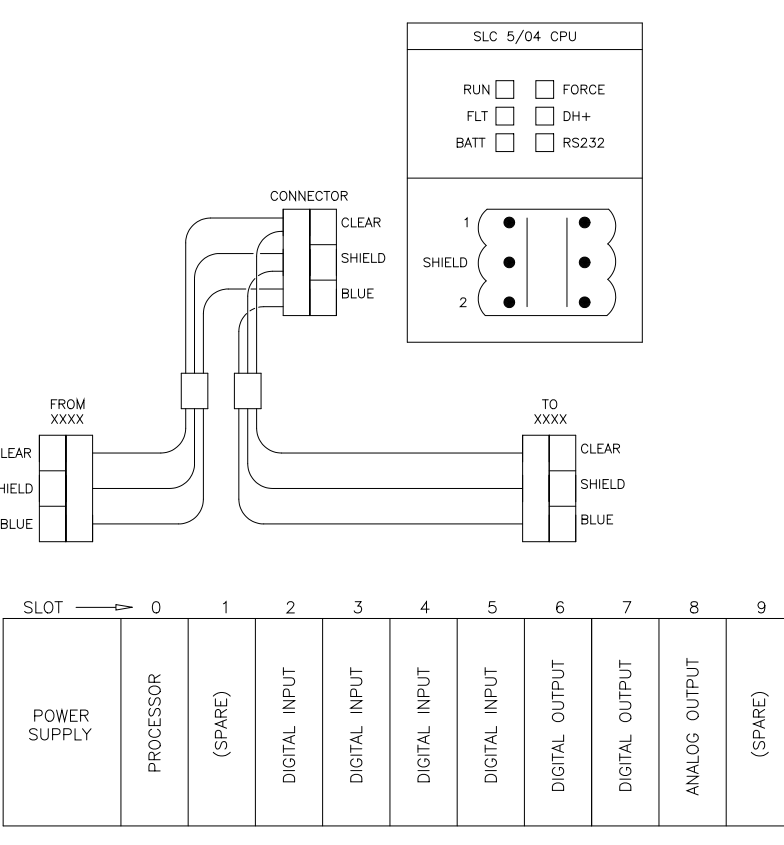
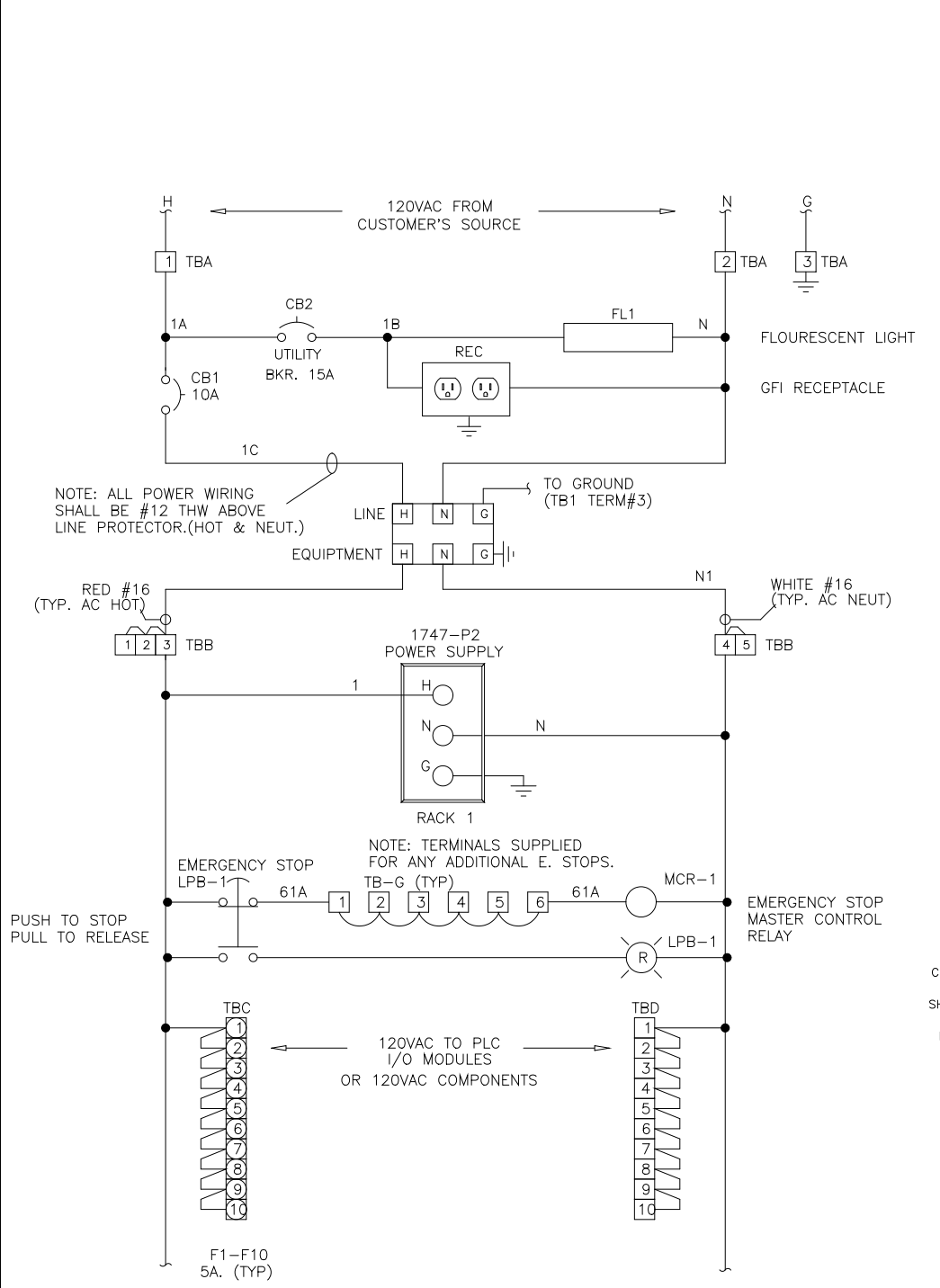
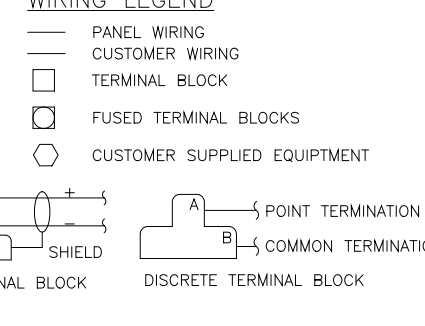


NO	ITEM	INSCRIPTION	NO	ITEM	INSCRIPTION
1	--	XFR. BLOWER 1	36	L10	HIGH-HIGH
2	--	XFR. BLOWER 2	37	L30	HIGH-HIGH
3	--	LIME SILO	38	L41	HIGH-HIGH
4	--	POWER SUPPLY	39	L11	SILO FULL
5	--	DUST COLLECTOR	40	L12	SILO 2/3 FULL
6	--	DIVERTOR VALVE	41	L13	SILO 1/3 FULL
7	--	1=LIME TRANSFER	42	L14	SILO 1/4 FULL
8	--	2=TRUCK UNLOAD	43	L8	LIME TRANSFER
9	--	BIN ACTIVATOR	44	L9	TRUCK UNLOADING
10	--	SLIDE GATE	45	SS2	1 - 2
11	--	ROTIARY AIR LOCK	46	L31	LOW-LOW
12	--	VENT/TRANSITION HOPPER	47	L42	LOW-LOW
13	--	DAY BIN 1	48	L16	FAIL
14	--	DAY BIN 2	49	L18	FAIL
15	L28	MAJFUNCTION	50	L43	OPEN
16	L29	MAJFUNCTION	51	L33	OPEN
17	L36	HIGH PRESSURE	52	L39	OPEN
18	L38	HIGH PRESSURE	53	L44	CLOSED
19	L35	LOW PRESSURE	54	L34	CLOSED
20	L37	LOW PRESSURE	55	L40	CLOSED
21	L2	RUN	56	SS7	OPEN - CLOSE - AUTO
22	L3	RUN	57	SS3	OPEN - CLOSE - AUTO
23	L21	RUN	58	SS4	OPEN - CLOSE - AUTO
24	L15	RUN	59	L19	SPEED LOW
25	L17	RUN	60	L20	LOW LEVEL
26	SS5	HAND - OFF - AUTO	61	L46	EMERGENCY STOP INITIATED
27	SS6	HAND - OFF - AUTO	62	L45	PLC FAULT
28	SS7	HAND - OFF - AUTO	63	L4	OPEN
29	SS8	HAND - OFF - AUTO	64	L6	OPEN
30	SS9	HAND - OFF - AUTO	65	L5	CLOSED
31	SS1	BLOWER 1 - BLOWER 2	66	L7	CLOSED
32	PB2	ALARM SILENCE	67	--	BLOWER AIR COUPLER
33	PB1	LIME TRANSFER_FAIL	68	--	LIME TRANSFER COUPLER
34	L22	POWER SUPPLY #1	69	--	WARNING: MULTIPLE SOURCES OF POWER
35	L23	POWER SUPPLY #2	70	--	LIME TRANSFER CONTROL PANEL
			71	SS10	DCS - LOCAL SELECTOR

- SHOP NOTES:**
- ALL WIRING TAGGED WITH MACHINE PRINTED SLEEVES
 - ALL NAMEPLATES NOT CAPTURED BY DEVICES SUCH AS LIGHTS & SELECTOR SWITCHES SHALL BE ATTACHED WITH #12 STAINLESS STEEL MACHINE SCREWS. CAPTURED NAMEPLATES SHALL HAVE ADHESIVE BACKING.
 - WARNING NAMEPLATE SHALL BE OF RED 1/16" NAMEPLATE PLASTIC WITH WHITE LETTERS. THE "WARNING" SHALL BE 1" IN HEIGHT.
 - ALL INTERNAL PANEL COMPONENTS ARE IDENTIFIED WITH NAMEPLATES.
 - ALL WIRING TAGGED WITH MACHINE PRINTED SLEEVES.

PANEL WIRING COLOR CODE

COLOR CODE	WIRE TYPE
RED	AC HOT
WHITE	AC NEUTRAL
GREEN	AC GROUND
VOLTA	AC CONTROL
BLUE	DC POSITIVE
GRAY	DC NEGATIVE
ORANGE	DC CONTROL
CLEAR	SHIELDED SIGNAL POSITIVE
BLACK	SHIELDED SIGNAL NEGATIVE
RED	SHIELDED SIGNAL REFERENCE
YELLOW	FOREIGN VOLTAGES



REV	DATE	PURPOSE	BY	CHK
C	2/97	REVISED AS BUILT	JP	
B	12/96	REVISED PER ENGINEER'S COMMENTS	MA	
A	9/96	ISSUED FOR APPROVAL	MA	

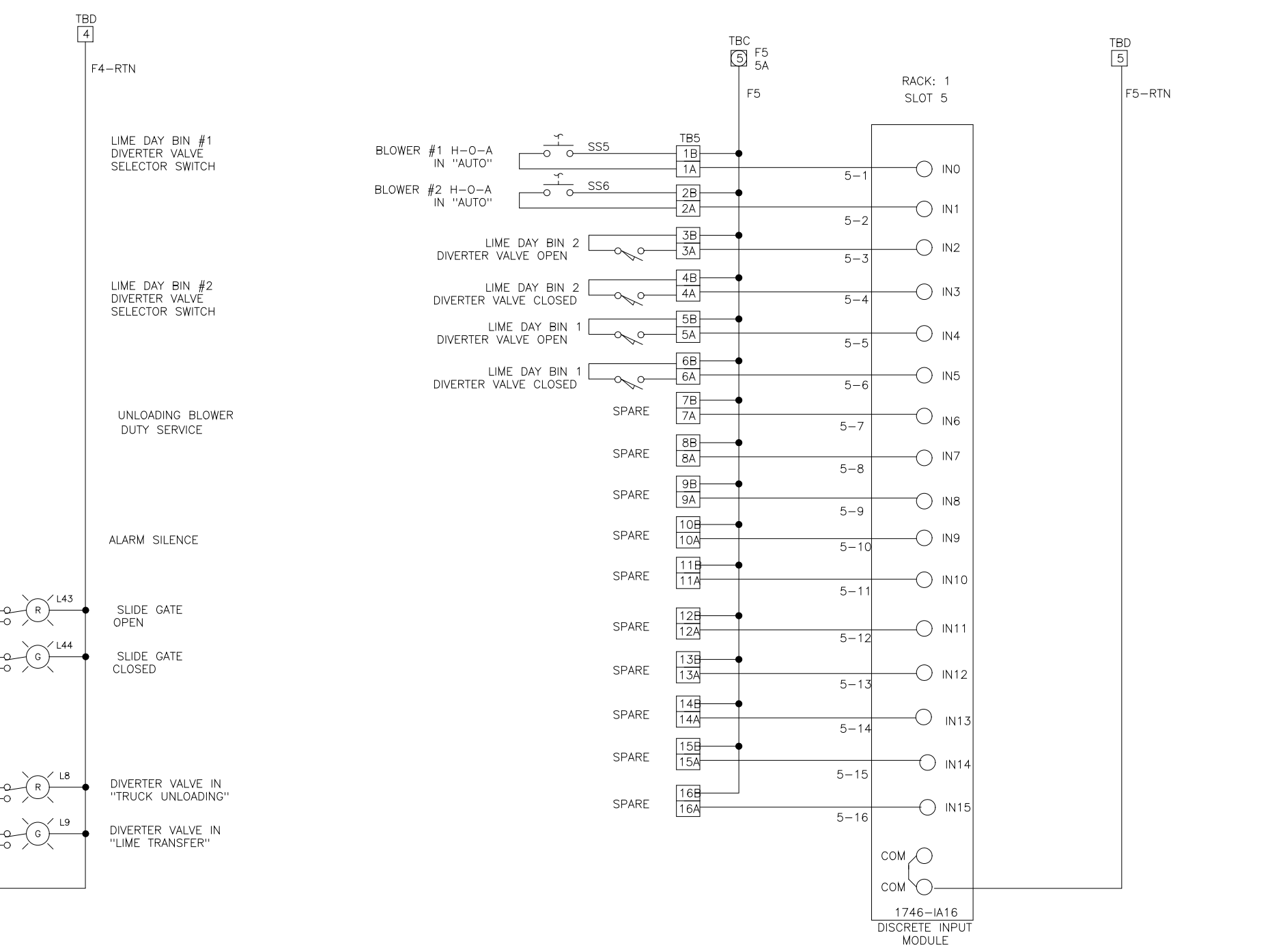
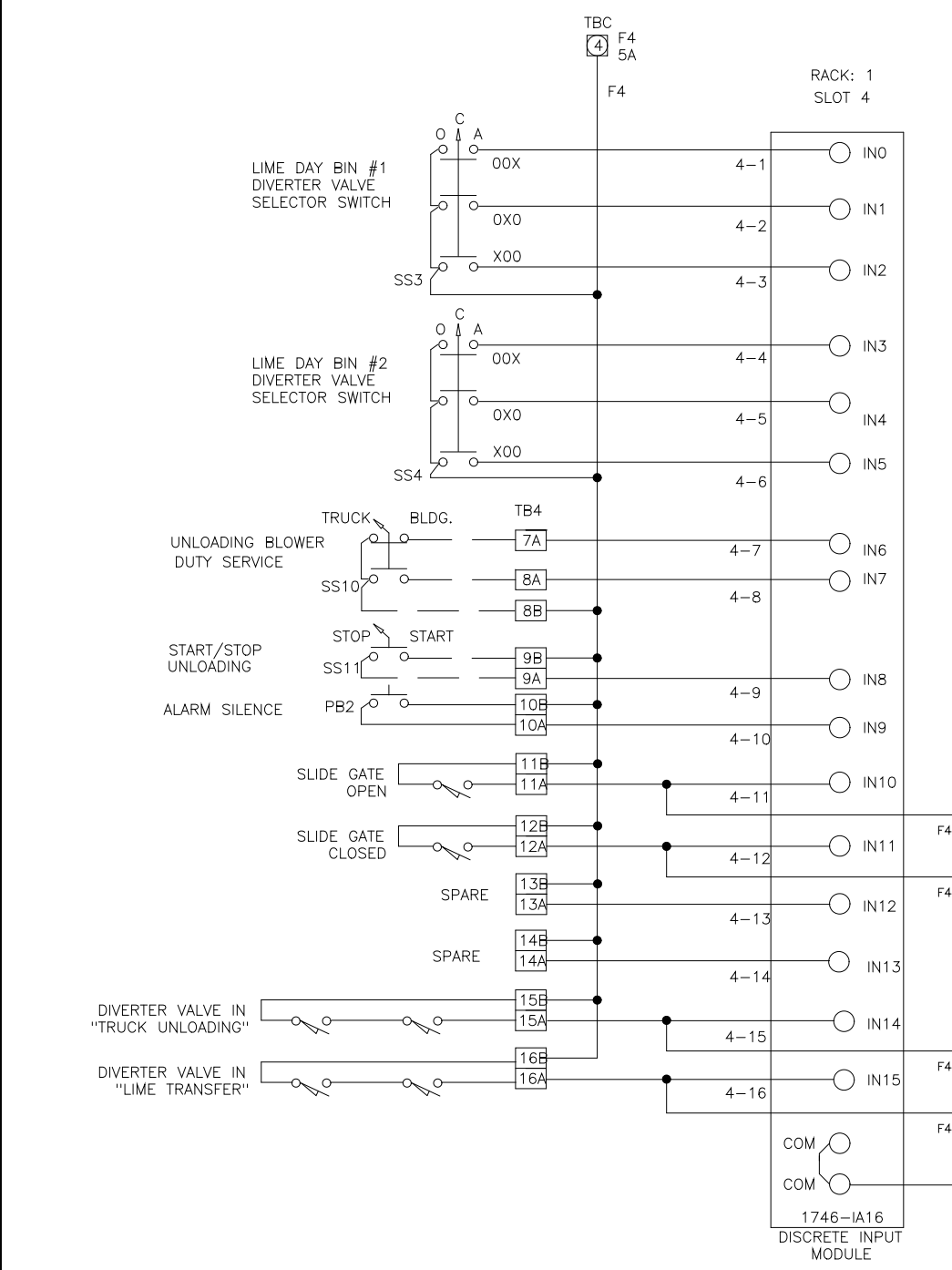
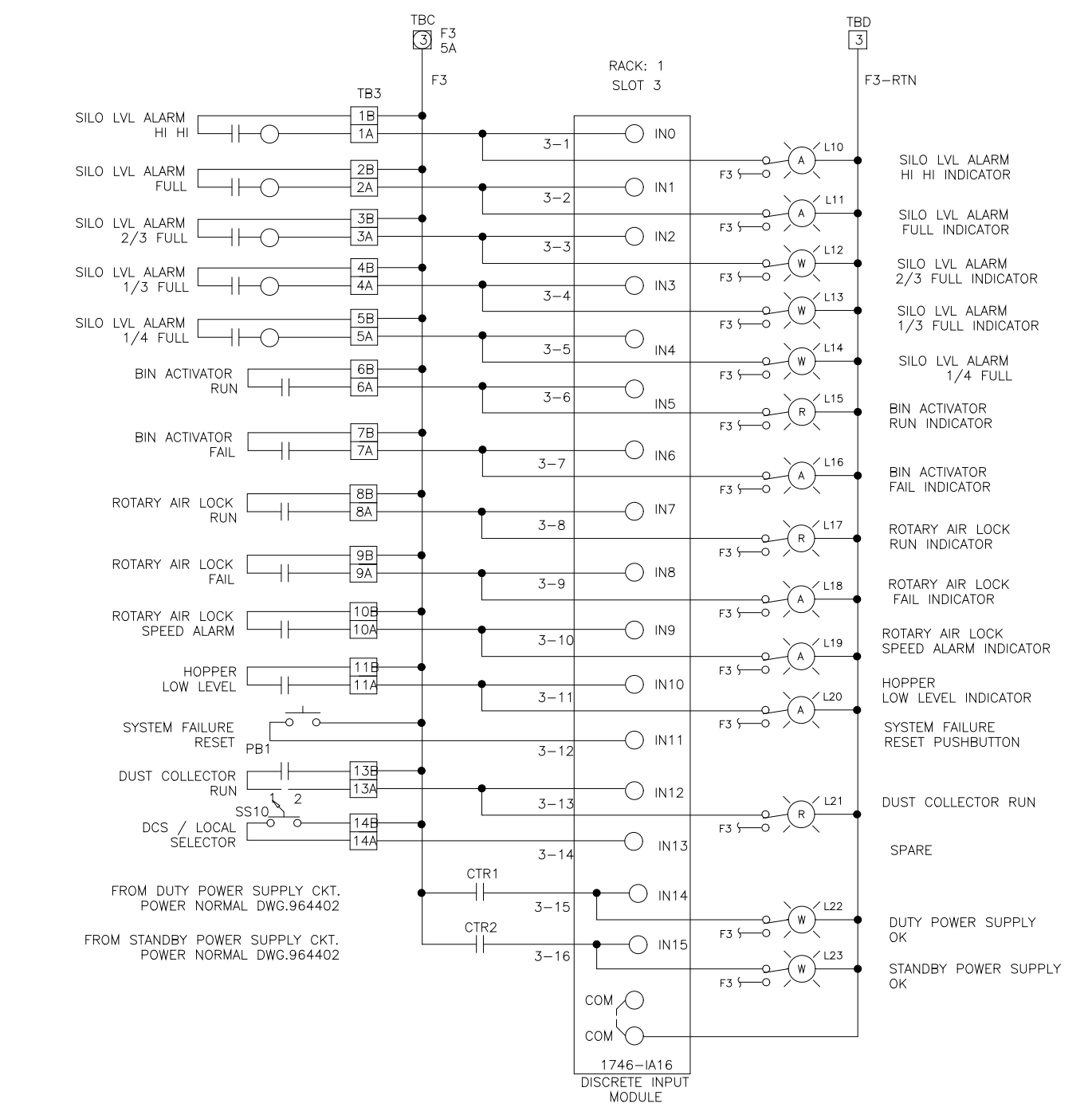
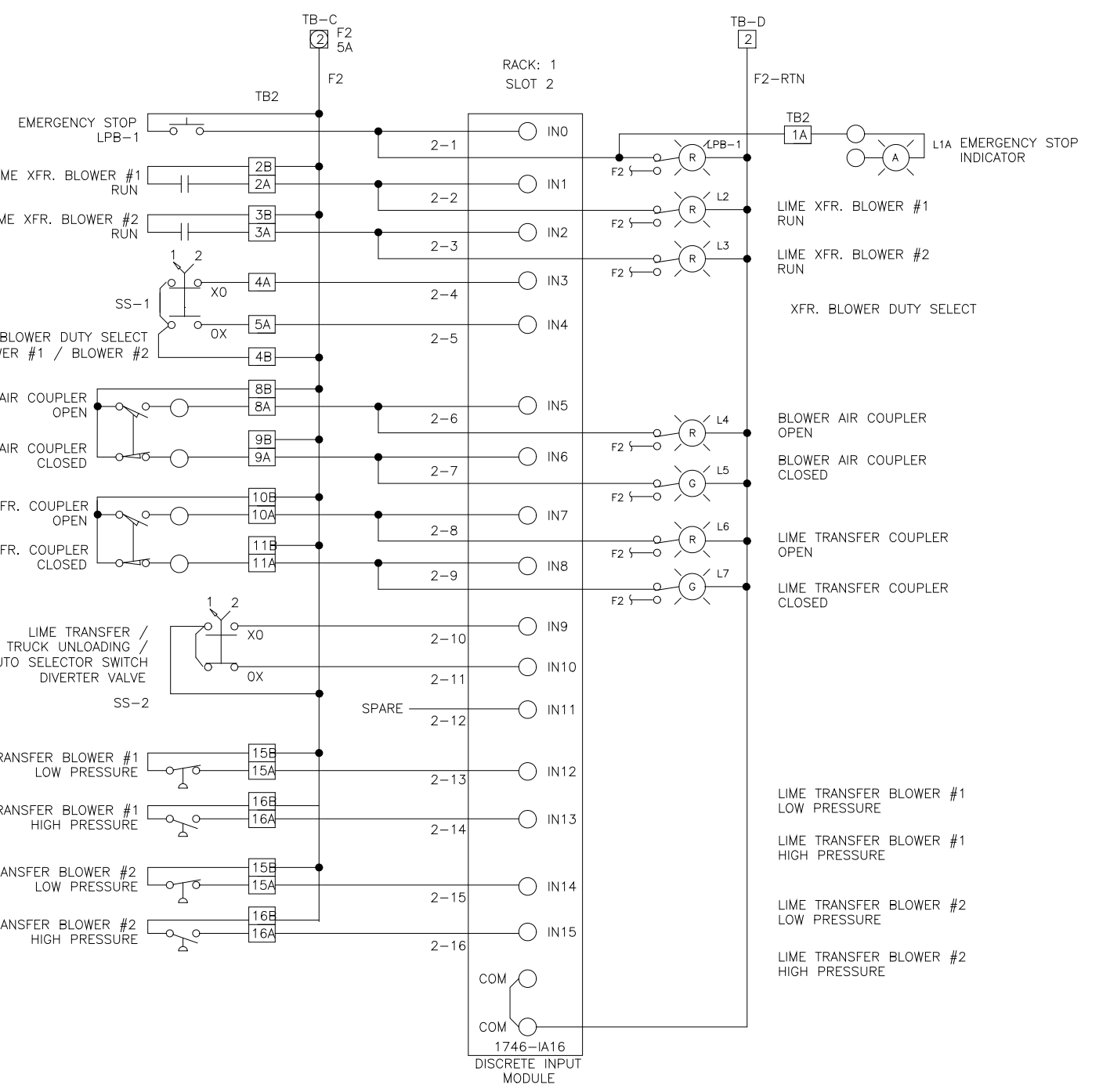
REV	DATE	PURPOSE	BY	CHK
D	9/98	REVISED FOR CHANGE ORDER	BM	
C	2/97	REVISED AS BUILT	JP	
B	11/96	REVISED PER ENGINEER'S COMMENTS	MA	
A	10/96	ISSUED FOR APPROVAL	MA	

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DES	MA	DATE	PANEL LAYOUT	REV LTR
DRF	MA	12/96	LIME TRANSFER CONTROL PANEL	D
CHK	MA	9/96	ARLINGTON CO., VIRGINIA	DWG NO
SCALE			HANDLING, INC. ADO23LIME	964401

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DES	MA	DATE	ELEMENTARY WIRING DIAGRAM	REV LTR
DRF	MA	9/96	LIME TRANSFER CONTROL PANEL	C
CHK	MA	9/96	ARLINGTON CO., VIRGINIA	DWG NO
SCALE			FOR: ENGINEERED MATERIAL HANDLING, INC. ADO23LIME	964402



SYMBOLS

- TERMINALS IN ADO22LIME PANEL
- TERMINALS IN ADO23LIME - 3 TIER TERMINALS
- ⊠ FUSE TERMINALS IN ADO23LIME

REV	DATE	PURPOSE	BY	CHK
E	7/98	REVISED FOR CHANGE ORDER	BM	
D	2/97	REVISED AS BUILT	JP	
C	12/96	REVISED FOR 120VAC PLC MODULES	MA	
B	11/96	REVISED PER ENGINEER'S COMMENTS	MA	
A	9/96	ISSUED FOR APPROVAL	MA	

DES	MA	DATE	ELEMENTARY WIRING DIAGRAM	REV LTR
DRF	MA	9/96	LIME TRANSFER CONTROL PANEL	E
CHK	MA	9/96	ARLINGTON CO., VIRGINIA	DWG NO
SCALE			FOR: ENGINEERED MATERIAL HANDLING, INC. ADO23LIME	964403

DES	MA	DATE	ELEMENTARY WIRING DIAGRAM	REV LTR
DRF	MA	9/96	LIME TRANSFER CONTROL PANEL	E
CHK	MA	9/96	ARLINGTON CO., VIRGINIA	DWG NO
SCALE			FOR: ENGINEERED MATERIAL HANDLING, INC. ADO23LIME	964404

NO.	ISSUED FOR	DATE	BY	APPROVED
DESIGNED	MKS			
DRAWN				
CHECKED				
PROJ. ENGR.				

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HAZEN AND SAWYER, P.C.

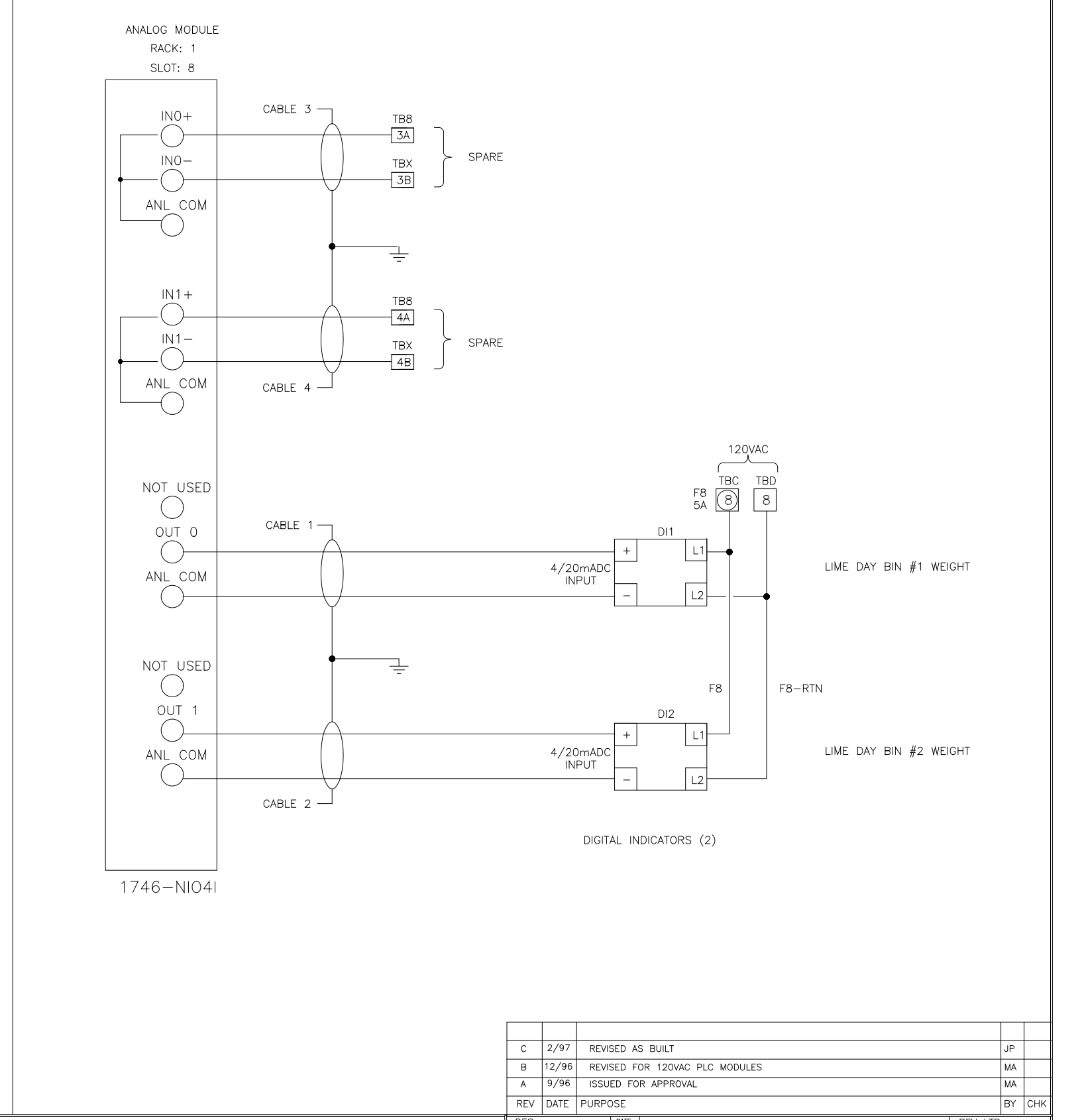
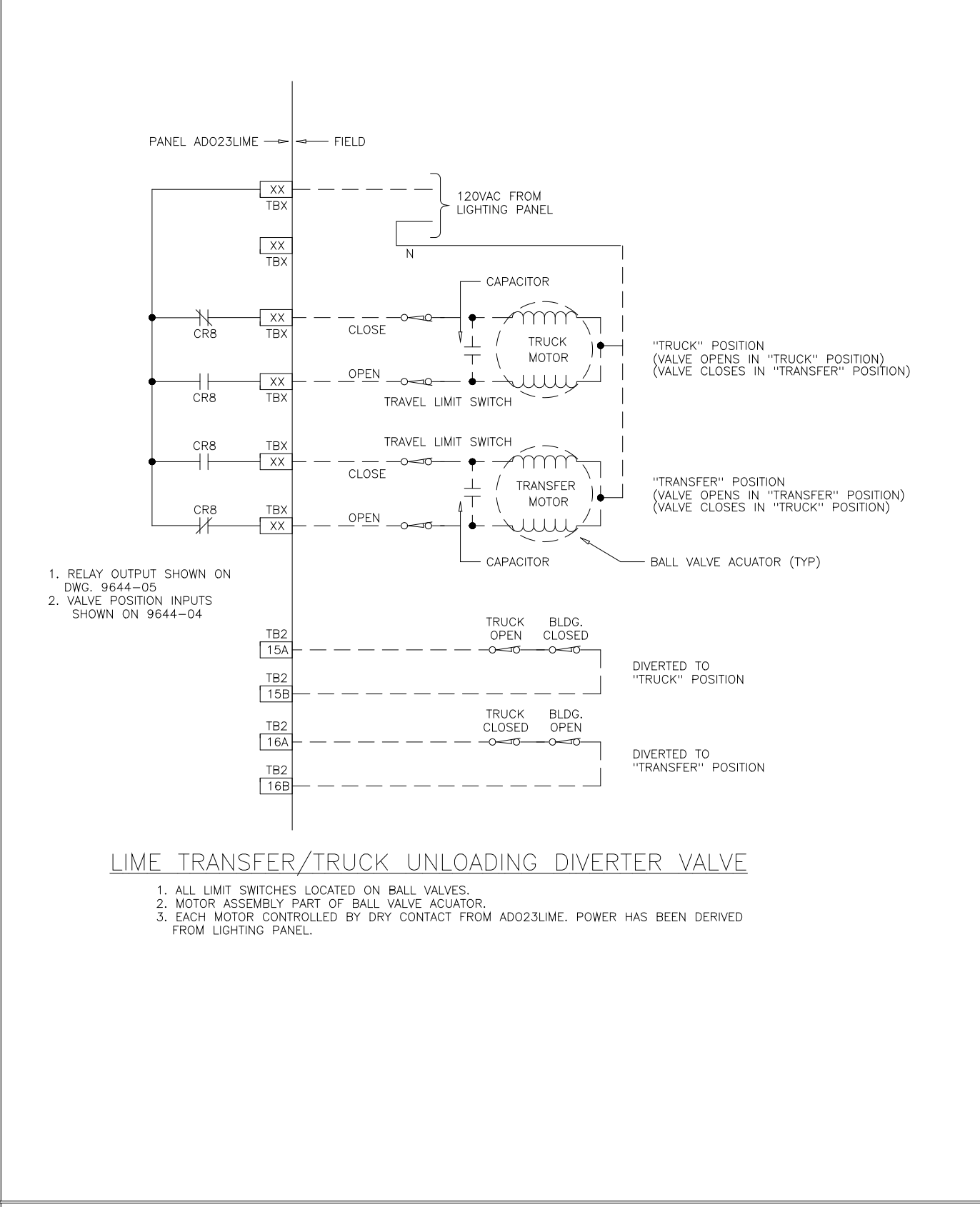
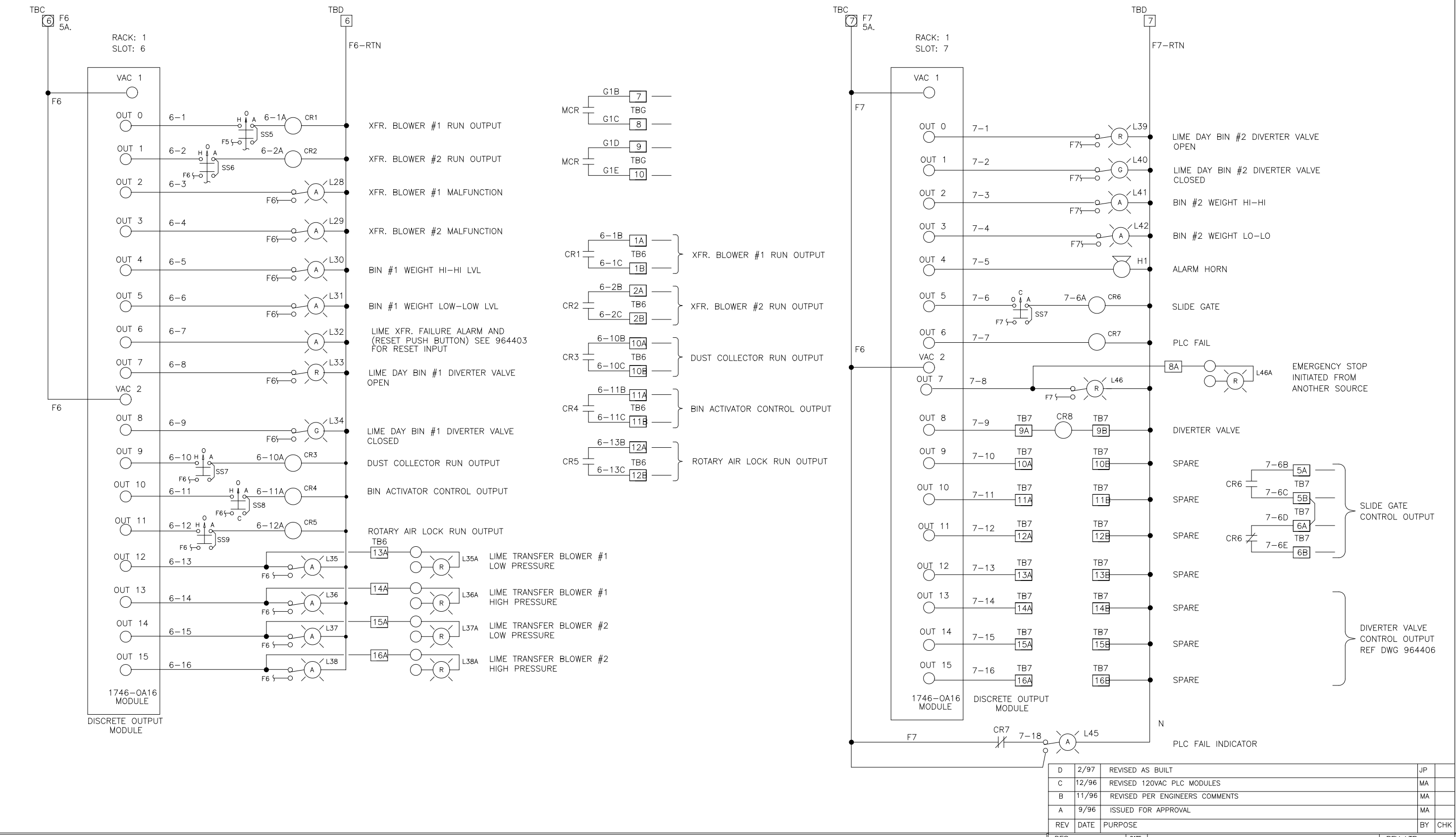
HAZEN AND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

DATE JULY 99
H & S JOB NUMBER 2843
CONTRACT NUMBER 93-02-WPC
DRAWING NUMBER IP-31
SHEET 31AE OF 199

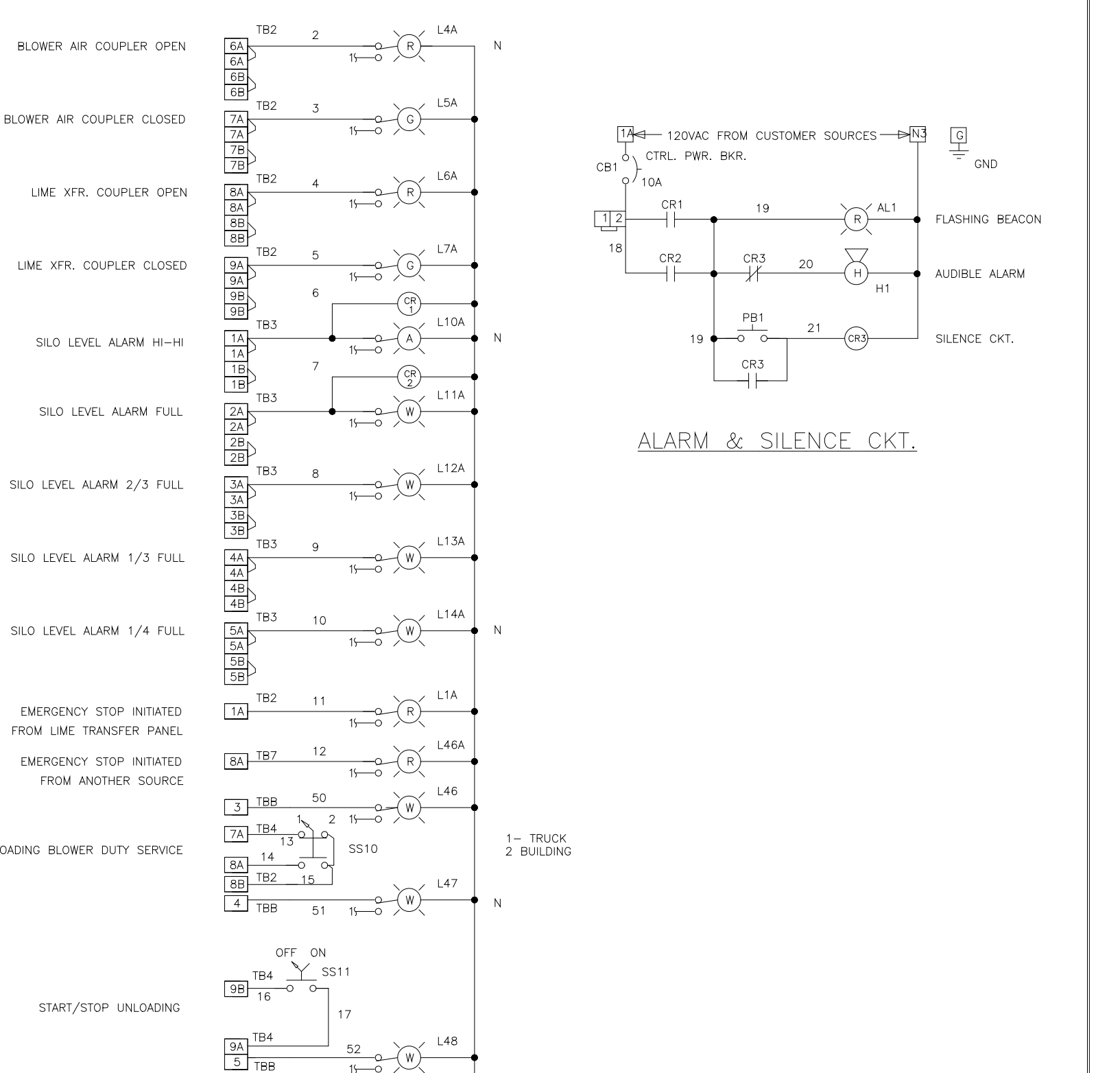
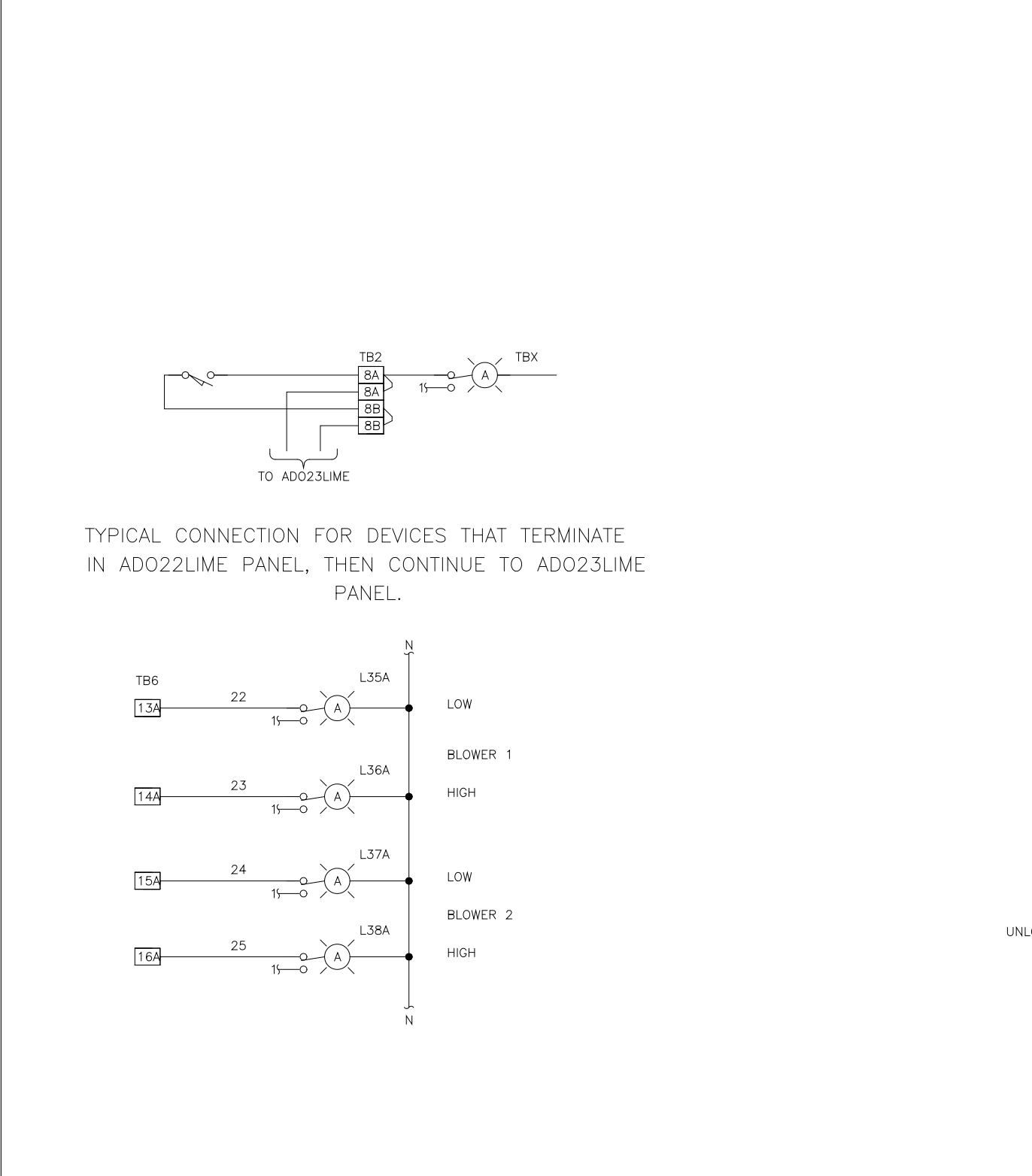
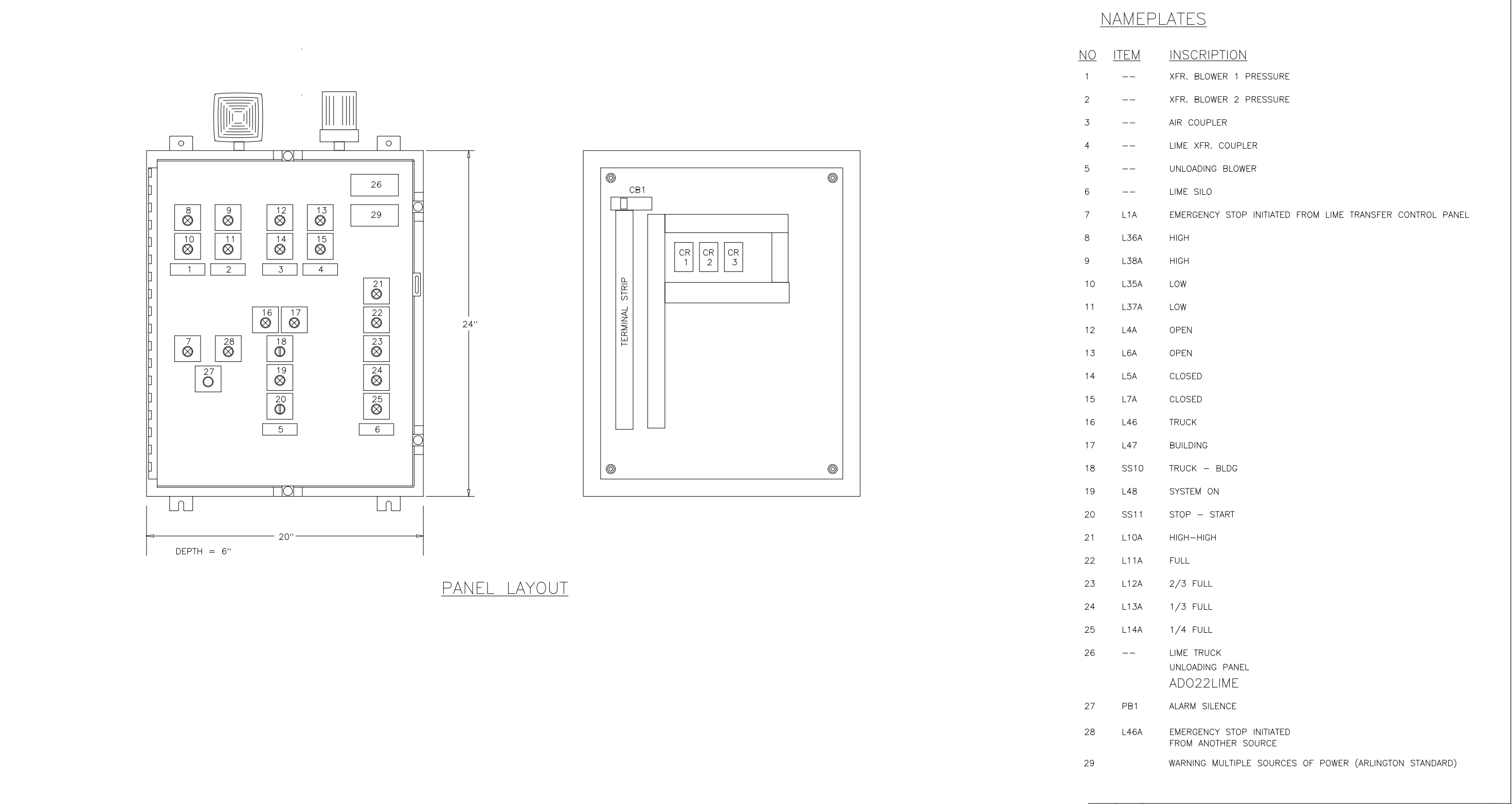
RECORD DRAWING



DES	MA	DATE	REVISED AS BUILT	JP
DRF	MA	12/96	REVISED 120VAC PLC MODULES	MA
CHK	MA	12/96	REVISED PER ENGINEER'S COMMENTS	MA
CHK	MA	9/96	ISSUED FOR APPROVAL	MA
REV DATE	PURPOSE	BY	CHK	

DES	MA	DATE	REVISED AS BUILT	JP
DRF	MA	12/96	REVISED PER ENGINEER'S COMMENTS	MA
CHK	MA	9/96	ISSUED FOR APPROVAL	MA
REV DATE	PURPOSE	BY	CHK	

DES	MA	DATE	REVISED AS BUILT	JP
DRF	MA	12/96	REVISED PER ENGINEER'S COMMENTS	MA
CHK	MA	9/96	ISSUED FOR APPROVAL	MA
REV DATE	PURPOSE	BY	CHK	



DES	MA	DATE	REVISED AS BUILT	JP
DRF	JP	12/96	REVISED PER ENGINEER'S COMMENT	MA
CHK	MA	10/96	ISSUED FOR APPROVAL	JP
REV DATE	PURPOSE	BY	CHK	

DES	MA	DATE	REVISED AS BUILT	JP
DRF	MA	12/96	REVISED PER ENGINEER'S COMMENTS	MA
CHK	MA	9/96	ISSUED FOR APPROVAL	MA
REV DATE	PURPOSE	BY	CHK	

DES	MA	DATE	REVISED AS BUILT	JP
DRF	MA	12/96	REVISED PER ENGINEER'S COMMENTS	MA
CHK	MA	9/96	ISSUED FOR APPROVAL	MA
REV DATE	PURPOSE	BY	CHK	

DES	MA	DATE	REVISED AS BUILT	JP
DRF	JP	12/96	REVISED PER ENGINEER'S COMMENT	MA
CHK	MA	10/96	ISSUED FOR APPROVAL	JP
REV DATE	PURPOSE	BY	CHK	

DES	MA	DATE	REVISED AS BUILT	JP
DRF	MA	12/96	REVISED PER ENGINEER'S COMMENTS	MA
CHK	MA	9/96	ISSUED FOR APPROVAL	MA
REV DATE	PURPOSE	BY	CHK	

DES	MA	DATE	REVISED AS BUILT	JP
DRF	MA	12/96	REVISED PER ENGINEER'S COMMENTS	MA
CHK	MA	9/96	ISSUED FOR APPROVAL	MA
REV DATE	PURPOSE	BY	CHK	

DESIGNED	MKS			
DRAWN	MKS			
CHECKED				
PROJ. ENGR.				
NO.	ISSUED FOR	DATE	BY	APPROVED

THIS DRAWING HAS BEEN COMPILED BY
HAZEN AND SAWYER, P.C.

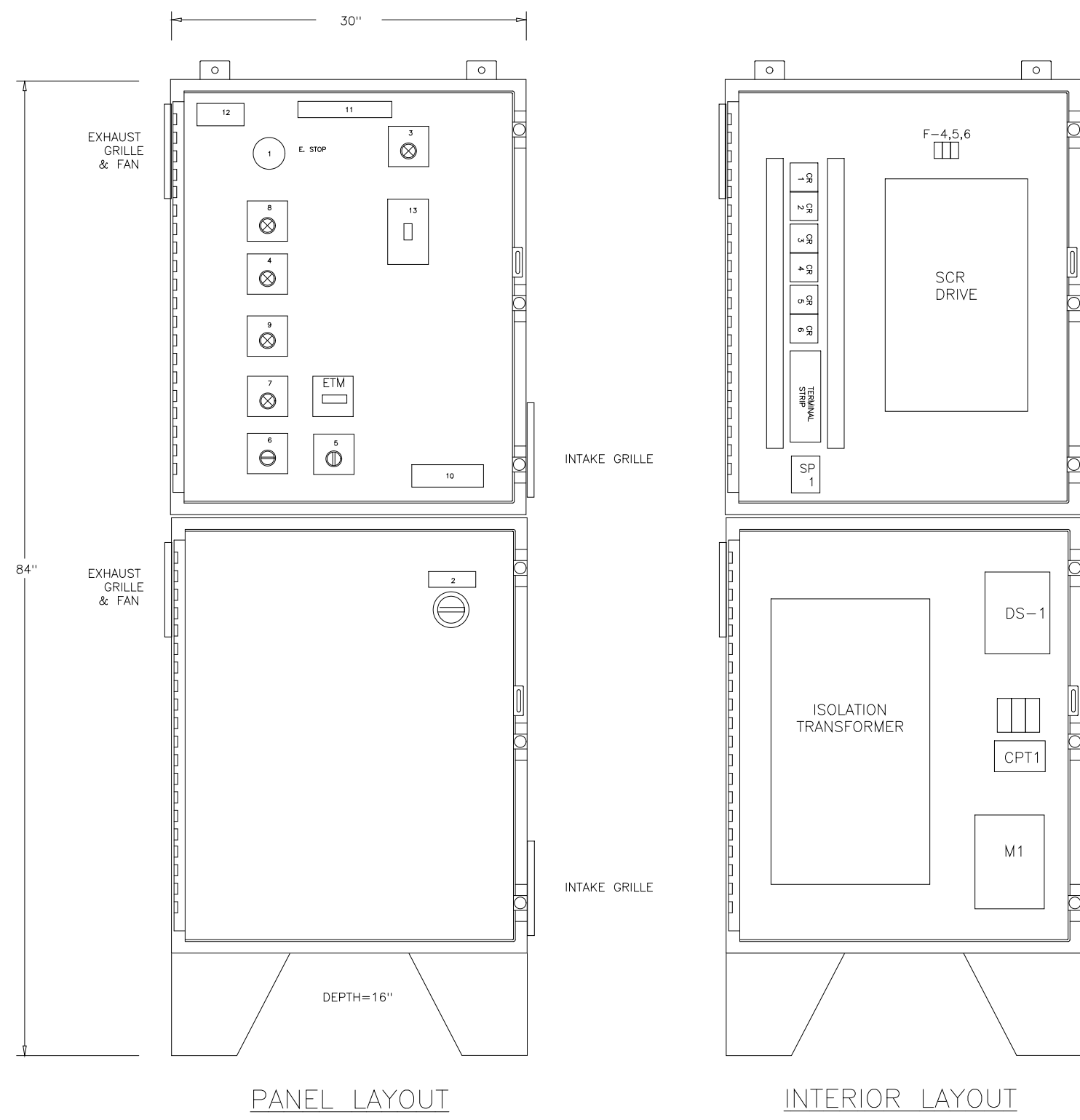
HAZEN AND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

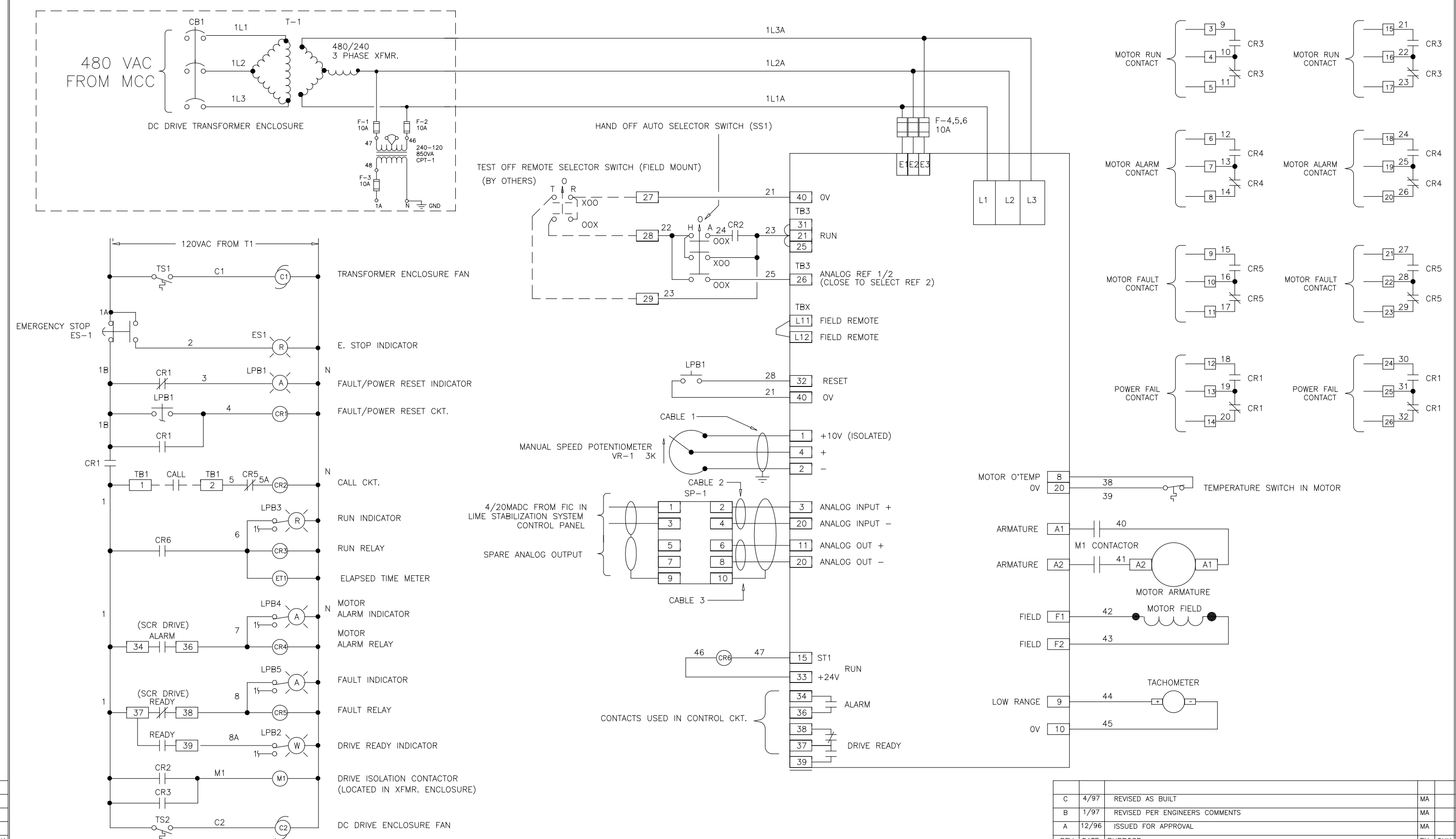
DATE JULY 99
H & S JOB NUMBER 2843
CONTRACT NUMBER 93-02-WPC
DRAWING NUMBER IP-32
SHEET 31AF OF 199

RECORD DRAWING



NAMEPLATES

NO.	ITEM	INSCRIPTION
1	ES-1	EMERGENCY STOP
2	DS-1	MAIN DISCONNECT
3	LPB2	DRIVE READY
4	LPB5	DRIVE FAULT
5	VR1	SPEED ADJUST
6	SS1	HAND-OFF-AUTO
7	LPB3	FEEDER RUNNING
8	LPB1	RESET
9	LPB4	MOTOR ALARM
10		WARNING (ARLINGTON STANDARD LABEL)
11		LIME FEEDER NO. 1 (LIME FEEDER NO. 2)
12		DC/SCR DRIVE PANEL SEI LOGO
13		LIME SCREW FEEDER ACTUATOR ON/OFF SWITCH



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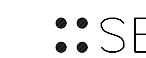
MA
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SYSTEMS EAST INC.
P.O. BOX 1007
NEWPORT NEWS VA 23601

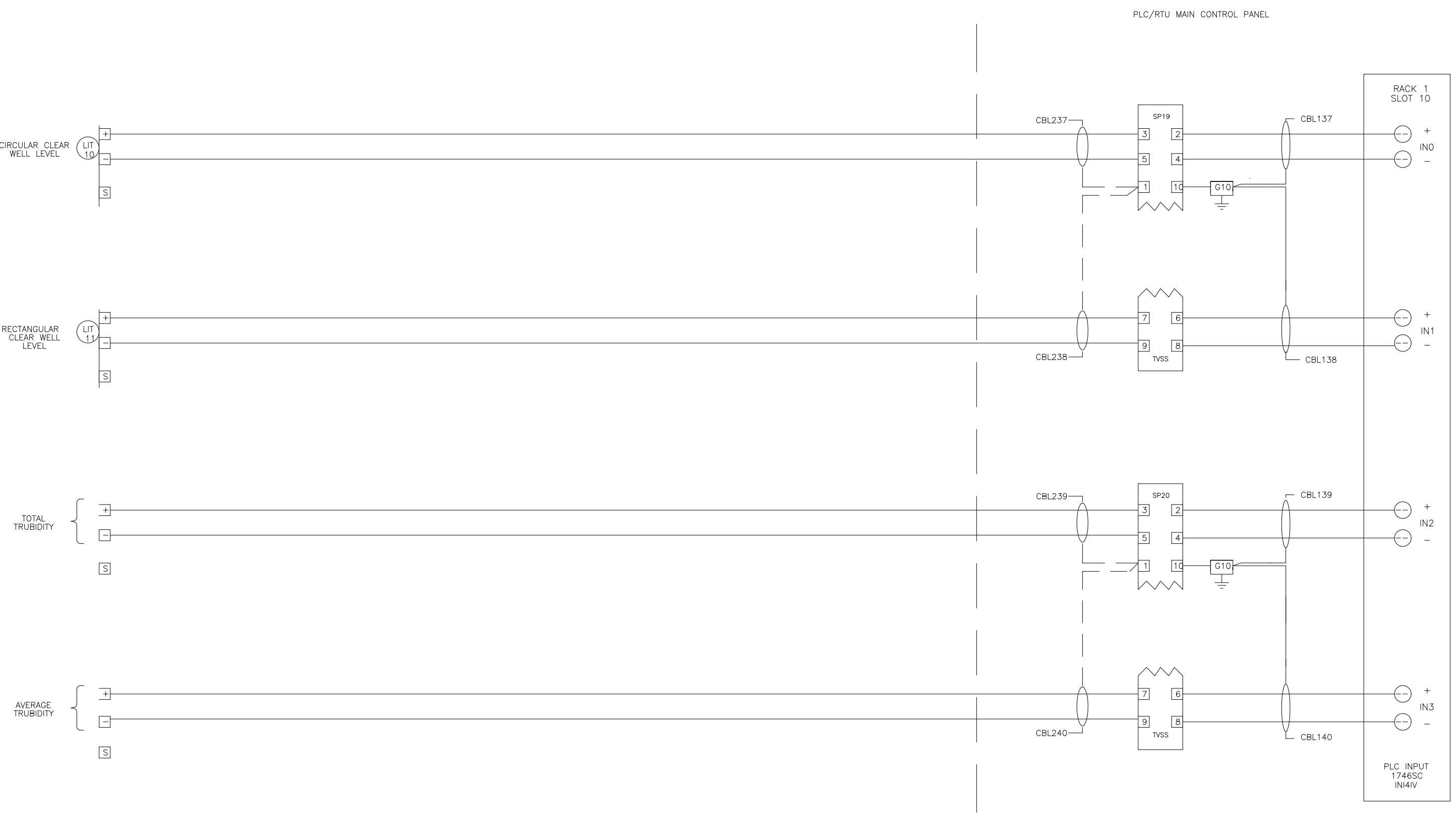
REV	DATE	PURPOSE	BY	CHK

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SYSTEMS EAST INC.
P.O. BOX 1007
NEWPORT NEWS VA 23601

REV	DATE	PURPOSE	BY	CHK
C	4/97	REVISED AS BUILT	MA	
B	7/97	REVISED PER ENGINEERS COMMENTS	MA	
A	12/94	ISSUED FOR APPROVAL	MA	



REV	DATE	PURPOSE	BY	CHK
B	2/99	REVISED PER ENGINEERS COMMENTS	BM	
A	1/99	ISSUE FOR APPROVAL	BM	

DESIGNED _____
DRAWN MKS
CHECKED _____
PROJ. ENGR. _____
APPROVED _____



SYSTEMS EAST INC.
P.O. BOX 1007
NEWPORT NEWS VA 23601

DES	MA	DATE	REV	LTR
BM	BM	12/98	B	
BM	BM	12/98	B	
BM	BM	12/98	B	

PLC / RTU CONTROL PANEL
ROANOKE RAPIDS NORTH CAROLINA
FOR: T.A. LOVING
987012

THIS DRAWING HAS BEEN COMPILED BY
HAZEN AND SAWYER, P.C.

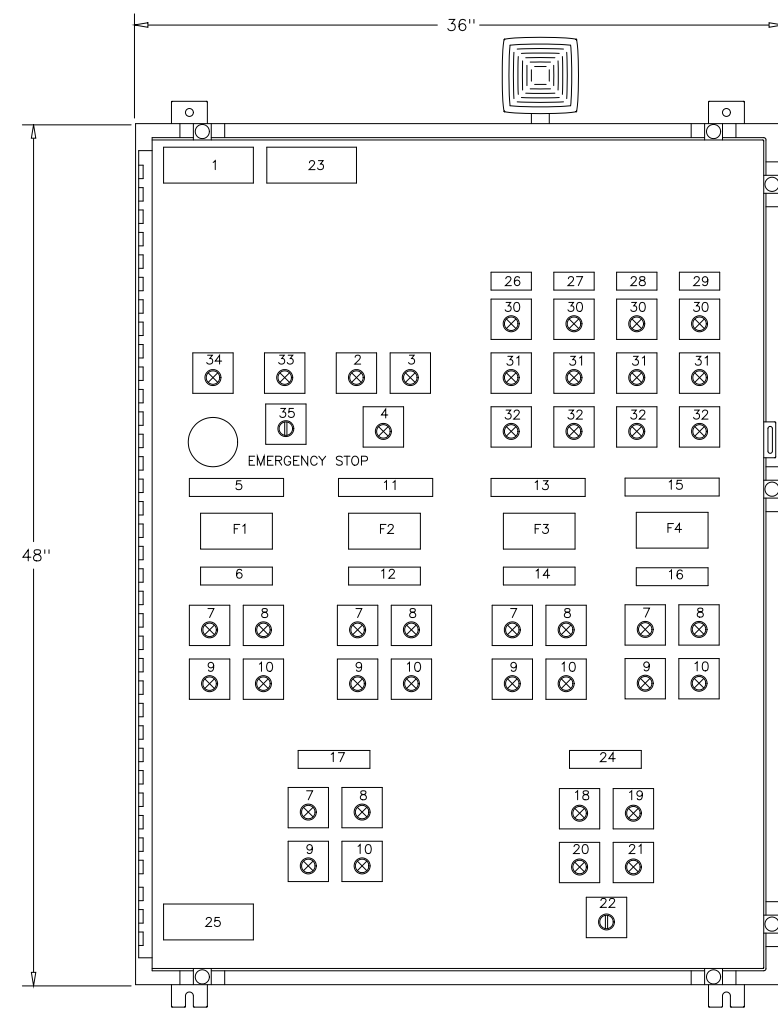
HAZEN AND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE JULY 99	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC	DRAWING NUMBER IP-33
	SHEET 31AG OF 199	

RECORD DRAWING

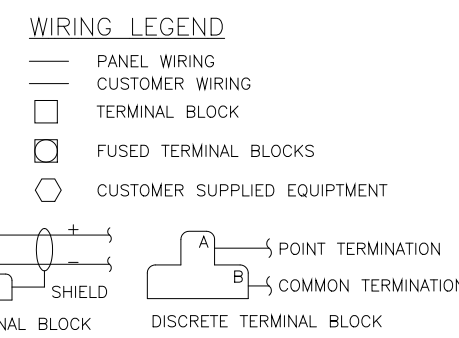


SLUDGE FEED PUMP CONTROL PANEL

PANEL WIRING COLOR CODE

COLOR CODE	WIRE TYPE
RED	AC HOT
WHITE	AC NEUTRAL
GREEN	AC GROUND
VIOLET	AC CONTROL
BLUE	DC POSITIVE
GRAY	DC NEGATIVE
ORANGE	DC CONTROL
CLEAR	SHIELDED SIGNAL POSITIVE
BLACK	SHIELDED SIGNAL NEGATIVE
RED	SHIELDED SIGNAL REFERENCE
YELLOW	FOREIGN VOLTAGES

- SHOP NOTES:**
- ALL WIRING TAGGED WITH MACHINE PRINTED SLEEVES
 - ALL NAMEPLATES NOT CAPTURED BY DEVICES SUCH AS LIGHTS & SELECTOR SWITCHES SHALL BE ATTACHED WITH 6/32 STAINLESS STEEL MACHINE SCREWS. CAPTURED NAMEPLATES SHALL HAVE ADHESIVE BACKING.
 - WARNING NAMEPLATE SHALL BE OF RED 1/16" NAMEPLATE PLASTIC WITH WHITE LETTERS. THE WARNING SHALL BE 1" IN HEIGHT.
 - ALL INTERNAL PANEL COMPONENTS ARE IDENTIFIED WITH NAMEPLATES.
 - ALL WIRING TAGGED WITH MACHINE PRINTED SLEEVES.

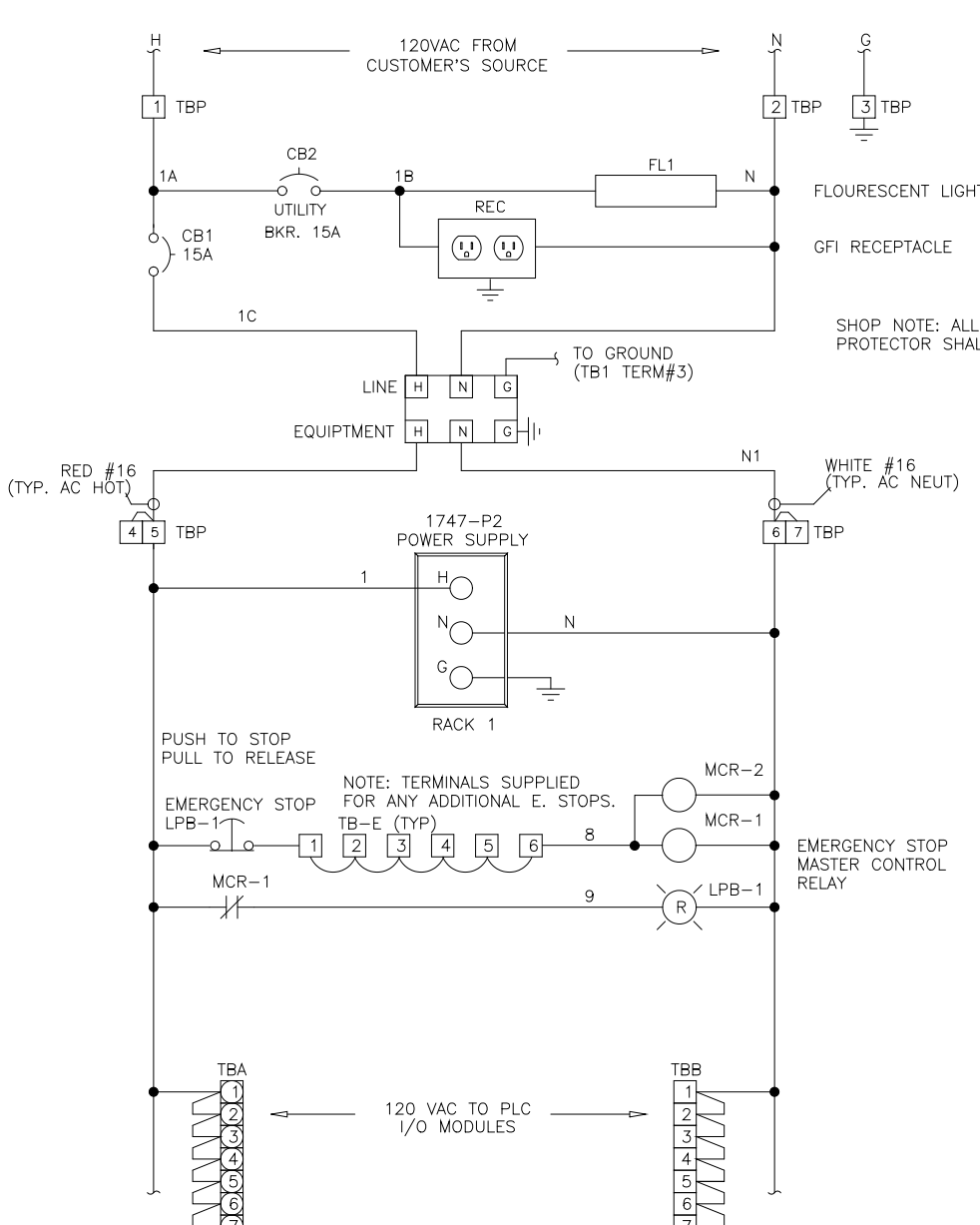


NAMEPLATE LEGEND

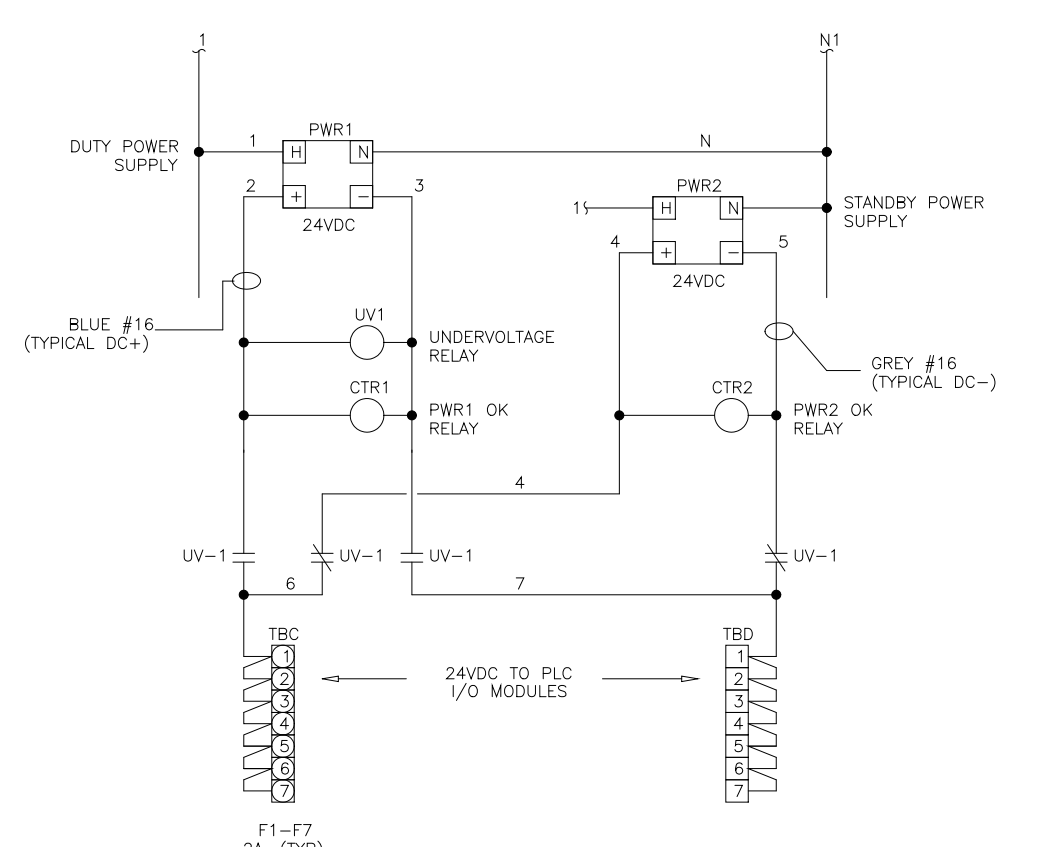
NO.	DEVICE	DESCRIPTION
1.		SLUDGE FEED PUMP CONTROL PANEL
2.	L1	POWER SUPPLY NO.1
3.	L2	POWER SUPPLY NO.2
4.	L3	PLC FAULT
5.		SLUDGE PUMP #1 02005SL
6.		CENTRIFUGE #1 SLUDGE FLOW
7.	L4-8	PUMP RUN
8.	L9-13	HIGH DISCHARGE PRESSURE
9.	L24-28	DRIVE FAIL
10.	L19-23	LOW SUCTION PRESSURE
11.		SLUDGE PUMP #2 02006SL
12.		CENTRIFUGE #2 SLUDGE FLOW
13.		SLUDGE PUMP #5 02009SL
14.		PUMP #3 SLUDGE FLOW
15.		SLUDGE PUMP #3 02007SL
16.		CENTRIFUGE #4 SLUDGE FLOW
17.		SLUDGE PUMP #4 02008SL
18.	L42	CENTRIFUGE PUMP #1
19.	L43	CENTRIFUGE PUMP #2
20.	L44	CENTRIFUGE PUMP #3
21.	L45	CENTRIFUGE PUMP #4
22.	SS1	SPARE PUMP SELECTOR
23.		WARNING - THIS DEVICE IS CONNECTED TO MULTIPLE SOURCES OF POWER
24.		SPARE SLUDGE FEED PUMP SELECTOR
25.		SEI NAMEPLATE
26.		CENTRIFUGE NO. 1
27.		CENTRIFUGE NO. 2
28.		CENTRIFUGE NO. 3
29.		CENTRIFUGE NO. 4
30.	L30-33	ON
31.	L34-37	OFF
32.	L38-41	FAIL
33.	PB-1	ALARM ACKNOWLEDGE
34.	L46	EMERGENCY STOP INITIATED FROM ANOTHER SOURCE
35.	SS2	DCS / LOCAL CONTROL SELECTOR

REV	DATE	PURPOSE	BY	CHK
E	9/98	REVISED FOR CHANGE ORDER		BM
D	1/97	REVISED FIELD MODIFICATIONS		BM
C	1/97	REVISED AS BUILT		TL
B	11/96	REVISED PER ENGINEER'S COMMENTS		MA
A	10/96	ISSUED FOR APPROVAL		MA

DES	MA	PRS	DATE	LOCAL PANEL ELEMENTARY WIRING DIAGRAM	REV LTR
DRF	FDR	SAC	6/29/98	ARLINGTON CO. SLUDGE FEED C.P.	C
CHK	MA	SAC	6/29/98	ARLINGTON CO. VIRGINIA	
SCALE				FOR: DANIS INDUSTRIES	



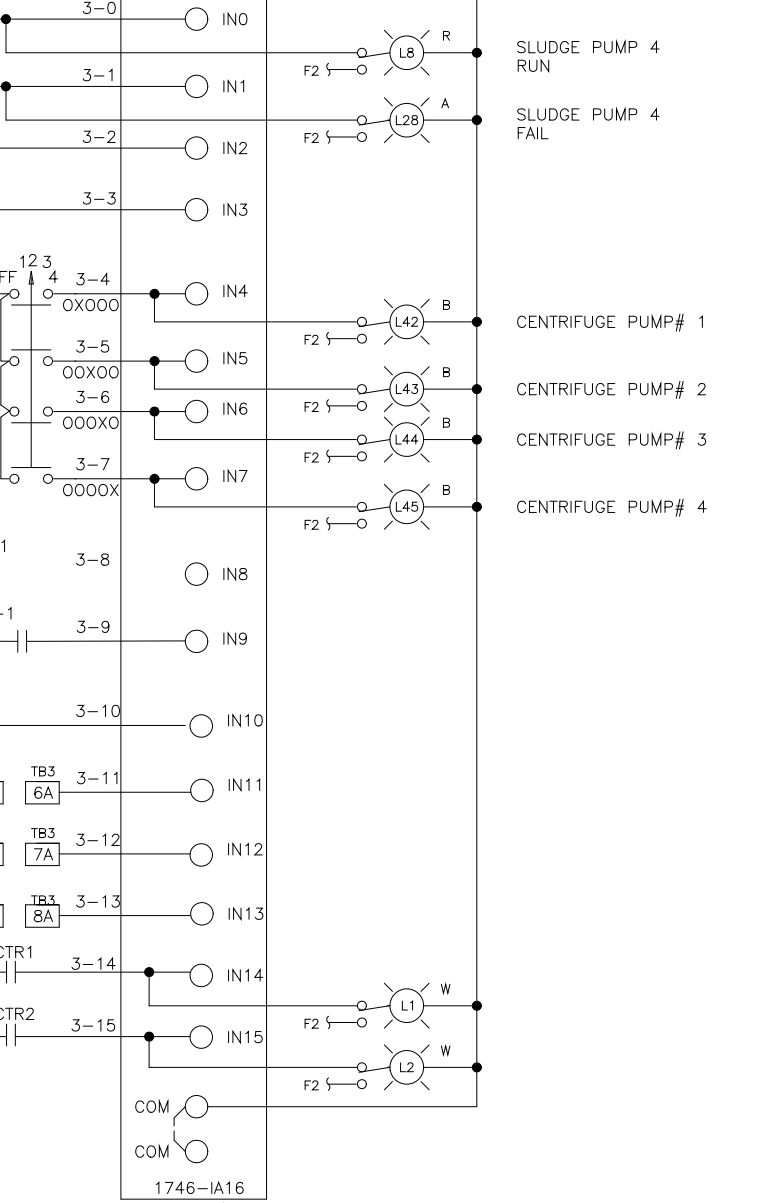
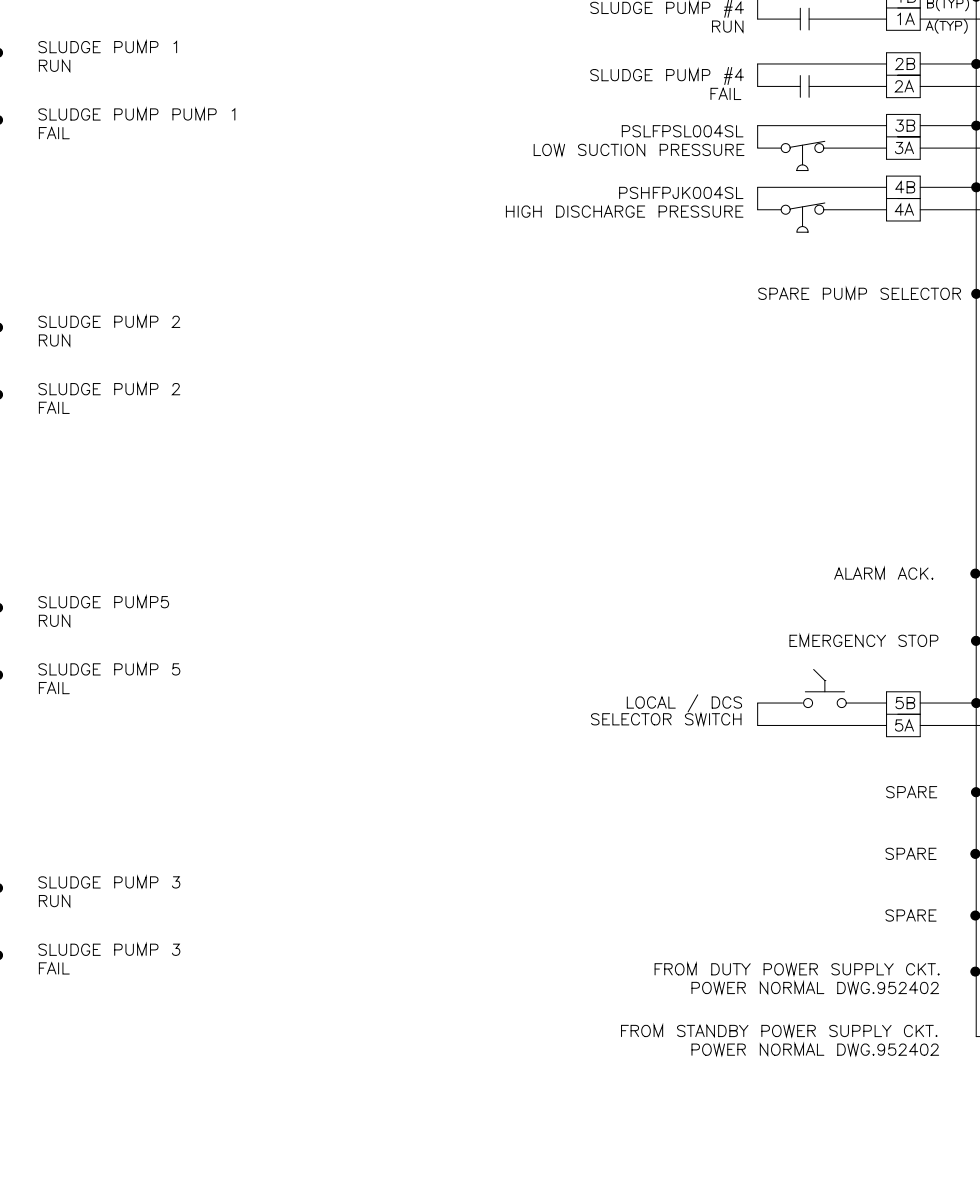
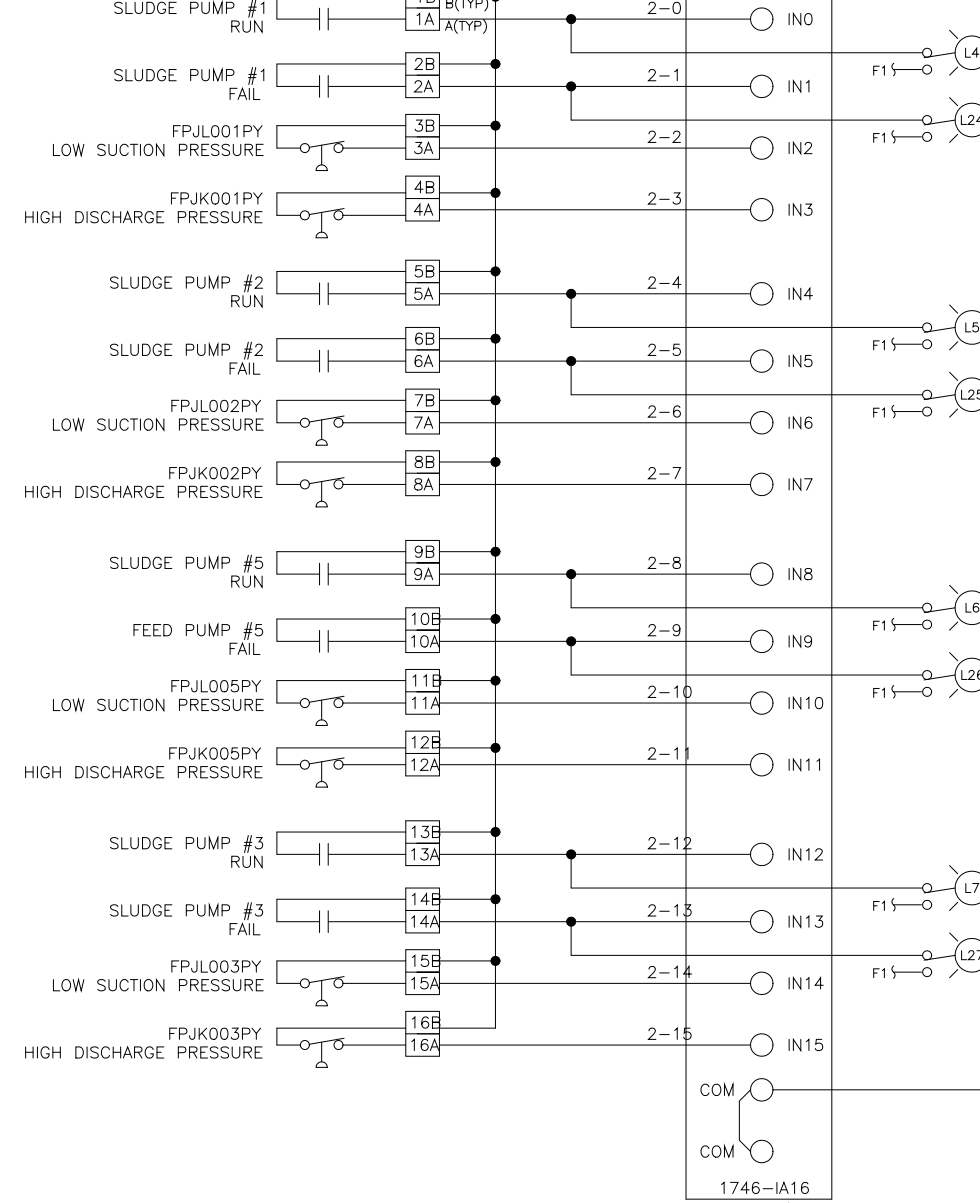
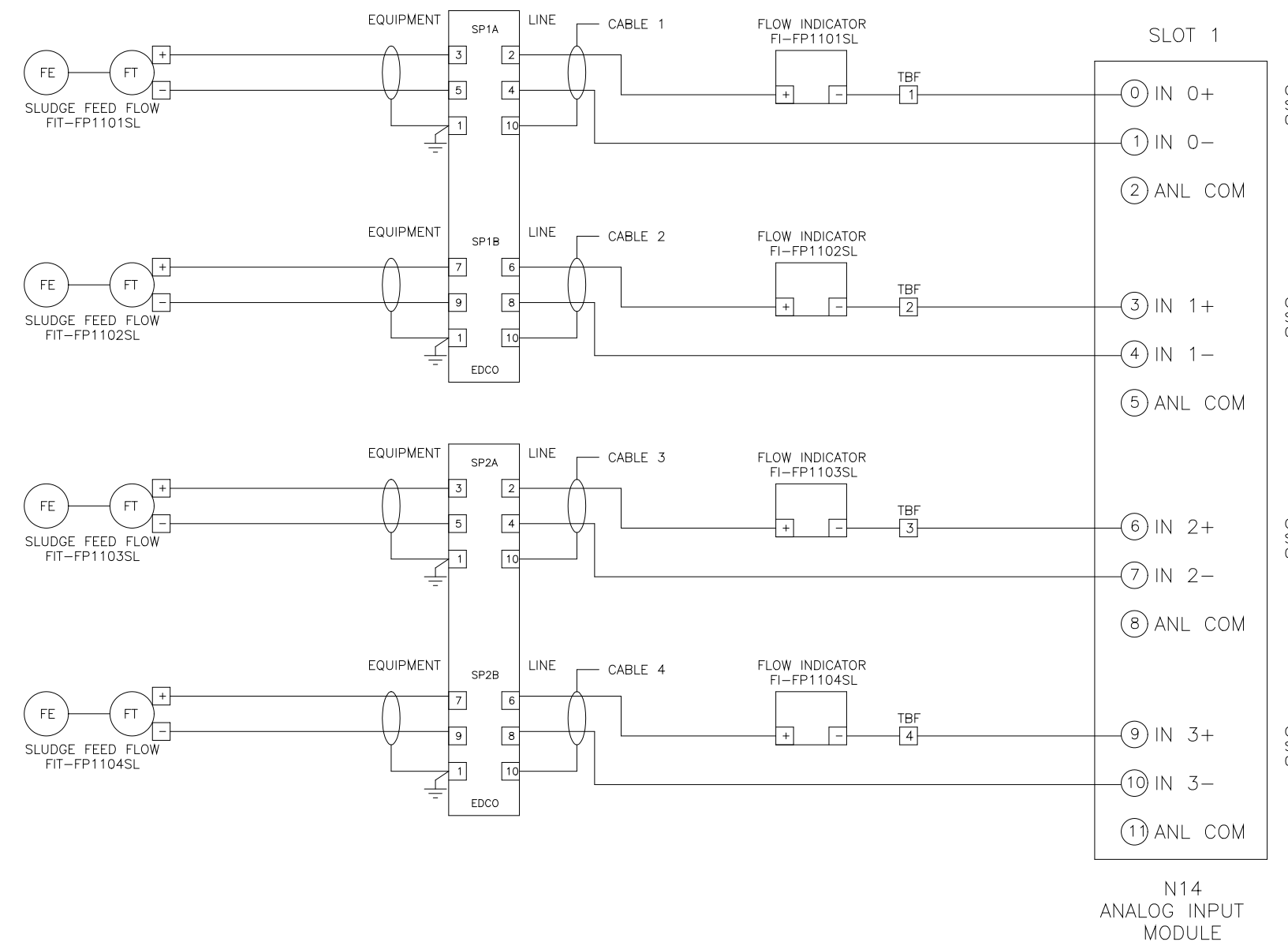
PLC RACK LAYOUT



DES	MA	PRS	DATE	LOCAL PANEL ELEMENTARY WIRING DIAGRAM	REV LTR
DRF	MA	SAC	6/29/98	ARLINGTON CO. SLUDGE FEED C.P.	C
CHK	MA	SAC	6/29/98	ARLINGTON CO. VIRGINIA	
SCALE				FOR: DANIS INDUSTRIES	

REV	DATE	PURPOSE	BY	CHK
C	1/97	REVISED AS BUILT		TL
B	12/96	REVISED PER ENGINEER'S COMMENTS		MA
A	10/96	ISSUED FOR APPROVAL		MA

DES	MA	PRS	DATE	LOCAL PANEL ELEMENTARY WIRING DIAGRAM	REV LTR
DRF	MA	SAC	6/29/98	ARLINGTON CO. SLUDGE FEED C.P.	C
CHK	MA	SAC	6/29/98	ARLINGTON CO. VIRGINIA	
SCALE				FOR: DANIS INDUSTRIES	



REV	DATE	PURPOSE	BY	CHK
D	5/98	REVISED FIELD MODIFICATIONS		BM
C	1/97	REVISED AS BUILT		TL
B	6/96	REVISED PER ENGINEERING COMMENTS		MA
A	10/96	ISSUED FOR APPROVAL		MA

DES	MA	PRS	DATE	LOCAL PANEL I/O WIRING DIAGRAM	REV LTR
DRF	FDR	SAC	6/29/98	ARLINGTON CO. SLUDGE FEED C.P.	D
CHK	MA	SAC	6/29/98	ARLINGTON CO. VIRGINIA	
SCALE				FOR: DANIS INDUSTRIES	

DES	MA	PRS	DATE	LOCAL PANEL I/O WIRING DIAGRAM	REV LTR
DRF	FDR	SAC	6/29/98	ARLINGTON CO. SLUDGE FEED C.P.	D
CHK	MA	SAC	6/29/98	ARLINGTON CO. VIRGINIA	
SCALE				FOR: DANIS INDUSTRIES	

REV	DATE	PURPOSE	BY	CHK
D	5/98	REVISED FIELD MODIFICATIONS		BM
C	1/97	REVISED AS BUILT		TL
B	6/96	REVISED PER ENGINEERING COMMENTS		MA
A	10/96	ISSUED FOR APPROVAL		MA

DES	MA	PRS	DATE	LOCAL PANEL I/O WIRING DIAGRAM	REV LTR
DRF	FDR	SAC	6/29/98	ARLINGTON CO. SLUDGE FEED C.P.	D
CHK	MA	SAC	6/29/98	ARLINGTON CO. VIRGINIA	
SCALE				FOR: DANIS INDUSTRIES	

PLOT DATE 07/29/99 2:54pm FILE= \\N2645\inc\Draw\ADO31SL.dwg BY FRANK REF FILE = IN2E

DESIGNED	MKS
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
APPROVED	

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HAZEN AND SAWYER, P.C.

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RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

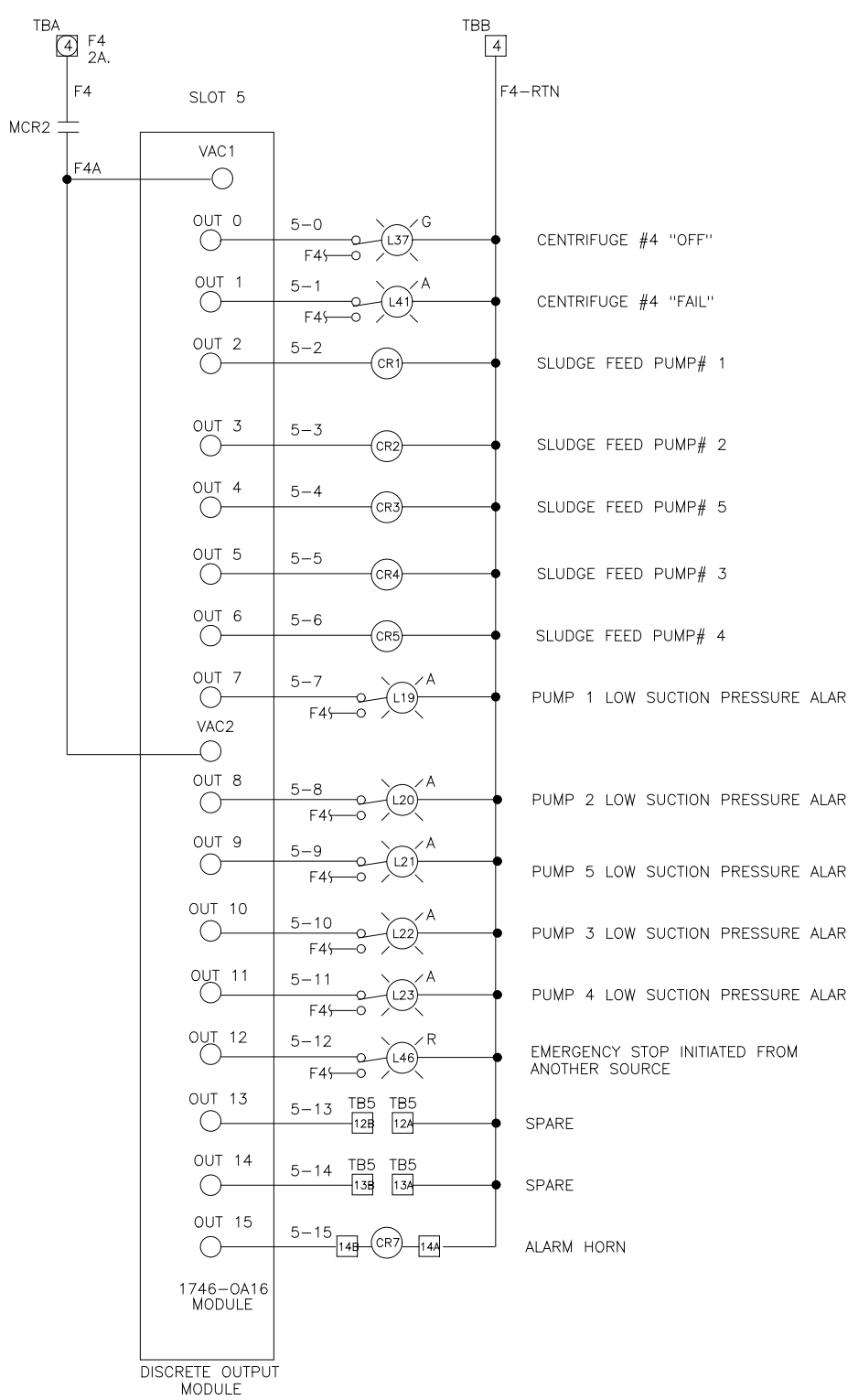
DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-1
SHEET	31A of 199

RECORD DRAWING



D	5/98	REVISED FIELD MODIFICATIONS	BM
C	1/87	REVISED AS BUILT	TL
B	12/96	REVISED PER ENGINEER'S COMMENTS	MA
A	7/96	ISSUED FOR APPROVAL	MA
REV	DATE	PURPOSE	BY

DES	MA	SPS	LOCAL PANEL I/O WIRING DIAGRAM	REV LTR	D
DRF	MA	FDR	ARLINGTON CO. SLUDGE FEED C.P.	DWG NO	954205
CHK	MA	WNT	ARLINGTON CO., VIRGINIA	SCALE	5 OF 7
SCALE			FOR: DANIS INDUSTRIES	AD031SL	

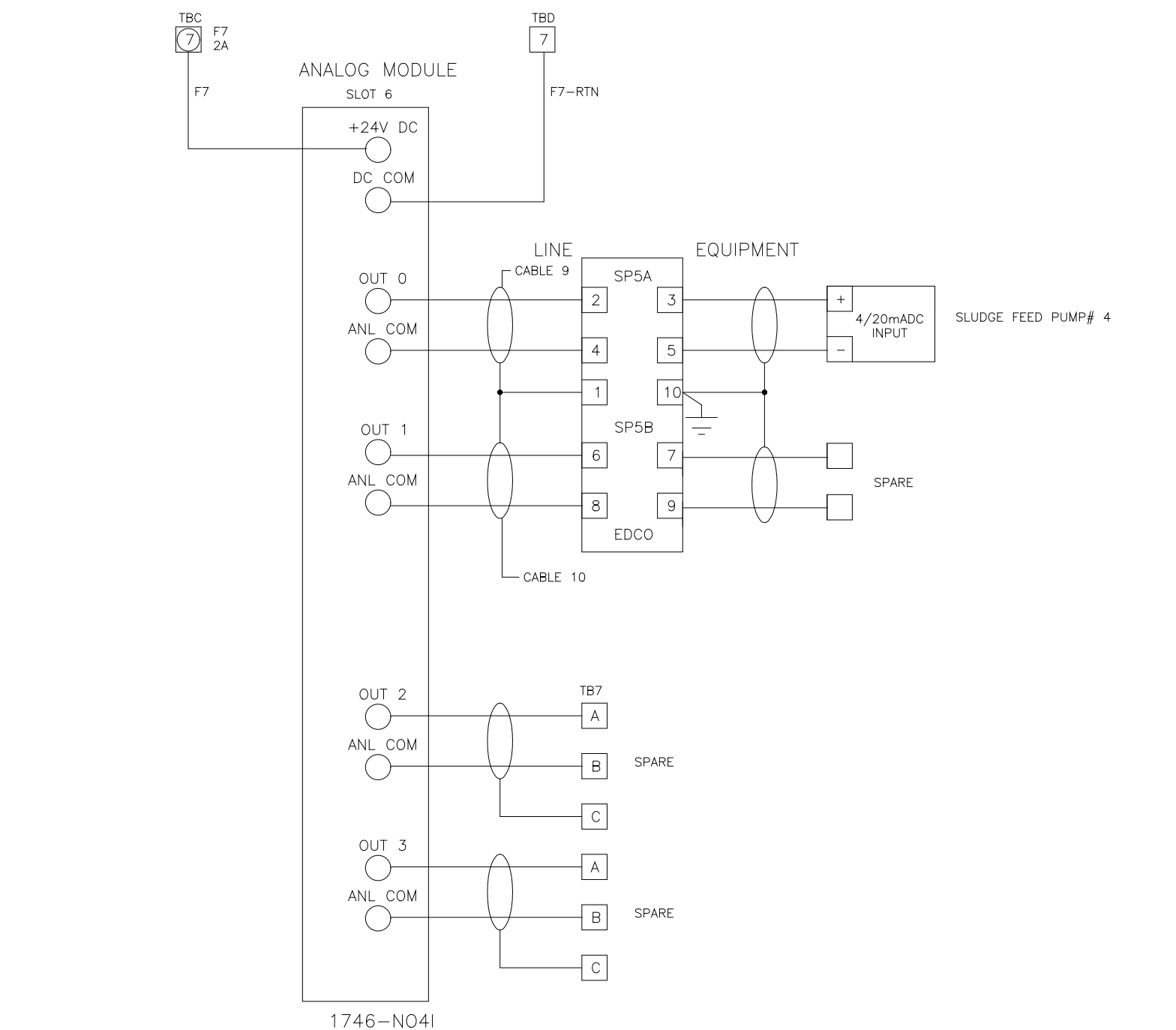
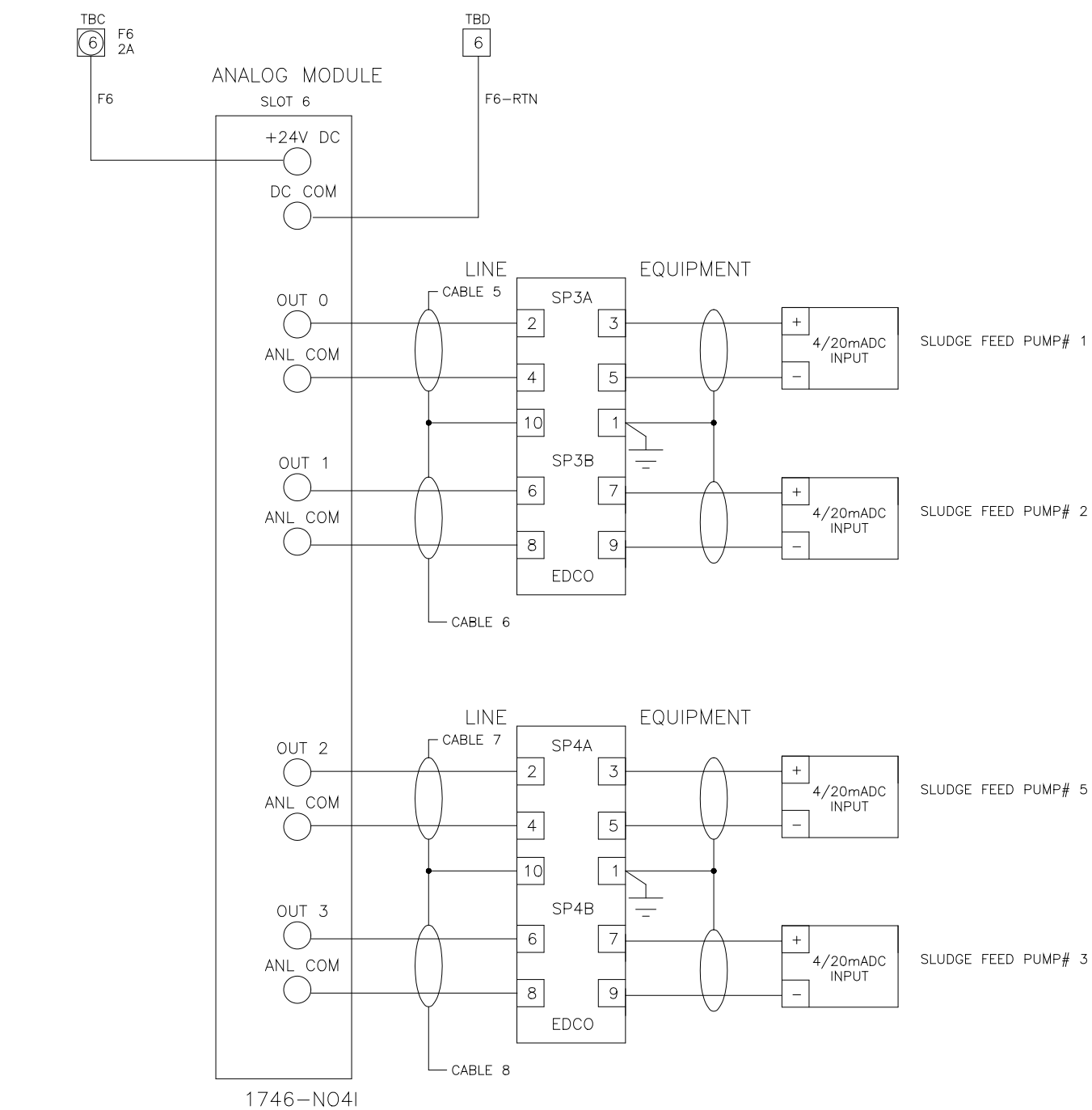


D	5/98	REVISED FIELD MODIFICATIONS	BM
C	1/87	REVISED AS BUILT	TL
B	12/96	REVISED PER ENGINEER'S COMMENTS	MA
A	7/96	ISSUED FOR APPROVAL	MA
REV	DATE	PURPOSE	BY

DES	MA	SPS	LOCAL PANEL I/O WIRING DIAGRAM	REV LTR	D
DRF	MA	FDR	ARLINGTON CO. SLUDGE FEED C.P.	DWG NO	954206
CHK	MA	WNT	ARLINGTON CO., VIRGINIA	SCALE	6 OF 7
SCALE			FOR: DANIS INDUSTRIES	AD031SL	

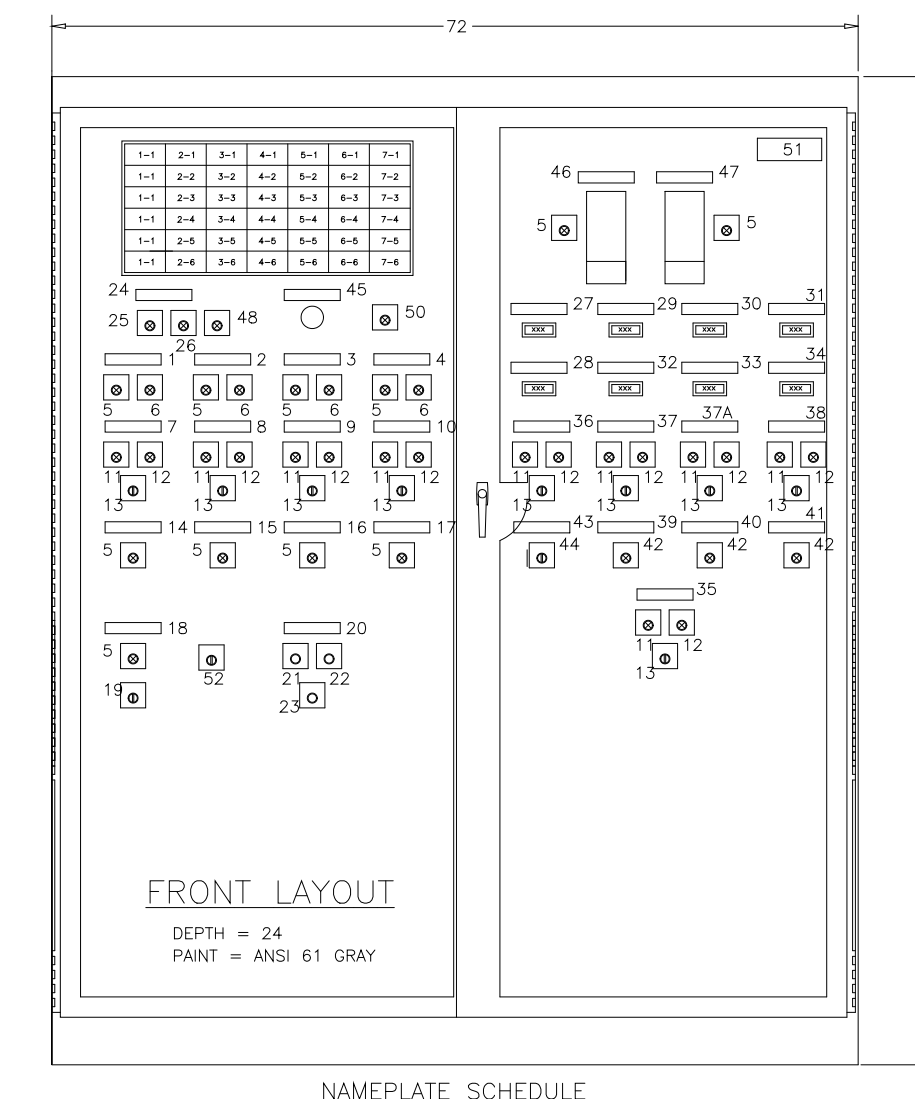
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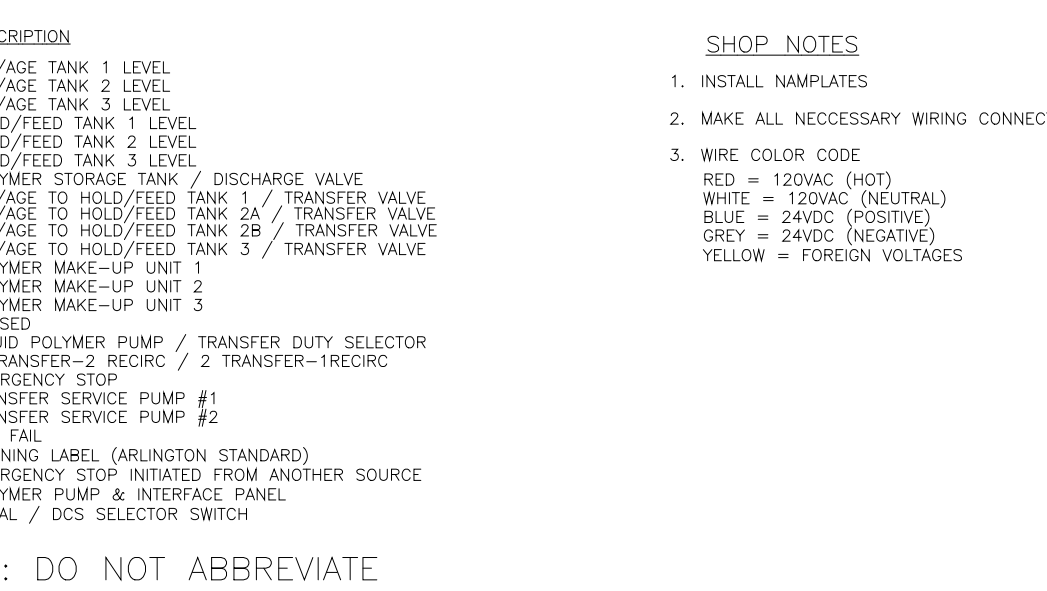


D	5/98	REVISED AS BUILT	TL
C	1/87	REVISED PER ENGINEER'S COMMENT	MA
B	12/96	ISSUED FOR APPROVAL	MA
A	7/96		
REV	DATE	PURPOSE	BY

DES	MA	SPS	ELEMENTARY WIRING DIAGRAM	REV LTR	C
DRF	FDR	WNT	ARLINGTON CO. SLUDGE FEED C.P.	DWG NO	954207
CHK	MA	WNT	ARLINGTON CO., VIRGINIA	SCALE	7 OF 7
SCALE			FOR: DANIS INDUSTRIES	AD031SL	



NO.	TAG	INSCRIPTION	NO.	INSCRIPTION
1		CENTRIFUGE 1	29	MIX/AGE TANK 1 LEVEL
2		CENTRIFUGE 2	30	MIX/AGE TANK 2 LEVEL
3		CENTRIFUGE 3	31	MIX/AGE TANK 3 LEVEL
4		CENTRIFUGE 4	32	HOLD/FEED TANK 1 LEVEL
5	5	RUNNING	33	HOLD/FEED TANK 2 LEVEL
6	6	STOPPED	34	HOLD/FEED TANK 3 LEVEL
7	7	STOPPED	35	POLYMER STORAGE TANK / DISCHARGE VALVE
8	8	CENTRIFUGE 1 / SECONDARY DILUTION WATER VALVE	36	MIX/AGE TO HOLD/FEED TANK 1 / TRANSFER VALVE
9	9	CENTRIFUGE 2 / SECONDARY DILUTION WATER VALVE	37	MIX/AGE TO HOLD/FEED TANK 2A / TRANSFER VALVE
10	10	CENTRIFUGE 3 / SECONDARY DILUTION WATER VALVE	37A	MIX/AGE TO HOLD/FEED TANK 2B / TRANSFER VALVE
11	11	CENTRIFUGE 4 / SECONDARY DILUTION WATER VALVE	38	MIX/AGE TO HOLD/FEED TANK 3 / TRANSFER VALVE
12	12	CLOSED	39	POLYMER MAKE-UP UNIT 1
13	13	OPEN = CLOSE - AUTO	40	POLYMER MAKE-UP UNIT 2
14	14	POLYMER FEED PUMP 1	41	POLYMER MAKE-UP UNIT 3
15	15	POLYMER FEED PUMP 2	42	PAUSED
16	16	POLYMER FEED PUMP 3	43	LIQUID POLYMER PUMP / TRANSFER DUTY SELECTOR
17	17	POLYMER FEED PUMP 4	44	1 TRANSFER-2 RECIRC / 2 TRANSFER-1 RECIRC
18	18	SPARE POLYMER FEED PUMP	45	EMERGENCY STOP
19	19	CENTRIFUGE DUTY SELECT / OFF - 1 - 2 - 3 - 4	46	TRANSFER SERVICE PUMP #1
20	20	ALARMS	47	TRANSFER SERVICE PUMP #2
21	21	ACKNOWLEDGE	48	PLC FAIL
22	22	RESET	49	WARNING LABEL (ARLINGTON STANDARD)
23	23	TEST	50	EMERGENCY STOP INITIATED FROM ANOTHER SOURCE
24	24	POWER SUPPLY STATUS	51	POLYMER PUMP & INTERFACE PANEL
25	25	NUMBER 1 NORMAL	52	LOCAL / DCS SELECTOR SWITCH
26	26	NUMBER 2 NORMAL		
27	27	LIQUID POLYMER TRANSFER FLOW		
28	28	LIQUID POLYMER / STORAGE TANK LEVEL		



D	5/98	REVISED FIELD MODIFICATIONS	BM
C	1/87	REVISED AS BUILT	TL
B	12/96	REVISED PER ENGINEER'S COMMENTS	MA
A	7/96	ISSUED FOR APPROVAL	MA
REV	DATE	PURPOSE	BY

DES	MA	SPS	FRONT / INTERIOR LAYOUT	REV LTR	D
DRF	MA	FDR	POLYMER PUMP PANEL	DWG NO	954210
CHK	MA	WNT	ARLINGTON CO., VIRGINIA	SCALE	
SCALE			FOR: DANIS INDUSTRIES	AD008PY	

NO.	ISSUED FOR	DATE	BY	APPROVED

DESIGNED _____
 DRAWN MKS
 CHECKED _____
 PROJ. ENGR. _____

THIS DRAWING HAS BEEN COMPILED BY
HAZEN AND SAWYER, P.C.

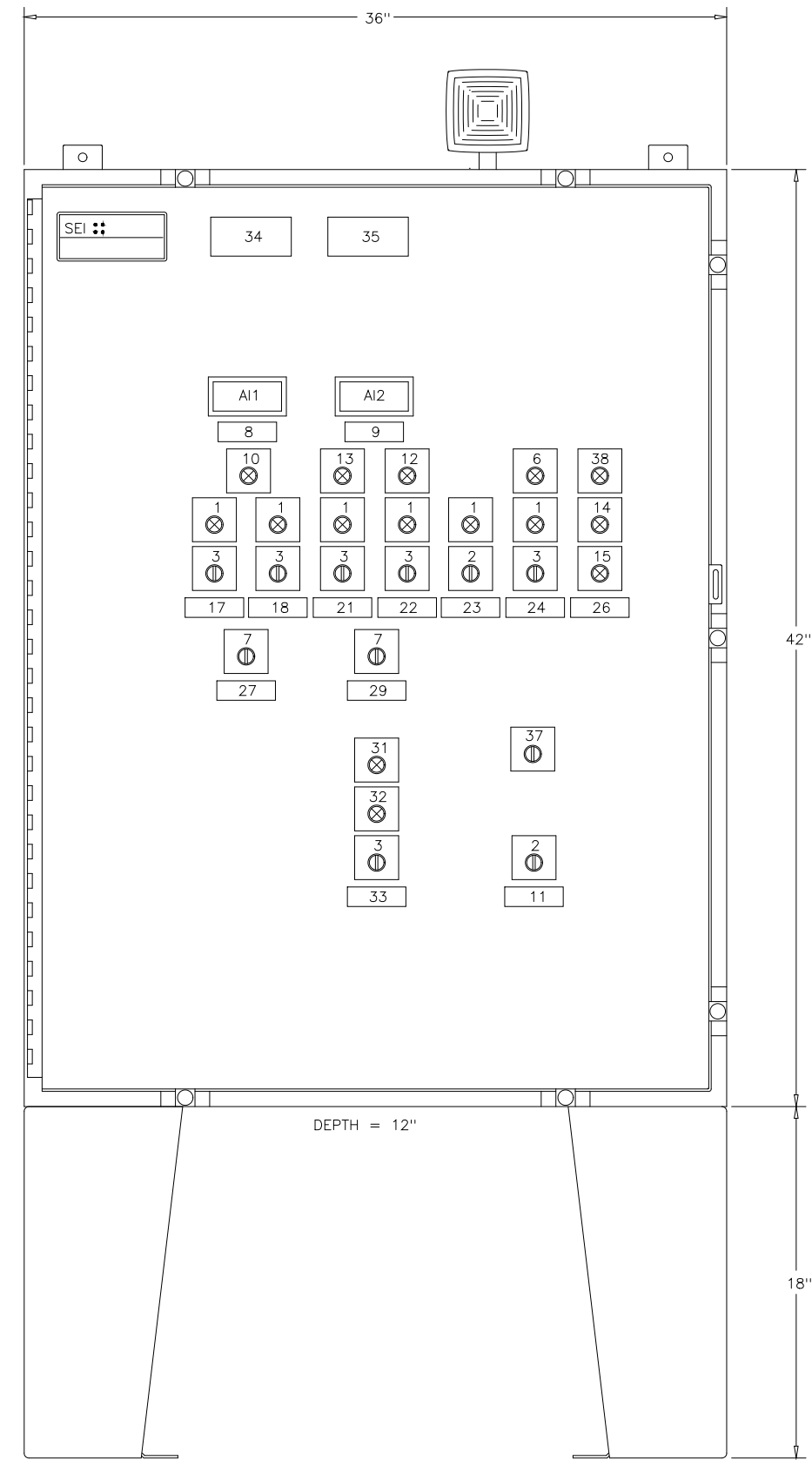
HAZEN AND SAWYER
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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
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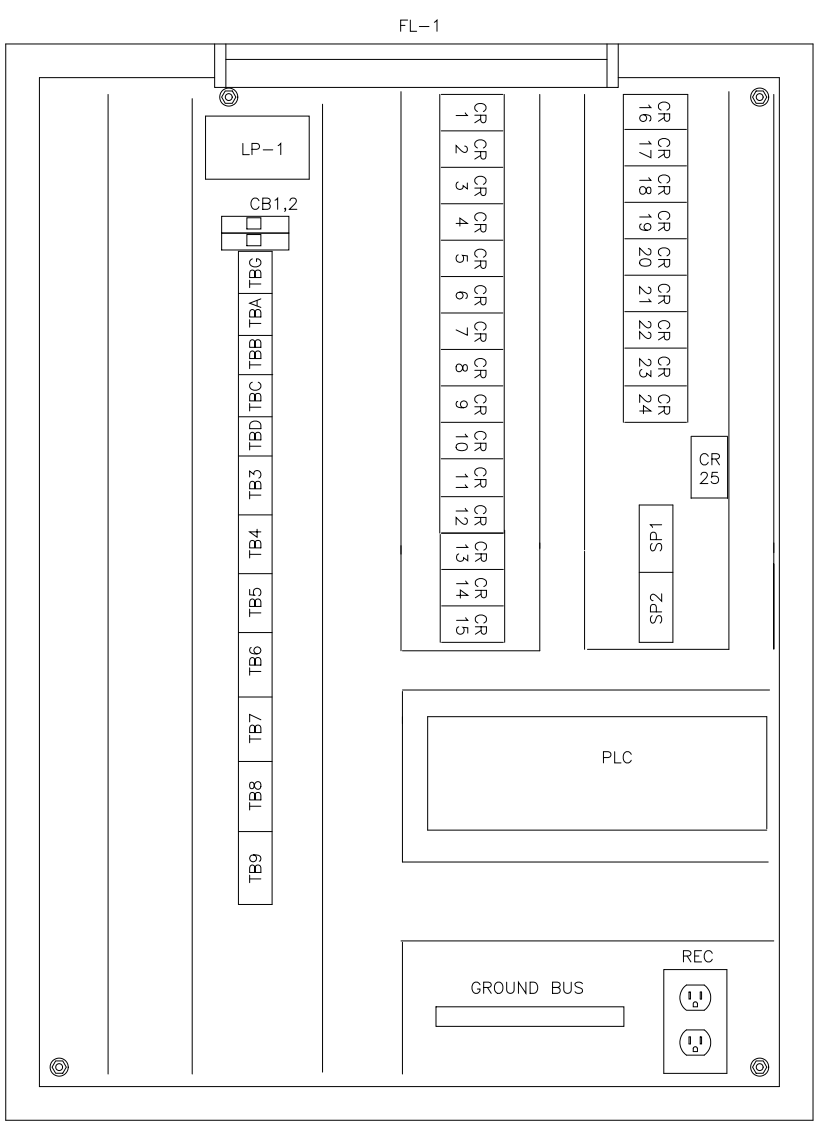
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE JULY 99
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER IP-2
	SHEET 31B OF 199

RECORD DRAWING

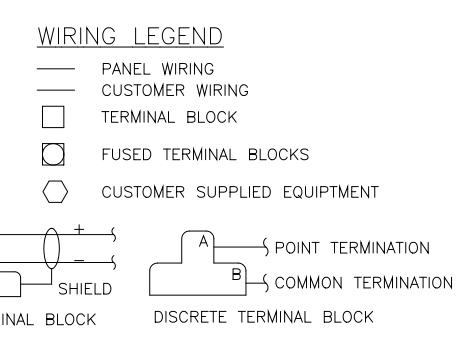


SHOP NOTES:

- ALL WIRING TAGGED WITH MACHINE PRINTED SLEEVES
- ALL NAMEPLATES NOT CAPTURED BY DEVICES SUCH AS LIGHTS & SELECTOR SWITCHES SHALL BE ATTACHED WITH #12 STAINLESS STEEL MACHINE SCREWS. CAPTURED NAMEPLATES SHALL HAVE ADHESIVE BACKING.
- WARNING NAMEPLATE SHALL BE OF RED 1/16" NAMEPLATE PLASTIC WITH WHITE LETTERS. THE "WARNING" SHALL BE 1" IN HEIGHT.
- ALL INTERNAL PANEL COMPONENTS ARE IDENTIFIED WITH NAMEPLATES.
- ALL WIRING TAGGED WITH MACHINE PRINTED SLEEVES.



NO	ITEM	INSCRIPTION	NO	ITEM	INSCRIPTION
1	NOTE 1	RUN	25	-	DAMPER STATUS
2	SS-14,15	OFF - ON	26	-	ACID PUMP DUTY
3	NOTE 2	HAND - OFF - AUTO	27	-	ACID PUMP DUTY
4	-	-	28	-	RECIRC PUMP DUTY
5	LPB8	OVERLOAD	29	-	RECIRC PUMP DUTY
6	SS2,8	1 - 2	30	-	PLC FAIL
7	AI1	SCRUBBER SUMP PH	31	LPB16	PLC FAIL
8	AI2	SCRUBBER RECIRCULATION FLOW	32	LPB17	ON
9	LPB22	HIGH/LOW pH	33	-	SYSTEM CONTROL
10	-	-	34	-	ARLINGTON STD WARNING
11	-	-	36	-	ACID ODOR CONTROL PANEL
12	LPB19	LOW SCRUBBER SUMP LEVEL	37	SS16	LOCAL / DCS SELECTOR SWITCH
13	LPB20	LOW RECIRC PRESSURE	38	PB	ALARM SILENCE
14	LPB18	SMOKE IN DUCT	-	-	-
15	LPB15	SMOKE DAMPER OPEN	-	-	-
16	-	-	-	-	-
17	-	ACID PUMP 1	-	-	-
18	-	ACID PUMP 2	-	-	-
19	-	-	-	-	-
20	-	-	-	-	-
21	-	RECIRC PUMP 1	-	-	-
22	-	RECIRC PUMP 2	-	-	-
23	-	SUMP HEATER	-	-	-
24	-	FAN	-	-	-

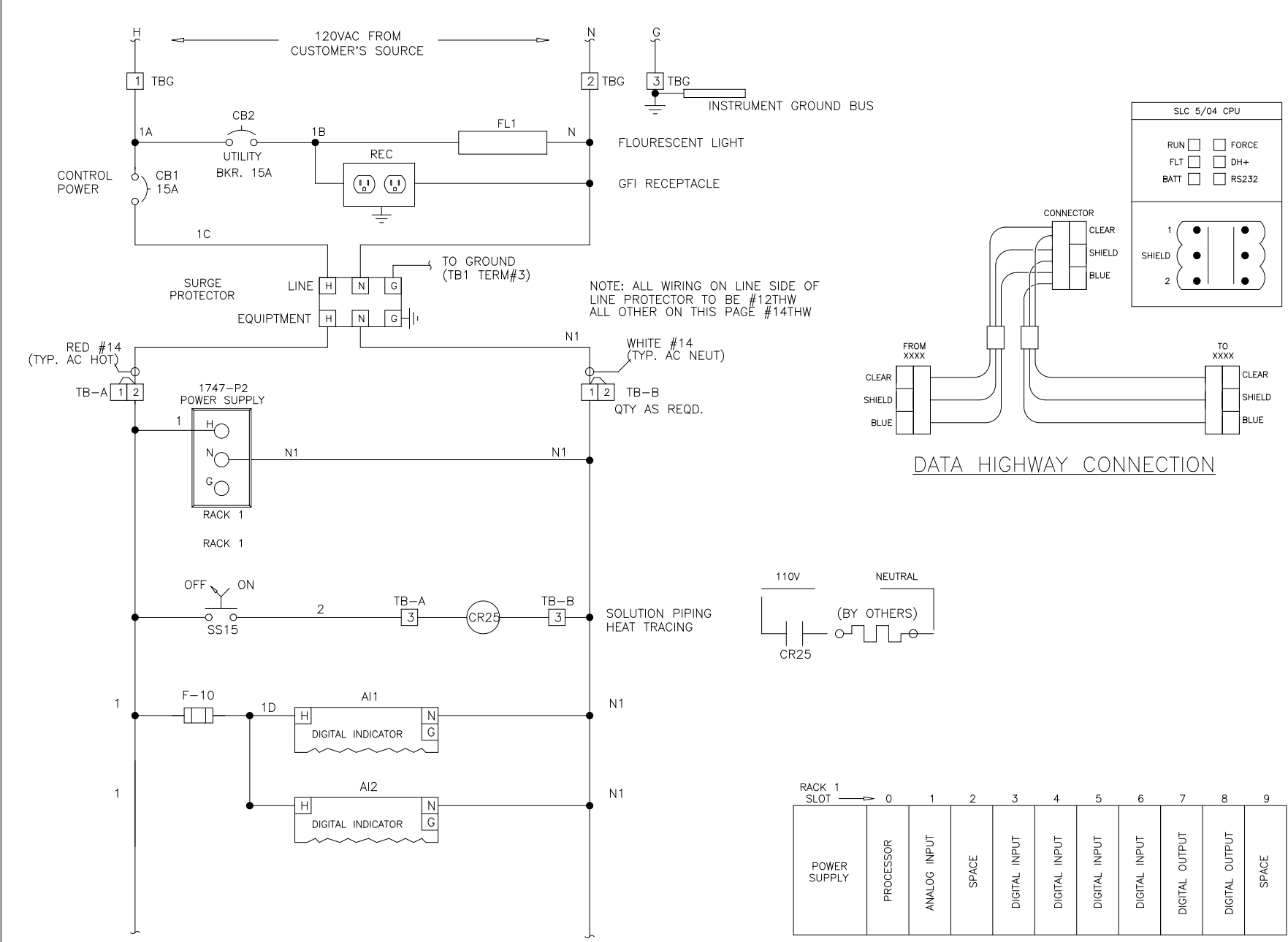


PANEL WIRING COLOR CODE

COLOR CODE	WIRE TYPE
RED	AC HOT
WHITE	AC NEUTRAL
GREEN	AC GROUND
VIOLET	DC POSITIVE
BLUE	DC POSITIVE
ORANGE	DC NEGATIVE
BLACK	SHIELDED SIGNAL POSITIVE
RED	SHIELDED SIGNAL NEGATIVE
YELLOW	SHIELDED SIGNAL REFERENCE
YELLOW	FOREIGN VOLTAGES

REV	DATE	PURPOSE	BY	CHK
E	9/98	REVISED FOR CHANGE ORDER	BM	
D	6/98	REVISED FIELD MODIFICATIONS	BM	
C	10/97	REVISED AS BUILT	SCP	
B	8/97	REVISED PER REVIEW COMMENTS	JP	
A	4/97	ISSUED FOR APPROVAL	JA	

DES	J.A.	DRS	4/201	PANEL LAYOUT	REV LTR	E
DRF	J.A.	SAR	4/201	ACID ODOR CONTROL PANEL	DWG NO	9542107
CHK	J.A.	SAR		ARLINGTON CO., VIRGINIA	SCALE	
SCALE				FOR: DANIS INDUSTRIES		AD0140CA

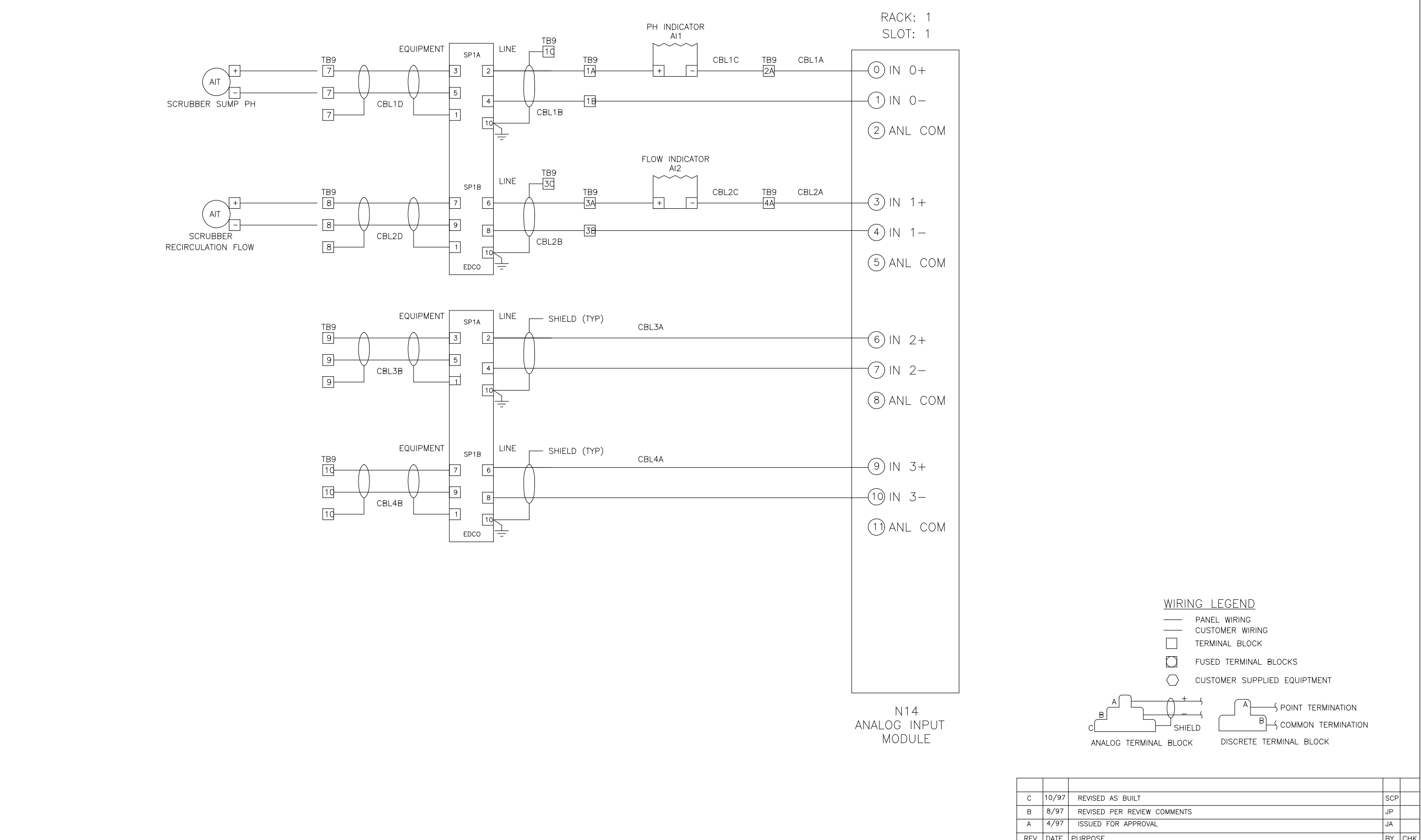


PLC RACK LAYOUT

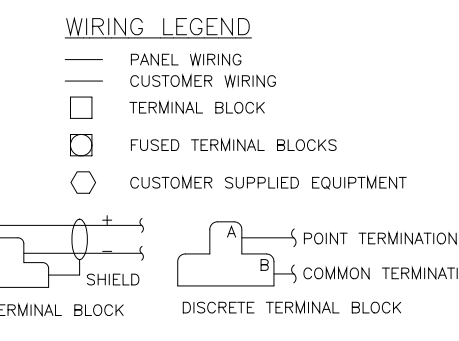
DES	J.A.	DRS	4/201	POWER WIRING DIAGRAM	REV LTR	D
DRF	J.A.	SAR	4/201	ACID ODOR CONTROL PANEL	DWG NO	9542108
CHK	J.A.	SAR		ARLINGTON CO., VIRGINIA	SCALE	
SCALE				FOR: DANIS INDUSTRIES		AD0140CA

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DES	J.A.	DRS	4/201	POWER WIRING DIAGRAM	REV LTR	D
DRF	J.A.	SAR	4/201	ACID ODOR CONTROL PANEL	DWG NO	9542108
CHK	J.A.	SAR		ARLINGTON CO., VIRGINIA	SCALE	
SCALE				FOR: DANIS INDUSTRIES		AD0140CA

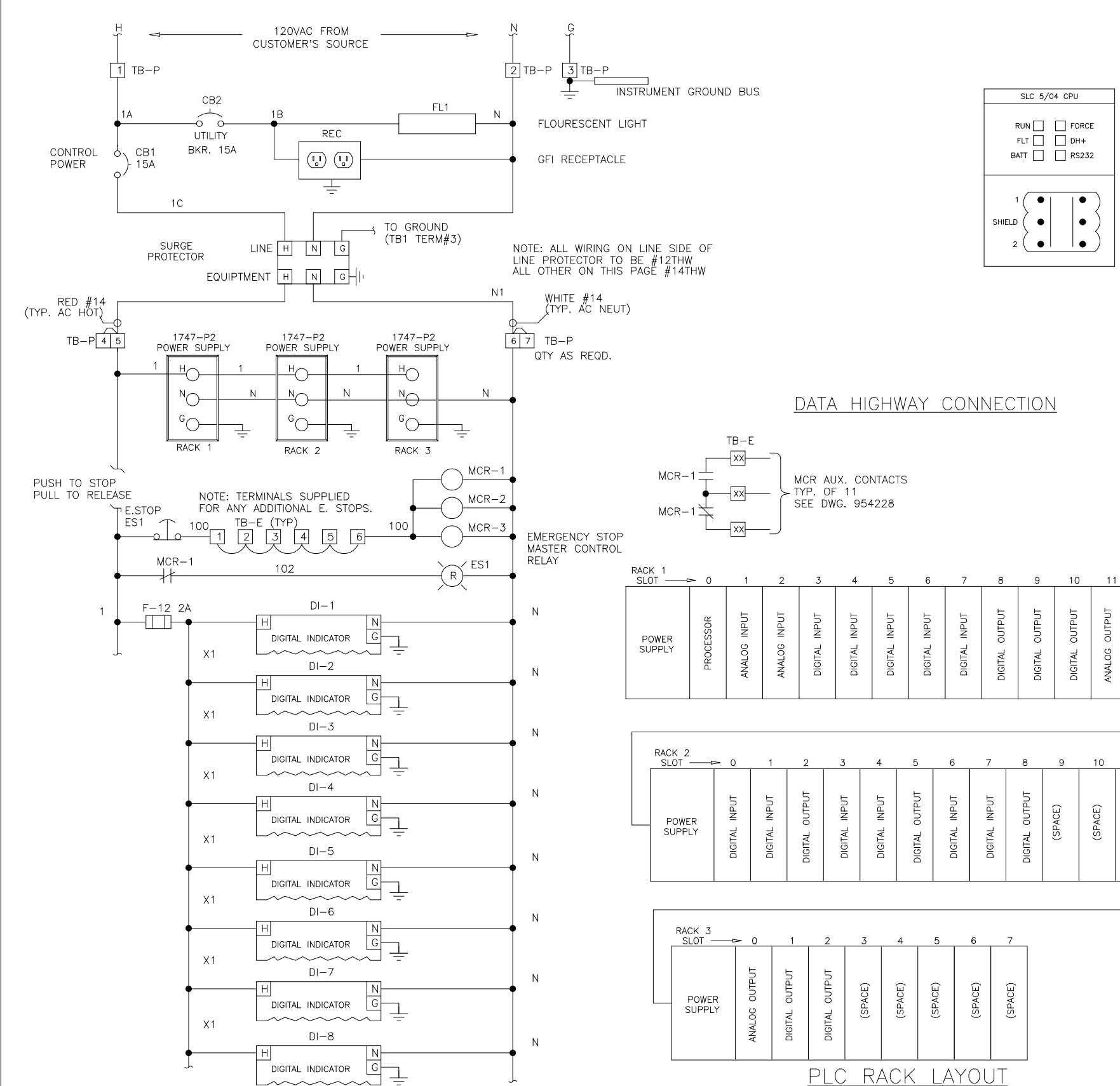


N14 ANALOG INPUT MODULE



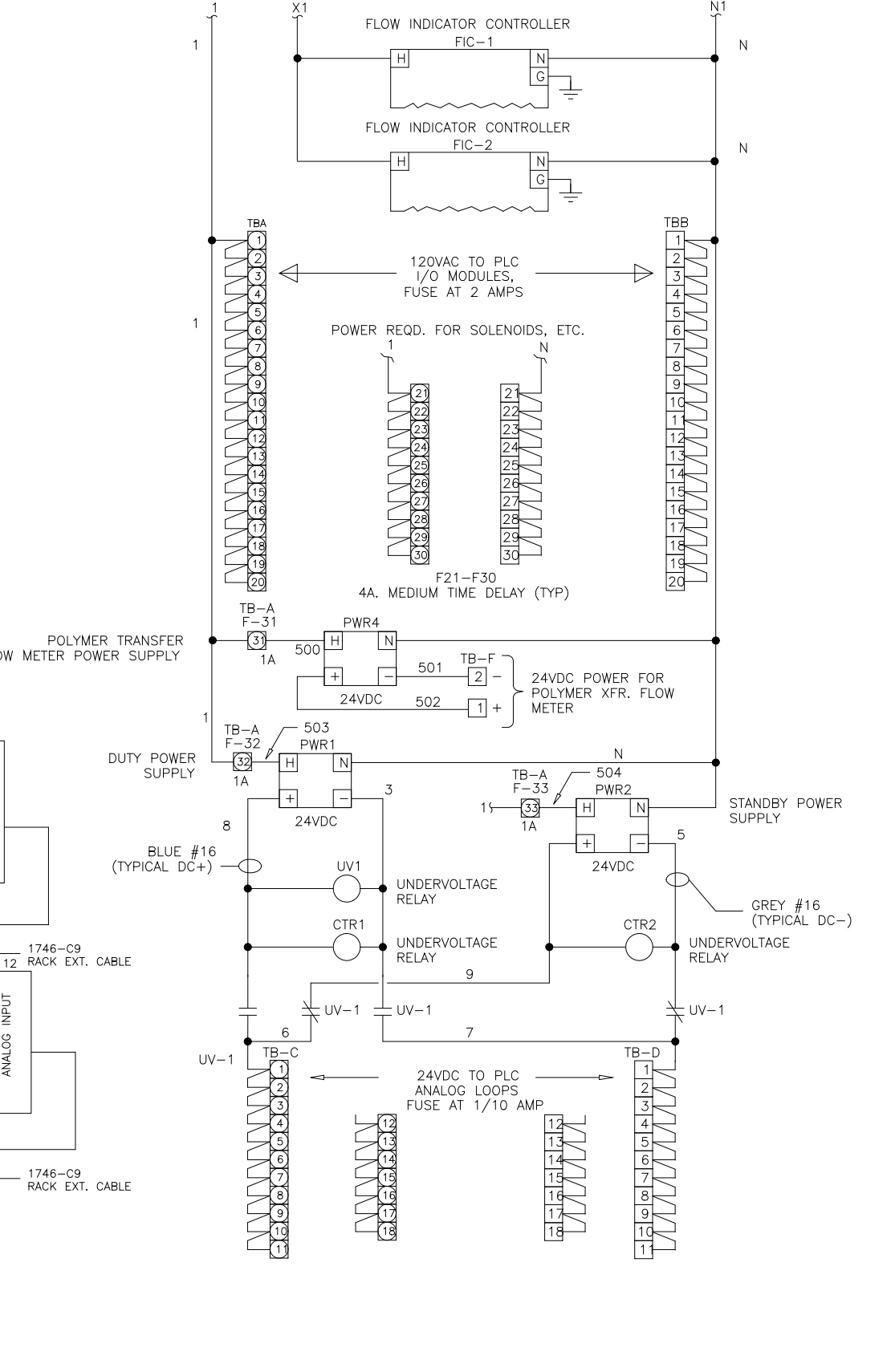
REV	DATE	PURPOSE	BY	CHK
C	10/97	REVISED AS BUILT	SCP	
B	8/97	REVISED PER REVIEW COMMENTS	JP	
A	4/97	ISSUED FOR APPROVAL	JA	

DES	J.A.	DRS	4/201	ELEMENTARY WIRING DIAGRAM	REV LTR	C
DRF	J.A.	SAR	4/201	ACID ODOR CONTROL PANEL	DWG NO	9542109
CHK	J.A.	SAR		ARLINGTON CO., VIRGINIA	SCALE	
SCALE				FOR: DANIS INDUSTRIES		AD0140CA



PLC RACK LAYOUT

DES	J.A.	DRS	4/201	POWER WIRING DIAGRAM	REV LTR	D
DRF	J.A.	SAR	4/201	ACID ODOR CONTROL PANEL	DWG NO	9542110
CHK	J.A.	SAR		ARLINGTON CO., VIRGINIA	SCALE	
SCALE				FOR: DANIS INDUSTRIES		AD008BPY



DES	J.A.	DRS	4/201	POWER WIRING DIAGRAM	REV LTR	D
DRF	J.A.	SAR	4/201	ACID ODOR CONTROL PANEL	DWG NO	9542111
CHK	J.A.	SAR		ARLINGTON CO., VIRGINIA	SCALE	
SCALE				FOR: DANIS INDUSTRIES		AD008BPY

NO.	ISSUED FOR	DATE	BY	APPROVED
DESIGNED	MKS			
DRAWN				
CHECKED				
PROJ. ENGR.				

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HAZEN AND SAWYER, P.C.

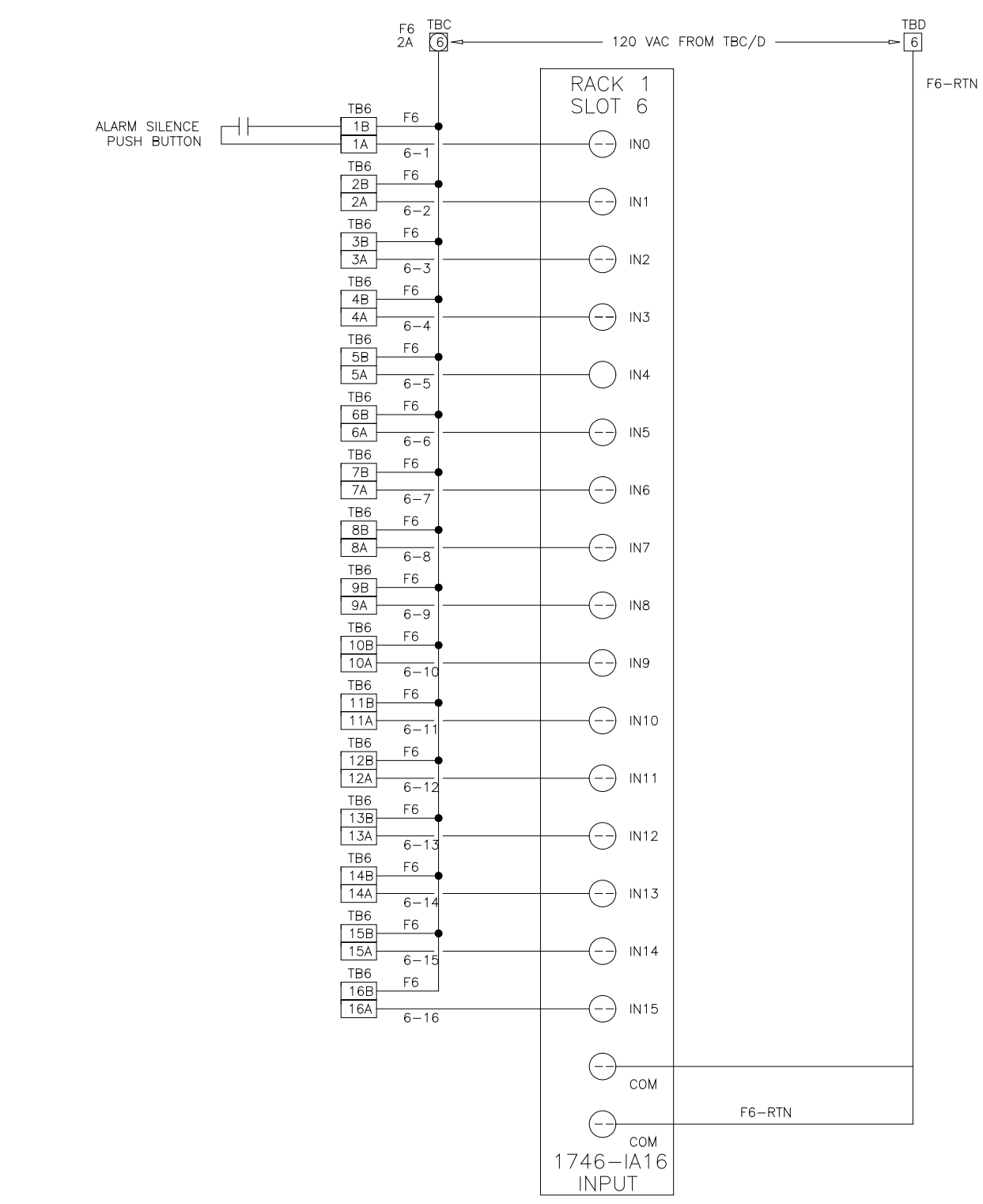
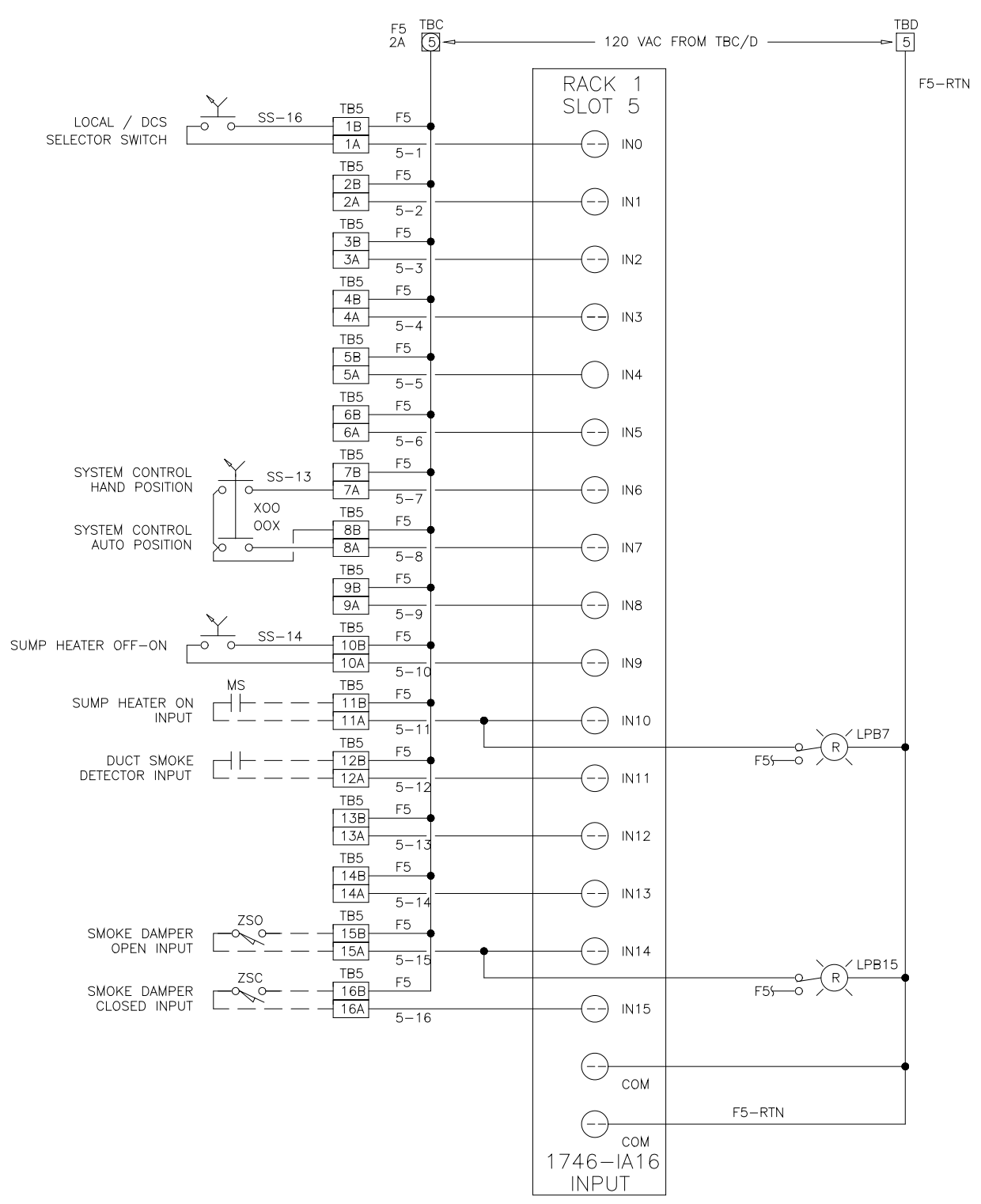
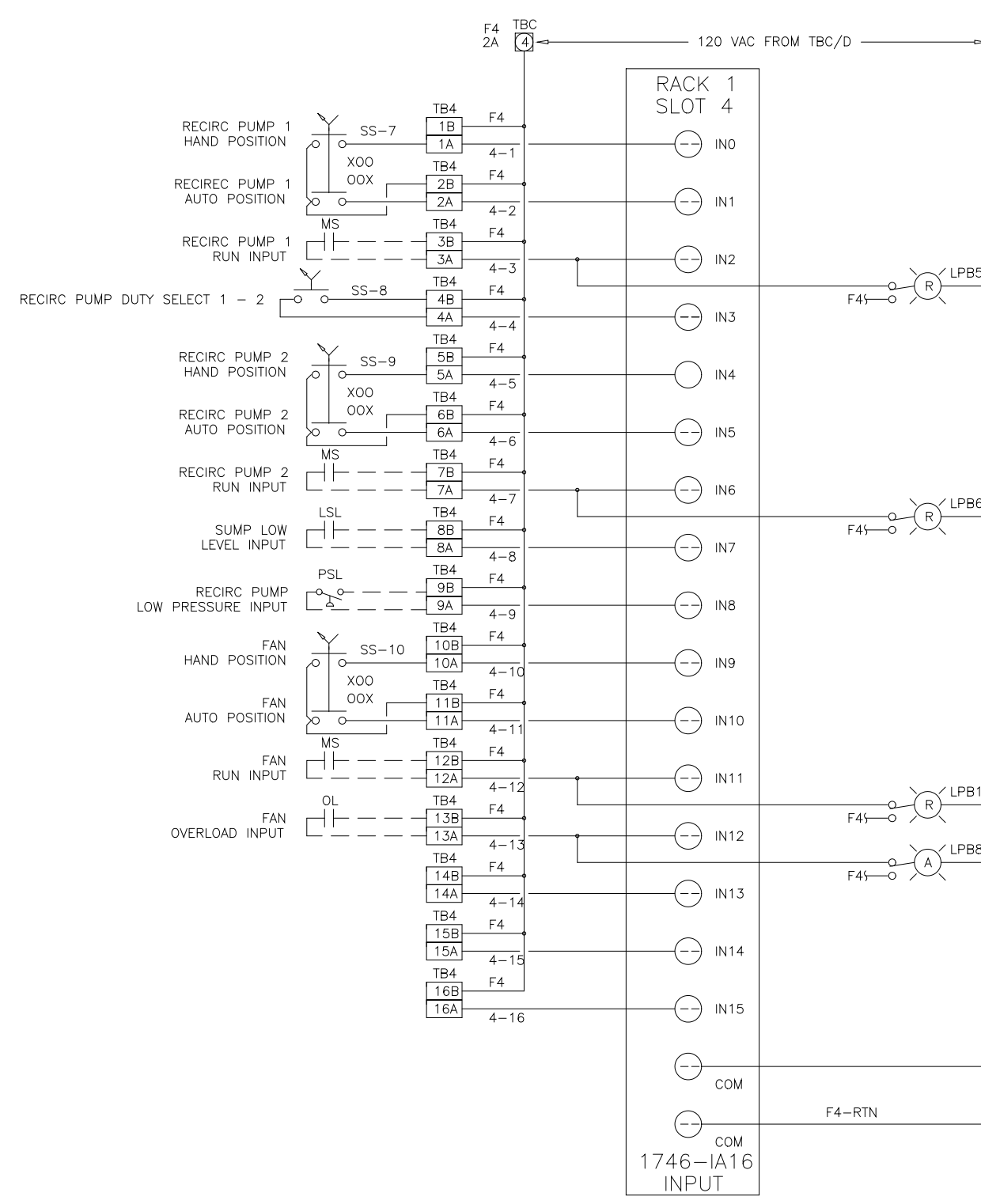
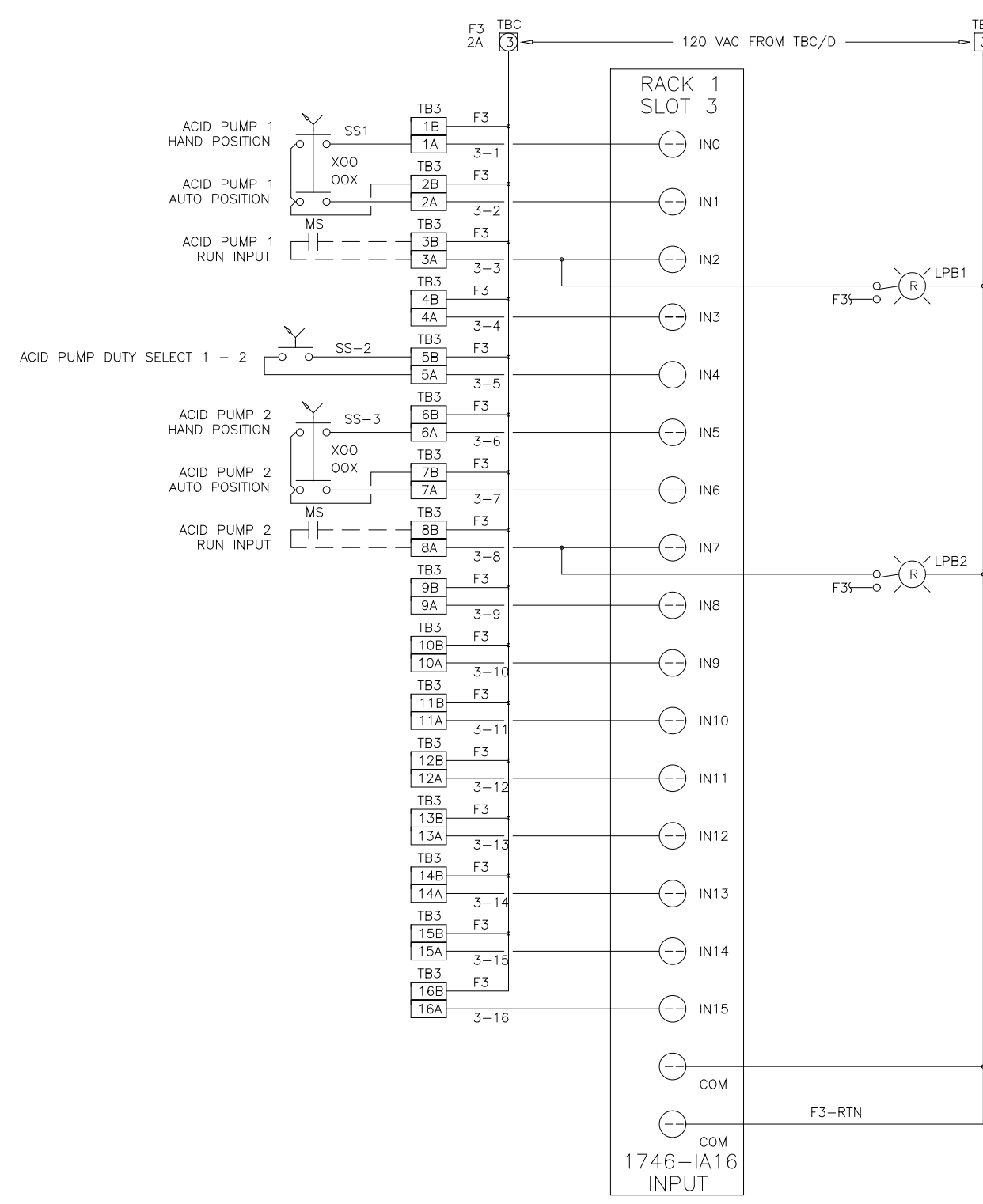
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RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLID PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-3
SHEET	31C of 199

RECORD DRAWING



NOTE: SUMP LEVEL, RECIRC PRESSURE, FAN TEMP, AND FAN VIBRATION ARE WIRED FAILSAFE. CLOSED = NORMAL. INDICATING LIGHTS FOR THESE ARE FROM PLC INVERTING OUTPUTS.

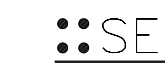
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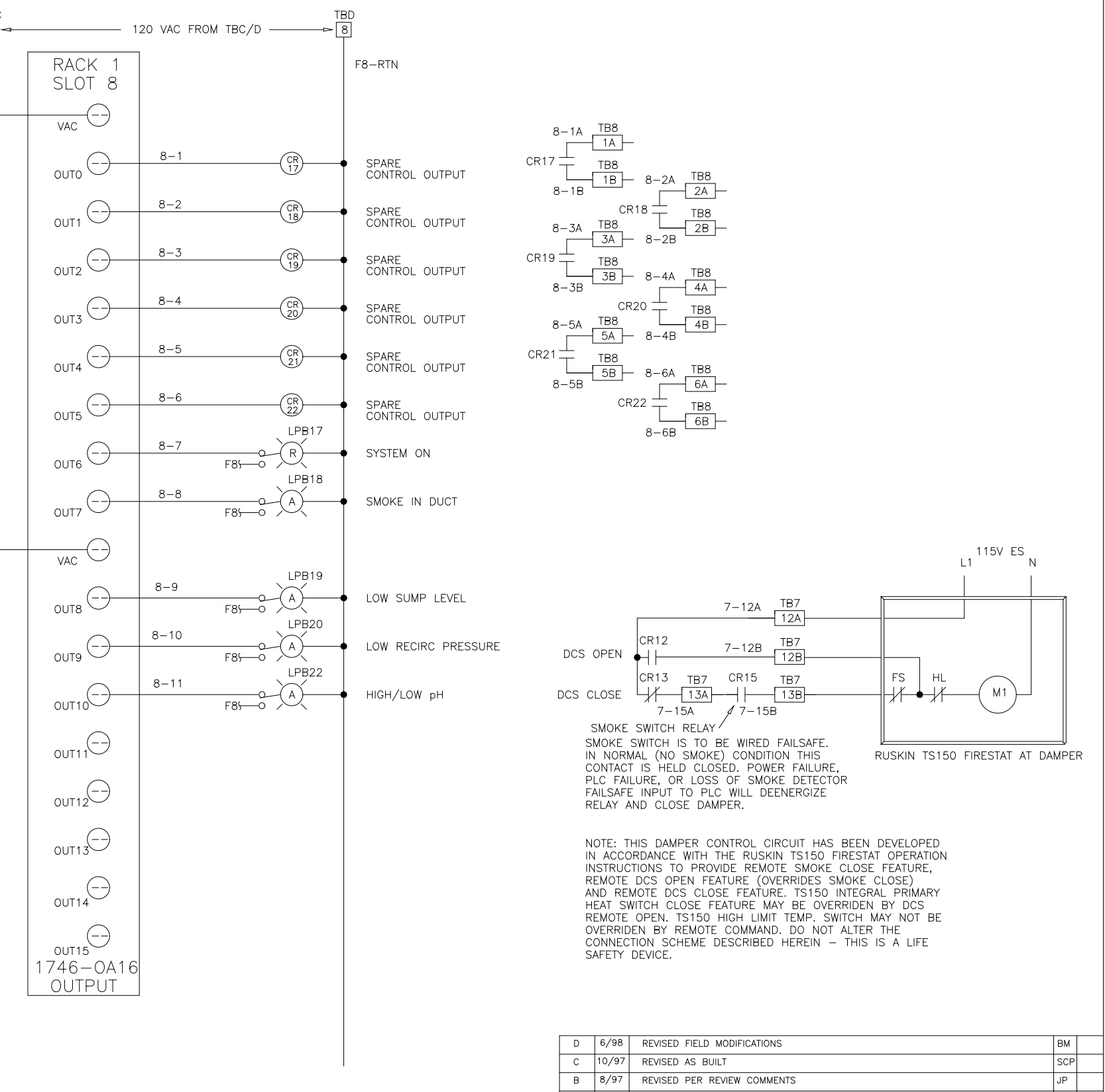
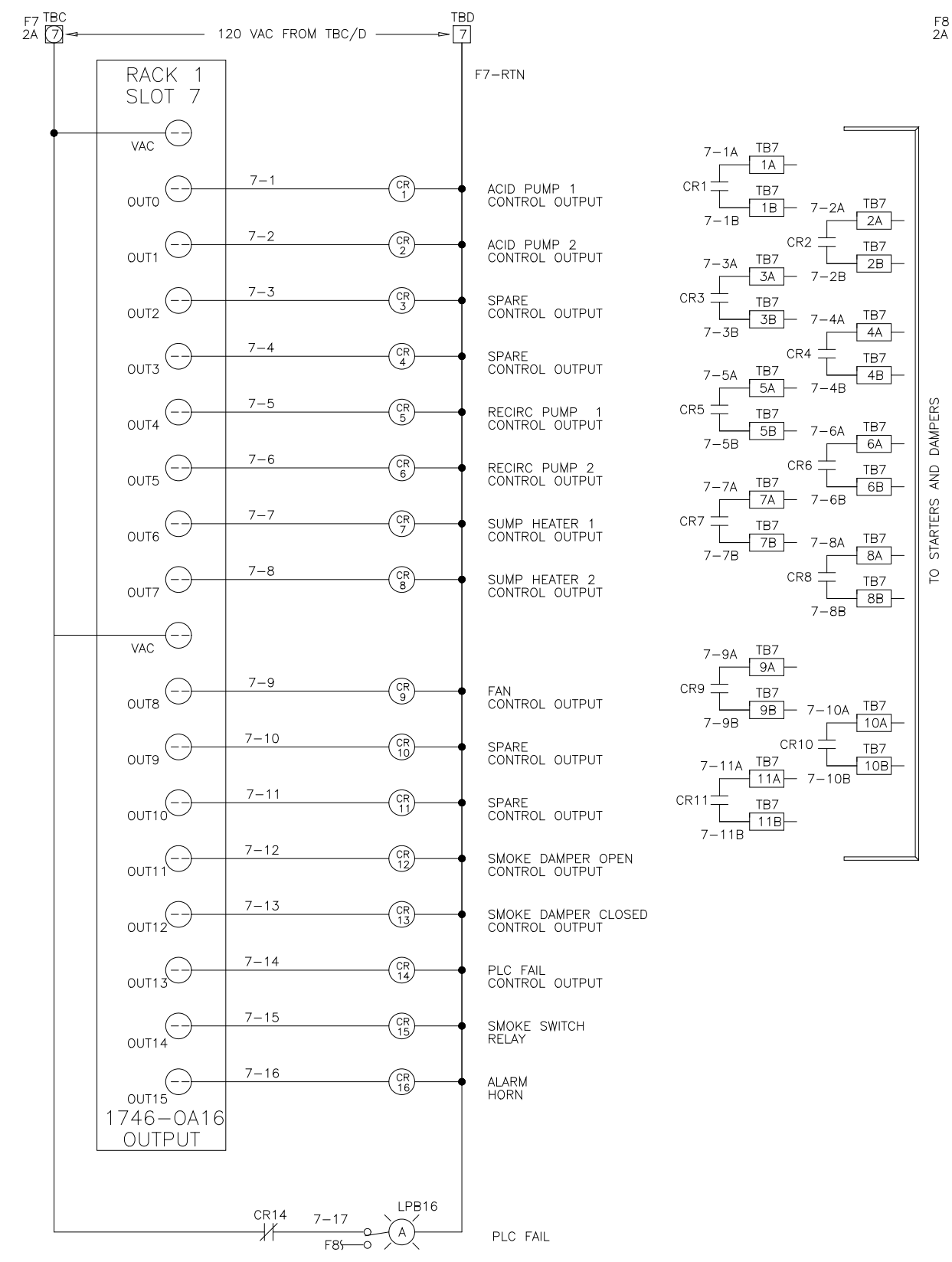
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DES: JA PSE 4/29/91 ELEMENTARY WIRING DIAGRAM ACID ODOR CONTROL PANEL ARLINGTON CO. VIRGINIA
 DRP: JA SAE 4/29/91
 CHK: MK SAE
 SCALE: FOR: DANIS INDUSTRIES ADO140CA
 REV LTR: C DWG NO: 9542110



DES: JA PSE 4/29/91 ELEMENTARY WIRING DIAGRAM ACID ODOR CONTROL PANEL ARLINGTON CO. VIRGINIA
 DRP: JA SAE 4/29/91
 CHK: MK SAE
 SCALE: FOR: DANIS INDUSTRIES ADO140CA
 REV LTR: E DWG NO: 9542111

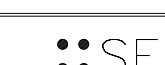


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DES: JA PSE 4/29/91 ELEMENTARY WIRING DIAGRAM ACID ODOR CONTROL PANEL ARLINGTON CO. VIRGINIA
 DRP: JA SAE 4/29/91
 CHK: MK SAE
 SCALE: FOR: DANIS INDUSTRIES ADO140CA
 REV LTR: D DWG NO: 9542112



DES: MA PSE 4/29/91 ELEMENTARY WIRING DIAGRAM POLYMER PUMP PANEL ARLINGTON CO. VIRGINIA
 DRP: MA SAE 4/29/91
 CHK: MK SAE
 SCALE: FOR: DANIS INDUSTRIES ADO08PY
 REV LTR: B DWG NO: 954212

DESIGNED	MKS
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
APPROVED	

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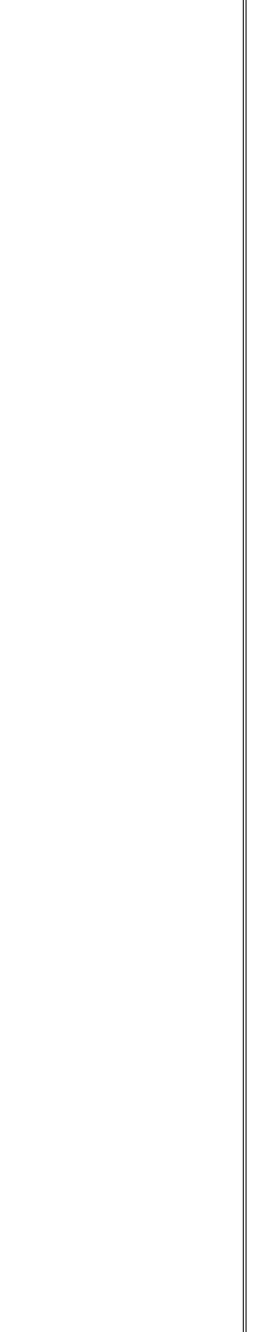
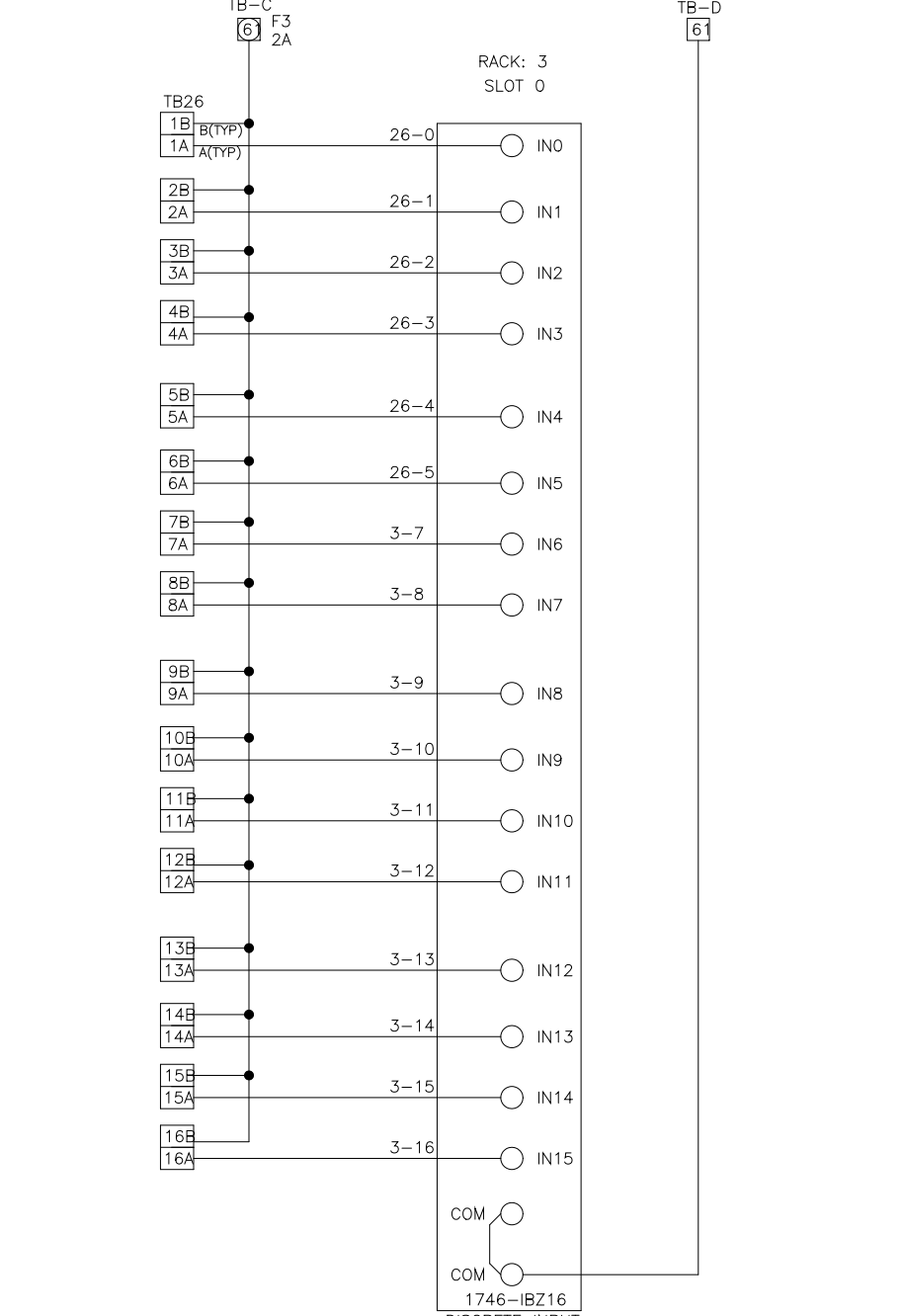
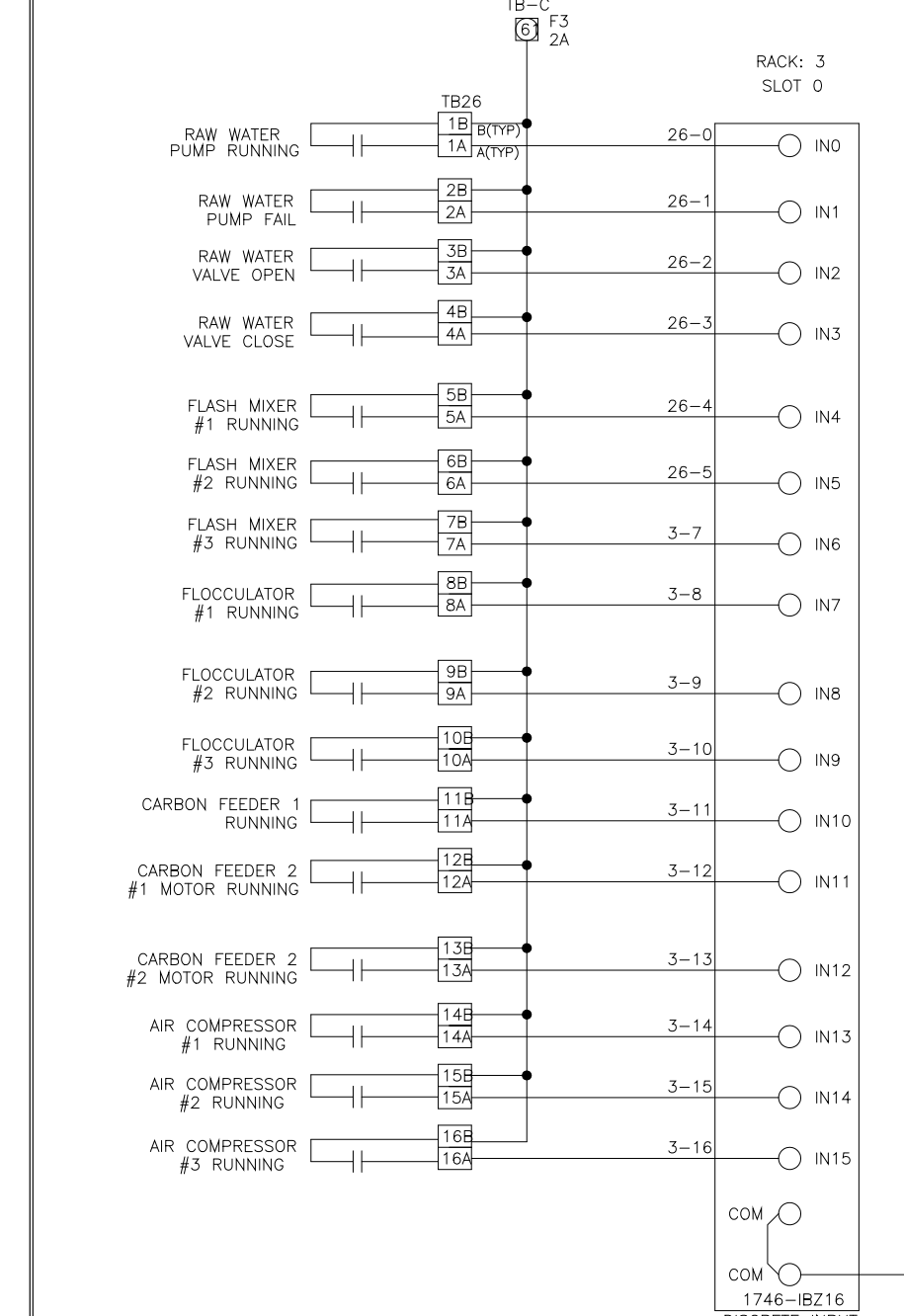
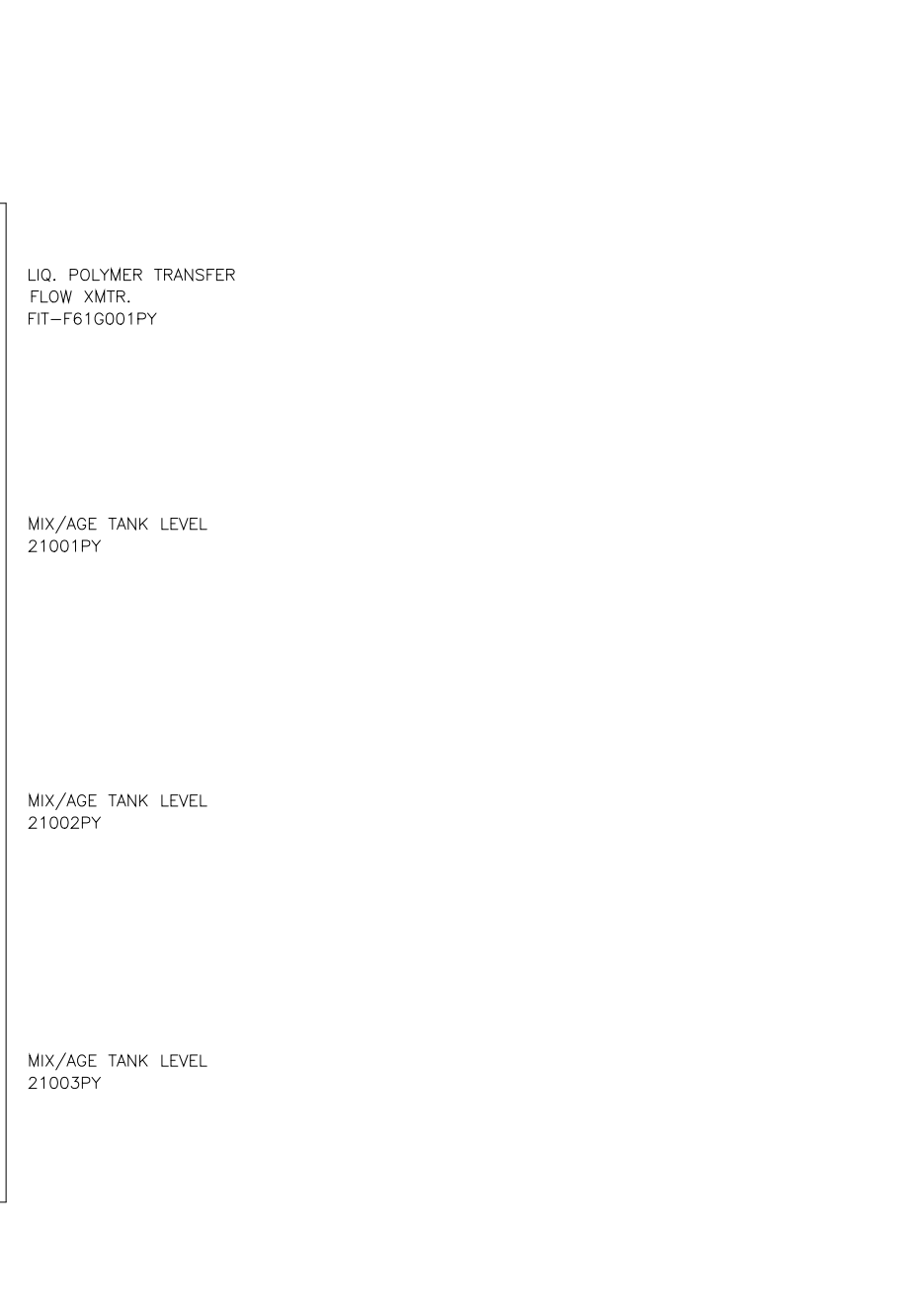
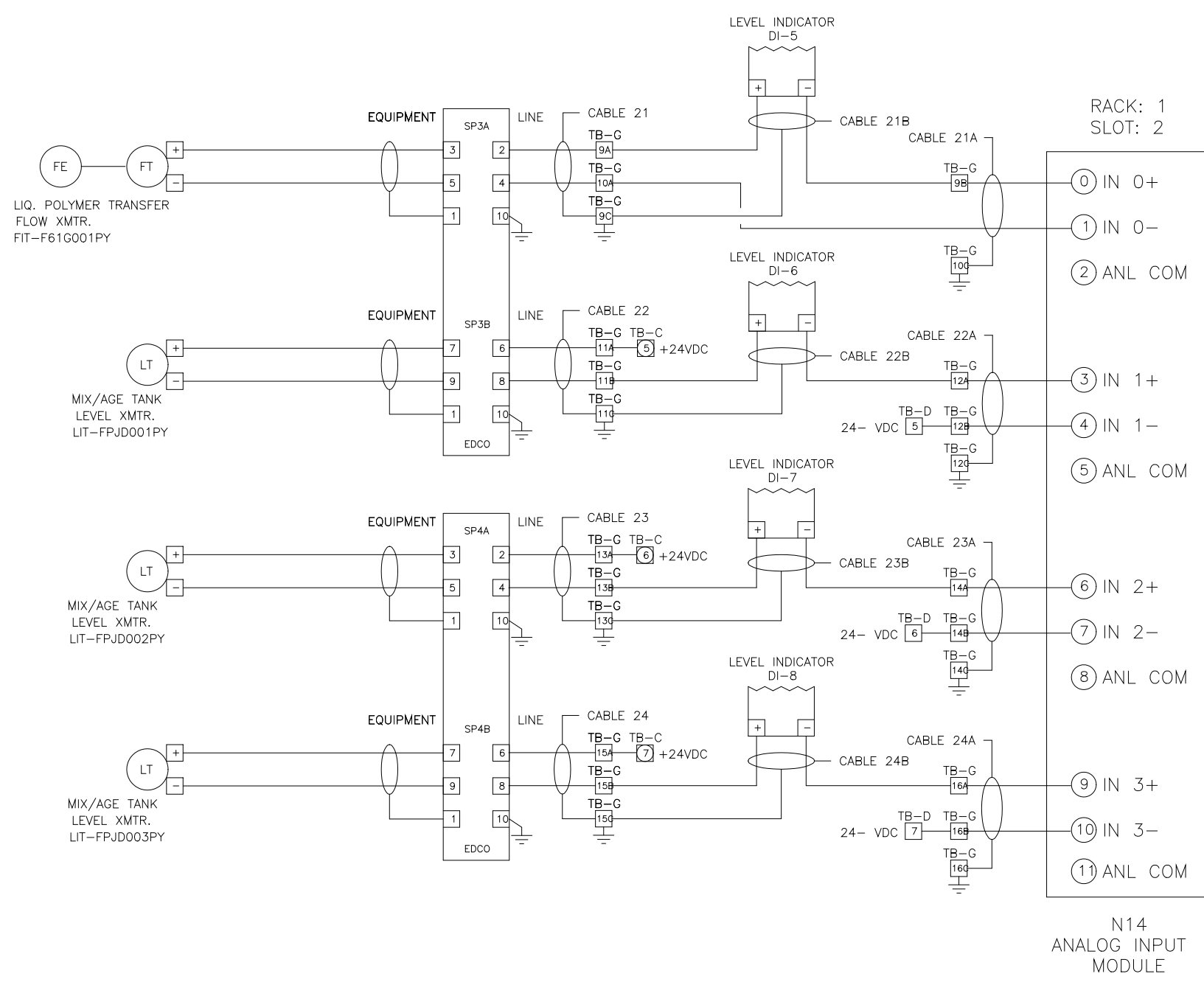
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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

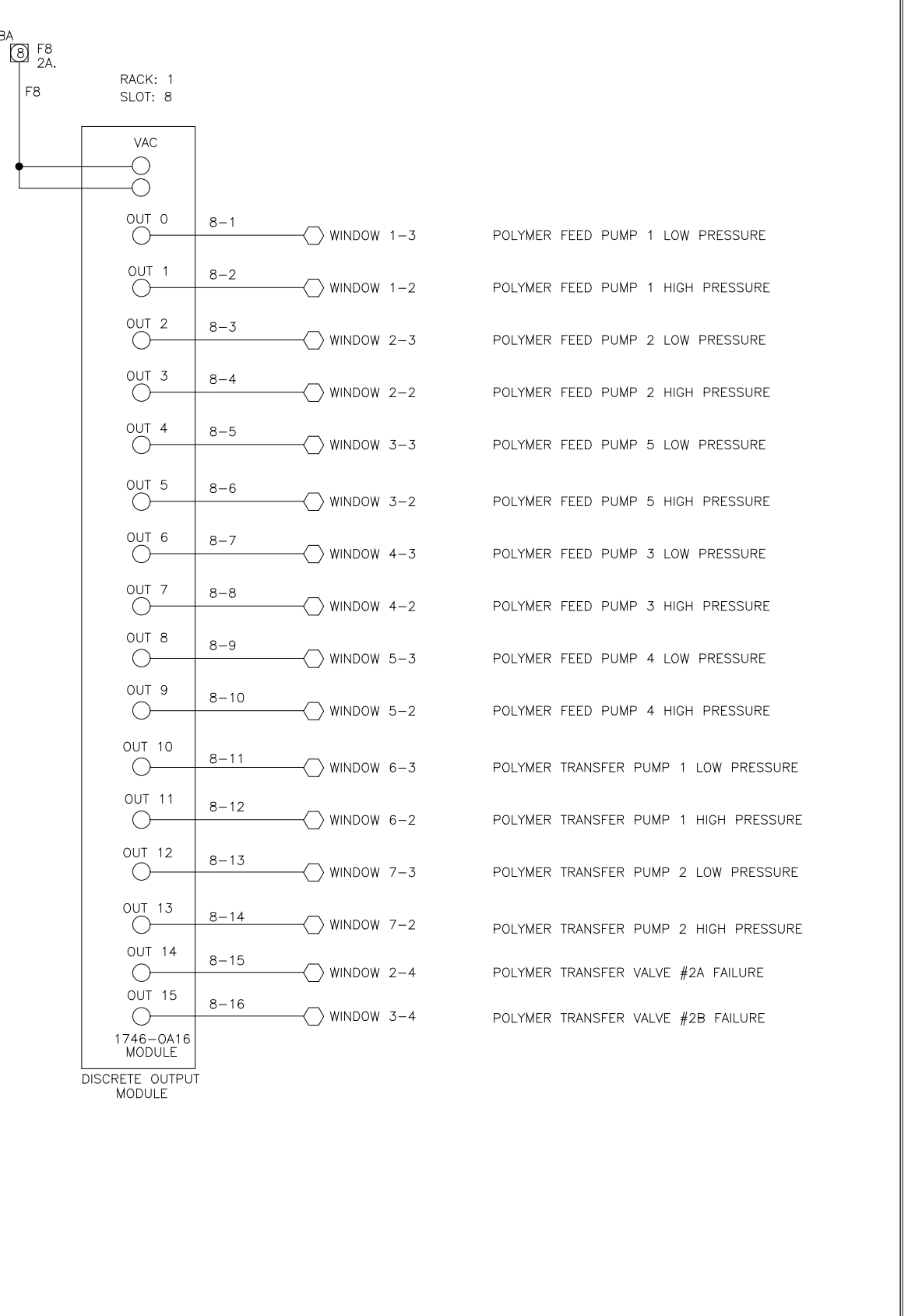
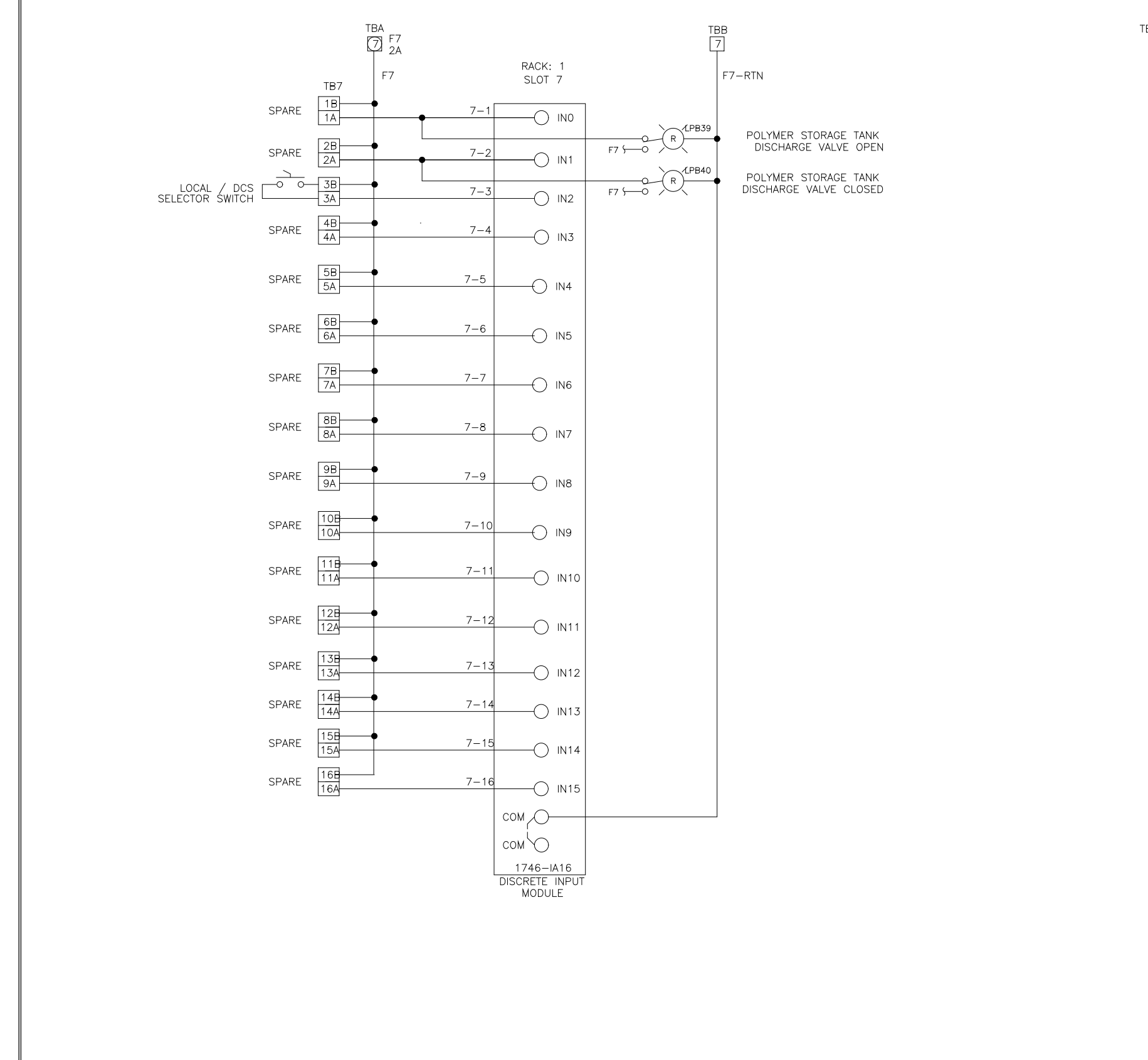
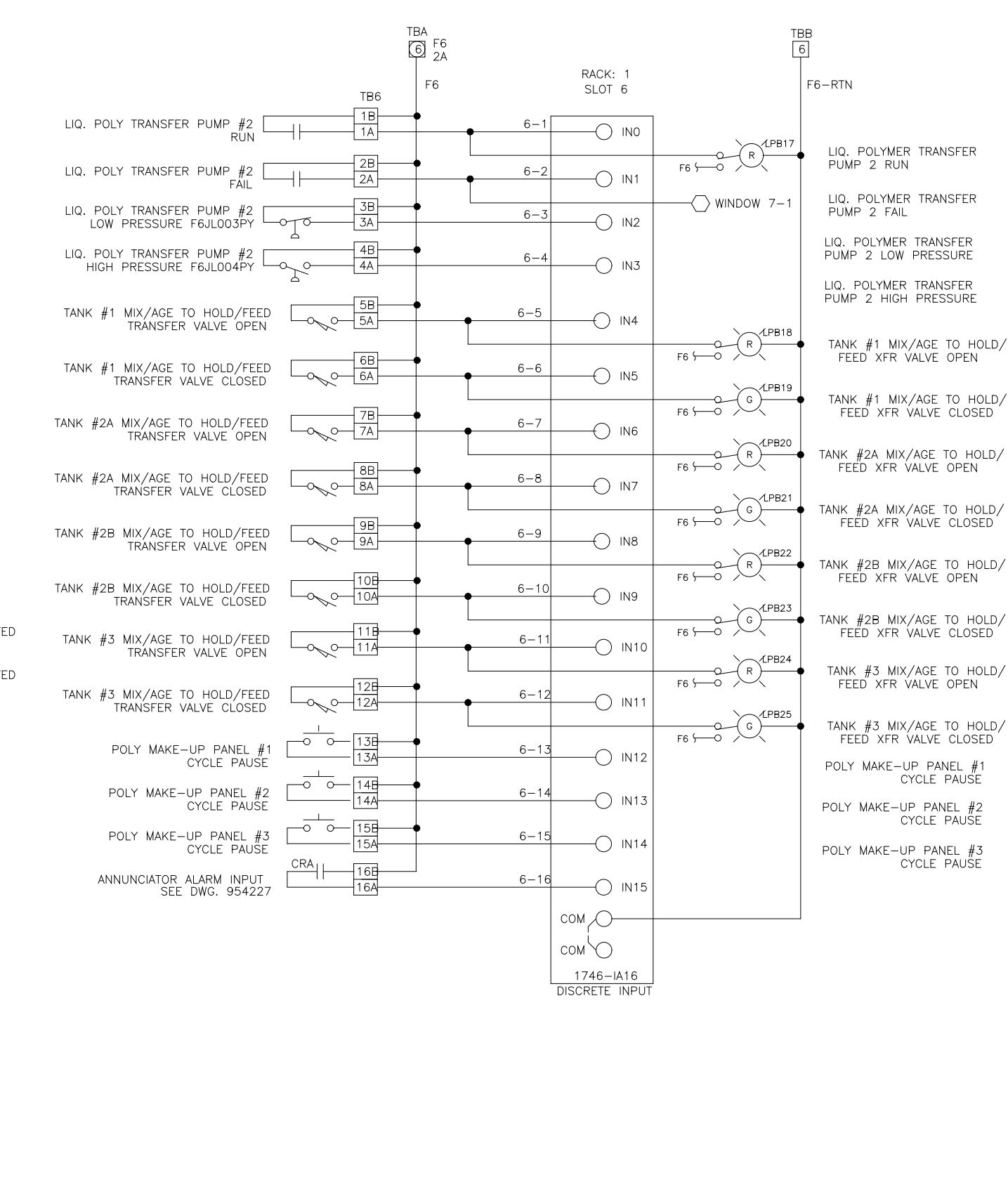
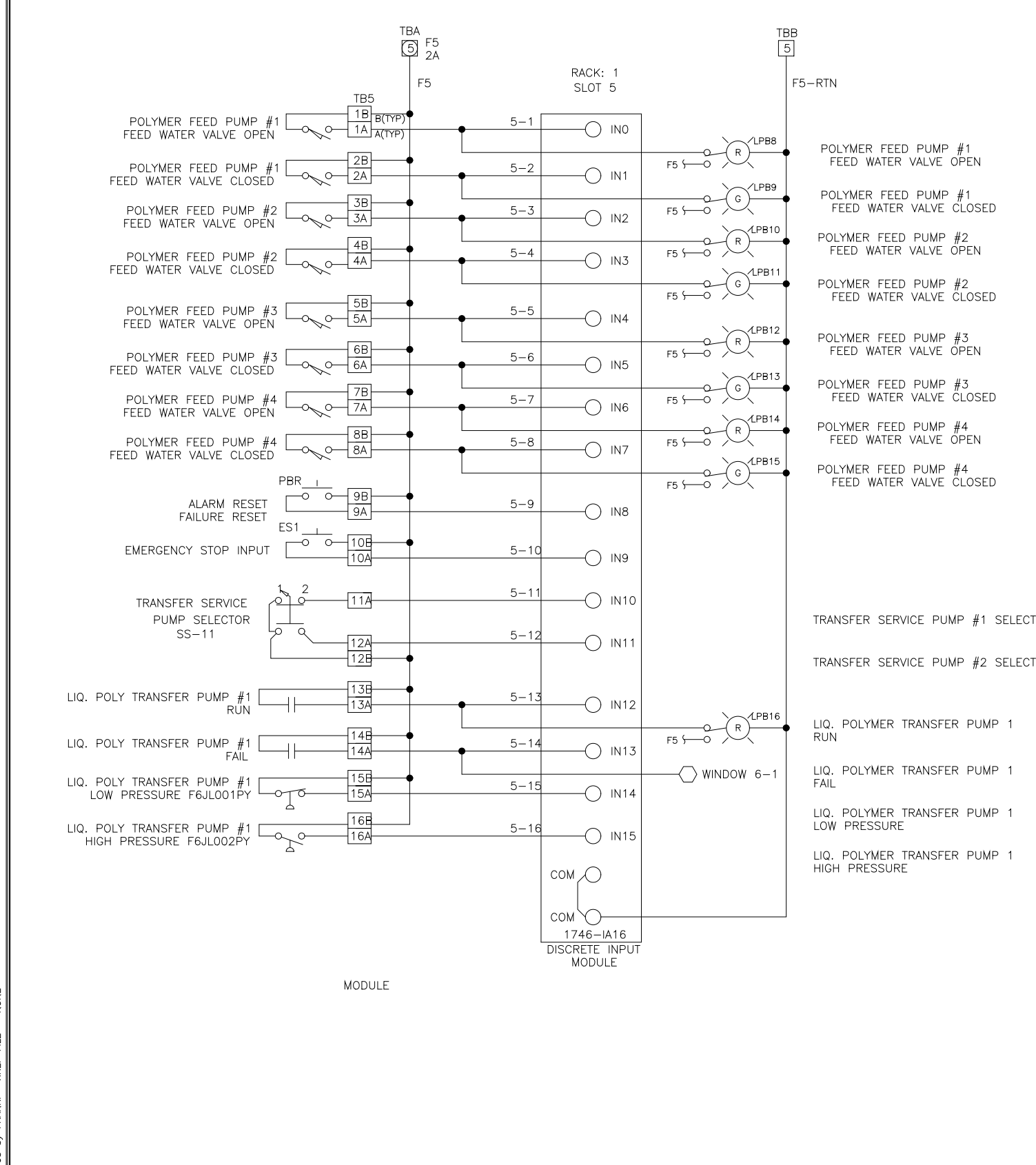
GENERAL
 PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-4
SHEET	31D OF 199

RECORD DRAWING



DES	MA	DATE	REVISION	BY	DESCRIPTION	REV LTR	DATE	PURPOSE
SEI	MA	10/96	B	MA	REVISD AS BUILT	B	10/96	REVISED AS BUILT
SEI	MA	10/96	C	MA	REVISD FOR CONSTRUCTION	C	2/97	REVISD FOR CONSTRUCTION
SEI	MA	6/96	B	MA	REVISD PER ENGINEERING COMMENTS	B	6/96	REVISD PER ENGINEERING COMMENTS
SEI	MA	10/96	A	MA	ISSUED FOR APPROVAL	A	10/96	ISSUED FOR APPROVAL



DES	MA	DATE	REVISION	BY	DESCRIPTION	REV LTR	DATE	PURPOSE
SEI	MA	10/96	D	MA	REVISD AS BUILT	D	10/96	REVISD AS BUILT
SEI	MA	2/97	C	MA	REVISD FOR CONSTRUCTION	C	2/97	REVISD FOR CONSTRUCTION
SEI	MA	6/96	B	MA	REVISD PER ENGINEERING COMMENTS	B	6/96	REVISD PER ENGINEERING COMMENTS
SEI	MA	10/96	A	MA	ISSUED FOR APPROVAL	A	10/96	ISSUED FOR APPROVAL

DESIGNED	MKS			
DRAWN	MKS			
CHECKED				
PROJ. ENGR.				
NO.	ISSUED FOR	DATE	BY	APPROVED

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HAZEN AND SAWYER, P.C.

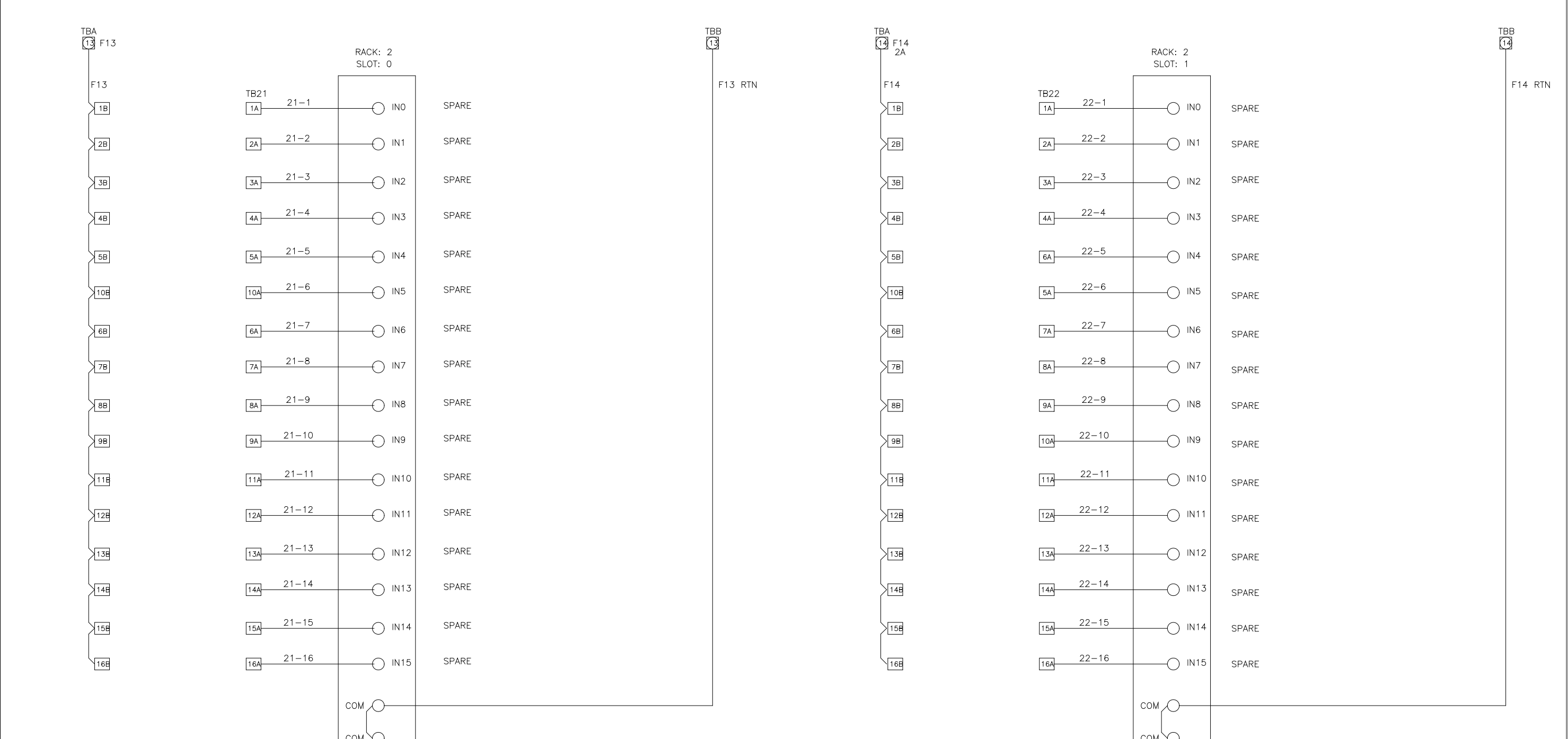
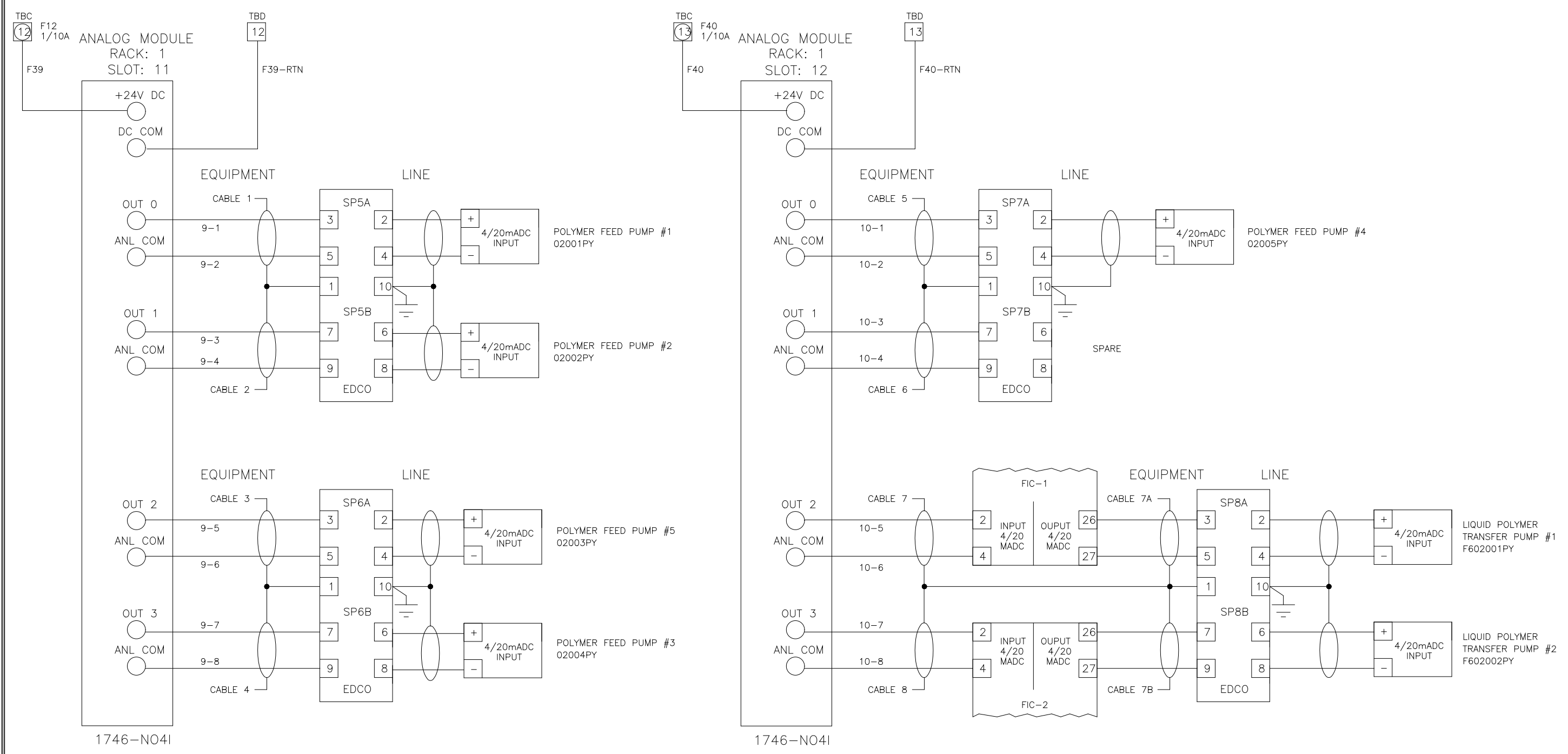
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-5
SHEET	33E OF 199

RECORD DRAWING



DES	MA	DATE	10/98	REV LTR	C
DRF	MA	DATE	6/97	DWG NO	954218
CHK	MA	DATE	12/96		
SCALE					

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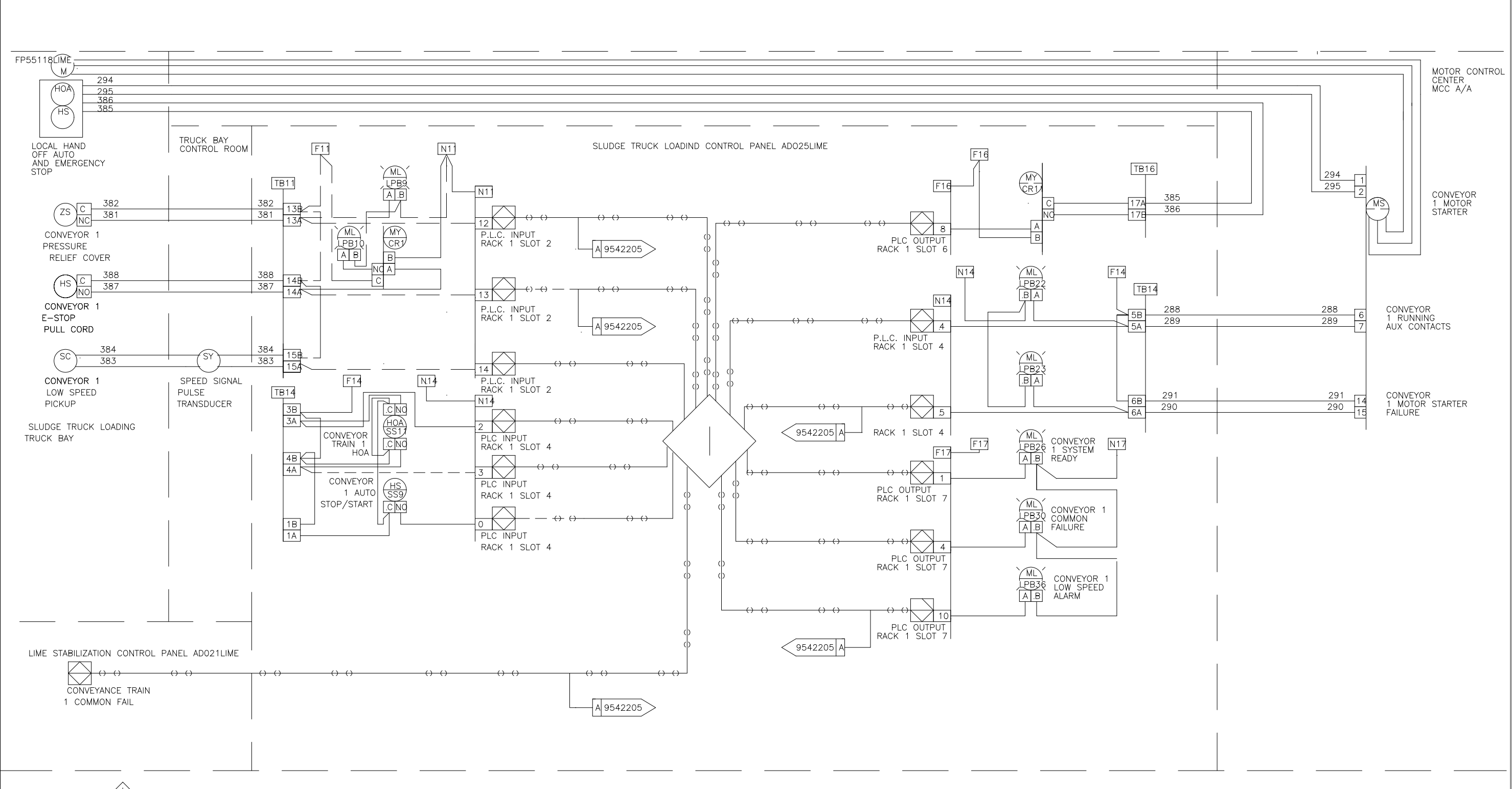
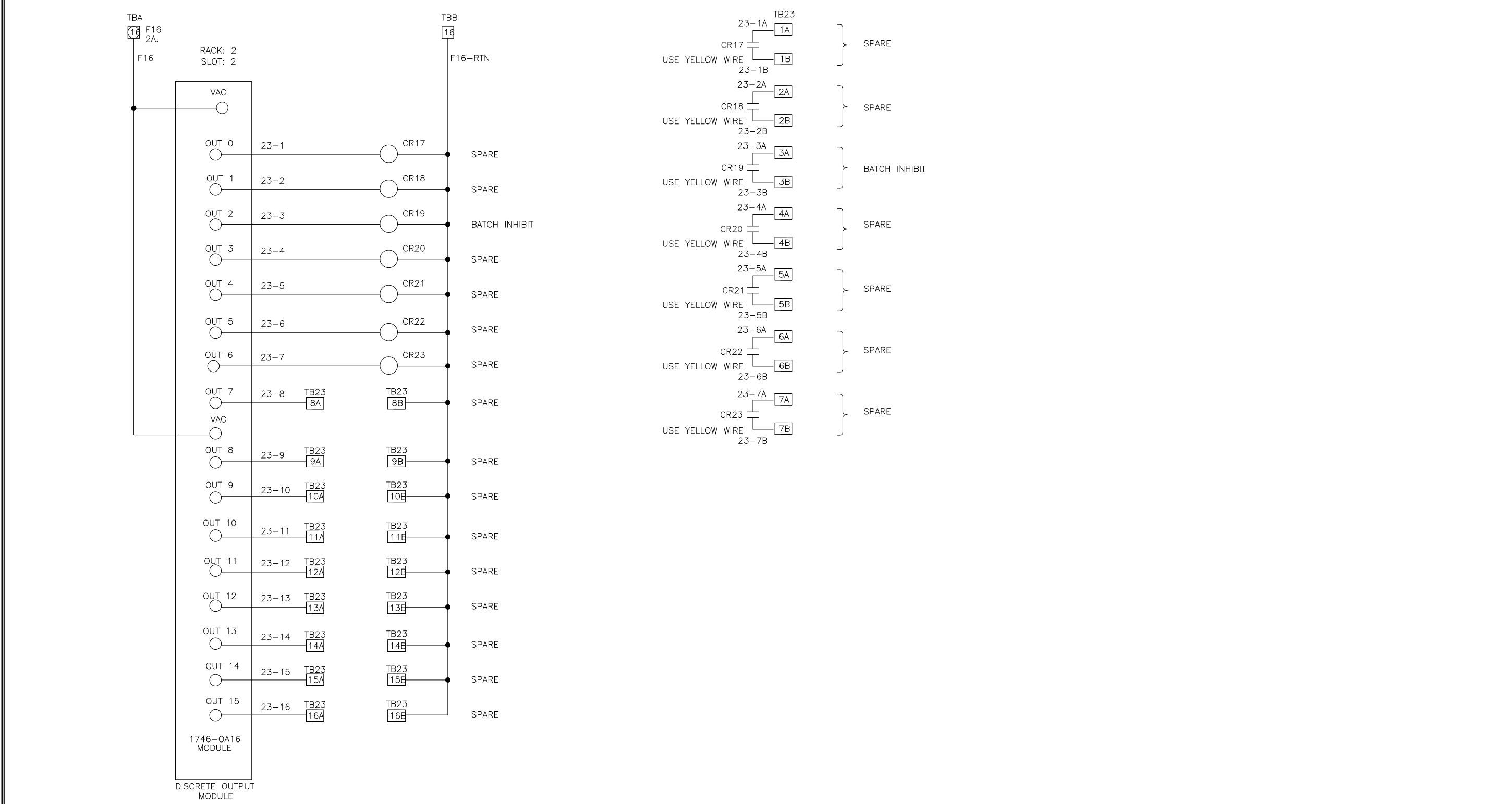
ELEMENTARY WIRING DIAGRAM POLYMER PUMP PANEL ARLINGTON CO., VIRGINIA FOR: DANIS INDUSTRIES ADO08PY

DES	MA	DATE	10/98	REV LTR	D
DRF	MA	DATE	6/97	DWG NO	954219
CHK	MA	DATE	12/96		
SCALE					

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POLYMER MAKE-UP PANEL CONNECTIONS POLYMER PUMP PANEL ARLINGTON CO., VIRGINIA FOR: DANIS INDUSTRIES ADO08PY



DES	MA	DATE	10/98	REV LTR	D
DRF	MA	DATE	6/97	DWG NO	954220
CHK	MA	DATE	12/96		
SCALE					

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POLYMER MAKE-UP PANEL CONNECTIONS POLYMER PUMP & INTERFACE PANEL ARLINGTON CO., VIRGINIA FOR: DANIS INDUSTRIES ADO08PY

DES	MA	DATE	10/98	REV LTR	D
DRF	MA	DATE	6/97	DWG NO	954220
CHK	MA	DATE	12/96		
SCALE					

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USA FORMAT LOOP INTERLOCK DWG SLUDGE TRUCK LOADING CONTROL PANEL ADO25LIME FOR: DANIS HEAVY CONSTRUCTION

NO.	ISSUED FOR	DATE	BY	APPROVED

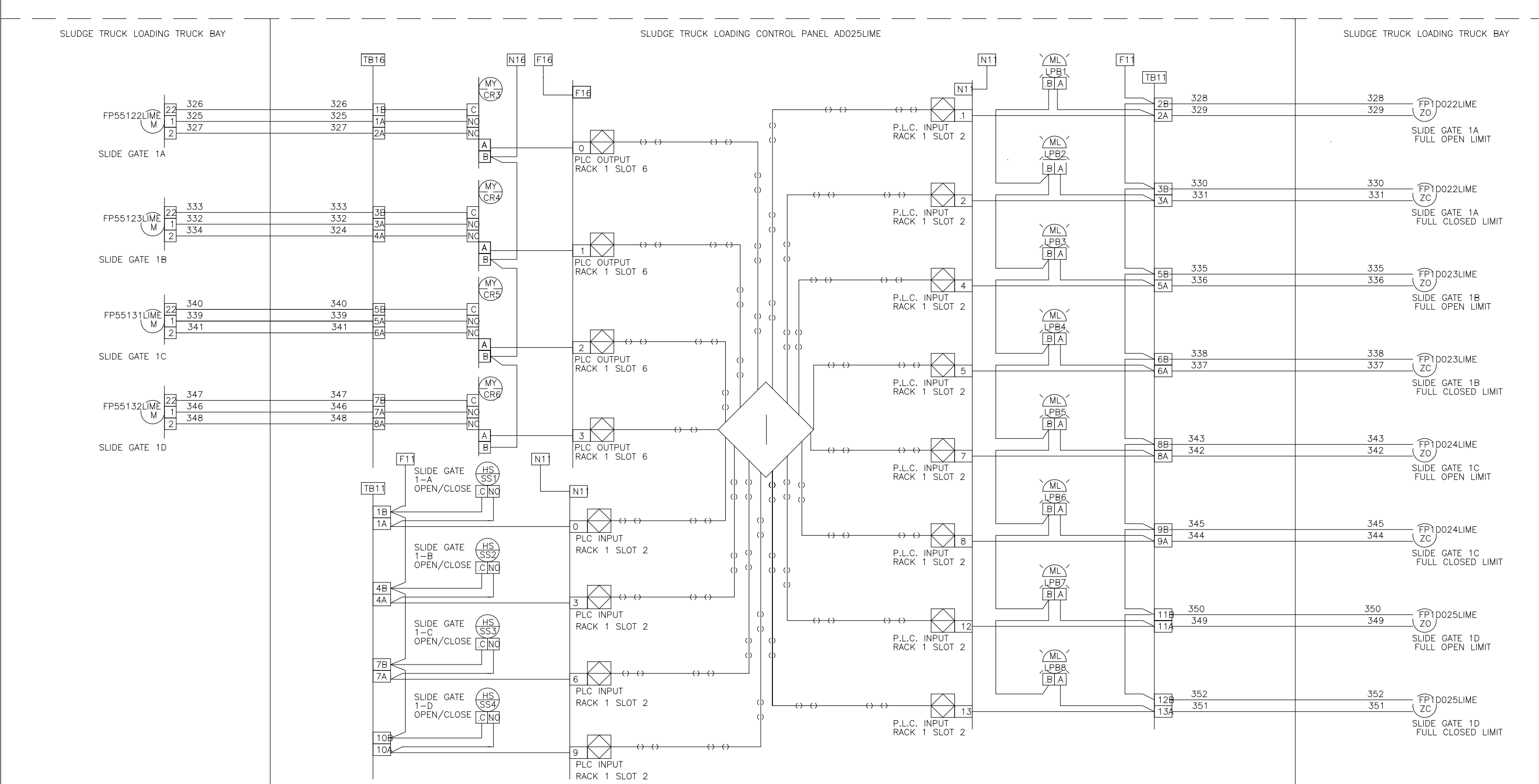
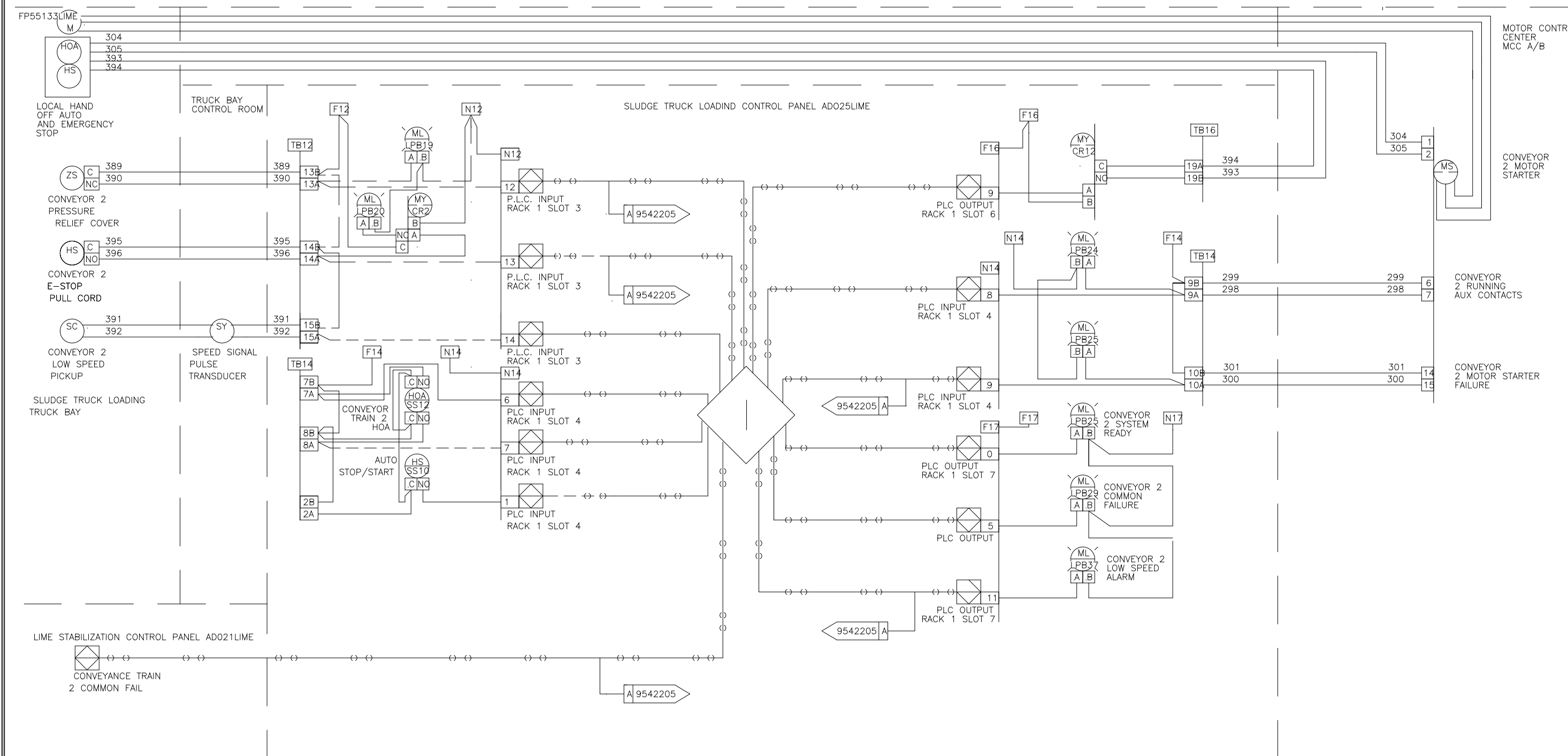
DESIGNED: _____
 DRAWN: MKS
 CHECKED: _____
 PROJ. ENGR: _____

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION

DATE: JULY 99
 H & S JOB NUMBER: 2843
 CONTRACT NUMBER: 93-02-WPC
 DRAWING NUMBER: IP-6
 SHEET 33F OF 199

RECORD DRAWING

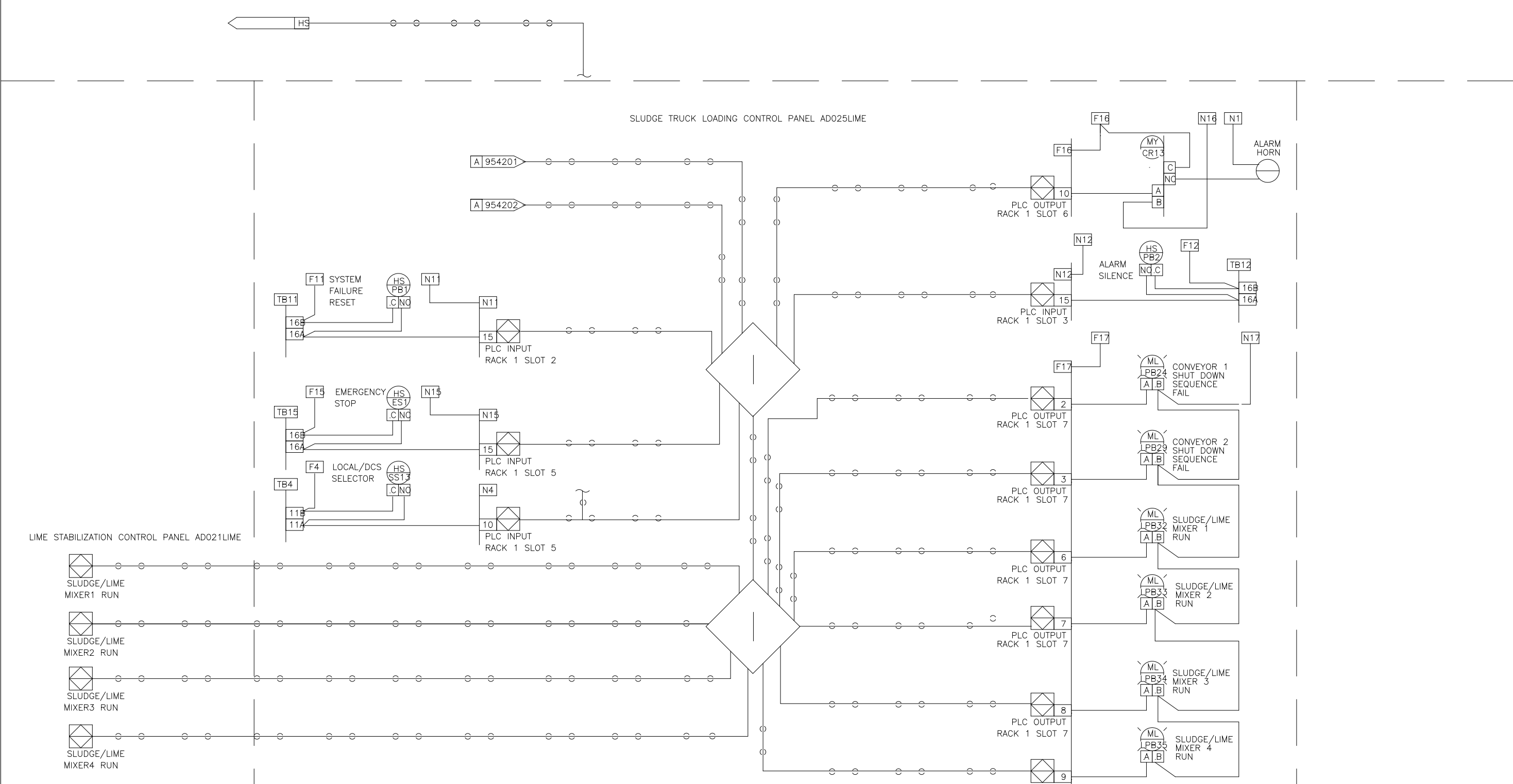
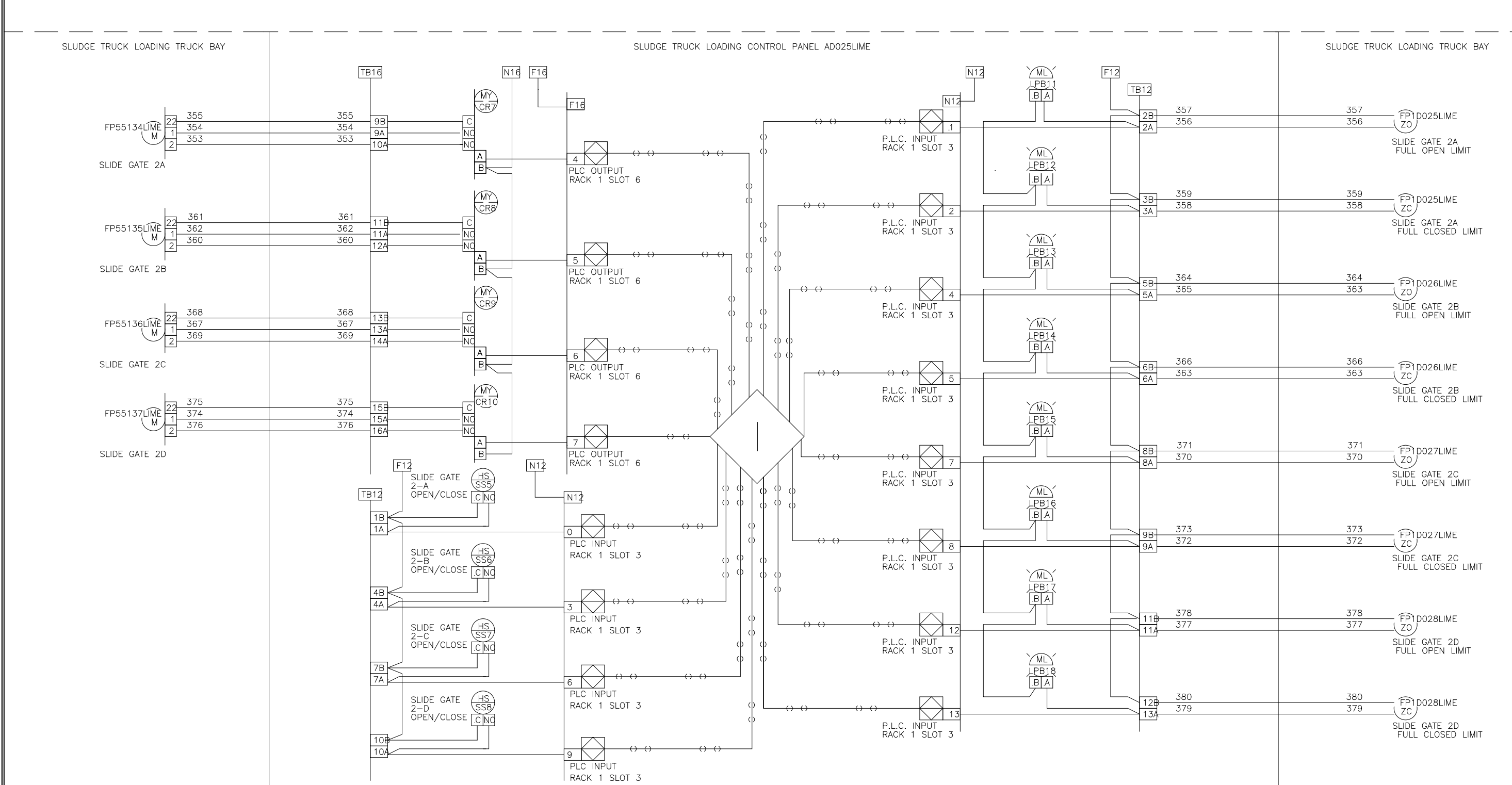


◆ SLUDGE TRUCK LOADING TRUCK BAY CONVEYOR TRAIN TWO INTERLOCKS
 A 9542205 ALARM HORN INTERLOCKS SHOWN ON DWG 9542205

◆ THE FOUR SLIDE GATES ASSOCIATED WITH CONVEYANCE TRAIN ONE ARE: (SLIDE GATE 1A FP55122LIME) - (SLIDE GATE 1B FP55123LIME) - (SLIDE GATE 1C FP55131LIME) - (SLIDE GATE 1D FP55132LIME)
 THESE FOUR GATES ARE INTERLOCKED WITH CONVEYANCE TRAIN ONE MOTOR (FP55118 LIME) THE INTERLOCK STATEMENT IS: ONE OF THE FOUR SLIDE GATES MUST BE OPEN FOR THE CONVEYOR MOTOR TO RUN

DES	BM	17/98	I.S.A. FORMAT LOOP INTERLOCK DWG	REV LTR
DRF	BM	3/01	SLUDGE TRUCK LOADING CONTROL PANEL	DWG NO
CHK	BM	3/01	ADO25LIME	9542202
SCALE			FOR: DANIS HEAVY CONSTRUCTION	

DES	BM	17/98	I.S.A. FORMAT LOOP INTERLOCK DWG	REV LTR
DRF	BM	3/01	SLUDGE TRUCK LOADING CONTROL PANEL	DWG NO
CHK	BM	3/01	ADO25LIME	9542203
SCALE			FOR: DANIS HEAVY CONSTRUCTION	



◆ THE FOUR SLIDE GATES ASSOCIATED WITH THE TRUCK LOADING CONVEYANCE TRAIN TWO ARE: (SLIDE GATE 2A FP55134LIME) - (SLIDE GATE 2B FP55135LIME) - (SLIDE GATE 2C FP55136LIME) - (SLIDE GATE 2D FP55137LIME)
 THESE FOUR GATES ARE INTERLOCKED WITH CONVEYANCE TRAIN TWO MOTOR (FP55131 LIME) THE INTERLOCK STATEMENT IS: ONE OF THE FOUR SLIDE GATES MUST BE OPEN FOR THE CONVEYOR MOTOR TO RUN

◆ THE FOUR SLIDE GATES ASSOCIATED WITH CONVEYANCE TRAIN ONE ARE: (SLIDE GATE 1A FP55122LIME) - (SLIDE GATE 1B FP55123LIME) - (SLIDE GATE 1C FP55131LIME) - (SLIDE GATE 1D FP55132LIME)
 THESE FOUR GATES ARE INTERLOCKED WITH CONVEYANCE TRAIN ONE MOTOR (FP55118 LIME) THE INTERLOCK STATEMENT IS: ONE OF THE FOUR SLIDE GATES MUST BE OPEN FOR THE CONVEYOR MOTOR TO RUN

DES	BM	17/98	I.S.A. FORMAT LOOP INTERLOCK DWG	REV LTR
DRF	BM	3/01	SLUDGE TRUCK LOADING CONTROL PANEL	DWG NO
CHK	BM	3/01	ADO25LIME	9542204
SCALE			FOR: DANIS HEAVY CONSTRUCTION	

DES	BM	17/98	I.S.A. FORMAT LOOP INTERLOCK DWG	REV LTR
DRF	BM	3/01	SLUDGE TRUCK LOADING CONTROL PANEL	DWG NO
CHK	BM	3/01	ADO25LIME	9542205
SCALE			FOR: DANIS HEAVY CONSTRUCTION	

DESIGNED	MKS			
DRAWN	MKS			
CHECKED				
PROJ. ENGR.				
NO.	ISSUED FOR	DATE	BY	APPROVED

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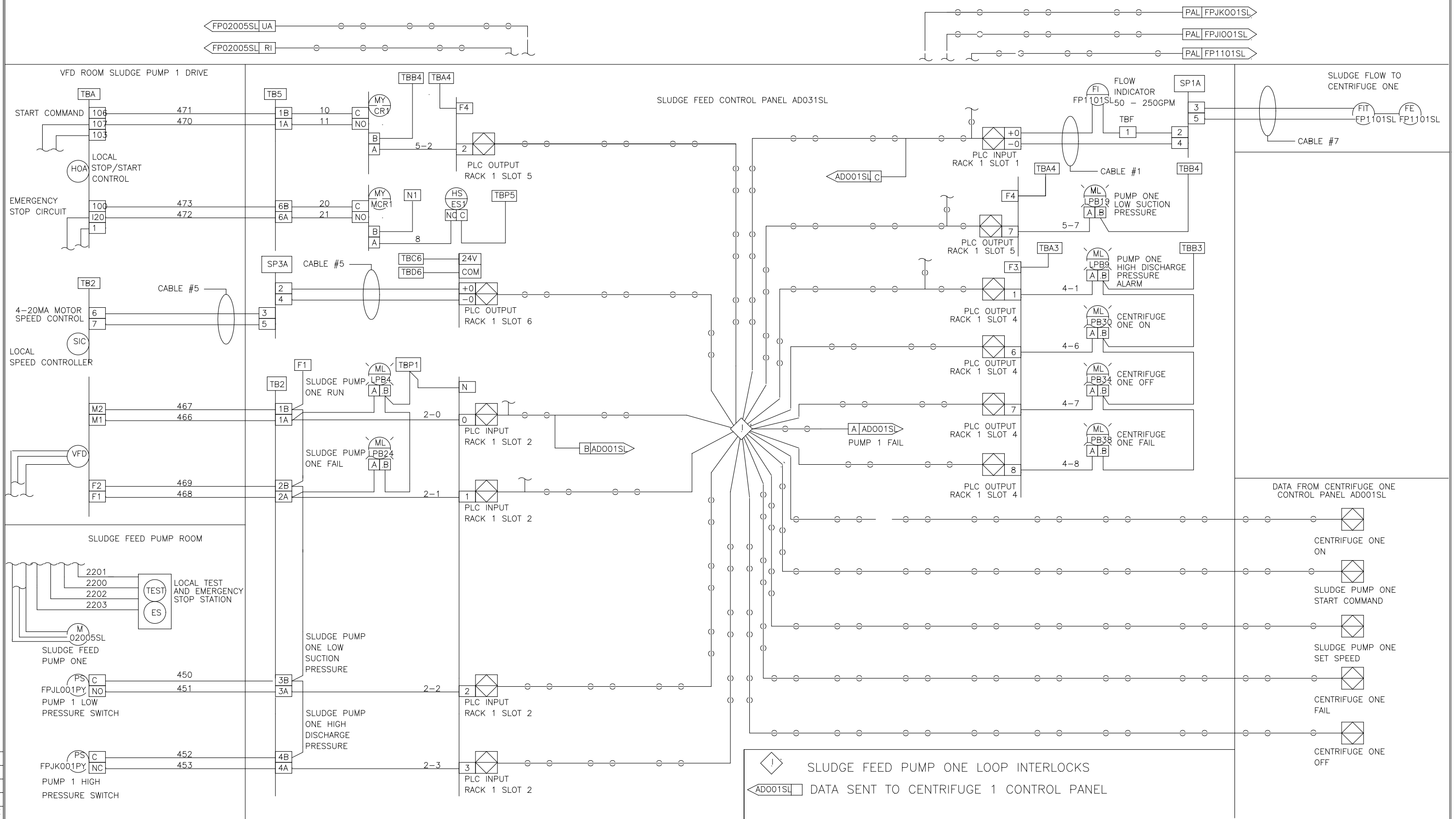
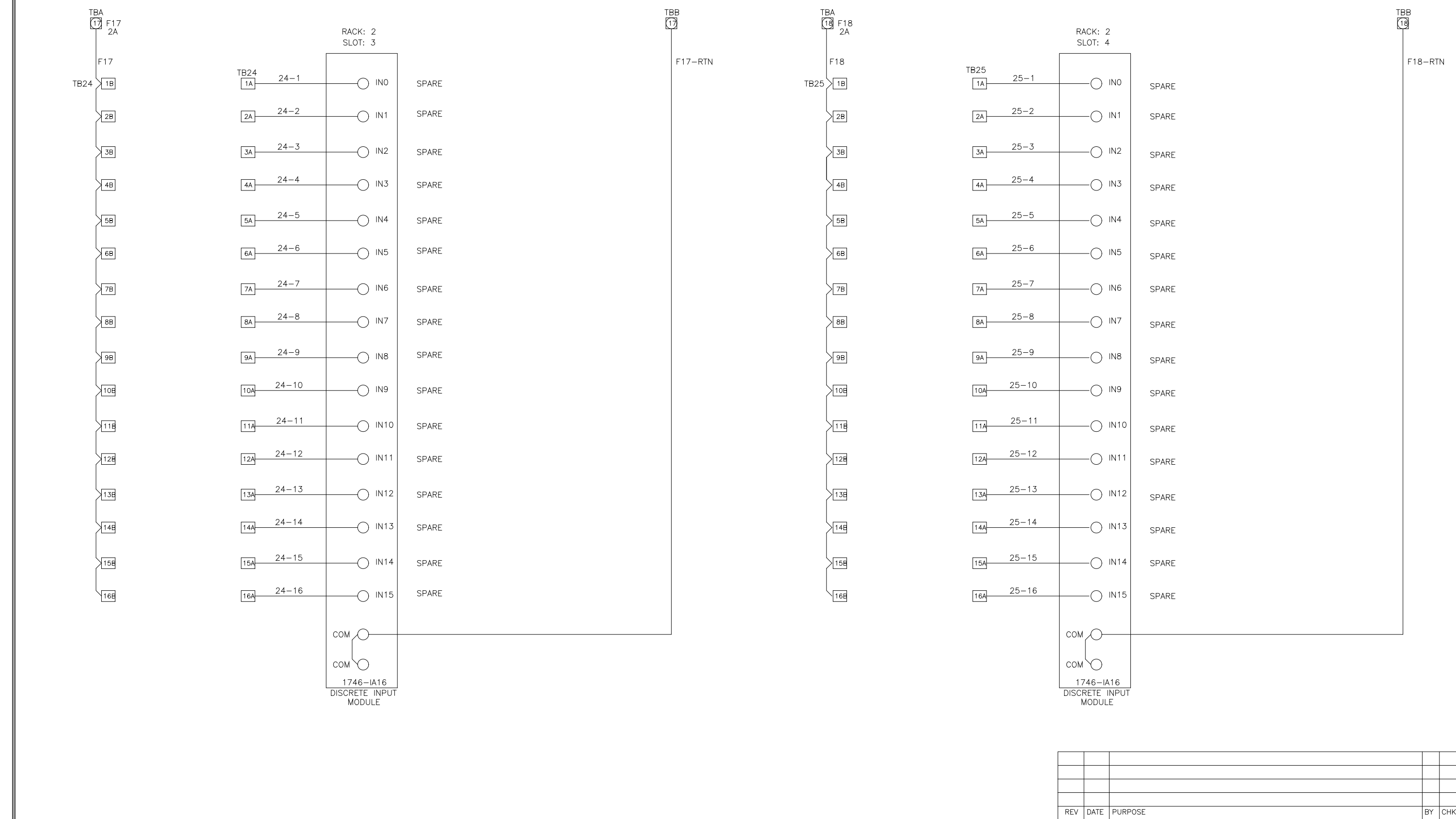
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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

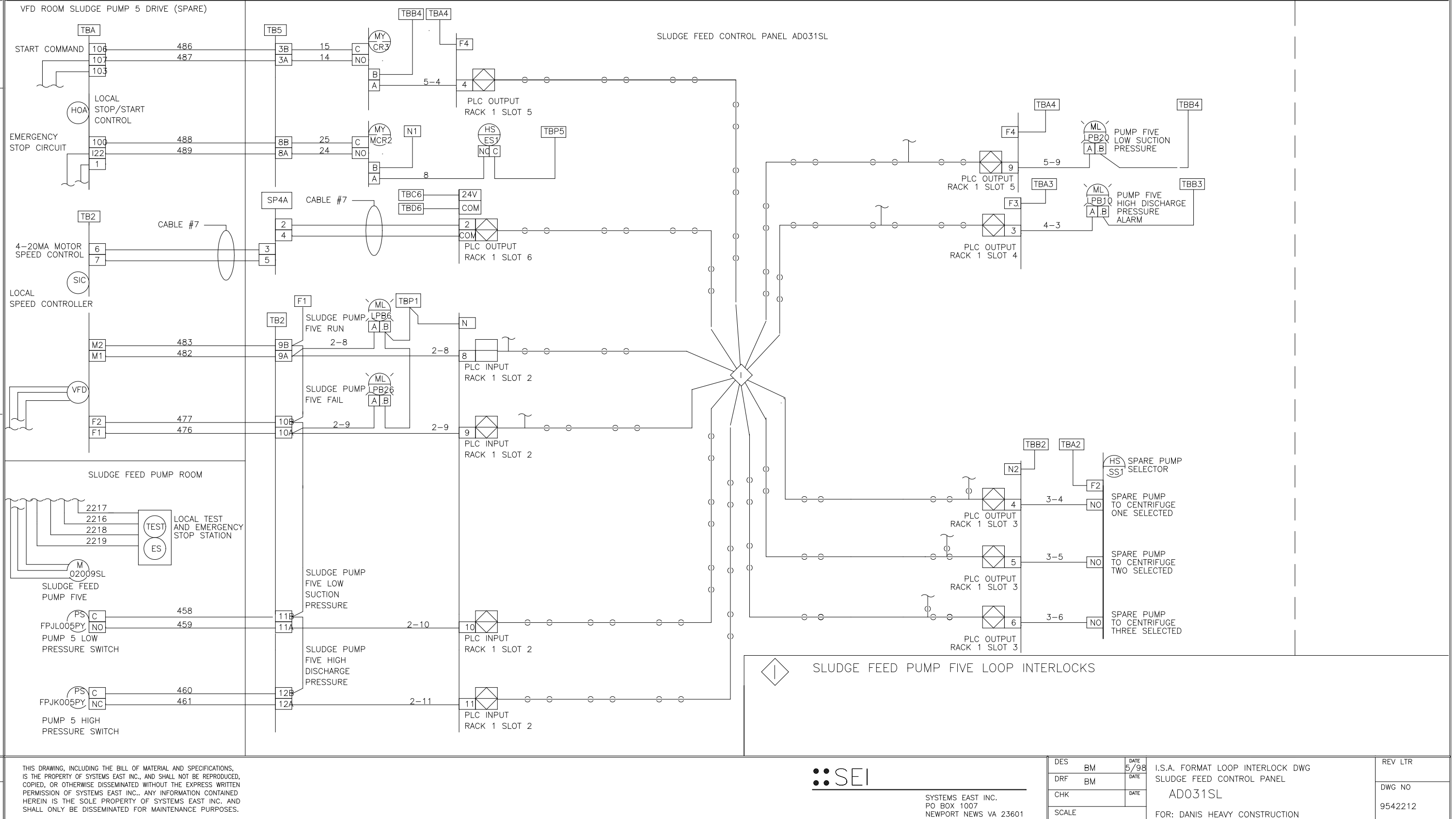
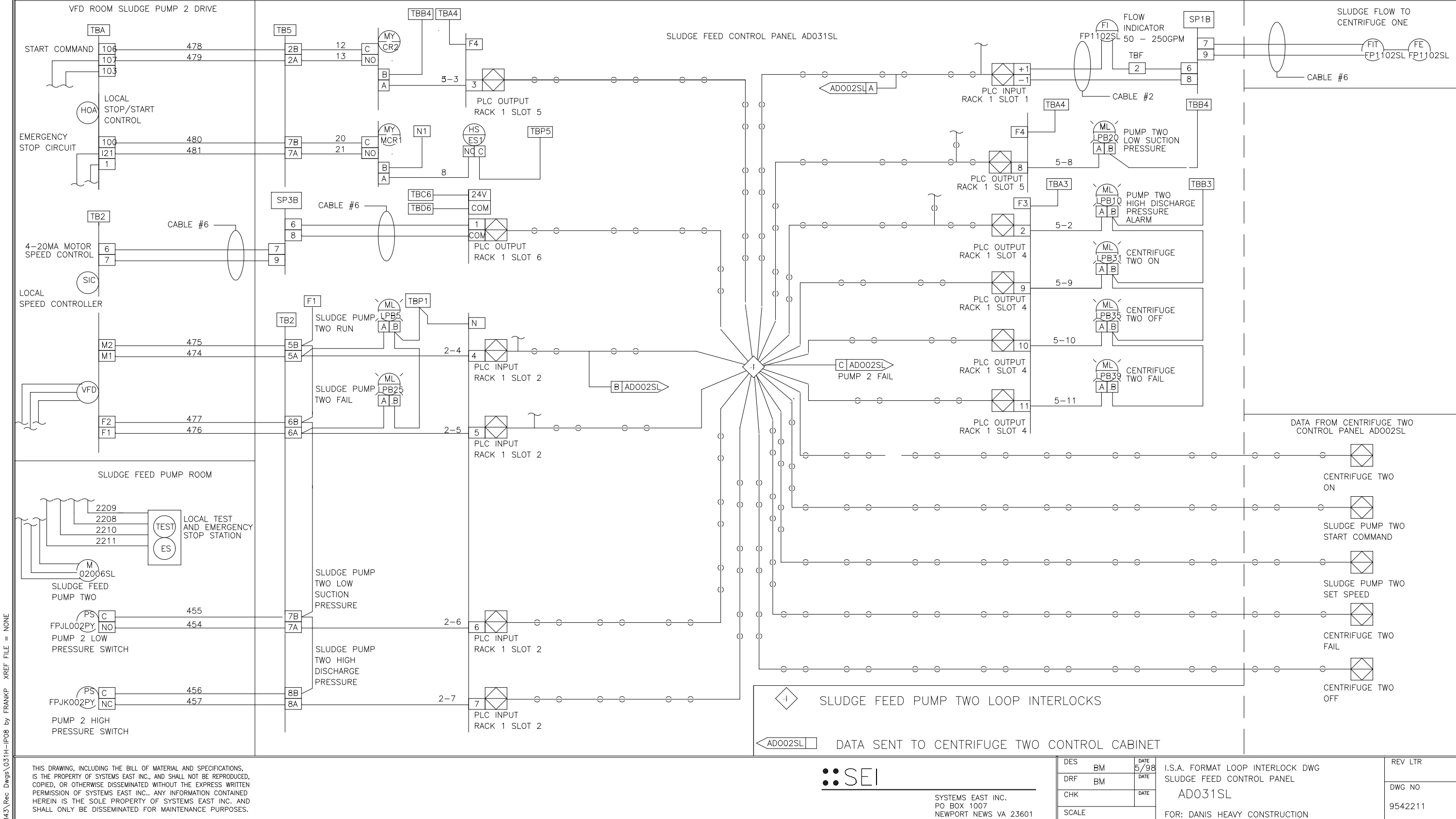
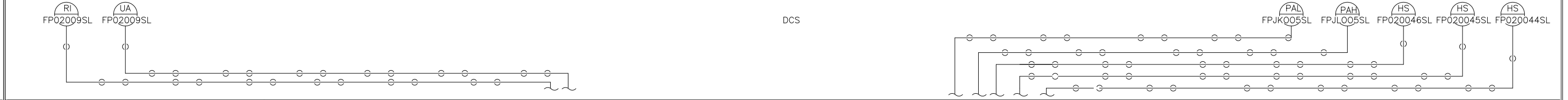
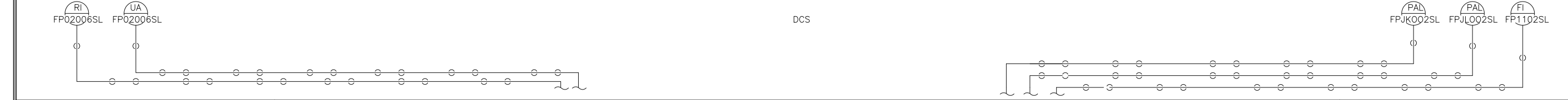
GENERAL
 PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-7
SHEET	31G OF 199

RECORD DRAWING



DES	BM	DATE	SCALE	FOR: DANIS INDUSTRIES	AD008PY	REV LTR	D	954221
DRF	MA	9/96						
CHK	MA	9/96						
SCALE								



DES	BM	DATE	SCALE	FOR: DANIS HEAVY CONSTRUCTION	AD031SL	REV LTR	D	954221
DRF	BM	9/98						
CHK	BM	9/98						
SCALE								

NO.	ISSUED FOR	DATE	BY	APPROVED

DESIGNED: _____
 DRAWN: MKS
 CHECKED: _____
 PROJ. ENGR: _____
 APPROVED: _____

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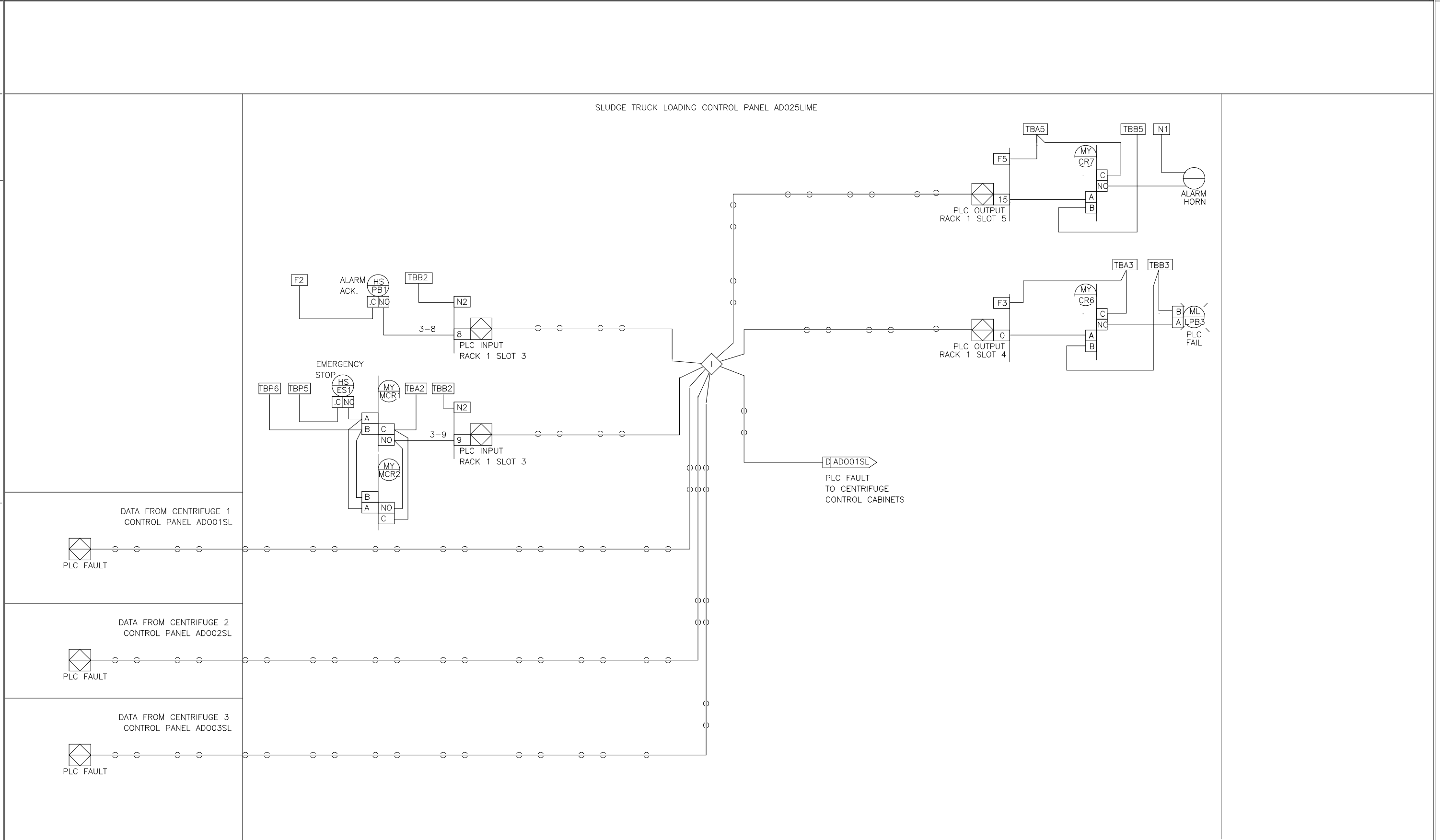
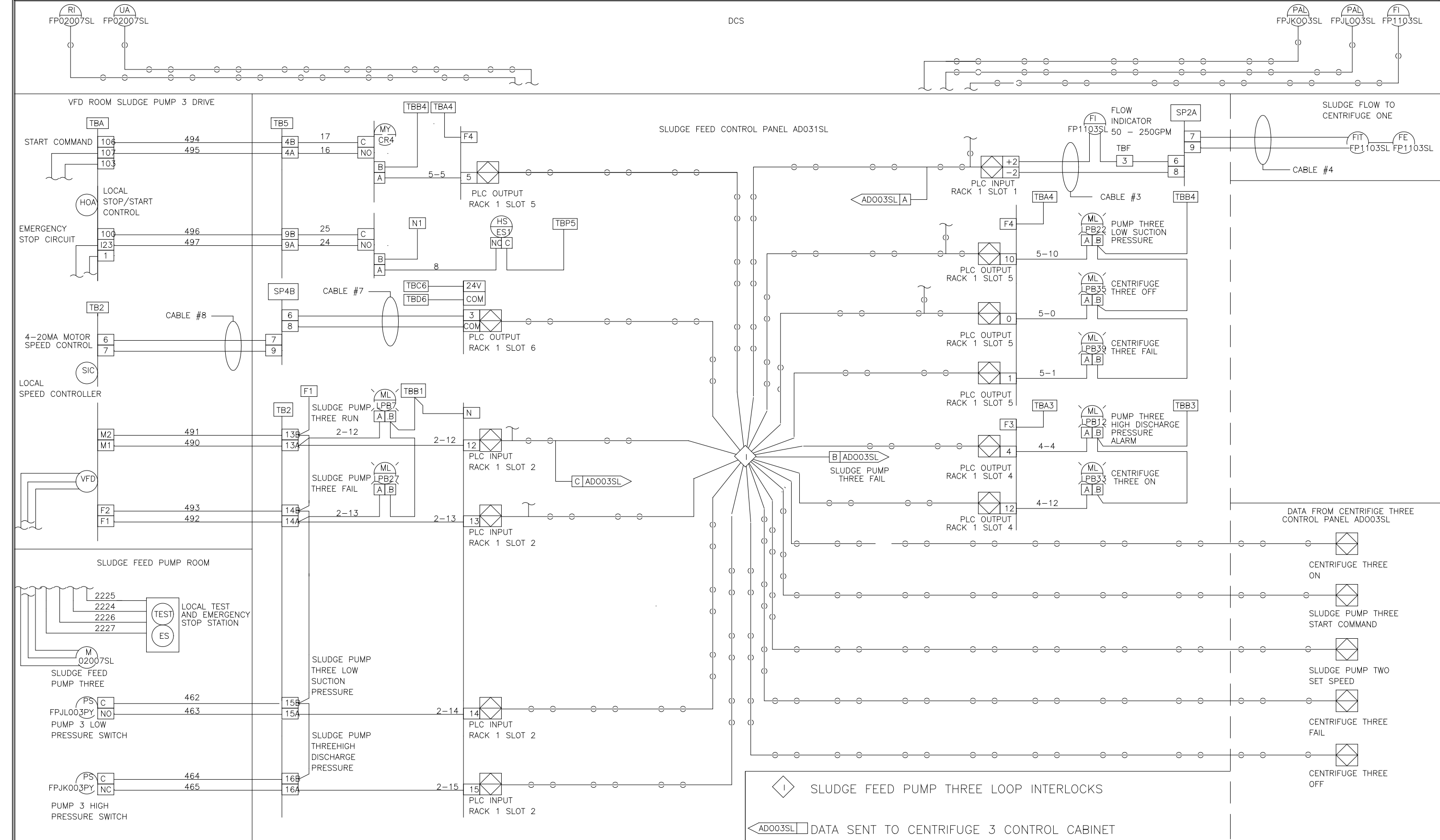
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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	JULY 99
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	IP-8
	SHEET	31H OF 199

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DES: BM 5/98
DRF: BM 5/98
CHK: BM 5/98
SCALE: AS SHOWN

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PO BOX 1007
NEWPORT NEWS VA 23601

I.S.A. FORMAT LOOP INTERLOCK DWG
SLUDGE FEED CONTROL PANEL
ADO031SL
FOR: DANIS HEAVY CONSTRUCTION

REV LTR: 9542213

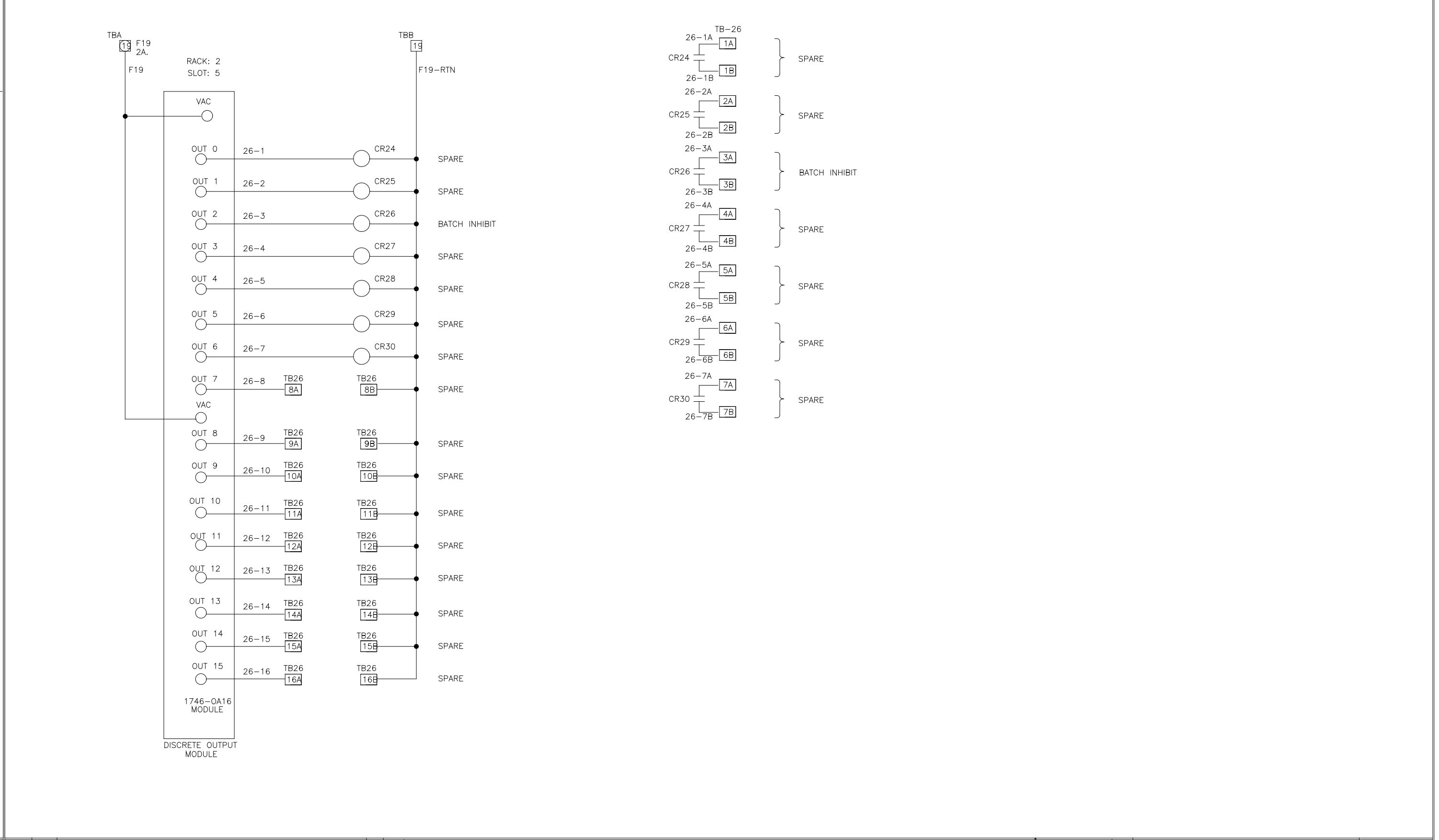
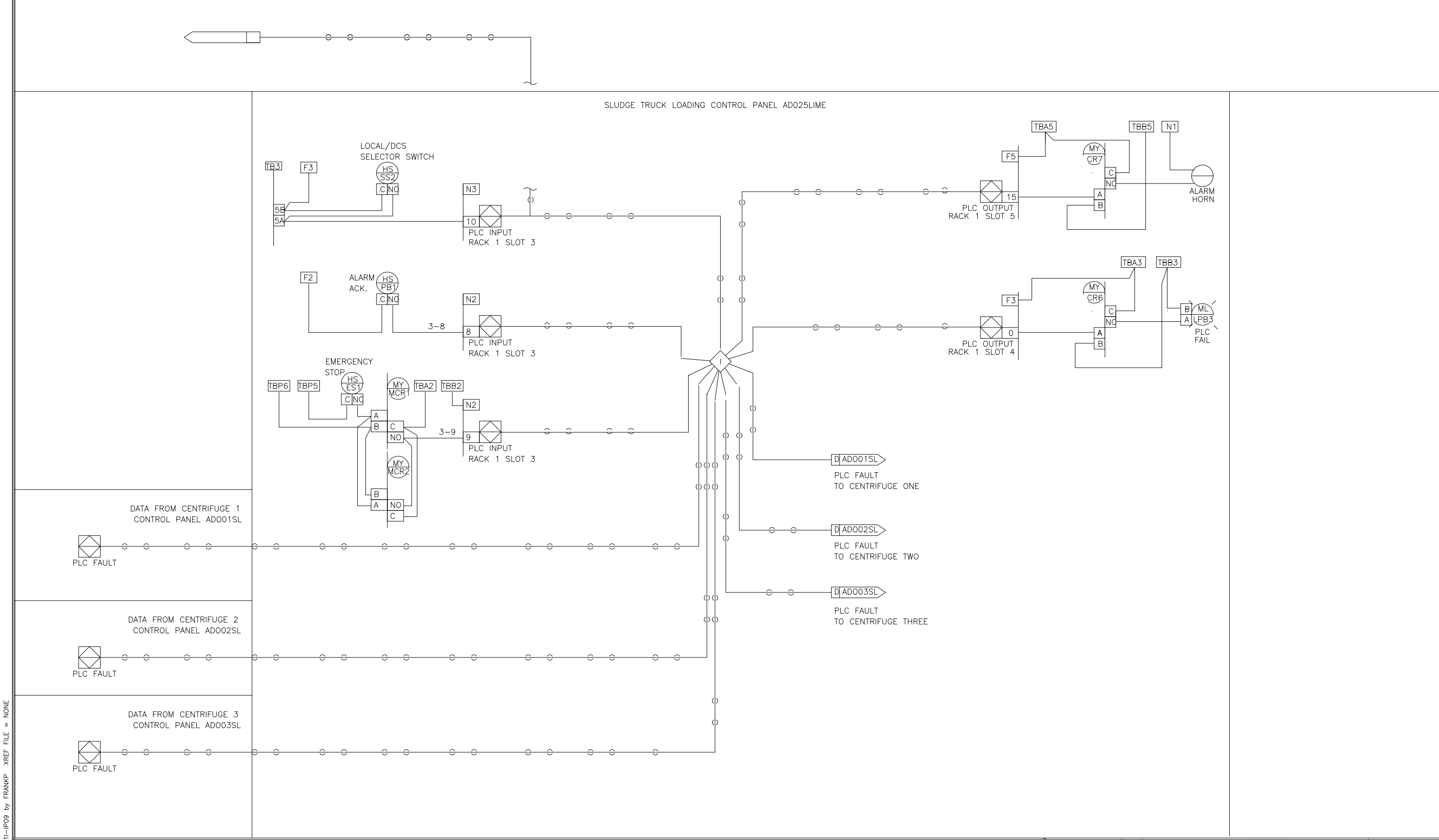
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DES: BM 5/98
DRF: BM 5/98
CHK: BM 5/98
SCALE: AS SHOWN

SYSTEMS EAST INC.
PO BOX 1007
NEWPORT NEWS VA 23601

I.S.A. FORMAT LOOP INTERLOCK DWG
SLUDGE TRUCK LOADING CONTROL PANEL
ADO25LIME
FOR: DANIS HEAVY CONSTRUCTION

REV LTR: 9542214



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DES: BM 5/98
DRF: BM 5/98
CHK: BM 5/98
SCALE: AS SHOWN

SYSTEMS EAST INC.
PO BOX 1007
NEWPORT NEWS VA 23601

I.S.A. FORMAT LOOP INTERLOCK DWG
SLUDGE TRUCK LOADING CONTROL PANEL
ADO25LIME
FOR: DANIS HEAVY CONSTRUCTION

REV LTR: 9542215

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DES: MA 5/98
DRF: MA 5/98
CHK: MA 5/98
SCALE: AS SHOWN

SYSTEMS EAST INC.
PO BOX 1007
NEWPORT NEWS VA 23601

POLYMER MAKE-UP PANEL CONNECTIONS
POLYMER PUMP & INTERFACE PANEL
AD008PY
FOR: DANIS INDUSTRIES

REV LTR: 954222

DESIGNED	MKS
DRAWN	
CHECKED	
PROJ. ENGR.	
APPROVED	

THIS DRAWING HAS BEEN COMPILED BY
HAZEN AND SAWYER, P.C.

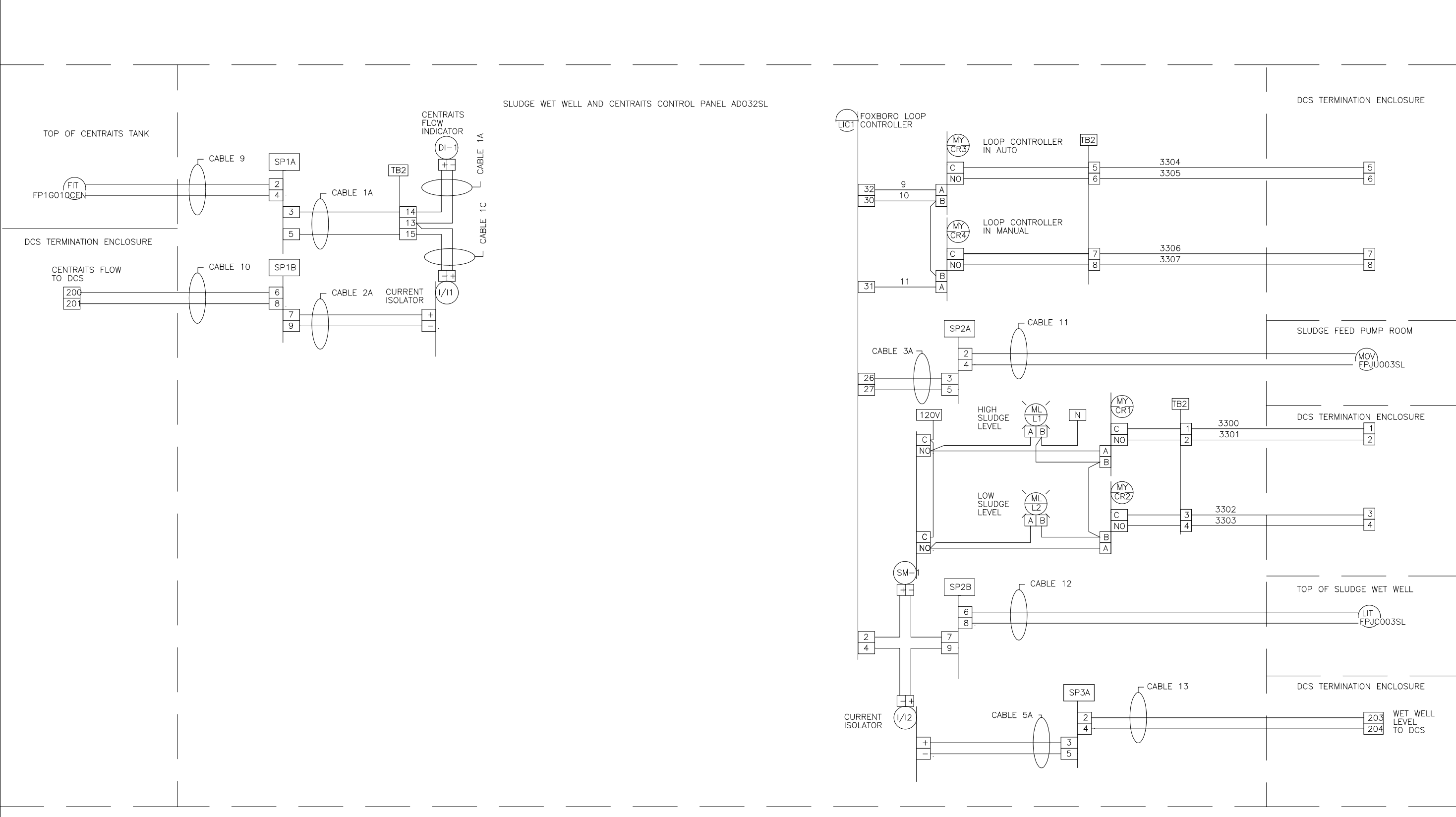
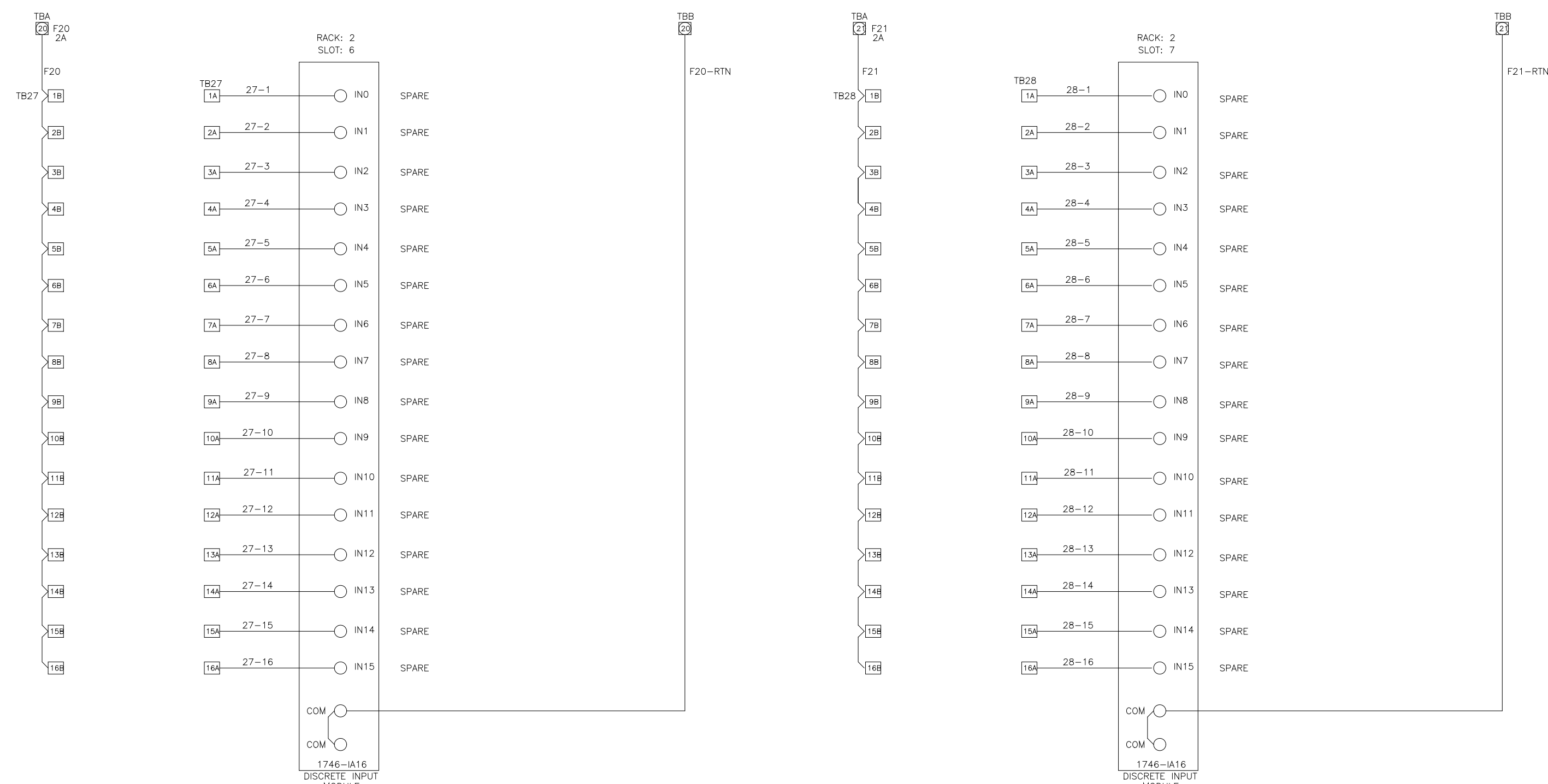
HAZEN AND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

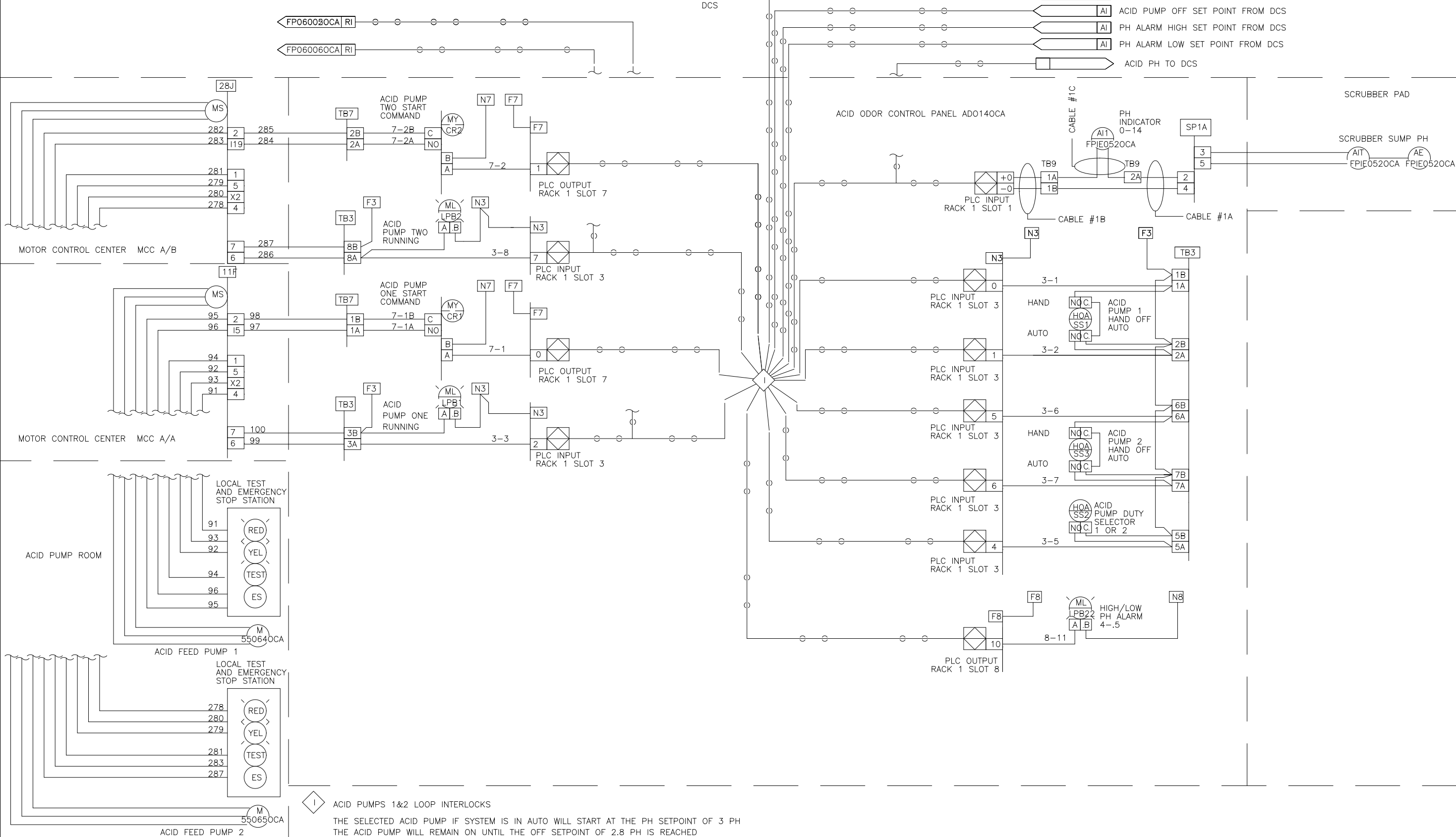
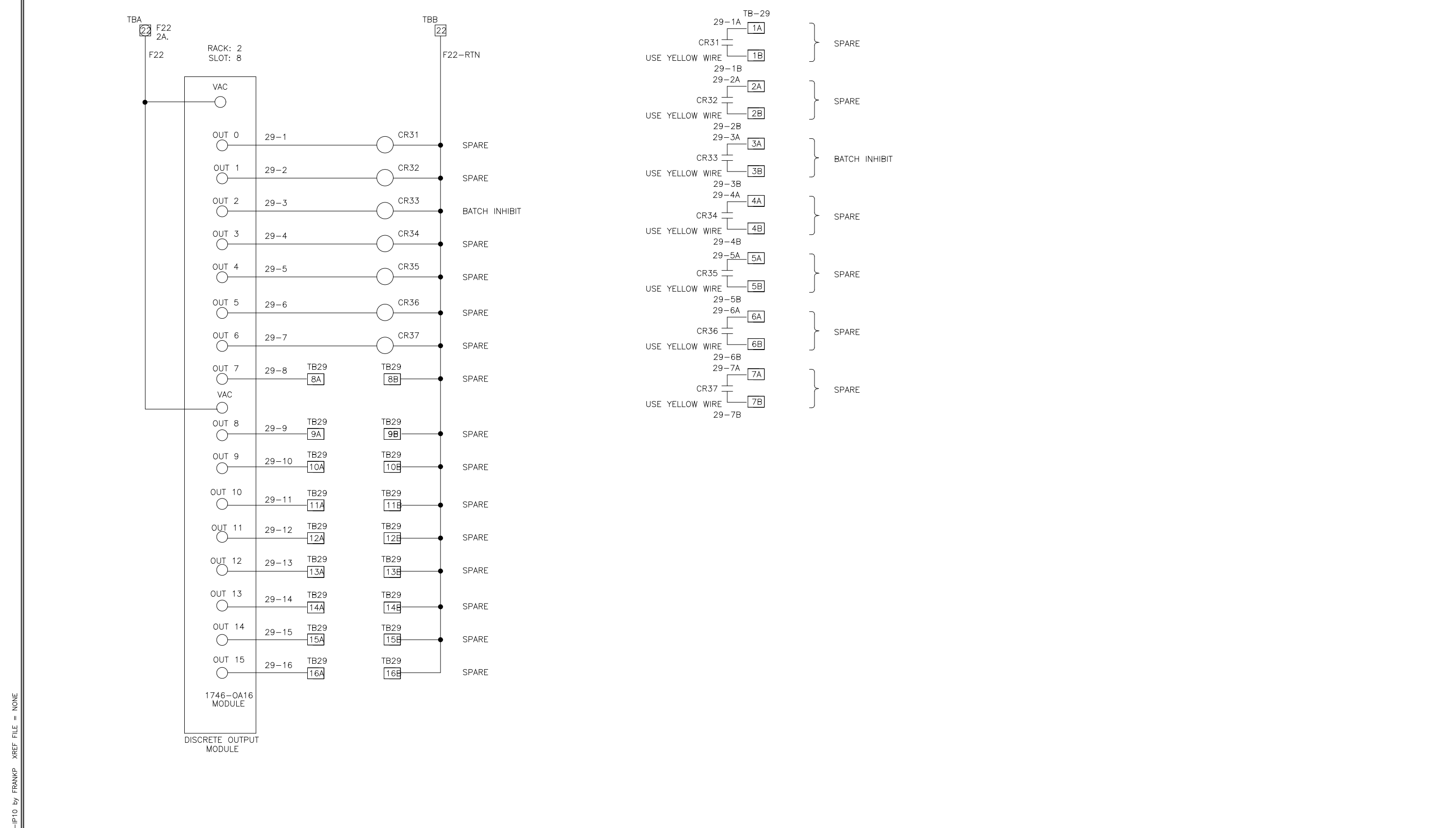
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	H & S JOB NUMBER: 2843
	CONTRACT NUMBER: 93-02-WPC
	DRAWING NUMBER: IP-9
	SHEET 311 OF 199

RECORD DRAWING



DES	MA	DATE	POLYMER MAKE-UP PANEL CONNECTIONS	REV LTR	
DRF	MA	12/98	POLYMER PUMP PANEL	D	
CHK	MA	12/98	ARLINGTON CO., VIRGINIA	DWG NO	954223
SCALE			FOR: DANIS INDUSTRIES	AD008PY	

DES	MA	DATE	U.S.A. FORMAT LOOP INTERLOCK DWG	REV LTR	
DRF	MA	12/98	SLUDGE WET WELL & CENTRATE CONTROL PANEL		
CHK	MA	12/98	AD032SL	DWG NO	9542236
SCALE			FOR: DANIS HEAVY CONSTRUCTION		



DES	MA	DATE	POLYMER MAKE-UP PANEL CONNECTIONS	REV LTR	
DRF	MA	12/98	POLYMER PUMP PANEL	D	
CHK	MA	12/98	ARLINGTON CO., VIRGINIA	DWG NO	954224
SCALE			FOR: DANIS INDUSTRIES	AD008PY	

DES	MA	DATE	U.S.A. FORMAT LOOP INTERLOCK DWG	REV LTR	
DRF	MA	12/98	ACID ODOR CONTROL PANEL		
CHK	MA	12/98	AD0140CA	DWG NO	9542240
SCALE			FOR: DANIS HEAVY CONSTRUCTION		

DESIGNED	
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
NO.	ISSUED FOR
	DATE
	BY
	APPROVED

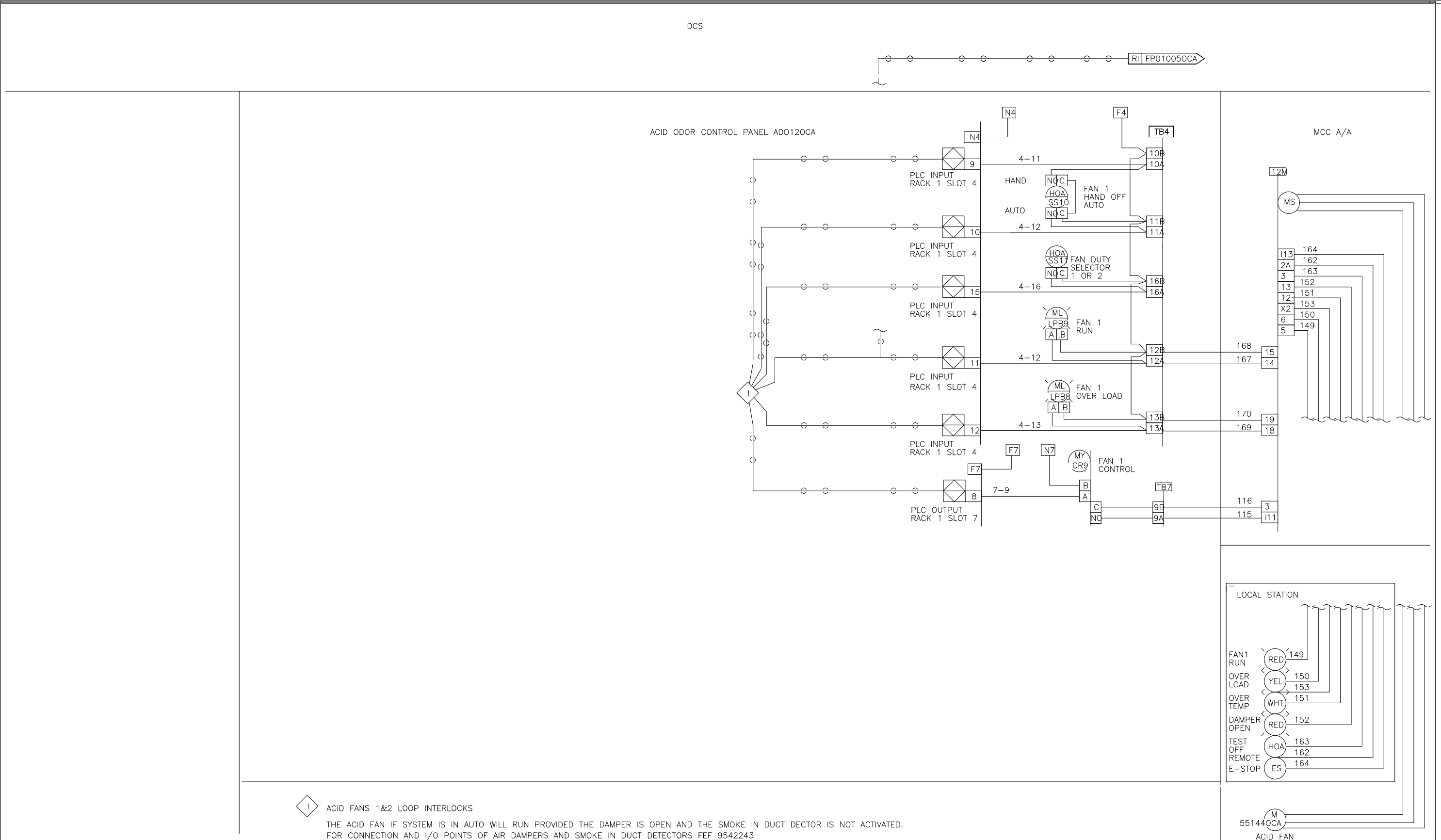
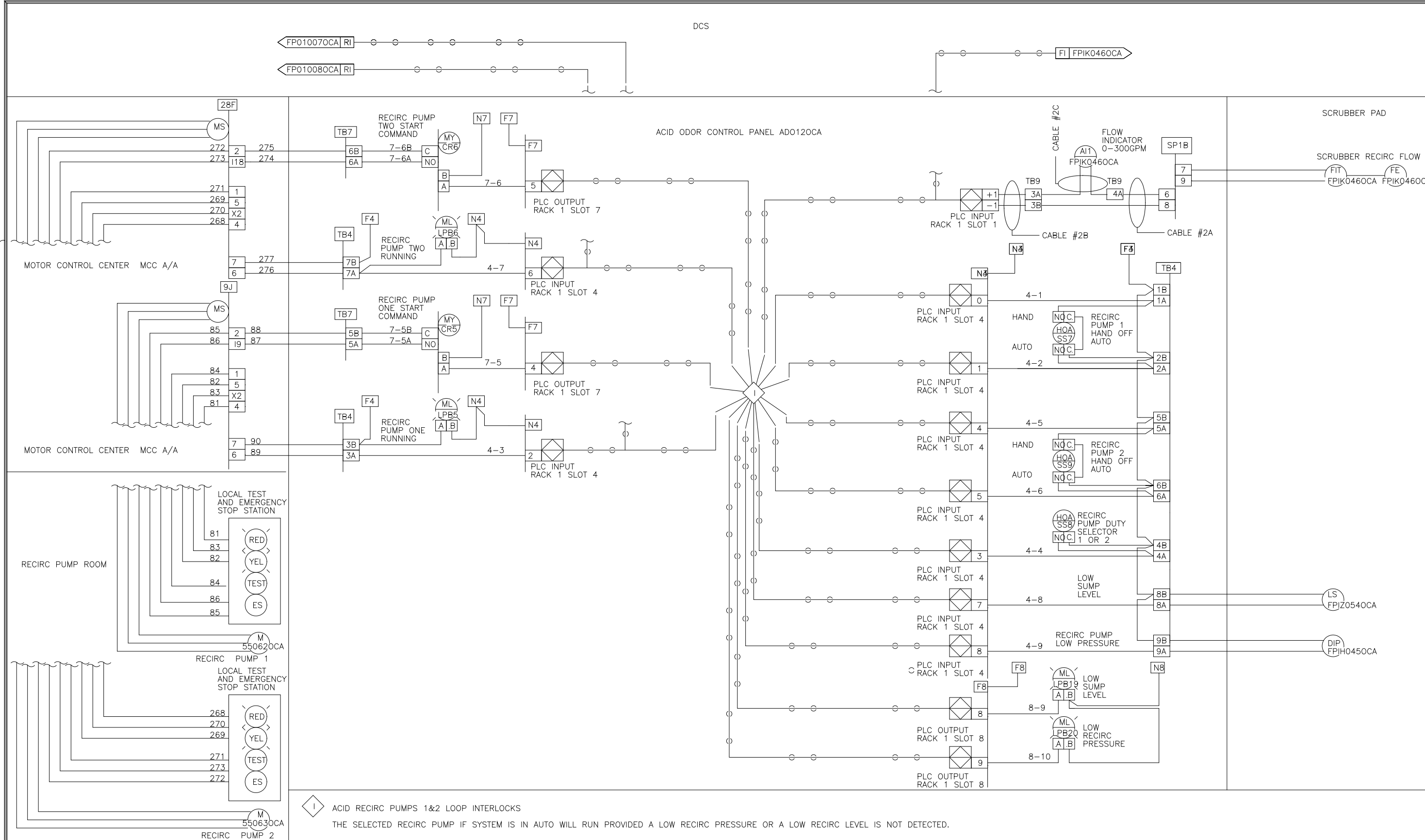
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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-10
SHEET	31J OF 199

RECORD DRAWING



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DES: DES
 DRW: EM
 CHK: EM
 SCALE: 1/8" = 1'-0"

SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

U.S.A. FORMAT LOOP INTERLOCK DWG
 ACID ODOR CONTROL PANEL
 ADO140CA
 FOR: DANIS HEAVY CONSTRUCTION

REV LTR: 9542241

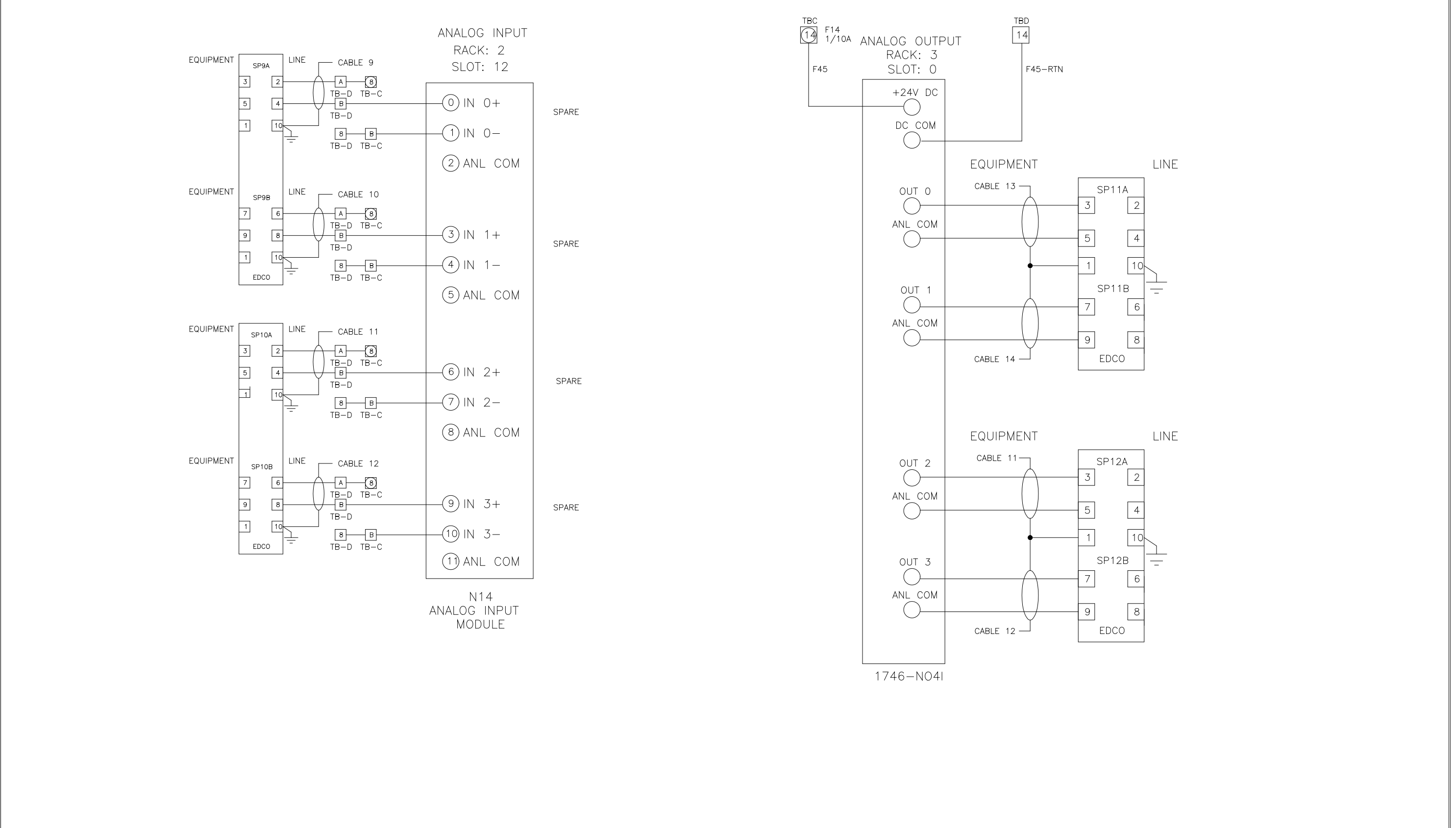
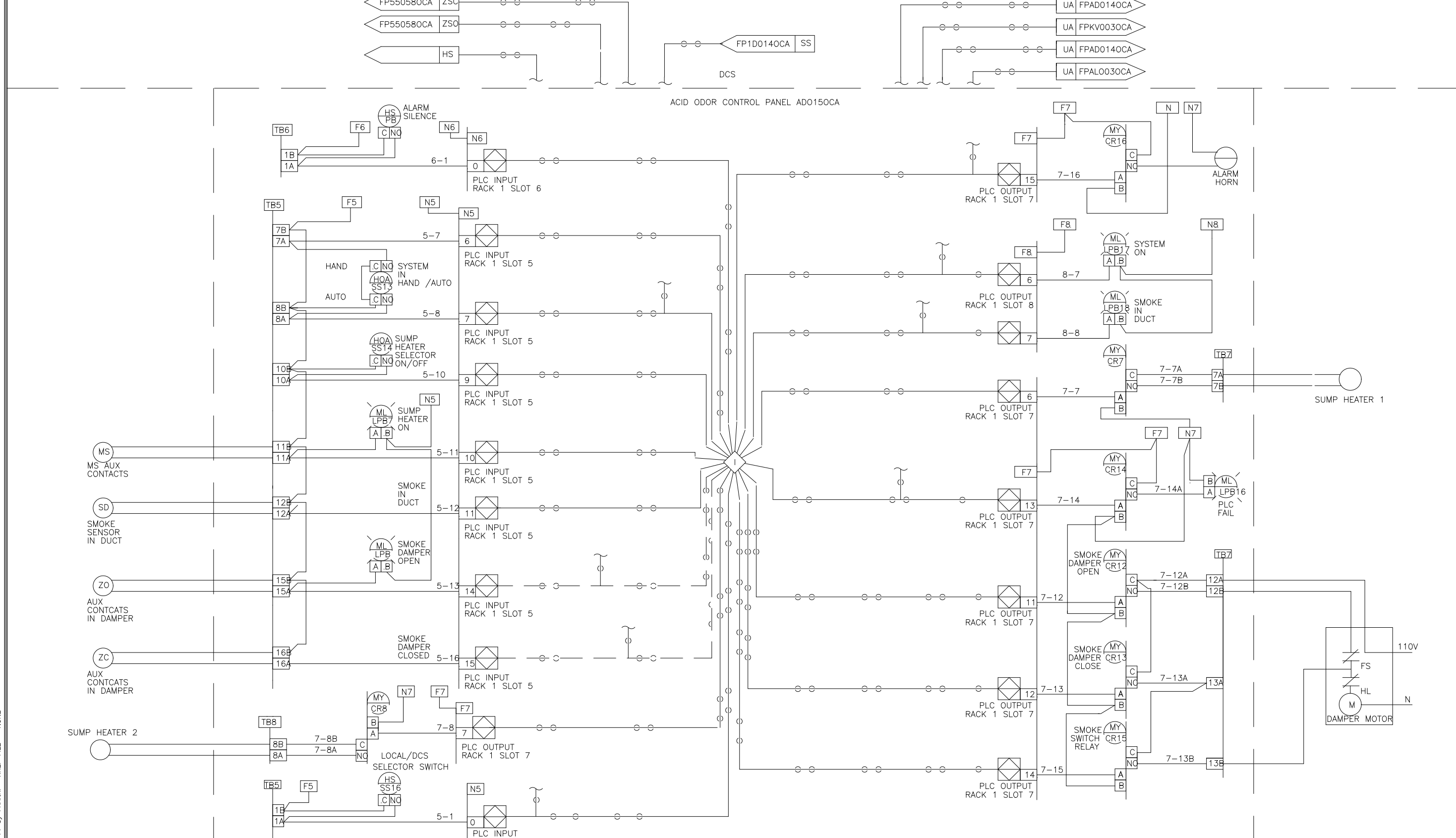
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DES: DES
 DRW: EM
 CHK: EM
 SCALE: 1/8" = 1'-0"

SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

U.S.A. FORMAT LOOP INTERLOCK DWG
 ACID ODOR CONTROL PANEL
 ADO140CA
 FOR: DANIS HEAVY CONSTRUCTION

REV LTR: 9542242



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DES: DES
 DRW: EM
 CHK: EM
 SCALE: 1/8" = 1'-0"

SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

U.S.A. FORMAT LOOP INTERLOCK DWG
 ACID ODOR CONTROL PANEL
 ADO140CA
 FOR: DANIS HEAVY CONSTRUCTION

REV LTR: 9542243

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DES: MA
 DRW: MA
 CHK: MA
 SCALE: 1/8" = 1'-0"

SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

U.S.A. FORMAT LOOP INTERLOCK DWG
 POLYMER PUMP PANEL
 ADO08PY
 FOR: DANIS INDUSTRIES

REV LTR: 954225

DESIGNED	MKS			
DRAWN	MKS			
CHECKED				
PROJ. ENGR.				
NO.	ISSUED FOR	DATE	BY	APPROVED

THIS DRAWING HAS BEEN COMPILED BY
HAZEN AND SAWYER, P.C.

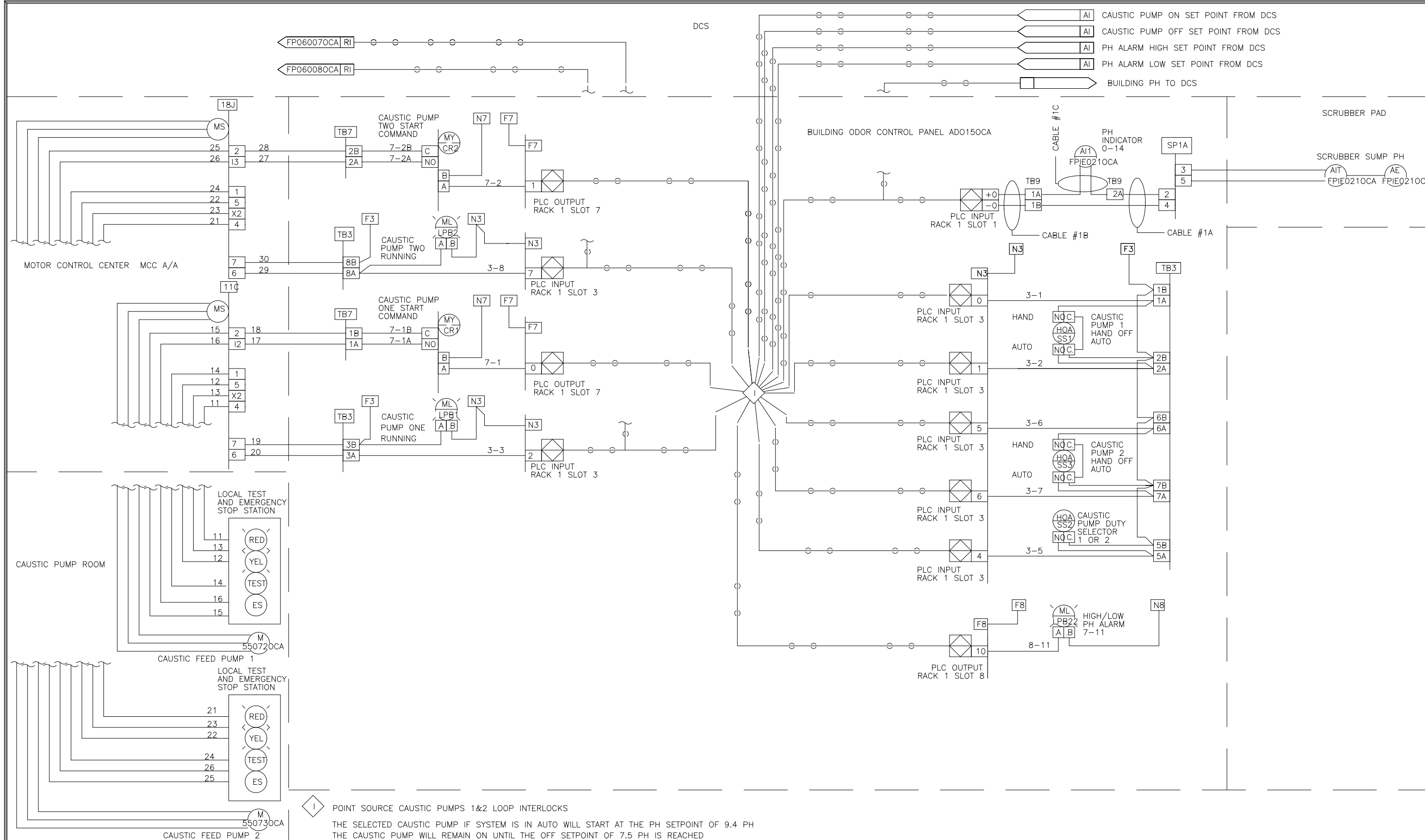
HAZEN AND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

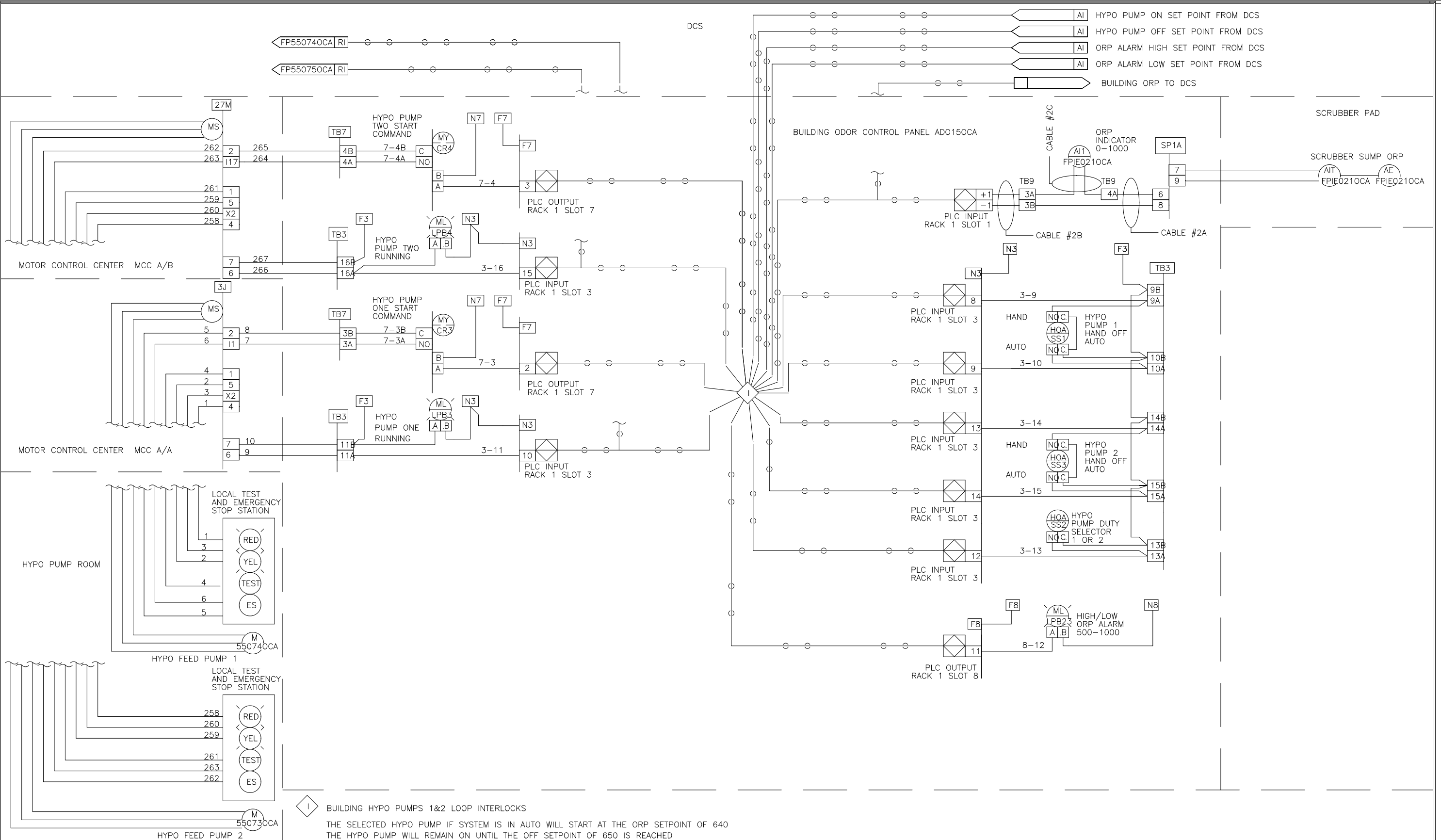
GENERAL
 PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-11
SHEET	31K of 199

RECORD DRAWING



POINT SOURCE CAUSTIC PUMPS 1&2 LOOP INTERLOCKS
 THE SELECTED CAUSTIC PUMP IF SYSTEM IS IN AUTO WILL START AT THE PH SETPOINT OF 9.4 PH
 THE CAUSTIC PUMP WILL REMAIN ON UNTIL THE OFF SETPOINT OF 7.5 PH IS REACHED



BUILDING HYPO PUMPS 1&2 LOOP INTERLOCKS
 THE SELECTED HYPO PUMP IF SYSTEM IS IN AUTO WILL START AT THE ORP SETPOINT OF 640
 THE HYPO PUMP WILL REMAIN ON UNTIL THE OFF SETPOINT OF 650 IS REACHED

DES: DES
 DRW: DRW
 CHK: CHK
 SCALE: SCALE

SEI SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

U.S.A. FORMAT LOOP INTERLOCK DWG
 BUILDING ODOR CONTROL PANEL
 ADD150CA
 FOR: DANIS HEAVY CONSTRUCTION

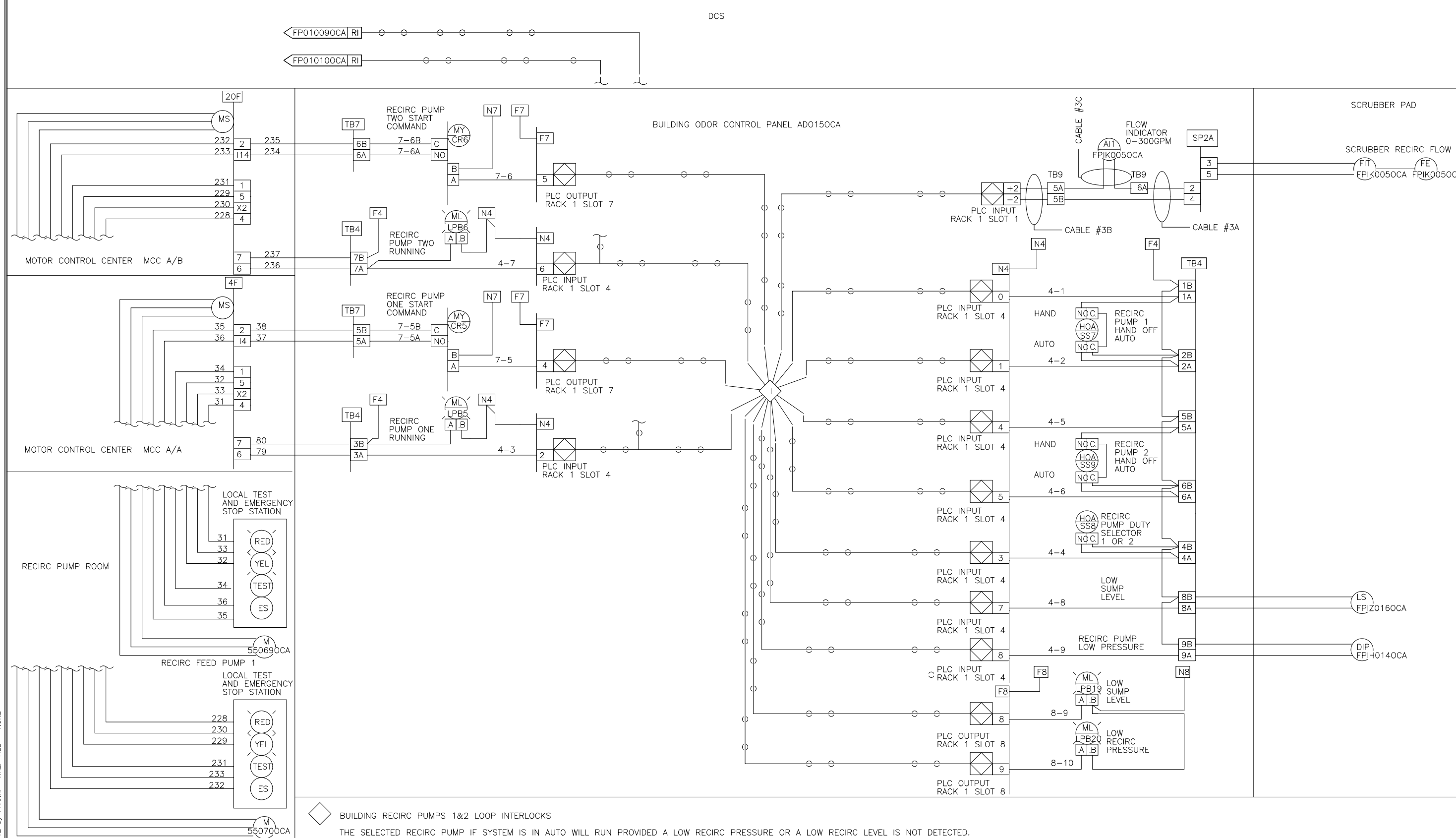
REV LTR: 9542250
 DWG NO: 9542250

DES: DES
 DRW: DRW
 CHK: CHK
 SCALE: SCALE

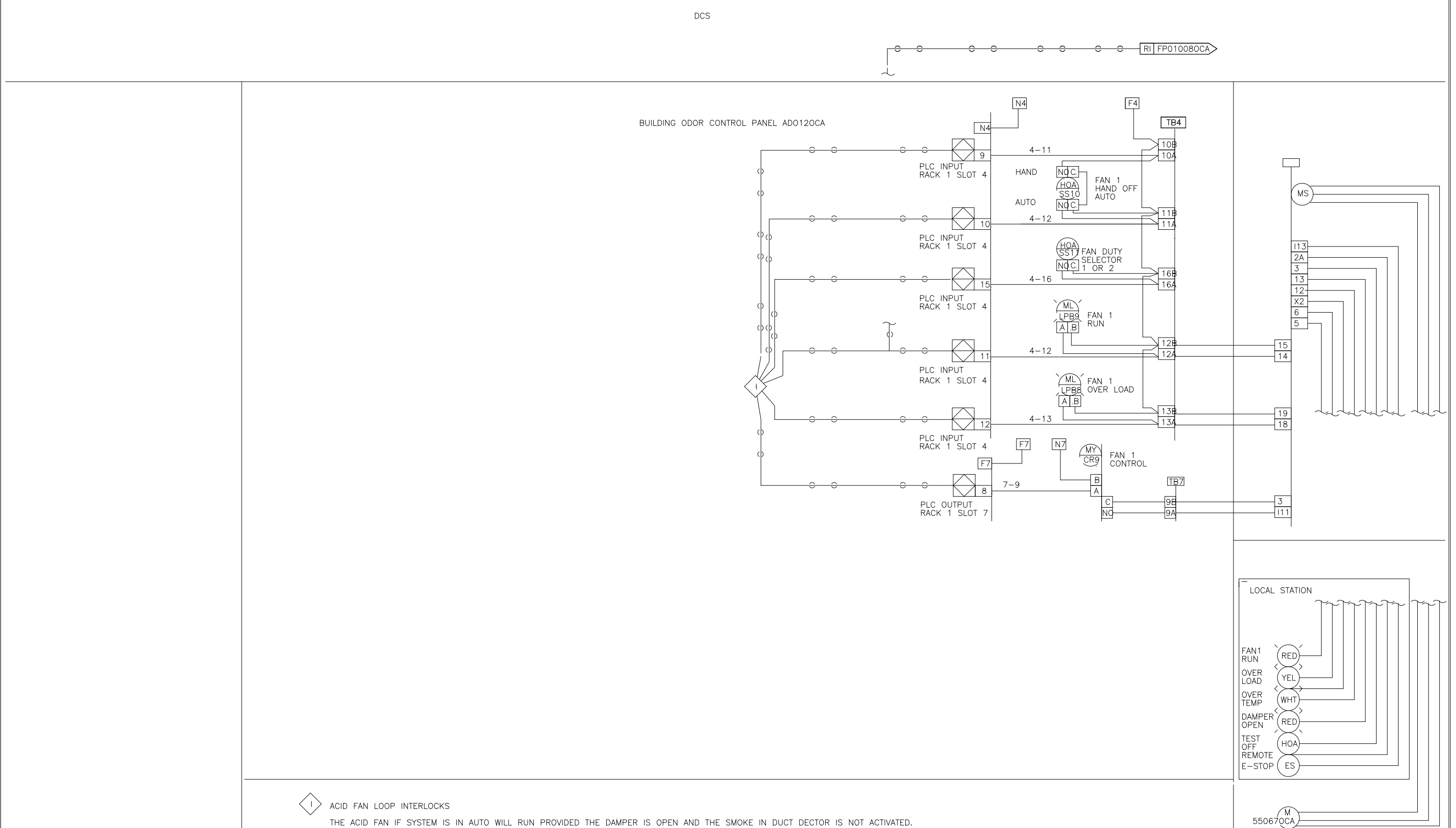
SEI SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

U.S.A. FORMAT LOOP INTERLOCK DWG
 BUILDING ODOR CONTROL PANEL
 ADD150CA
 FOR: DANIS HEAVY CONSTRUCTION

REV LTR: 9542251
 DWG NO: 9542251



BUILDING RECIRC PUMPS 1&2 LOOP INTERLOCKS
 THE SELECTED RECIRC PUMP IF SYSTEM IS IN AUTO WILL RUN PROVIDED A LOW RECIRC PRESSURE OR A LOW RECIRC LEVEL IS NOT DETECTED.



ACID FAN LOOP INTERLOCKS
 THE ACID FAN IF SYSTEM IS IN AUTO WILL RUN PROVIDED THE DAMPER IS OPEN AND THE SMOKE IN DUCT DETECTOR IS NOT ACTIVATED.
 FOR CONNECTION AND I/O POINTS OF AIR DAMPERS AND SMOKE IN DUCT DETECTORS FE# 9542254

DES: DES
 DRW: DRW
 CHK: CHK
 SCALE: SCALE

SEI SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

U.S.A. FORMAT LOOP INTERLOCK DWG
 BUILDING ODOR CONTROL PANEL
 ADD150CA
 FOR: DANIS HEAVY CONSTRUCTION

REV LTR: 9542252
 DWG NO: 9542252

DES: DES
 DRW: DRW
 CHK: CHK
 SCALE: SCALE

SEI SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

U.S.A. FORMAT LOOP INTERLOCK DWG
 BUILDING ODOR CONTROL PANEL
 ADD150CA
 FOR: DANIS HEAVY CONSTRUCTION

REV LTR: 9542253
 DWG NO: 9542253

PLOT DATE 07/29/99 3:45pm FILE: H:\2845\Proc\Draw\0111.P12 By: FRAMP REF: FILE = INCH

DESIGNED	MKS
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
APPROVED	

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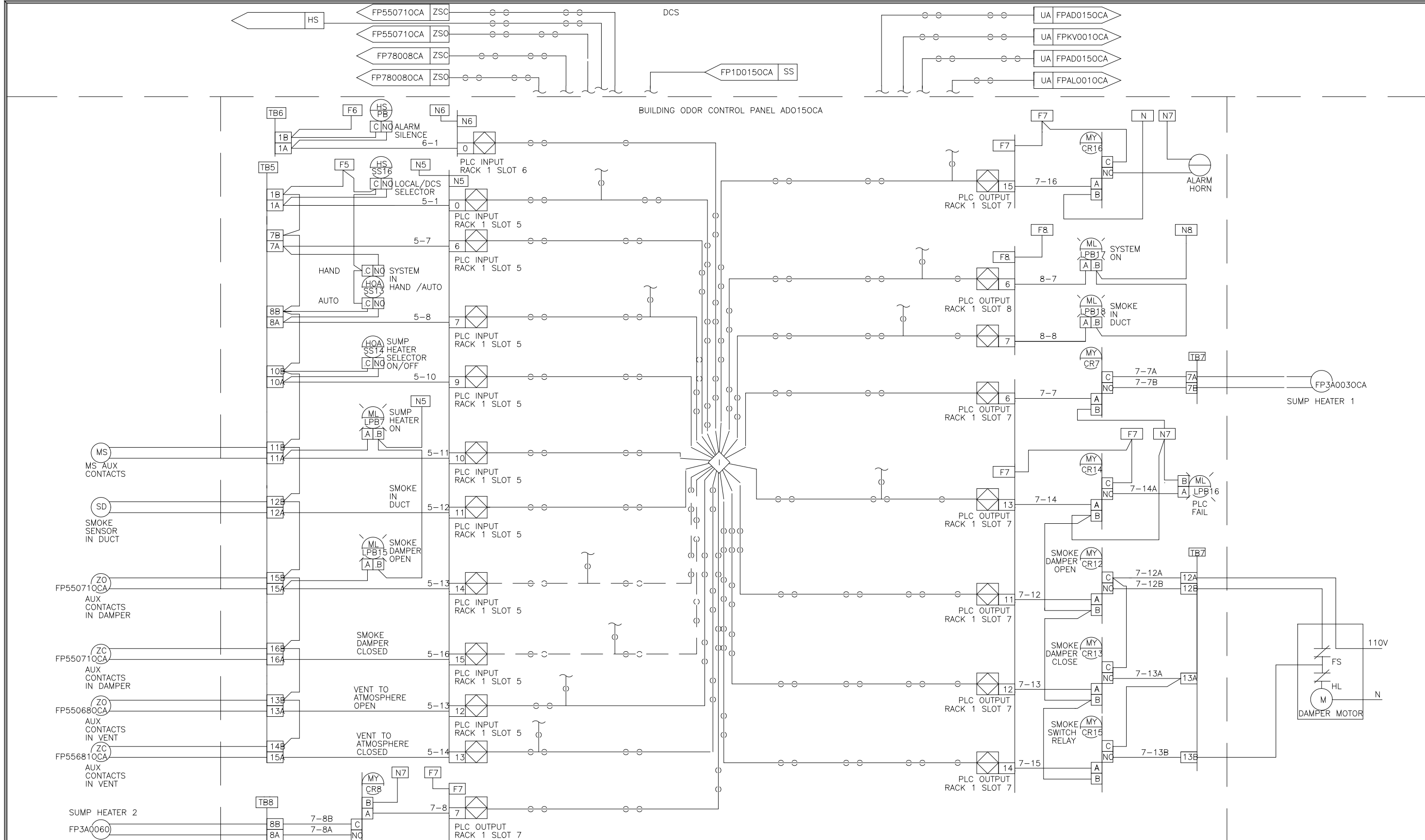
HAZEN AND SAWYER
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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

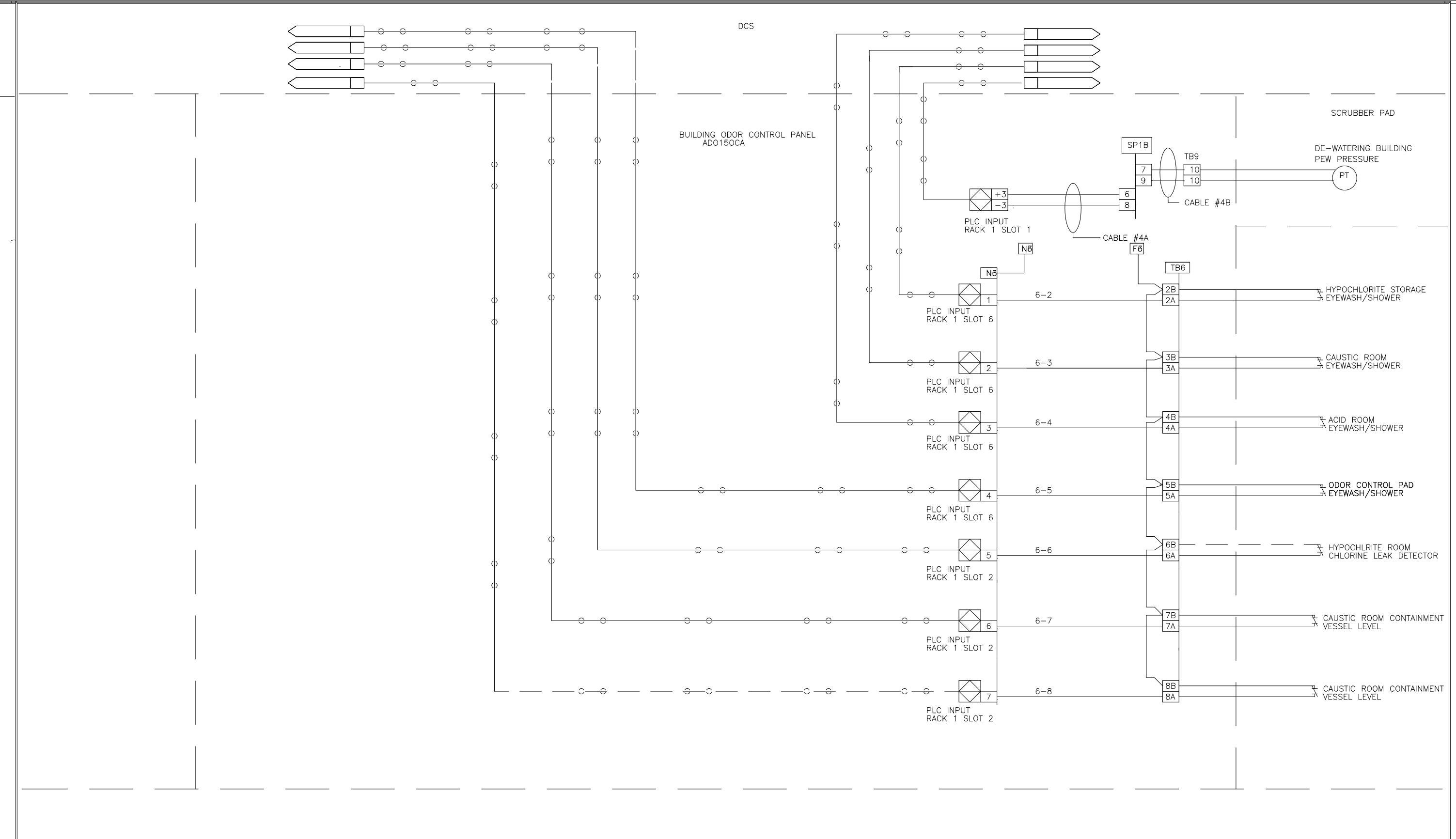
GENERAL
 PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-12
SHEET	31L of 199

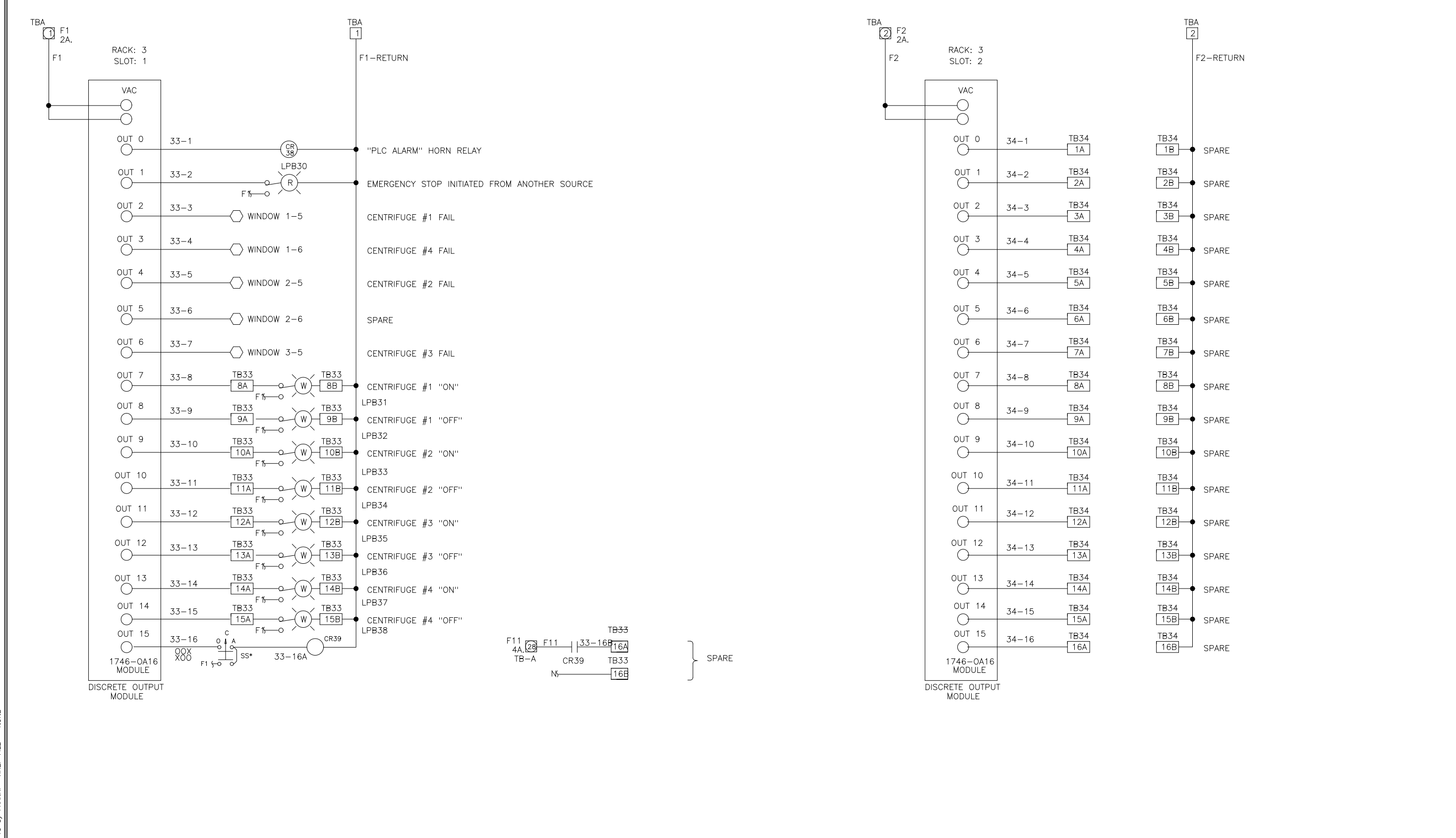
RECORD DRAWING



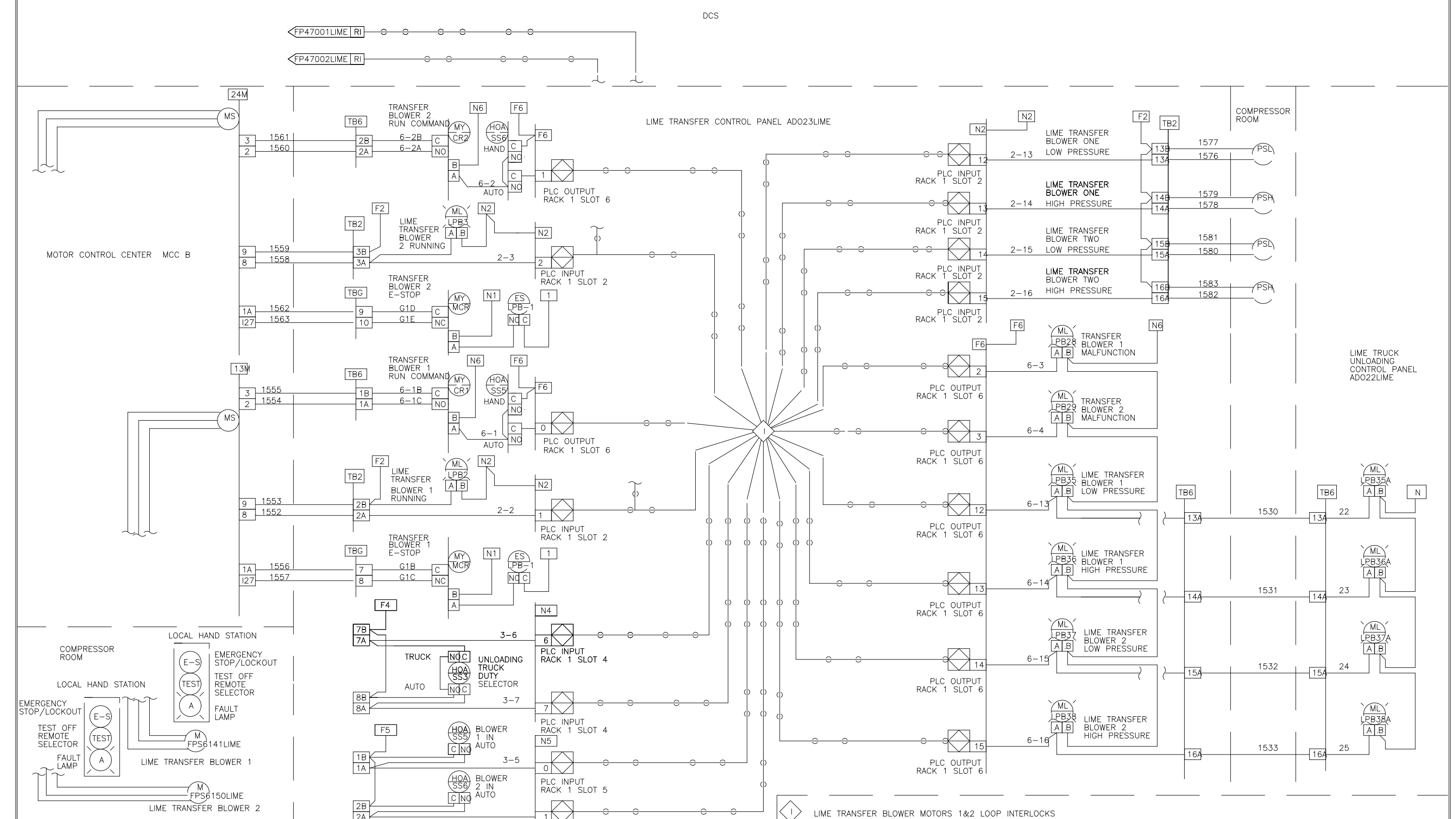
DES	EM	DATE	U.S.A. FORMAT LOOP INTERLOCK DWG	REV	LTR
DRF	EM	04/24/99	BUILDING ODOR CONTROL PANEL	DWG NO	9542254
CHK	EM	04/24/99	ADO150CA		
SCALE			FOR: DANIS HEAVY CONSTRUCTION		



DES	EM	DATE	U.S.A. FORMAT LOOP INTERLOCK DWG	REV	LTR
DRF	EM	04/24/99	BUILDING ODOR CONTROL PANEL	DWG NO	9542254A
CHK	EM	04/24/99	ADO150CA		
SCALE			FOR: DANIS HEAVY CONSTRUCTION		



DES	MA	DATE	ELEMENTARY WIRING DIAGRAM	REV	LTR
DRF	MA	04/24/99	POLYMER PUMP PANEL	DWG NO	9542256
CHK	MA	04/24/99	ARLINGTON CO., VIRGINIA		
SCALE			FOR: DANIS CONSTR.		



DES	EM	DATE	U.S.A. FORMAT LOOP INTERLOCK DWG	REV	LTR
DRF	EM	04/24/99	LIME TRANSFER LIME TRUCK UNLOADING CONTROL PANELS	DWG NO	9542260
CHK	EM	04/24/99	ADO23LIME & ADO22LIME		
SCALE			FOR: DANIS HEAVY CONSTRUCTION		

NO.	ISSUED FOR	DATE	BY	APPROVED

DESIGNED _____
 DRAWN MKS
 CHECKED _____
 PROJ. ENGR. _____

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HAZEN AND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

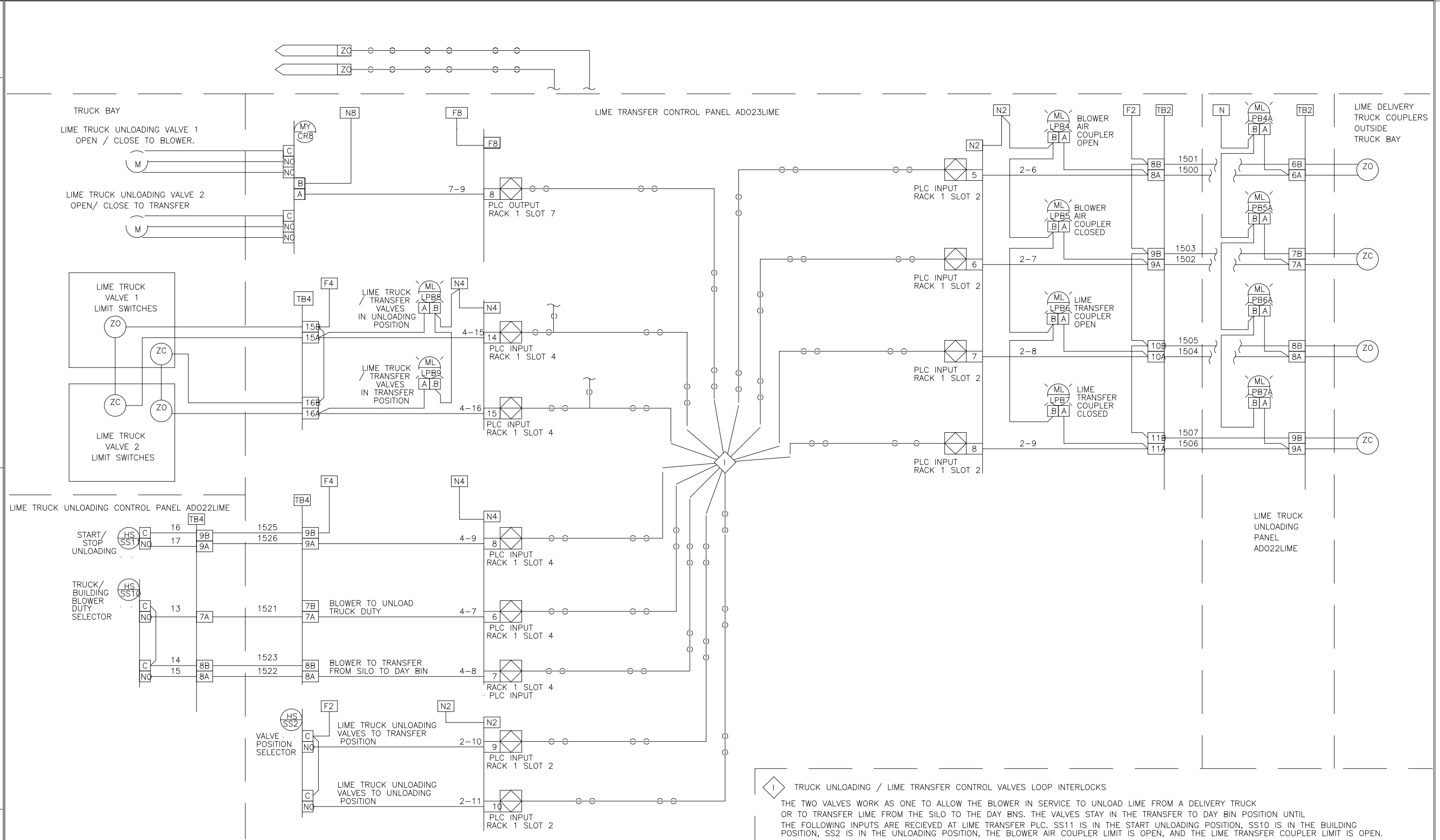
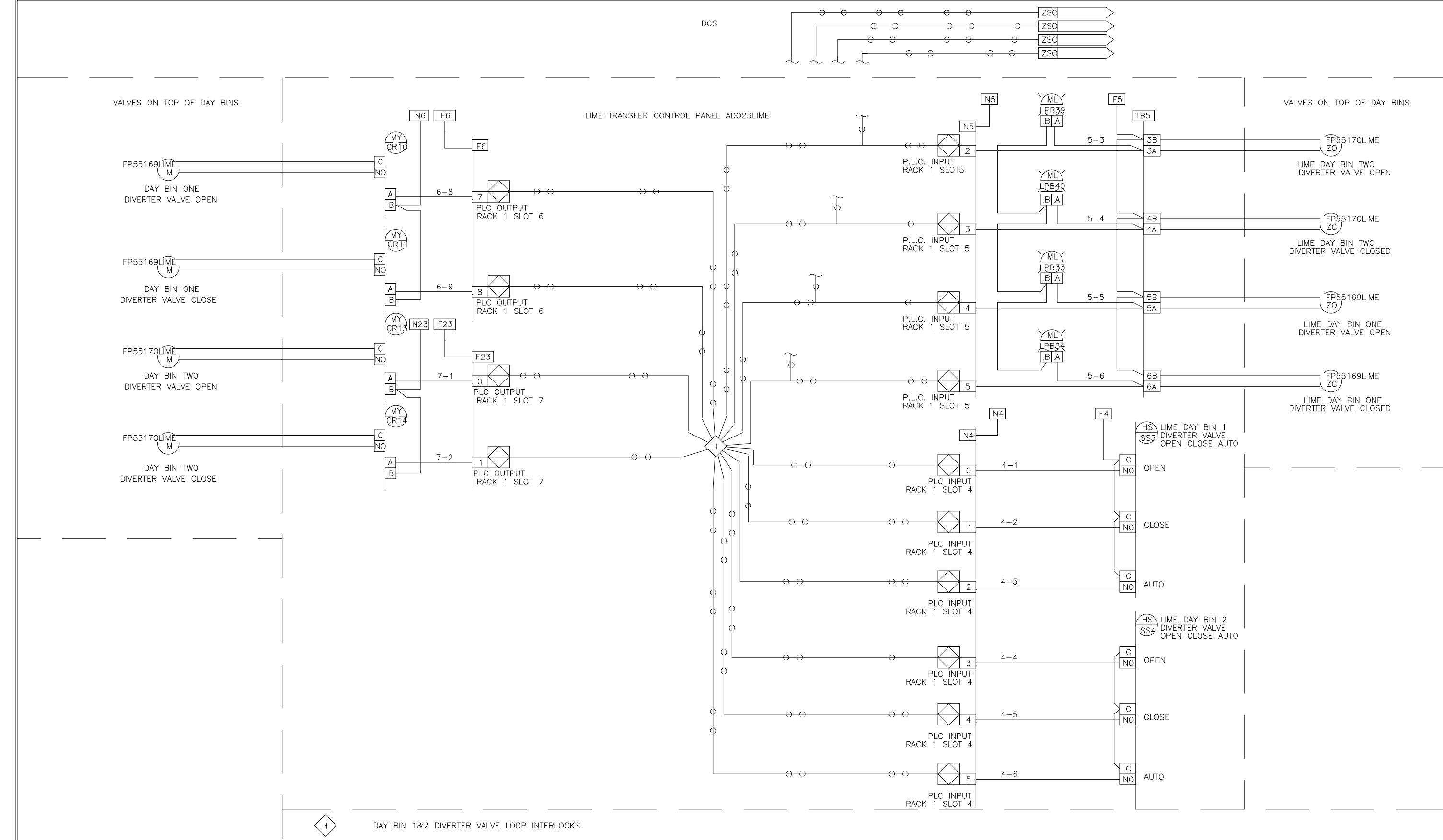
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

DATE JULY 99
 H & S JOB NUMBER 2843
 CONTRACT NUMBER 93-02-WPC
 DRAWING NUMBER IP-13
 SHEET 31M OF 199

RECORD DRAWING



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DES: S.E.I. SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

DRF: S.E.I. I.S.A. FORMAT LOOP INTERLOCK DWG LIME TRANSFER CONTROL PANEL ADO23LIME

CHK: S.E.I. FOR: DANIS HEAVY CONSTRUCTION

SCALE: REV LTR: DWG NO: 9542261

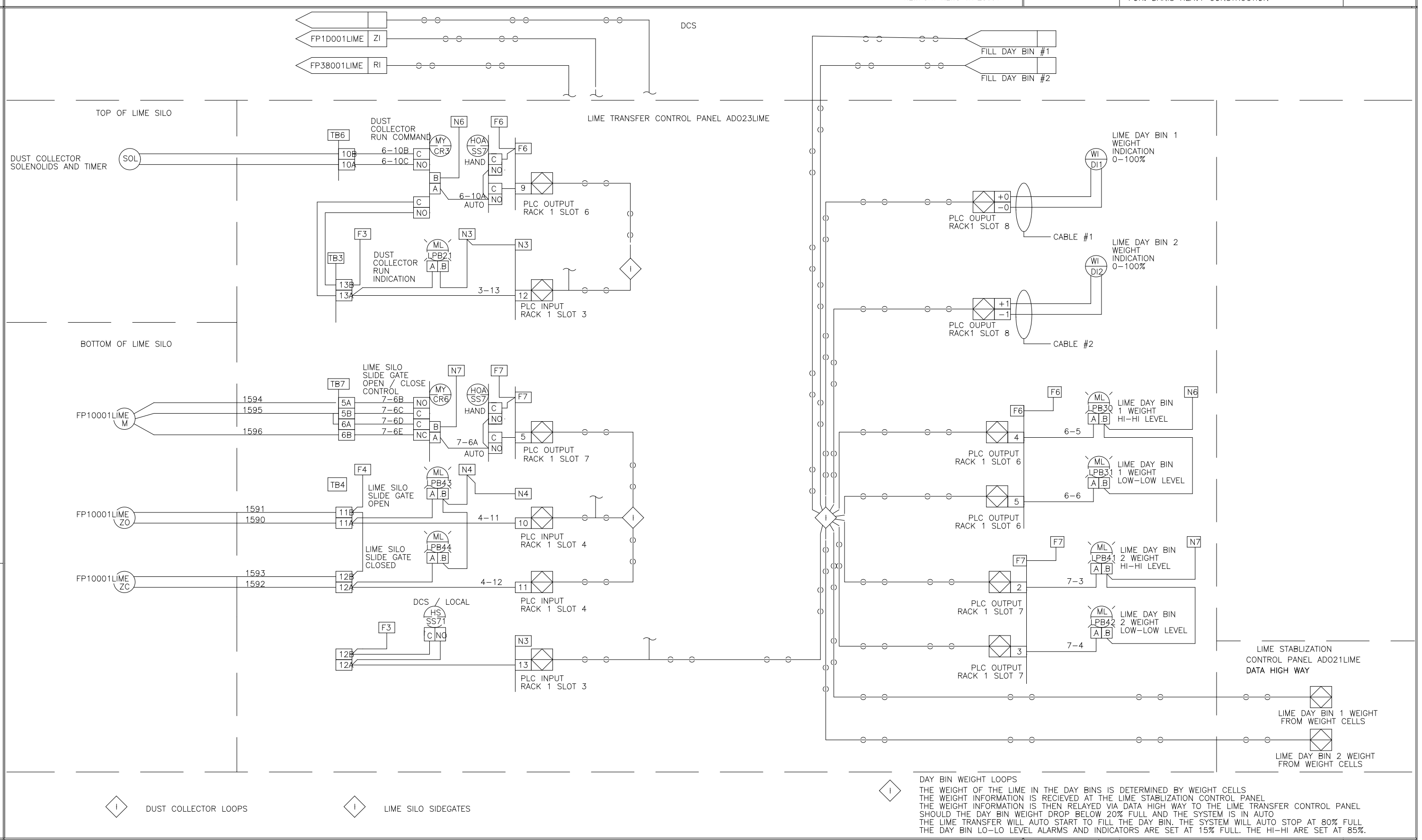
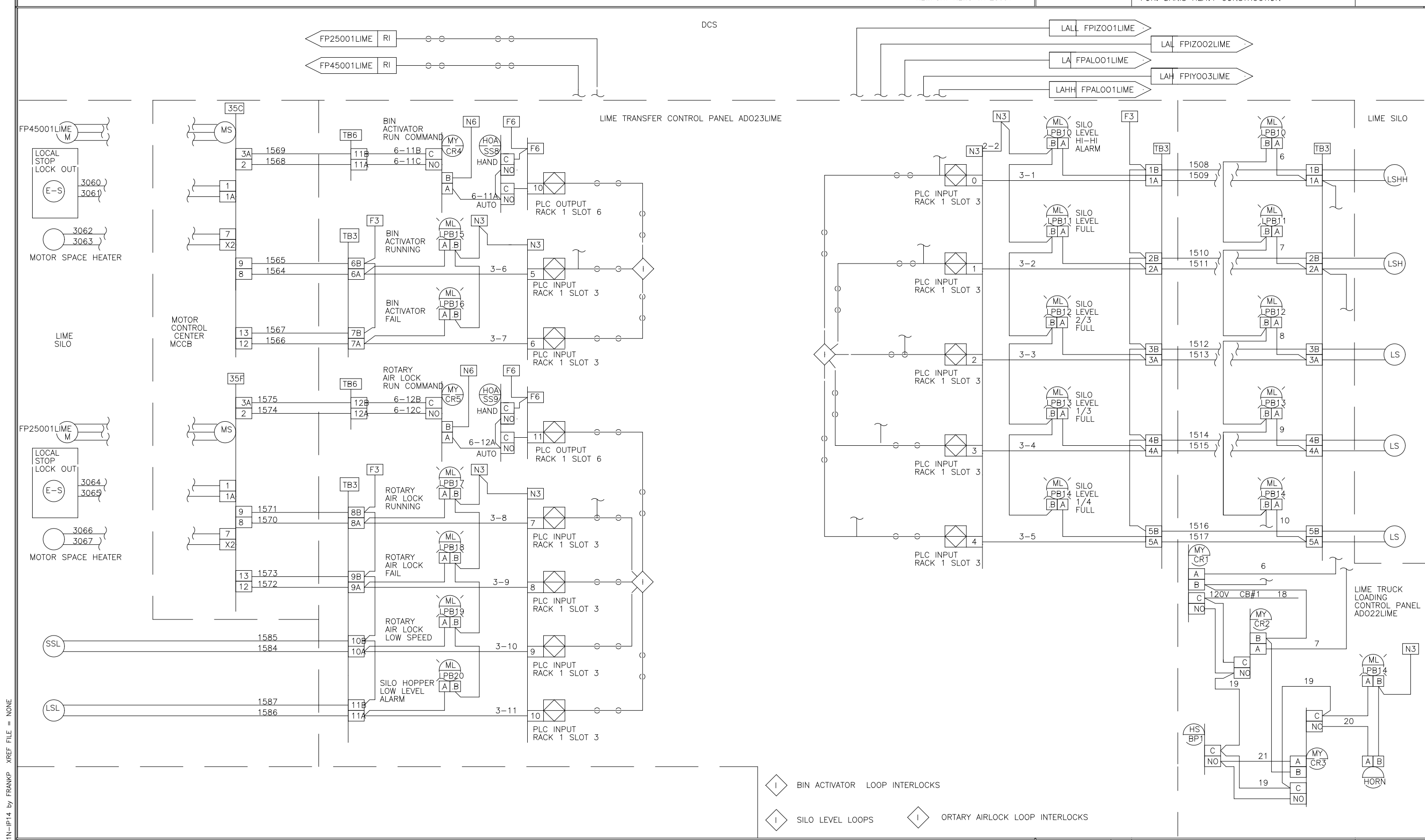
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DES: S.E.I. SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

DRF: S.E.I. I.S.A. FORMAT LOOP INTERLOCK DWG LIME TRANSFER AND TRUCK UNLOADING CONTROL PANELS ADO23LIME & ADO22LIME

CHK: S.E.I. FOR: DANIS HEAVY CONSTRUCTION

SCALE: REV LTR: DWG NO: 9542262



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DES: S.E.I. SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

DRF: S.E.I. I.S.A. FORMAT LOOP INTERLOCK DWG LIME TRANSFER AND LIME TRUCK UNLOADING CONTROL PANELS ADO23LIME & ADO22LIME

CHK: S.E.I. FOR: DANIS HEAVY CONSTRUCTION

SCALE: REV LTR: DWG NO: 9542263

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DES: S.E.I. SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

DRF: S.E.I. I.S.A. FORMAT LOOP INTERLOCK DWG LIME TRANSFER CONTROL PANEL ADO23LIME

CHK: S.E.I. FOR: DANIS HEAVY CONSTRUCTION

SCALE: REV LTR: DWG NO: 9542264

DESIGNED	MKS
DRAWN	
CHECKED	
PROJ.ENGR.	
APPROVED	

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HAZEN AND SAWYER, P.C.

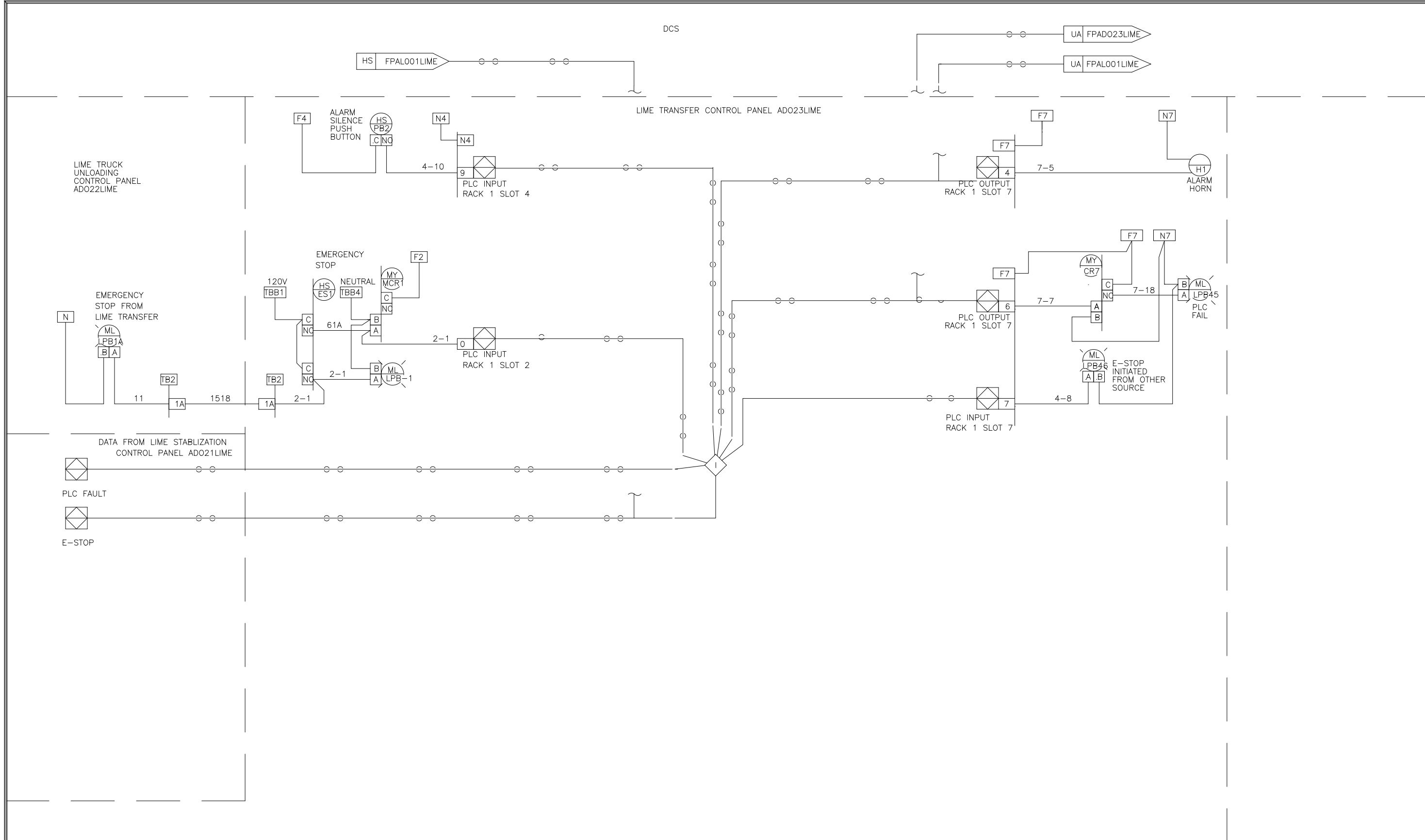
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Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

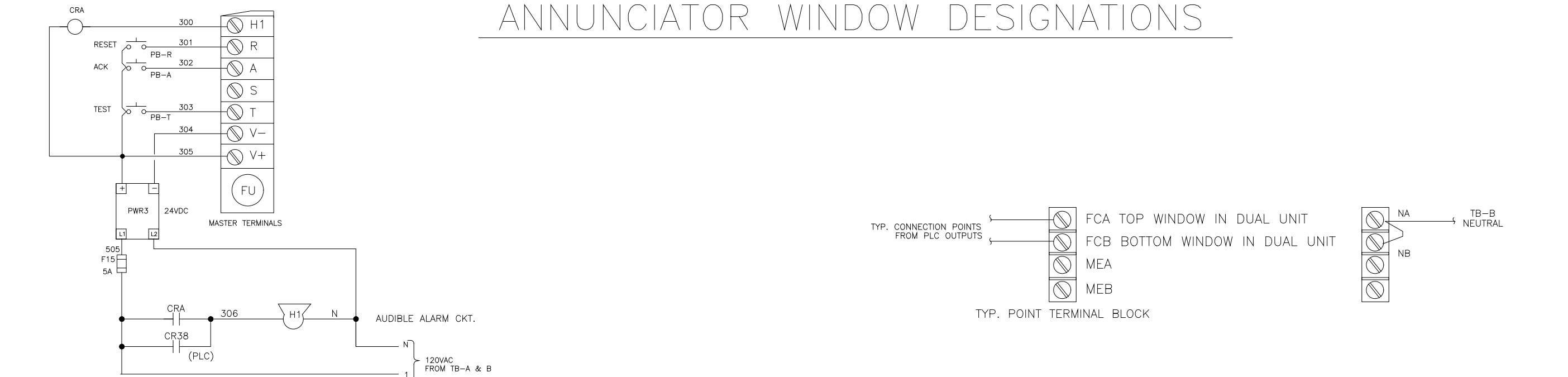
DATE: JULY 99
H & S JOB NUMBER: 2843
CONTRACT NUMBER: 93-02-WPC
DRAWING NUMBER: IP-14
SHEET 31N OF 199

RECORD DRAWING



	1-1	2-1	3-1	4-1	5-1	6-1	7-1
TOP 1-1	POLYMER FEED PUMP #1 FAIL	POLYMER FEED PUMP #2 FAIL	POLYMER FEED PUMP #5 FAIL	POLYMER FEED PUMP #3 FAIL	POLYMER FEED PUMP #4 FAIL	POLYMER XFR. PUMP #1 FAIL	POLYMER XFR. PUMP #2 FAIL
BOT 1-2	POLYMER FEED PUMP #1 HIGH PRESSURE	POLYMER FEED PUMP #2 HIGH PRESSURE	POLYMER FEED PUMP #5 HIGH PRESSURE	POLYMER FEED PUMP #3 HIGH PRESSURE	POLYMER FEED PUMP #4 HIGH PRESSURE	POLYMER XFR. PUMP #1 HIGH PRESSURE	POLYMER XFR. PUMP #2 HIGH PRESSURE
TOP 1-3	POLYMER FEED PUMP #1 LOW PRESSURE	POLYMER FEED PUMP #2 LOW PRESSURE	POLYMER FEED PUMP #5 LOW PRESSURE	POLYMER FEED PUMP #3 LOW PRESSURE	POLYMER FEED PUMP #4 LOW PRESSURE	POLYMER XFR. PUMP #1 LOW PRESSURE	POLYMER XFR. PUMP #2 LOW PRESSURE
BOT 1-4	POLYMER XFR. VALVE #1 FAIL	POLYMER XFR. VALVE #2A FAIL	POLYMER XFR. VALVE #2B FAIL	POLYMER XFR. VALVE #3 FAIL	HOLD/FEED TANK #1 HIGH LEVEL	HOLD/FEED TANK #2 HIGH LEVEL	HOLD/FEED TANK #3 HIGH LEVEL
TOP 1-5	CENTRIFUGE #1 FAIL	CENTRIFUGE #2 FAIL	CENTRIFUGE #3 FAIL	POLYMER STORAGE TANK LOW LEVEL	HOLD/FEED TANK #1 LOW LEVEL	HOLD/FEED TANK #2 LOW LEVEL	HOLD/FEED TANK #3 LOW LEVEL
BOT 1-6	CENTRIFUGE #4 FAIL	2-6 SPARE 2-6	3-6 SPARE 3-6	POLYMER STORAGE TANK LOW-LOW LEVEL	HOLD/FEED TANK #1 LOW-LOW LEVEL	HOLD/FEED TANK #2 LOW-LOW LEVEL	HOLD/FEED TANK #3 LOW-LOW LEVEL

ANNUNCIATOR WINDOW DESIGNATIONS



DES: BM, MA, SEI
 DRF: BM, MA, SEI
 CHK: BM, MA, SEI
 SCALE: 1/8" = 1'-0"

U.S.A. FORMAT LOOP INTERLOCK DWG
 LIME TRANSFER AND LIME TRUCK UNLOADING
 CONTROL PANELS
 ADO23LIME & ADO22LIME
 FOR: DANIS HEAVY CONSTRUCTION

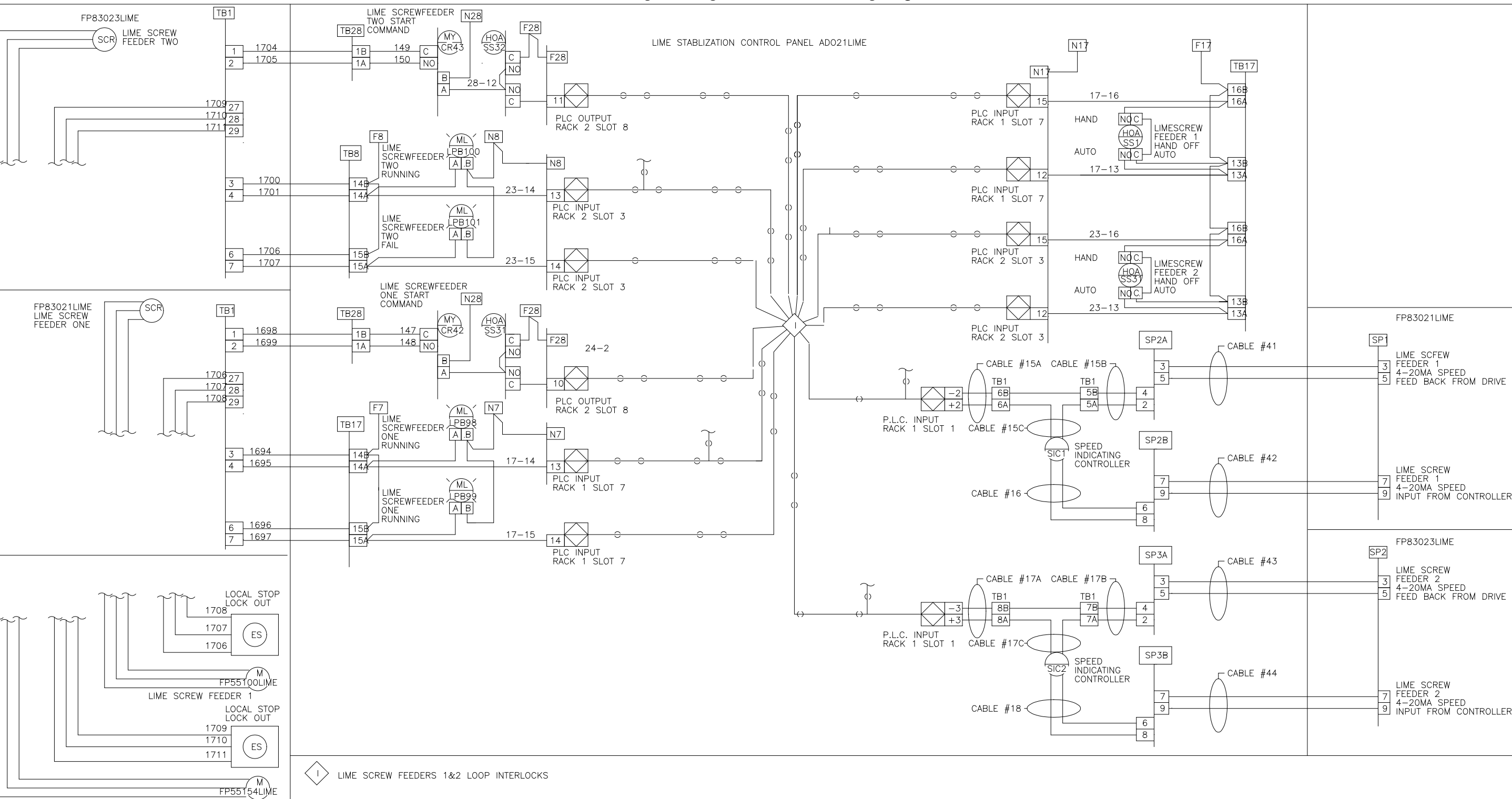
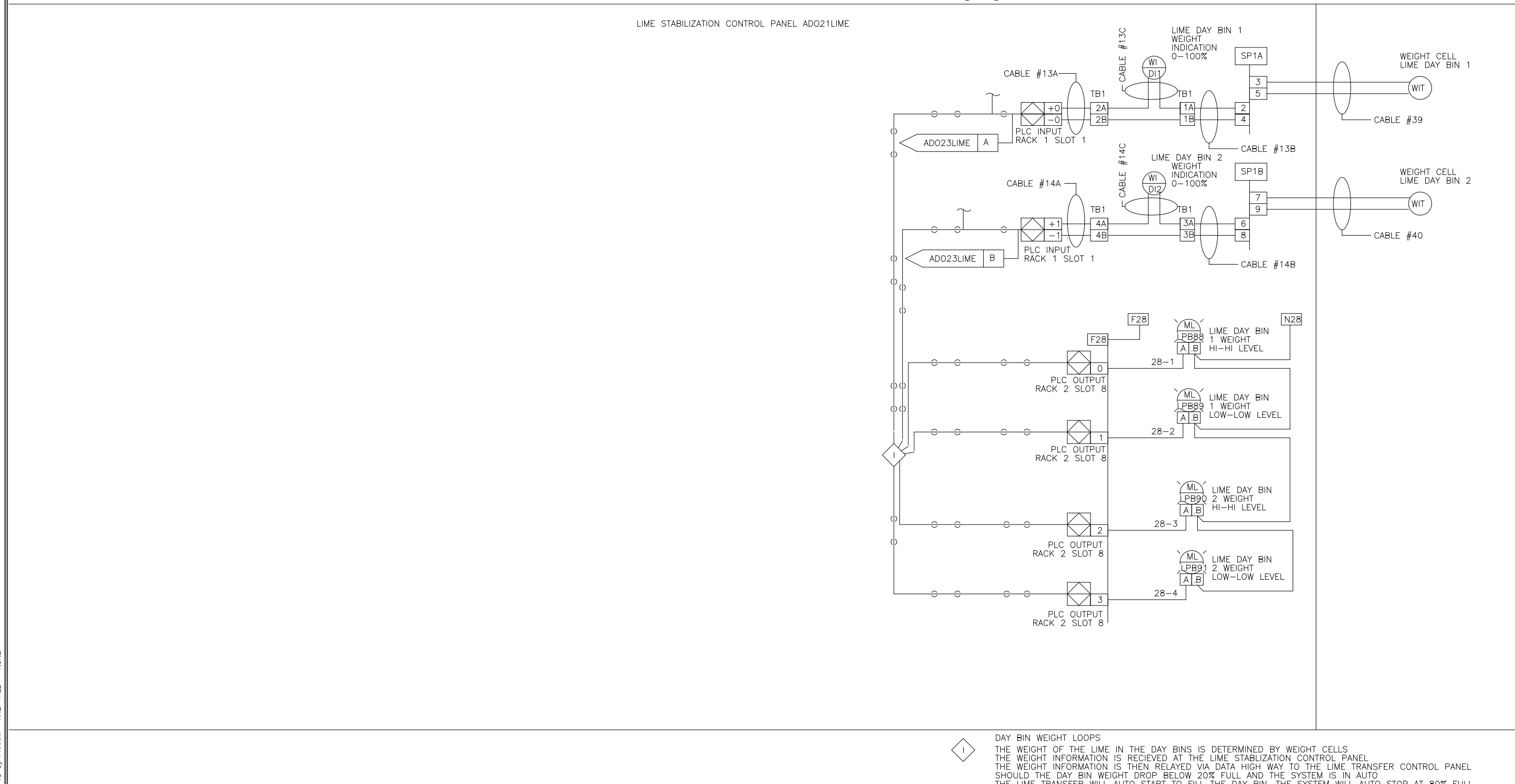
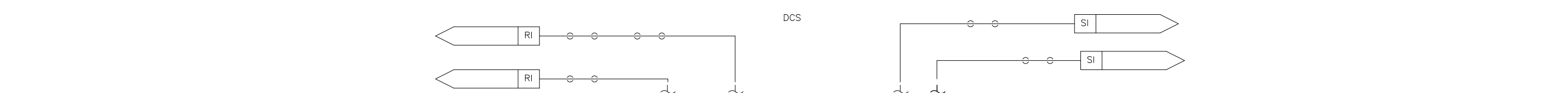
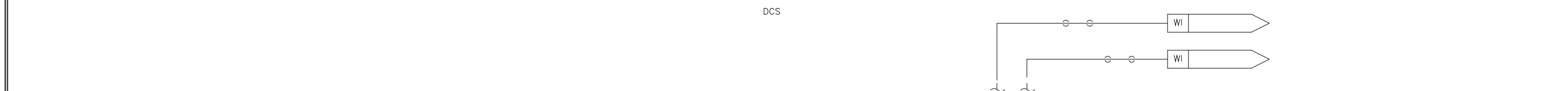
REV LTR: D 10/98 REVISED AS BUILT
 C 2/97 REVISED FOR CONSTRUCTION
 B 12/96 REVISED PER ENGINEERS COMMENTS
 A 9/96 ISSUED FOR APPROVAL

DWG NO: 9542265

DES: MA, SEI
 DRF: MA, SEI
 CHK: MA, SEI
 SCALE: 1/8" = 1'-0"

ANNUNCIATOR LAYOUT
 POLYMER PUMP PANEL
 ARLINGTON CO. VIRGINIA
 FOR: DANIS INDUSTRIES

REV LTR: D
 DWG NO: 954227



DES: BM, MA, SEI
 DRF: BM, MA, SEI
 CHK: BM, MA, SEI
 SCALE: 1/8" = 1'-0"

U.S.A. FORMAT LOOP INTERLOCK DWG
 LIME STABILIZATION CONTROL PANEL
 ADO21LIME
 FOR: DANIS HEAVY CONSTRUCTION

REV LTR: D
 DWG NO: 9542270

DES: MA, SEI
 DRF: MA, SEI
 CHK: MA, SEI
 SCALE: 1/8" = 1'-0"

ANNUNCIATOR LAYOUT
 POLYMER PUMP PANEL
 ARLINGTON CO. VIRGINIA
 FOR: DANIS HEAVY CONSTRUCTION

REV LTR: D
 DWG NO: 9542271

DESIGNED	MKS
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
APPROVED	

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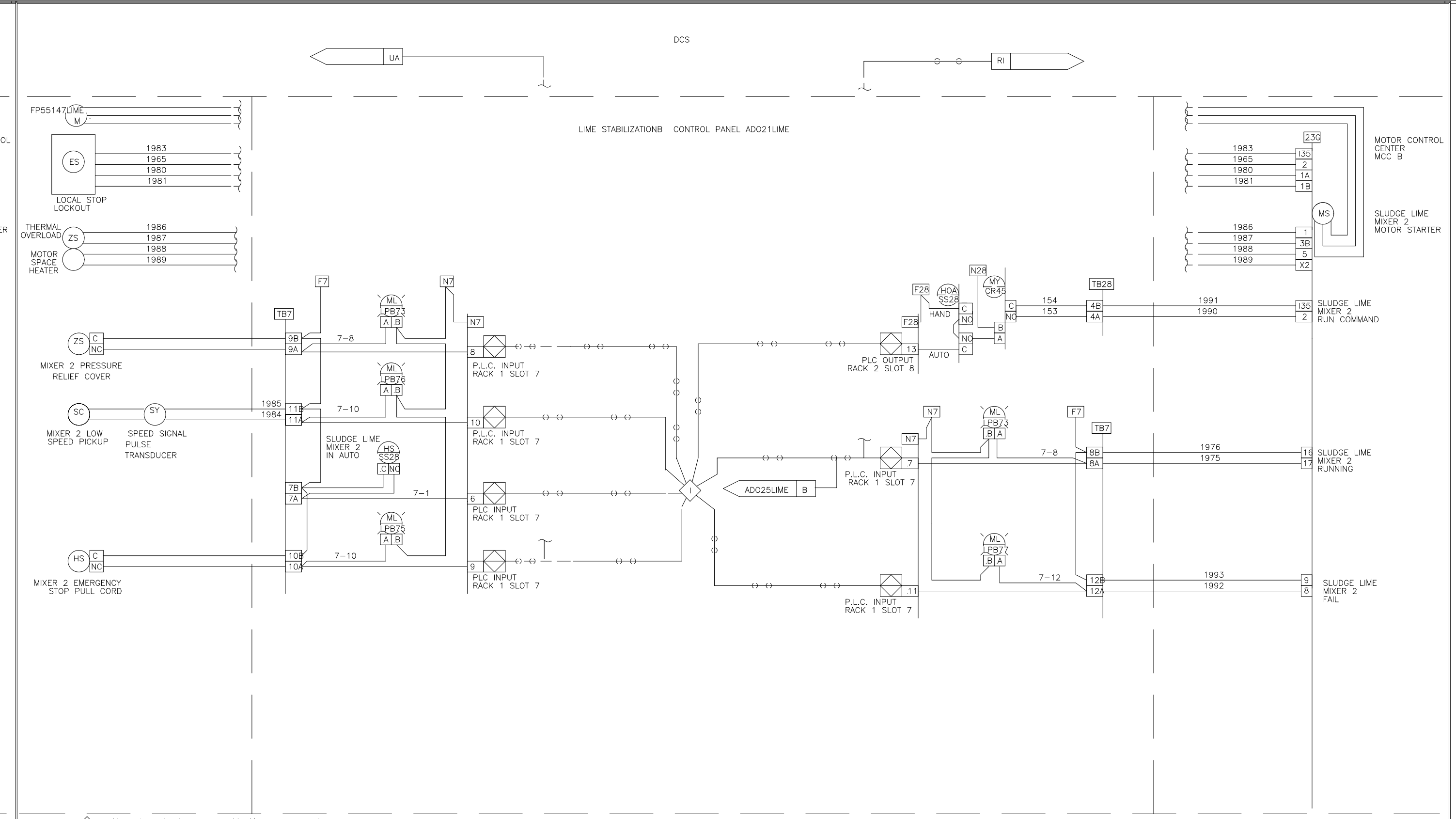
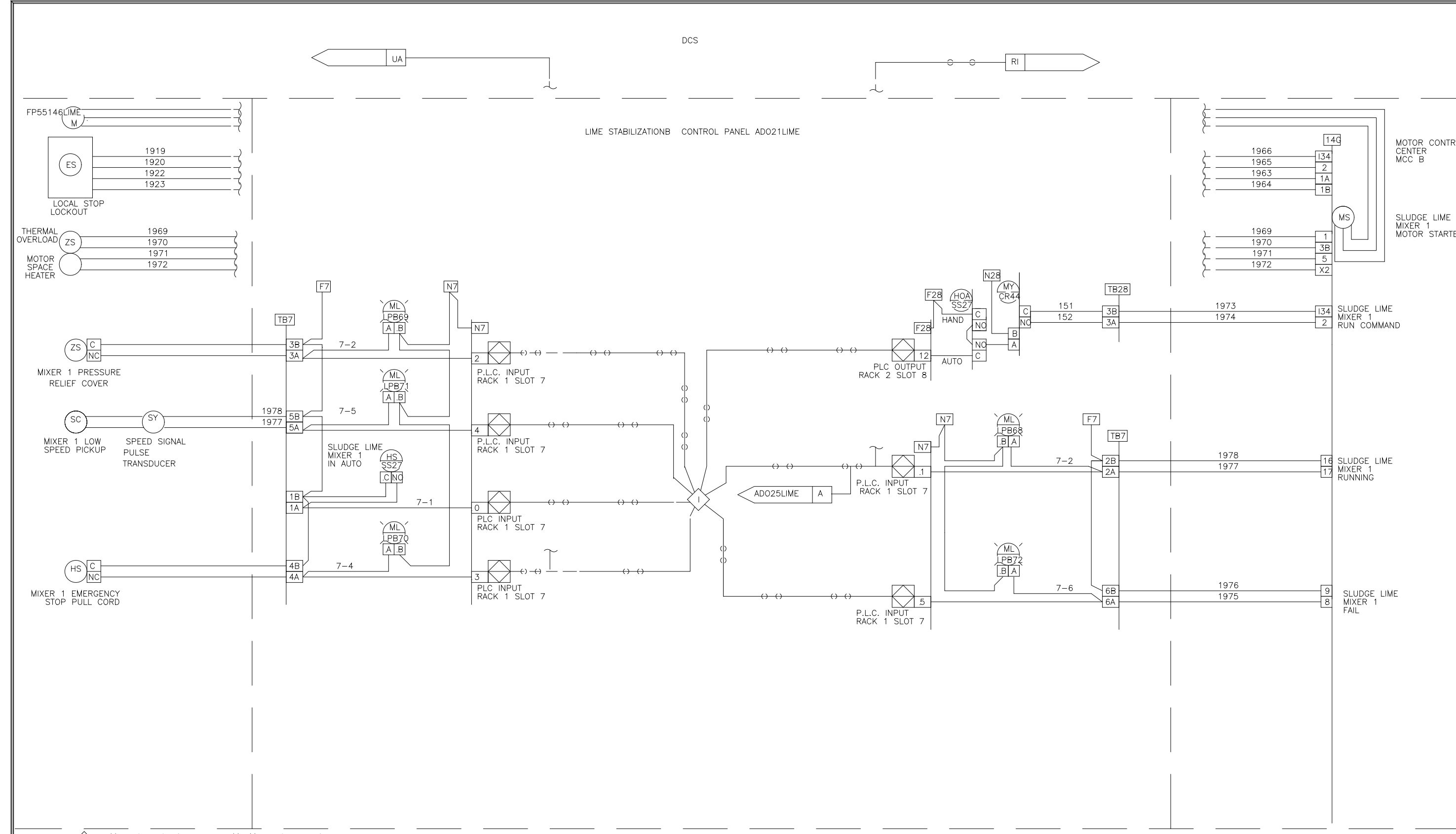
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 Environmental Engineers & Scientists
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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION

DATE: JULY 99
 H & S JOB NUMBER: 2843
 CONTRACT NUMBER: 93-02-WPC
 DRAWING NUMBER: IP-15
 SHEET 310 of 199

RECORD DRAWING



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SYSTEMS EAST INC.
PO BOX 1007
NEWPORT NEWS VA 23601

DES: BM 9/8 17/98 I.S.A. FORMAT LOOP INTERLOCK DWG
DRF: BM 9/8 17/98 LIME STABILIZATION CONTROL PANEL
CHK: BM 9/8 17/98 ADO21LIME
SCALE: FOR: DAVIS HEAVY CONSTRUCTION

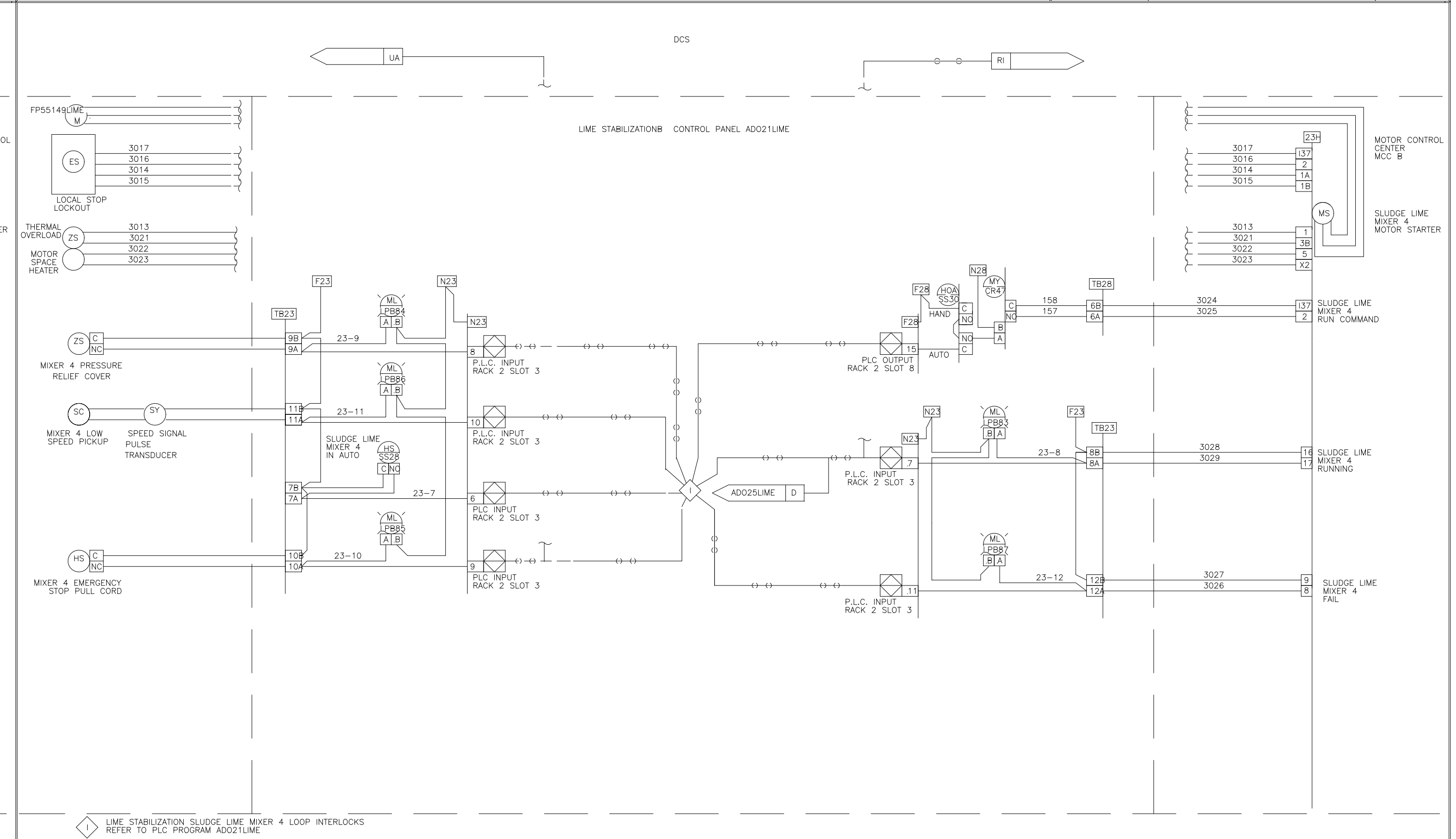
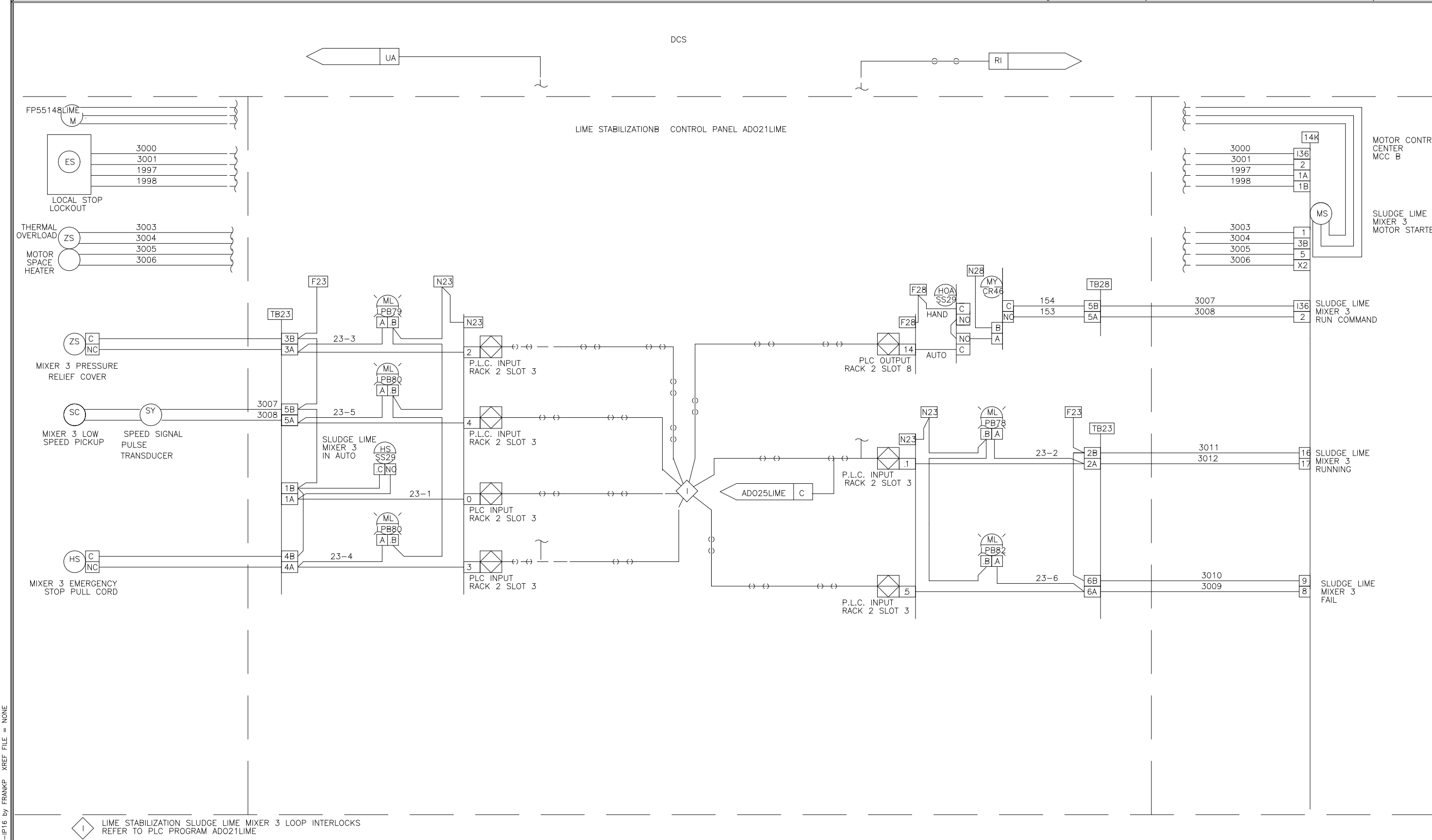
REV LTR: 9542272

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DES: BM 9/8 17/98 I.S.A. FORMAT LOOP INTERLOCK DWG
DRF: BM 9/8 17/98 LIME STABILIZATION CONTROL PANEL
CHK: BM 9/8 17/98 ADO21LIME
SCALE: FOR: DAVIS HEAVY CONSTRUCTION

REV LTR: 9542273



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NEWPORT NEWS VA 23601

DES: BM 9/8 17/98 I.S.A. FORMAT LOOP INTERLOCK DWG
DRF: BM 9/8 17/98 LIME STABILIZATION CONTROL PANEL
CHK: BM 9/8 17/98 ADO21LIME
SCALE: FOR: DAVIS HEAVY CONSTRUCTION

REV LTR: 9542274

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DRF: BM 9/8 17/98 LIME STABILIZATION CONTROL PANEL
CHK: BM 9/8 17/98 ADO21LIME
SCALE: FOR: DAVIS HEAVY CONSTRUCTION

REV LTR: 9542275

DESIGNED	MKS
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
APPROVED	

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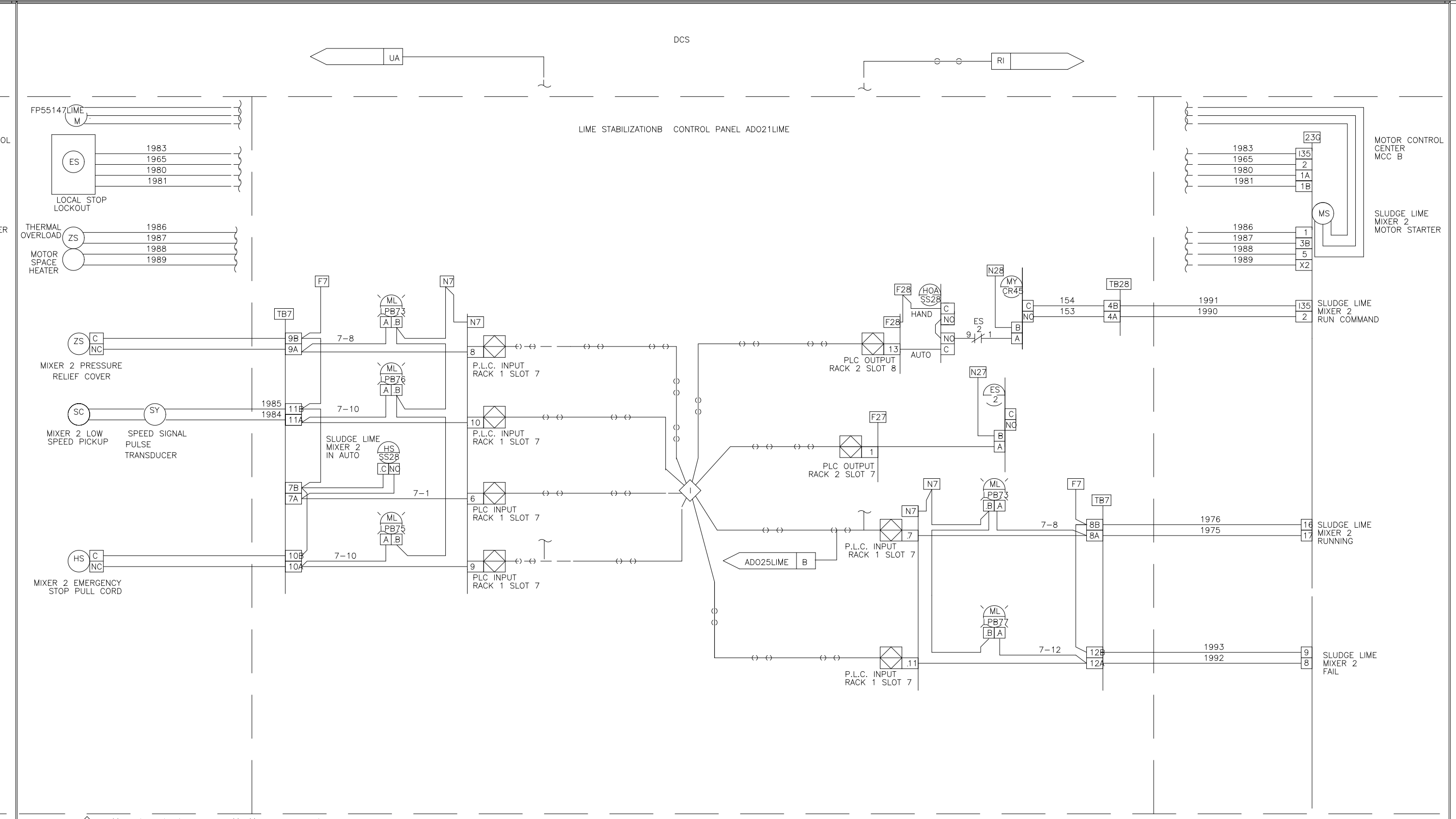
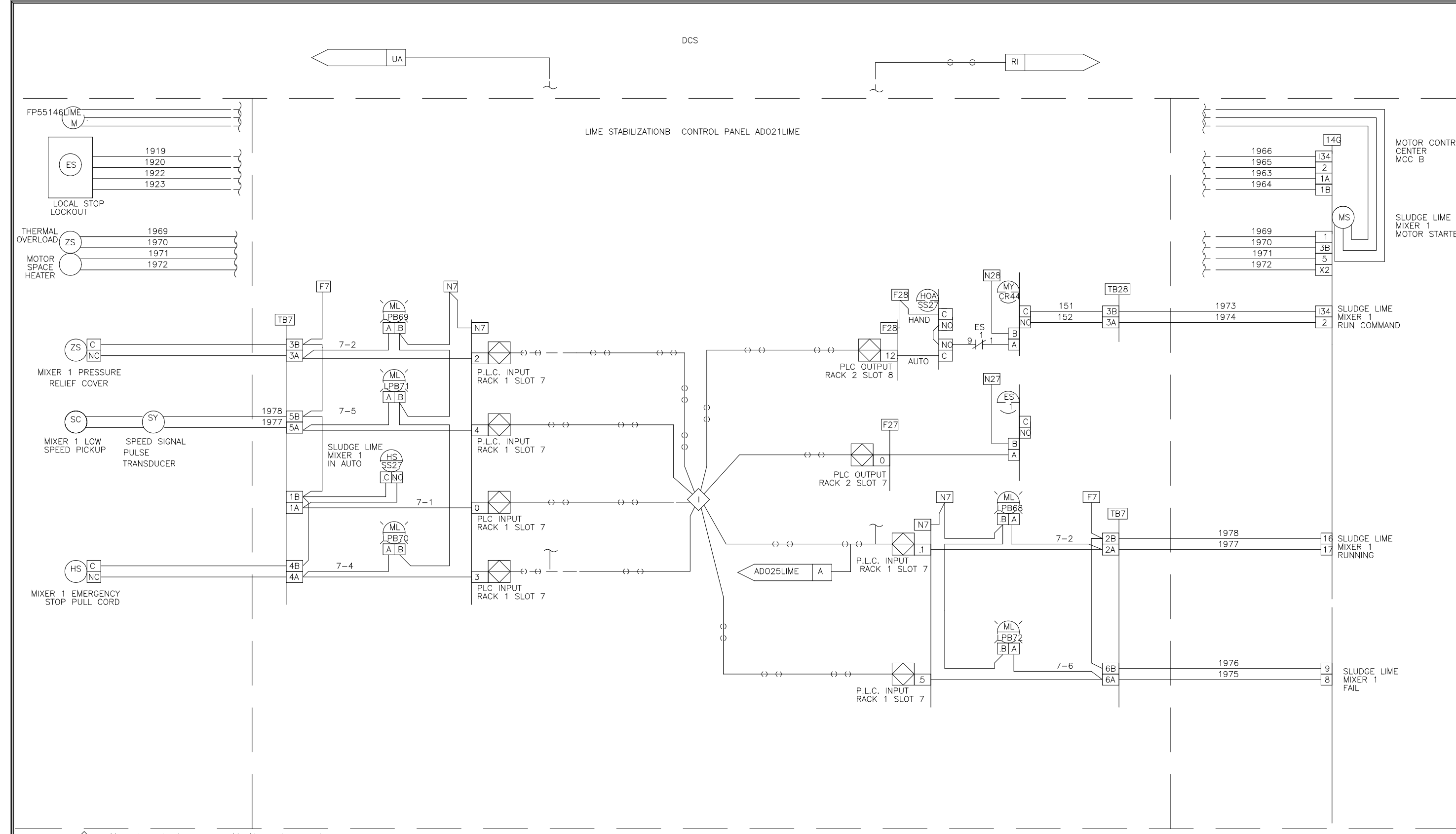
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WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-16
SHEET	31P of 199

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SEI SYSTEMS EAST INC. PO BOX 1007 NEWPORT NEWS VA 23601

DES: BM 956 1738 U.S.A. FORMAT LOOP INTERLOCK DWG
 DRW: BM 946 1738 LIME STABILIZATION CONTROL PANEL
 CHK: BM 946 1738 ADO21LIME
 SCALE: FOR: DAVIS HEAVY CONSTRUCTION

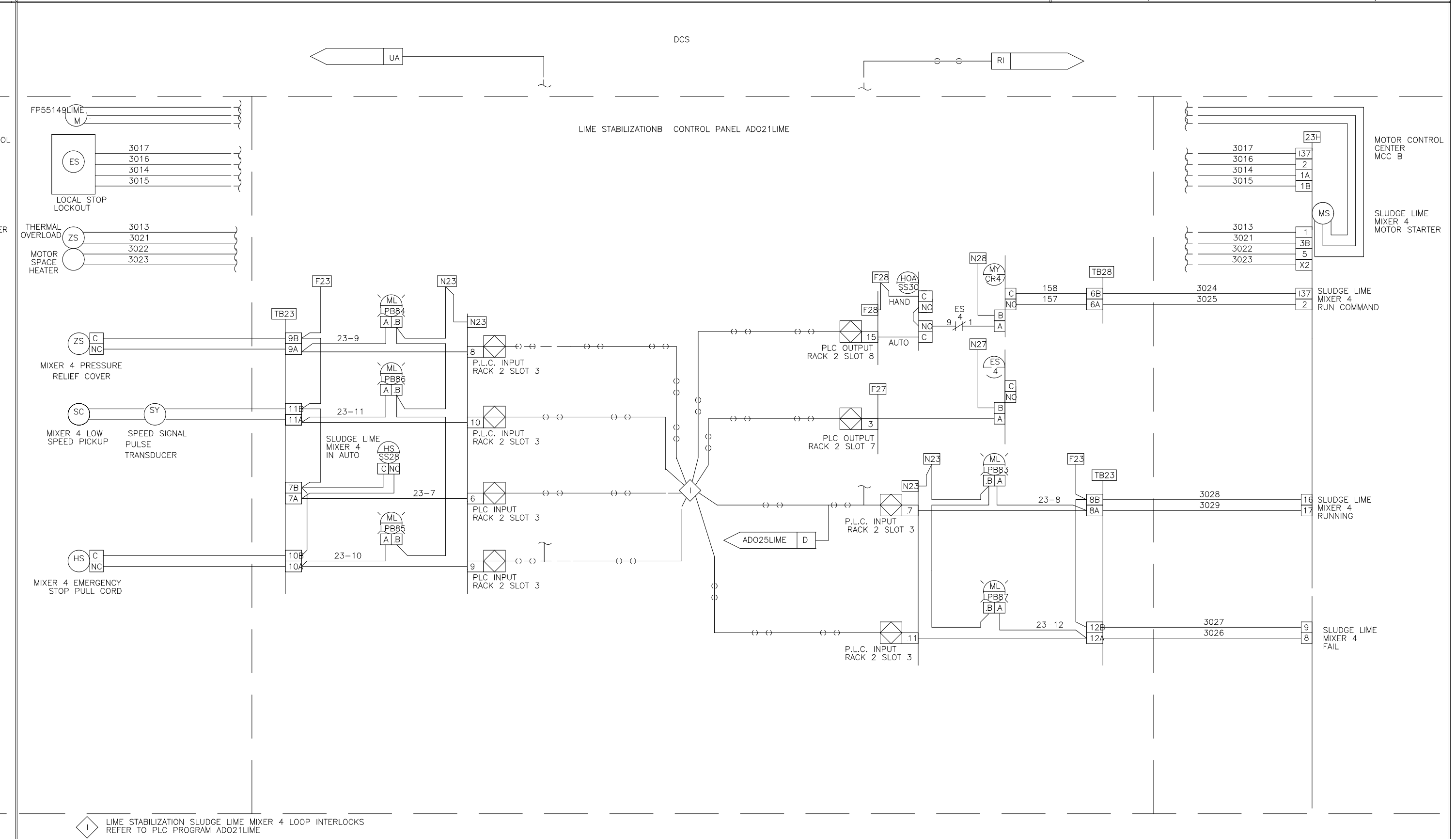
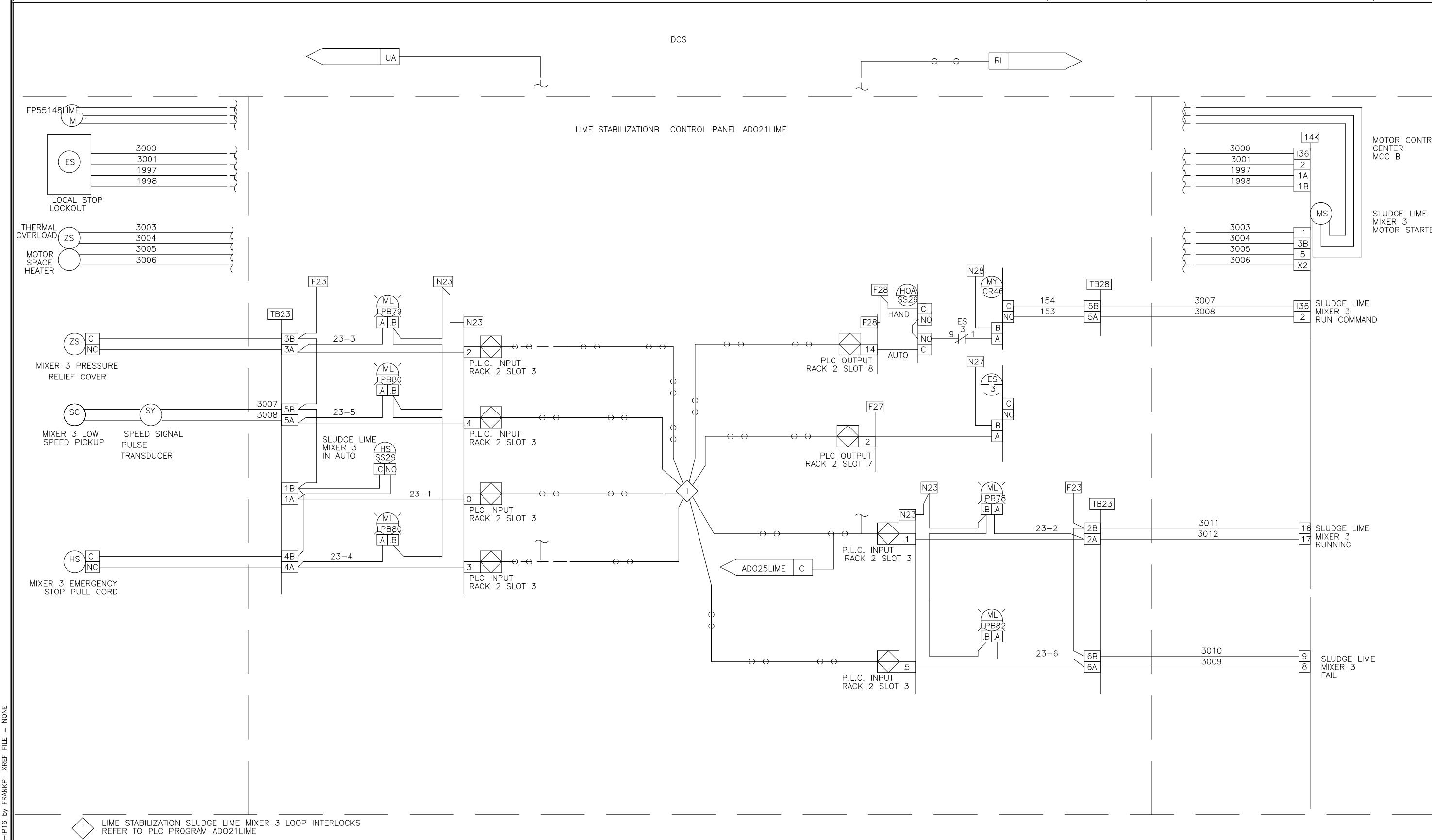
REV LTR: 9542272 DWG NO: 9542272

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DES: BM 956 1738 U.S.A. FORMAT LOOP INTERLOCK DWG
 DRW: BM 946 1738 LIME STABILIZATION CONTROL PANEL
 CHK: BM 946 1738 ADO21LIME
 SCALE: FOR: DAVIS HEAVY CONSTRUCTION

REV LTR: 9542273 DWG NO: 9542273



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DES: BM 956 1738 U.S.A. FORMAT LOOP INTERLOCK DWG
 DRW: BM 946 1738 LIME STABILIZATION CONTROL PANEL
 CHK: BM 946 1738 ADO21LIME
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REV LTR: 9542274 DWG NO: 9542274

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DES: BM 956 1738 U.S.A. FORMAT LOOP INTERLOCK DWG
 DRW: BM 946 1738 LIME STABILIZATION CONTROL PANEL
 CHK: BM 946 1738 ADO21LIME
 SCALE: FOR: DAVIS HEAVY CONSTRUCTION

REV LTR: 9542275 DWG NO: 9542275

REVISION - ADDED	5/27/04	JJ
MANUAL PULL-CORD INTERLOCK		
DESIGNED	MKS	
DRAWN		
CHECKED		
PROJ. ENGR.		
APPROVED		

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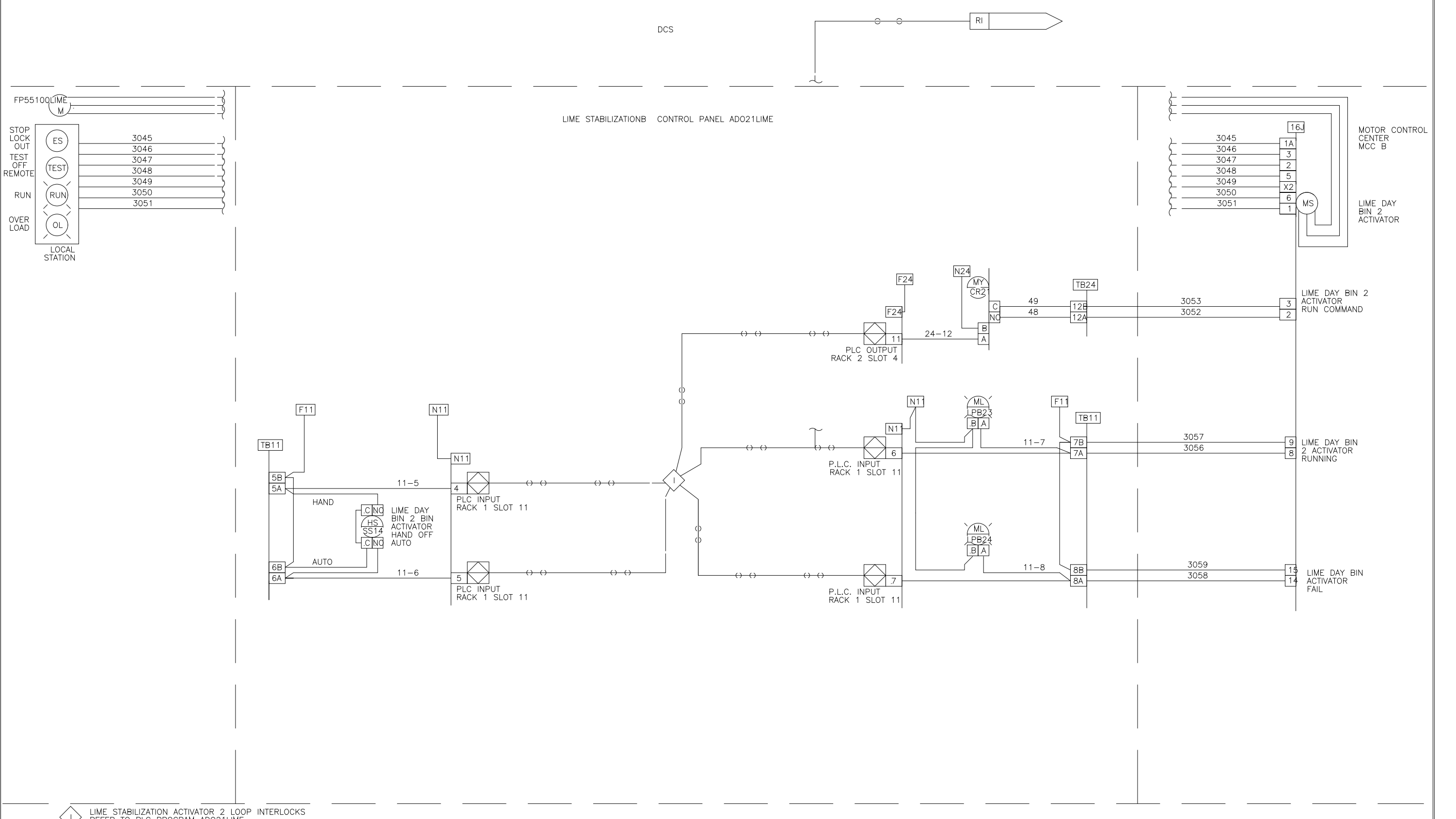
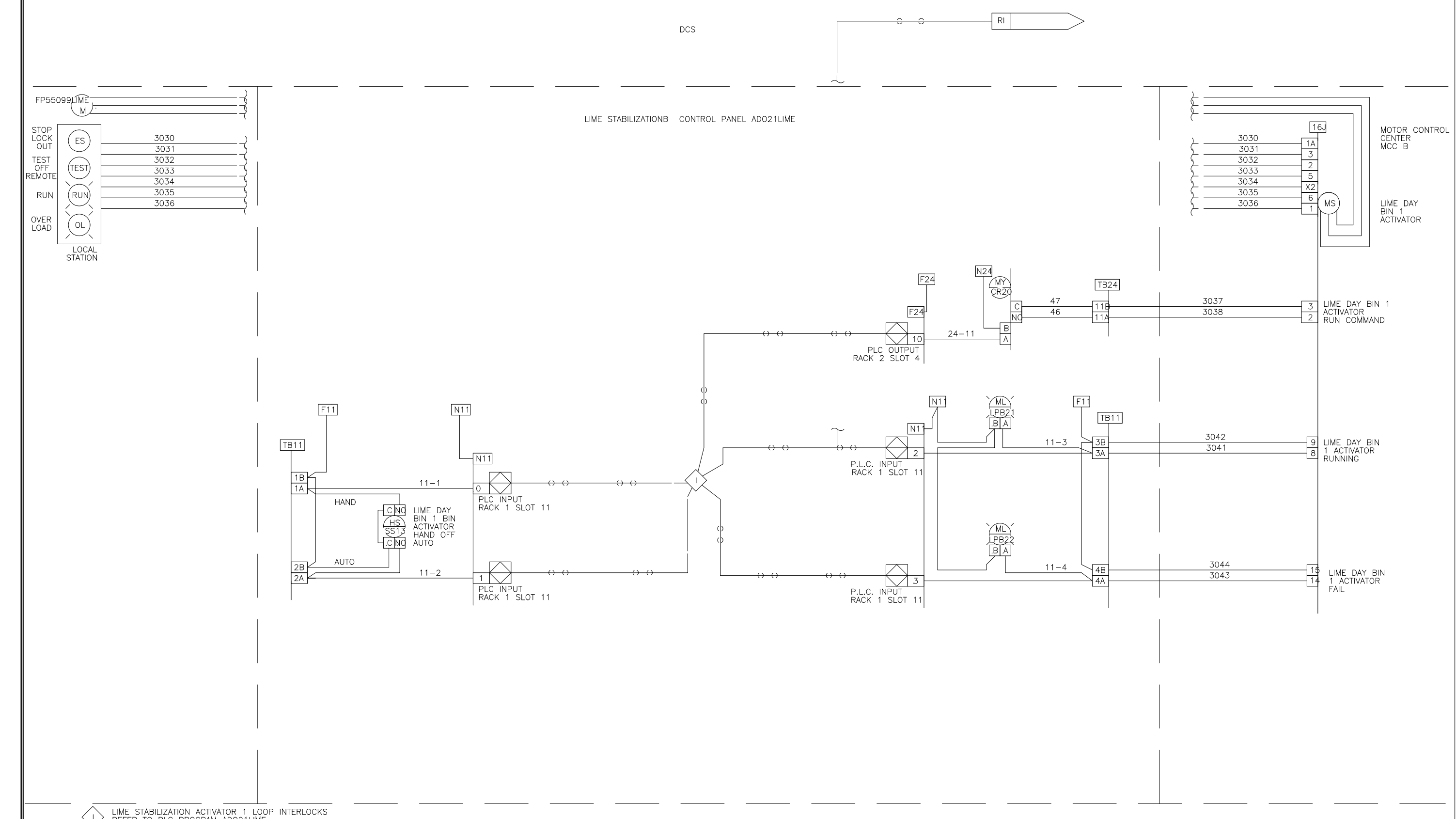
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 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION

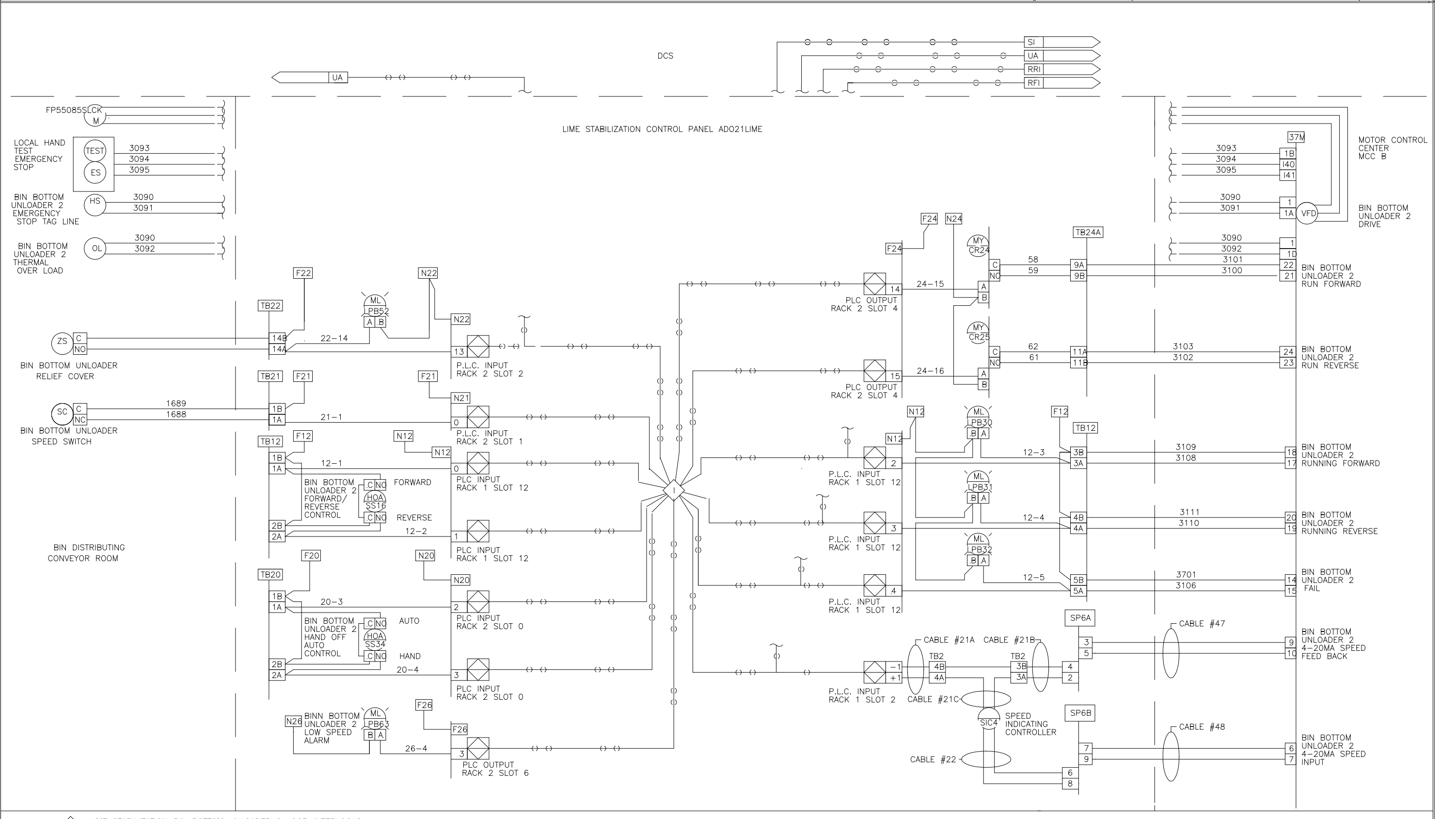
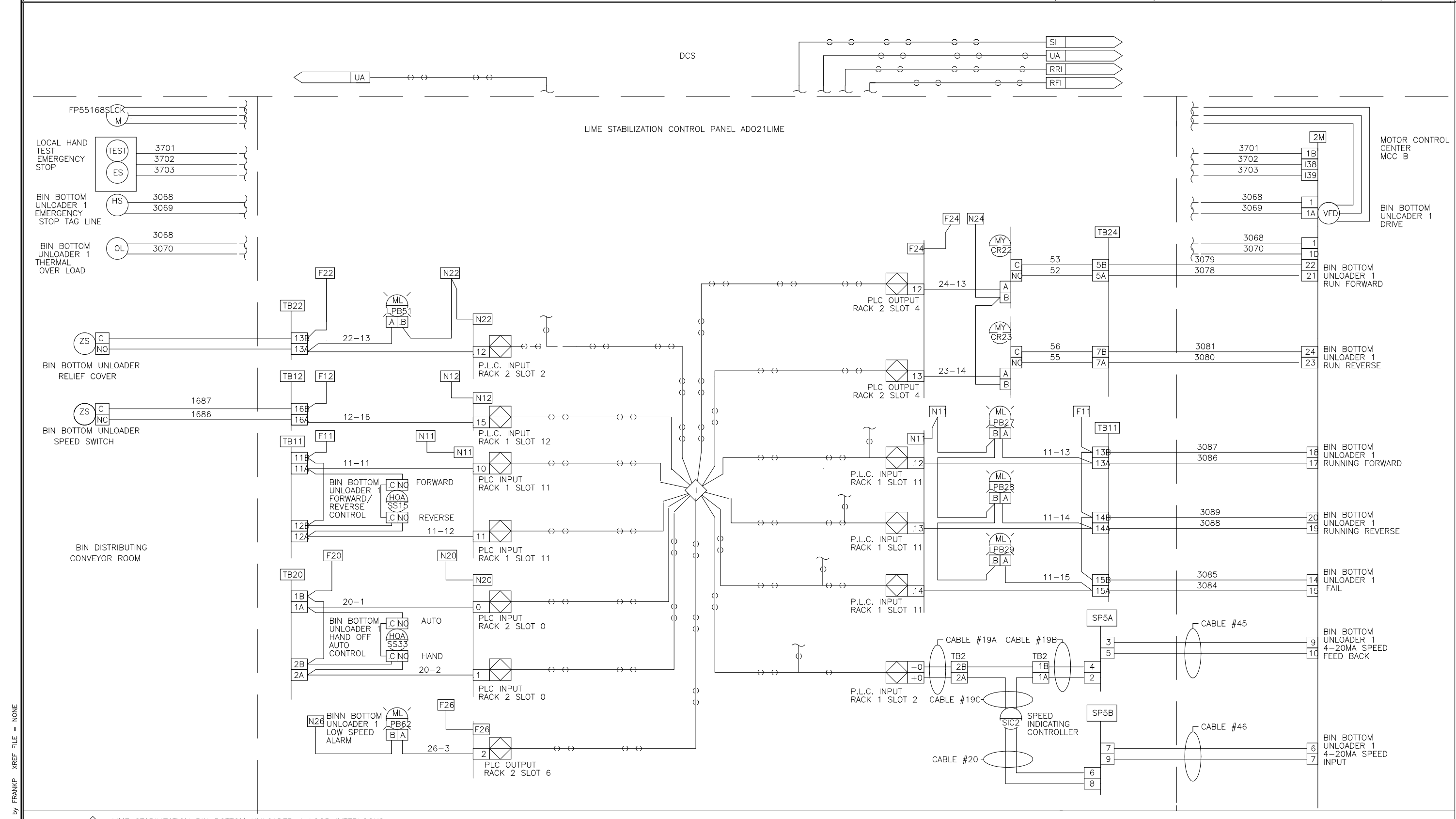
DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-16
SHEET	31P of 199

RECORD DRAWING



DES: BM 9/8 17/98 I.S.A. FORMAT LOOP INTERLOCK DWG
 DRW: BM 2/8 LIME STABILIZATION CONTROL PANEL
 CHK: JAK ADO21LIME
 SCALE: FOR: DAVIS HEAVY CONSTRUCTION
 REV: LTR DWG NO: 9542276

DES: BM 9/8 17/98 I.S.A. FORMAT LOOP INTERLOCK DWG
 DRW: BM 2/8 LIME STABILIZATION CONTROL PANEL
 CHK: JAK ADO21LIME
 SCALE: FOR: DAVIS HEAVY CONSTRUCTION
 REV: LTR DWG NO: 9542277



DES: BM 9/8 17/98 I.S.A. FORMAT LOOP INTERLOCK DWG
 DRW: BM 2/8 LIME STABILIZATION CONTROL PANEL
 CHK: JAK ADO21LIME
 SCALE: FOR: DAVIS HEAVY CONSTRUCTION
 REV: LTR DWG NO: 9542278

DES: BM 9/8 17/98 I.S.A. FORMAT LOOP INTERLOCK DWG
 DRW: BM 2/8 LIME STABILIZATION CONTROL PANEL
 CHK: JAK ADO21LIME
 SCALE: FOR: DAVIS HEAVY CONSTRUCTION
 REV: LTR DWG NO: 9542279

DESIGNED	MKS
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
APPROVED	

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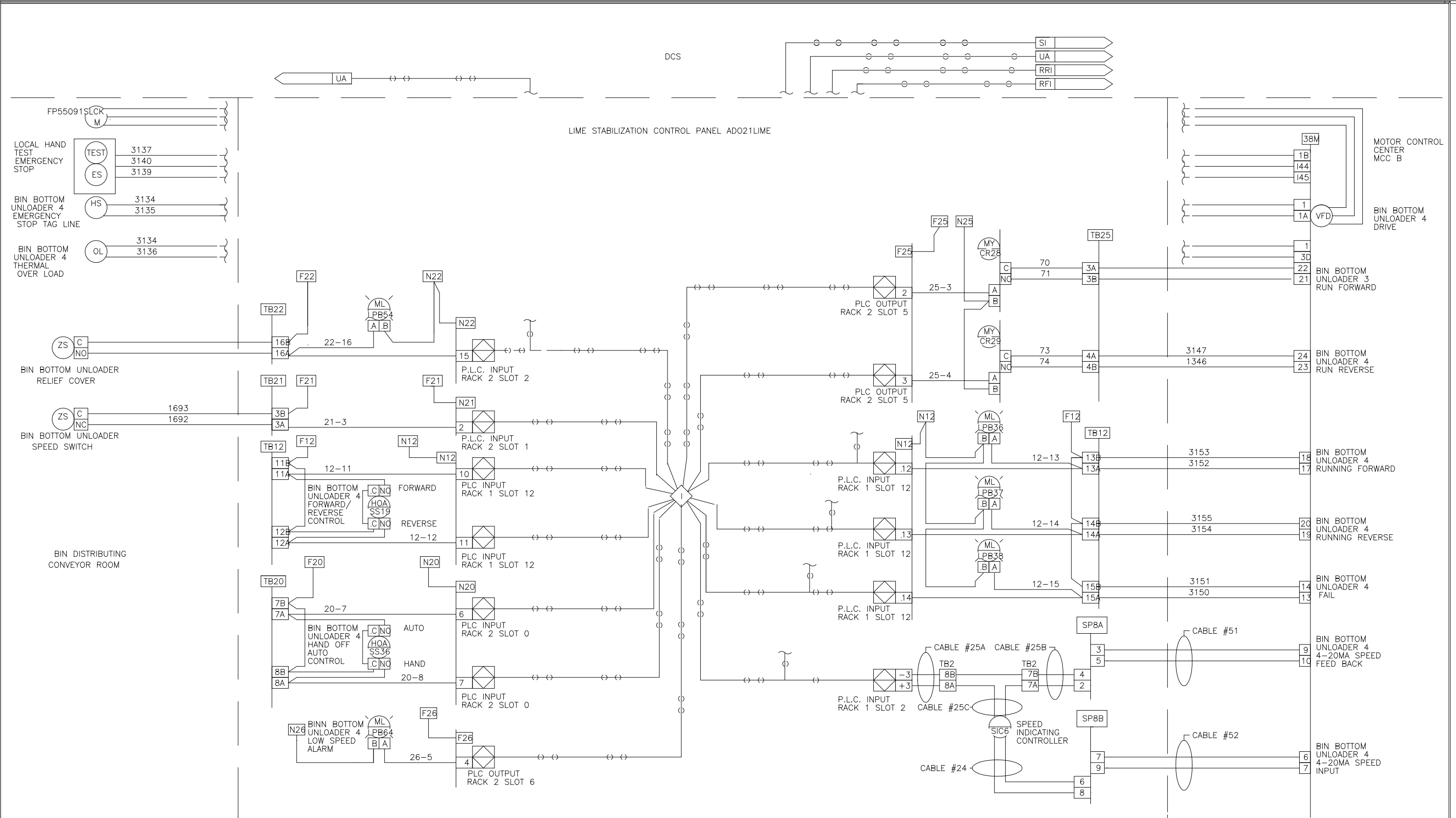
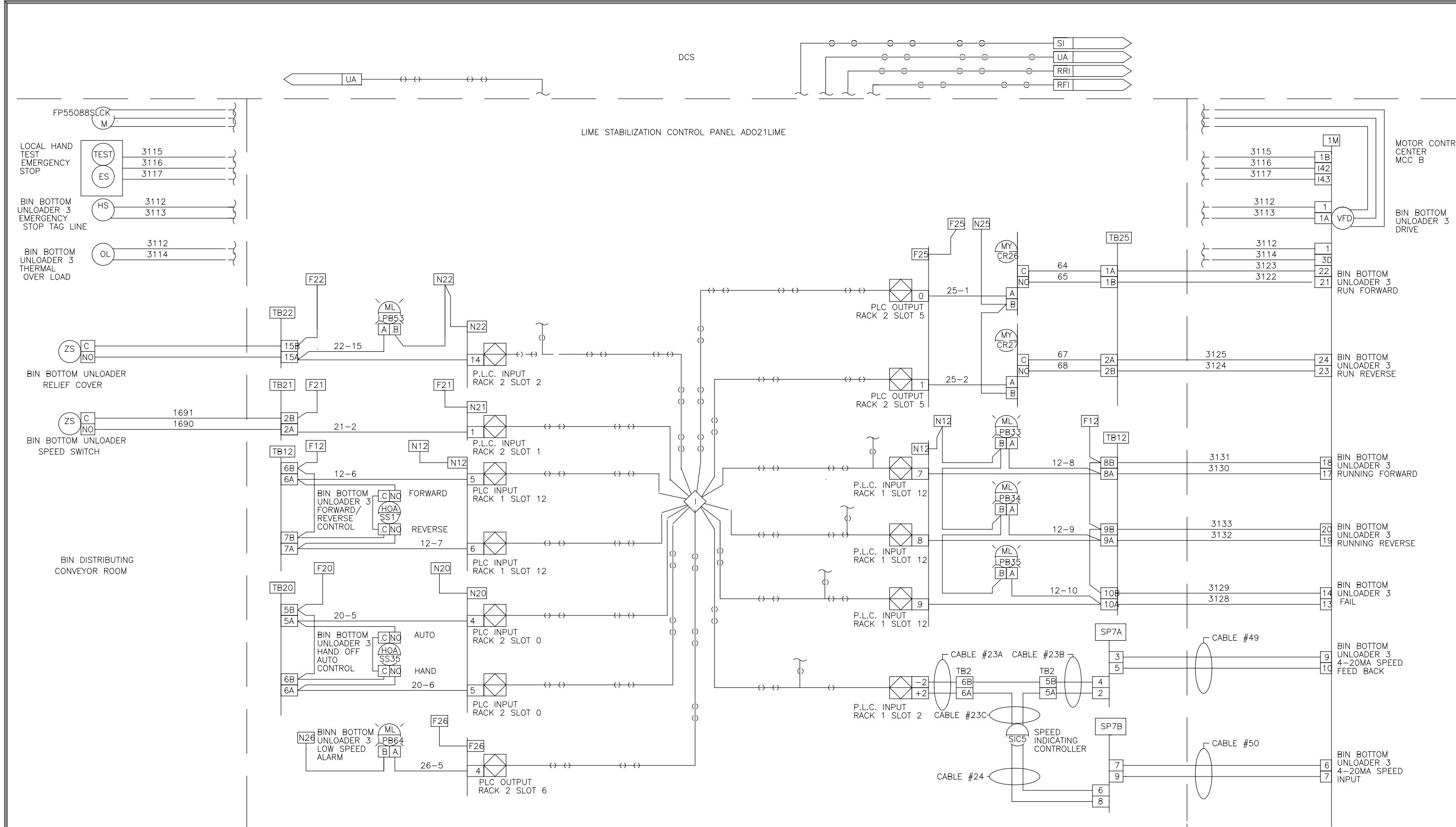
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GENERAL
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DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-17
SHEET	310 of 199

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DES: BM 7/28/99
 DRW: BM 8/28/99
 CHK: SAK
 SCALE: 1"=100'

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U.S.A. FORMAT LOOP INTERLOCK DWG
 LIME STABILIZATION CONTROL PANEL
 ADO21LIME

FOR: DAVIS HEAVY CONSTRUCTION

REV LTR: DWG NO: 9542280

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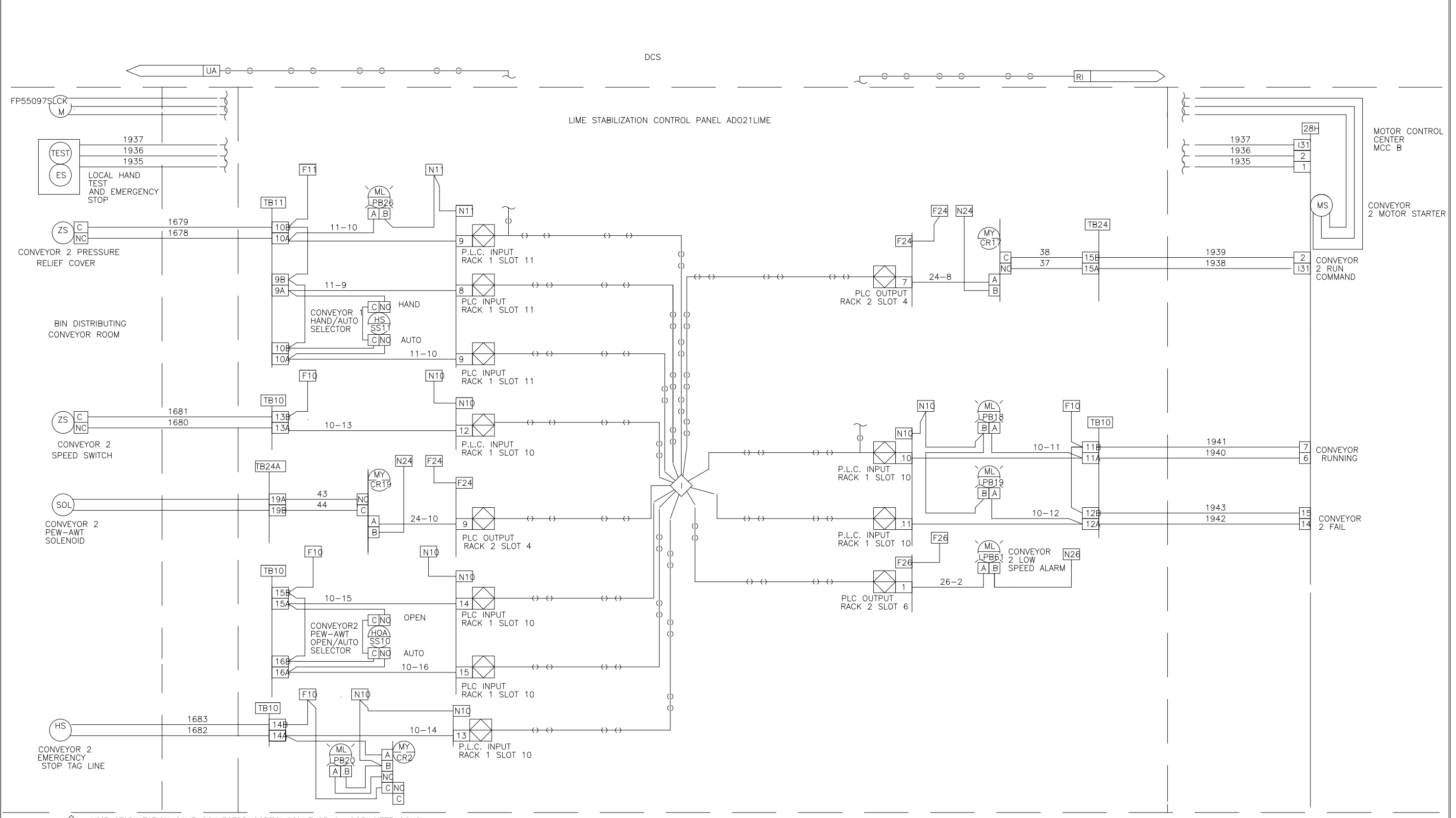
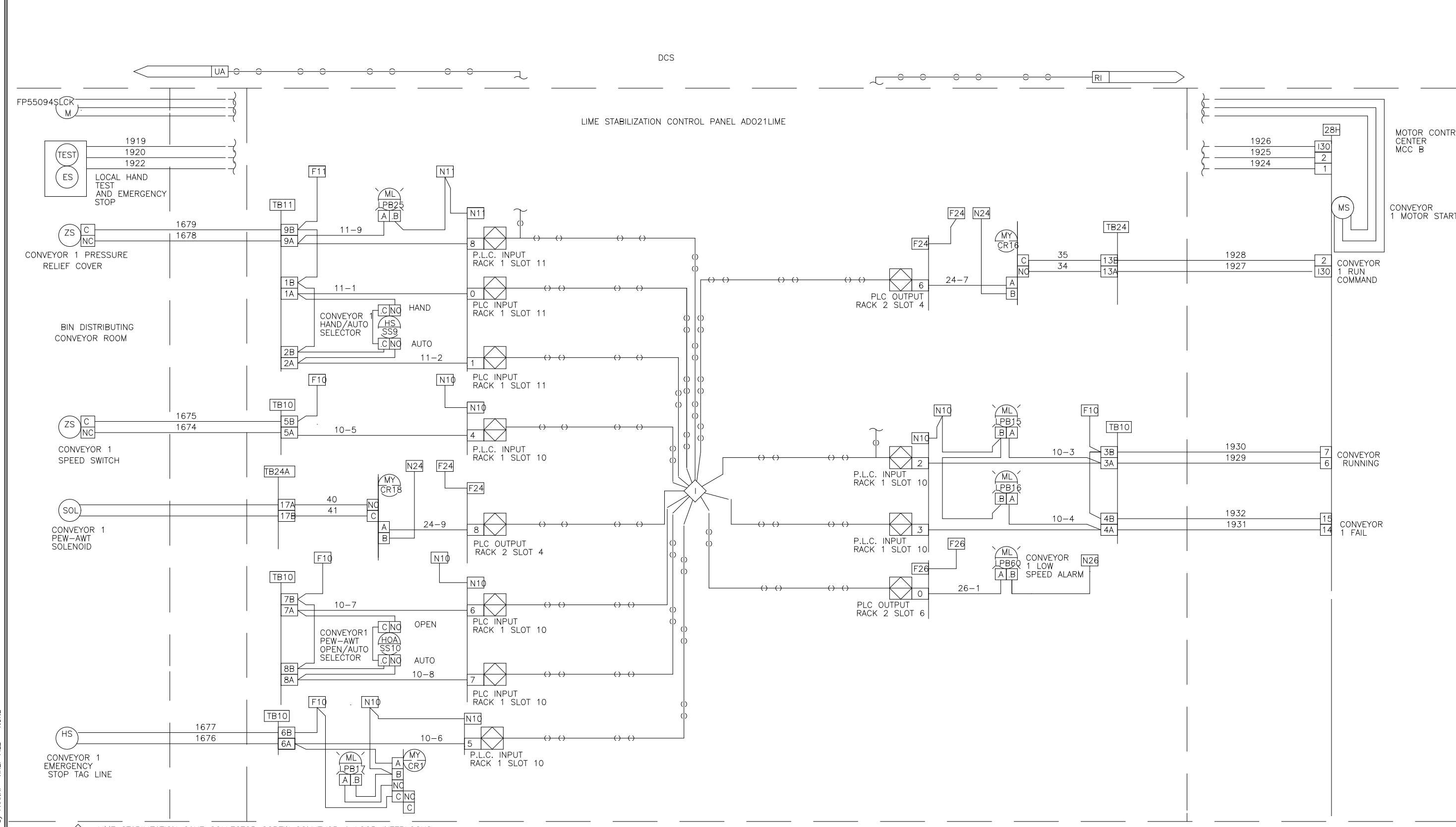
DES: BM 7/28/99
 DRW: BM 8/28/99
 CHK: SAK
 SCALE: 1"=100'

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U.S.A. FORMAT LOOP INTERLOCK DWG
 LIME STABILIZATION CONTROL PANEL
 ADO21LIME

FOR: DAVIS HEAVY CONSTRUCTION

REV LTR: DWG NO: 9542281



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DES: BM 7/28/99
 DRW: BM 8/28/99
 CHK: SAK
 SCALE: 1"=100'

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U.S.A. FORMAT LOOP INTERLOCK DWG
 LIME STABILIZATION CONTROL PANEL
 ADO21LIME

FOR: DAVIS HEAVY CONSTRUCTION

REV LTR: DWG NO: 9542282

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 DRW: BM 8/28/99
 CHK: SAK
 SCALE: 1"=100'

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U.S.A. FORMAT LOOP INTERLOCK DWG
 LIME STABILIZATION CONTROL PANEL
 ADO21LIME

FOR: DAVIS HEAVY CONSTRUCTION

REV LTR: DWG NO: 9542283

DESIGNED	MKS
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
NO.	ISSUED FOR
	DATE
	BY
	APPROVED

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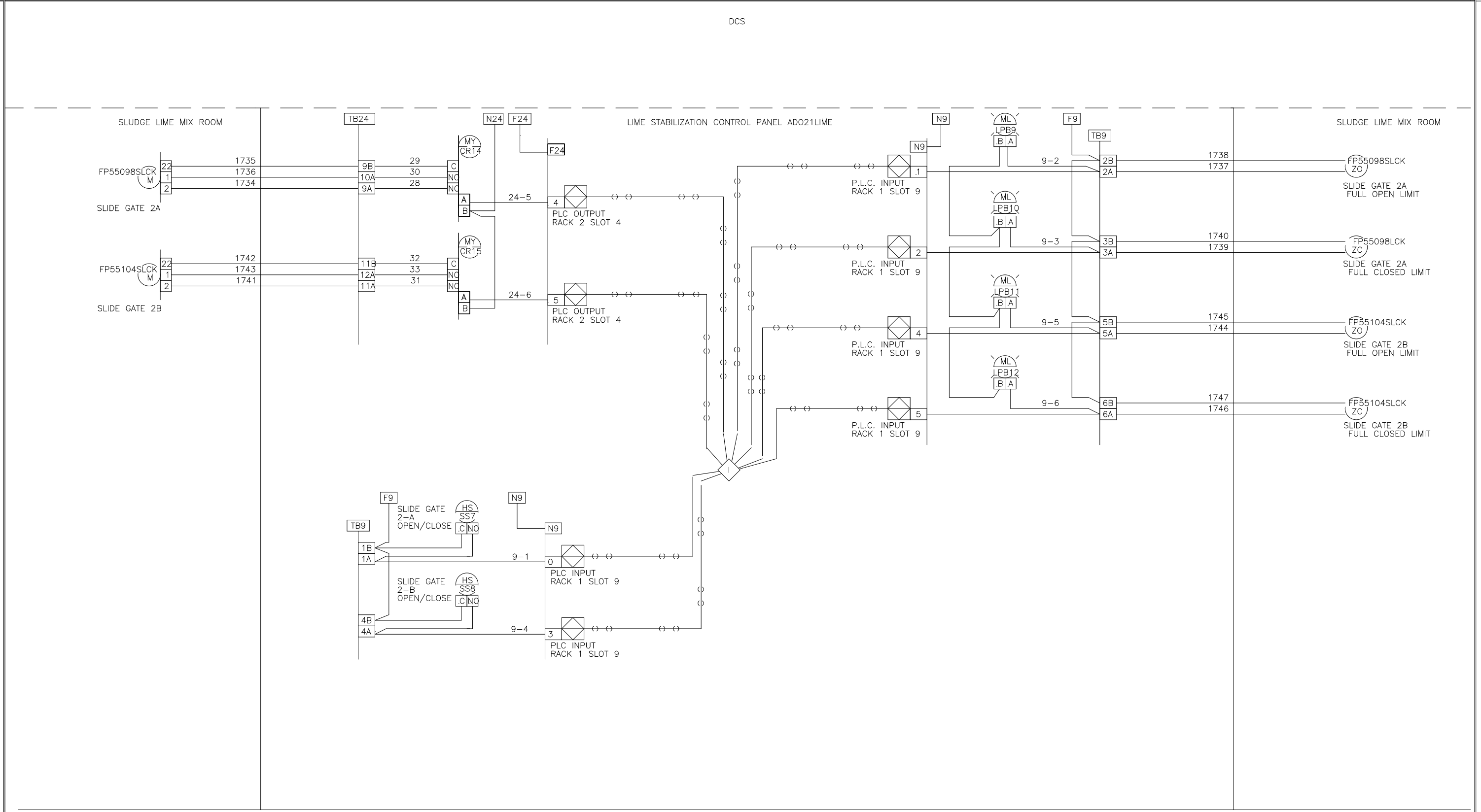
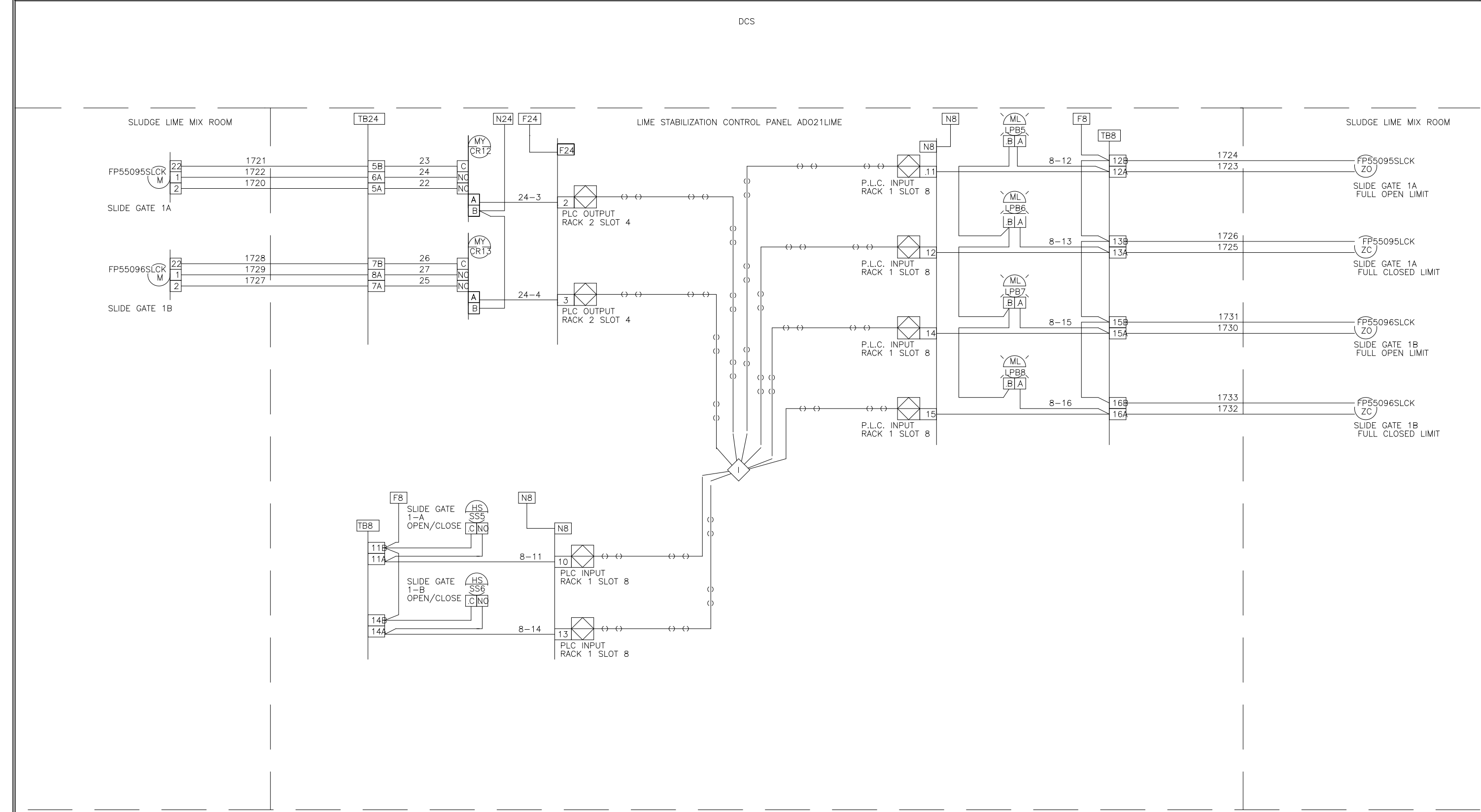
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 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
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GENERAL
 PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-18
SHEET	31R of 199

RECORD DRAWING



◇ CAKE COLLECTOR TO SLUDGE LIME MIXERS 1&2 SLIDE GATES

◇ CAKE COLLECTOR TO SLUDGE LIME MIXERS 3&4 SLIDE GATES

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DES: BM 7/28/11
 DRF: BM 8/1/11
 CHK: BM 8/1/11
 SCALE: U.S.A. FORMAT LOOP INTERLOCK DWG LIME STABILIZATION CONTROL PANEL ADO21LIME FOR: DANIS HEAVY CONSTRUCTION

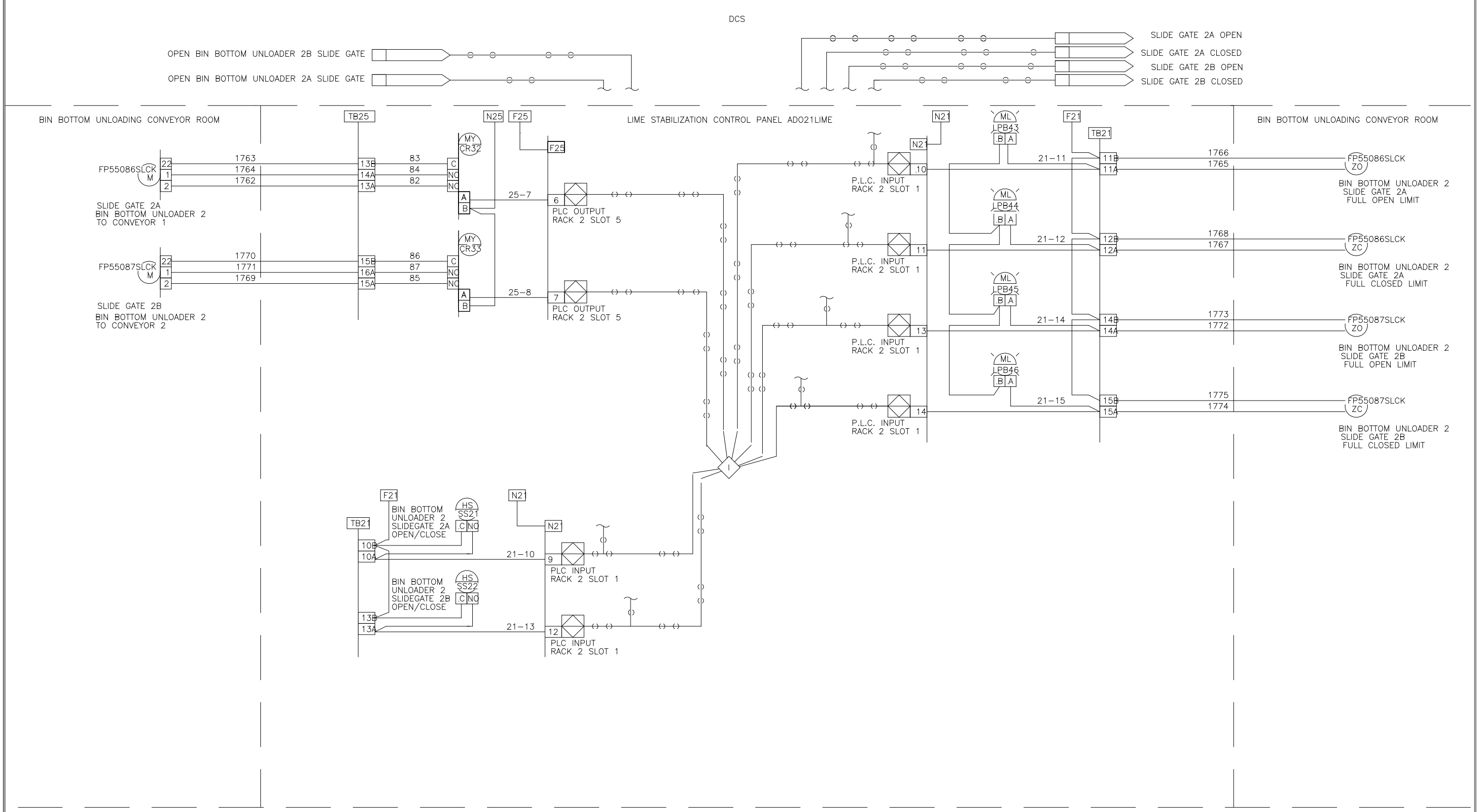
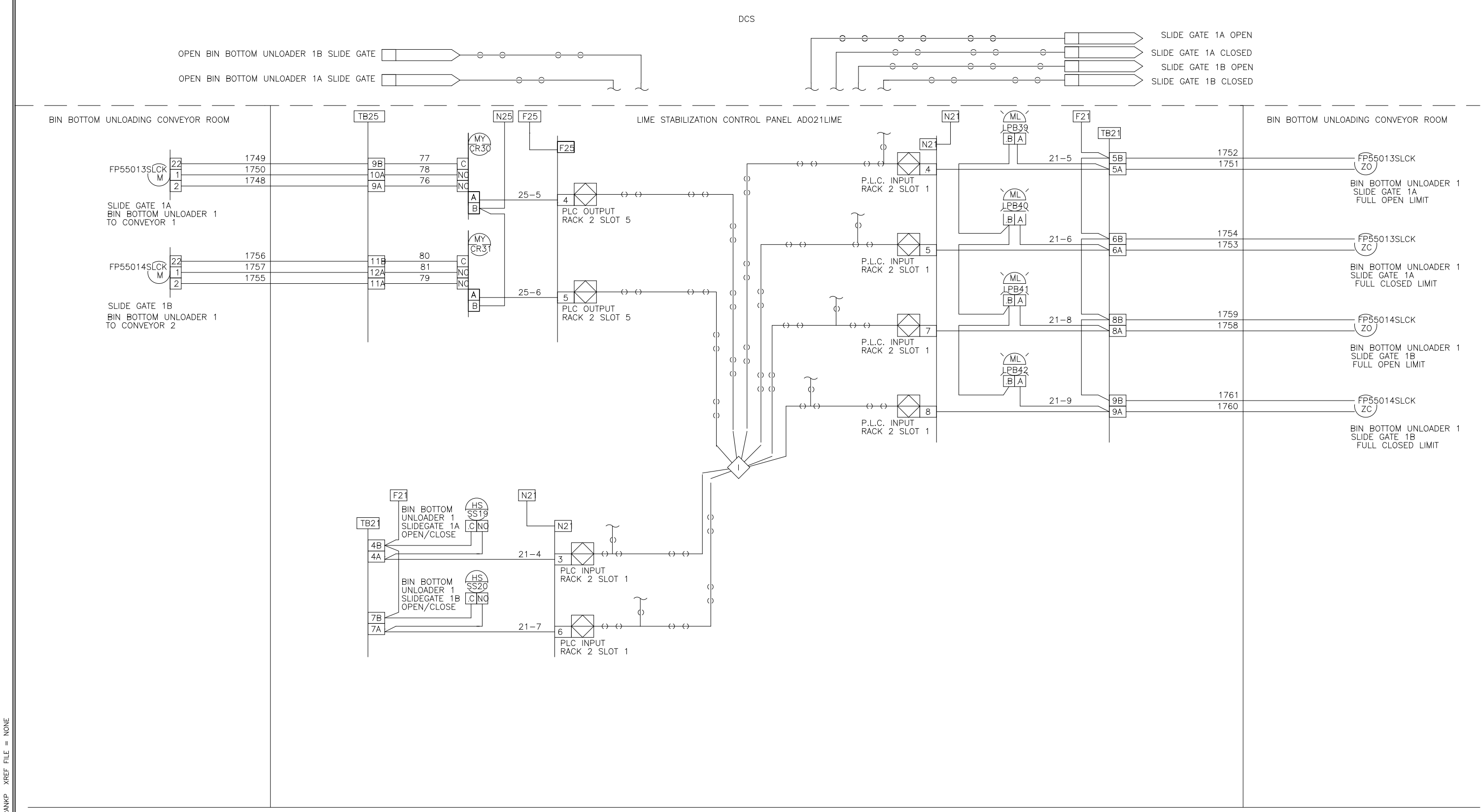
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DES: BM 7/28/11
 DRF: BM 8/1/11
 CHK: BM 8/1/11
 SCALE: U.S.A. FORMAT LOOP INTERLOCK DWG LIME STABILIZATION CONTROL PANEL ADO21LIME FOR: DANIS HEAVY CONSTRUCTION

REV LTR: 9542285



◇ BIN BOTTOM UNLOADER 1 SLIDE GATES

◇ BIN BOTTOM UNLOADER 2 SLIDE GATES

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DES: BM 7/28/11
 DRF: BM 8/1/11
 CHK: BM 8/1/11
 SCALE: U.S.A. FORMAT LOOP INTERLOCK DWG LIME STABILIZATION CONTROL PANEL ADO21LIME FOR: DANIS HEAVY CONSTRUCTION

REV LTR: 9542286

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DES: BM 7/28/11
 DRF: BM 8/1/11
 CHK: BM 8/1/11
 SCALE: U.S.A. FORMAT LOOP INTERLOCK DWG LIME STABILIZATION CONTROL PANEL ADO21LIME FOR: DANIS HEAVY CONSTRUCTION

REV LTR: 9542287

DESIGNED	MKS
DRAWN	
CHECKED	
PROJ.ENGR.	
APPROVED	

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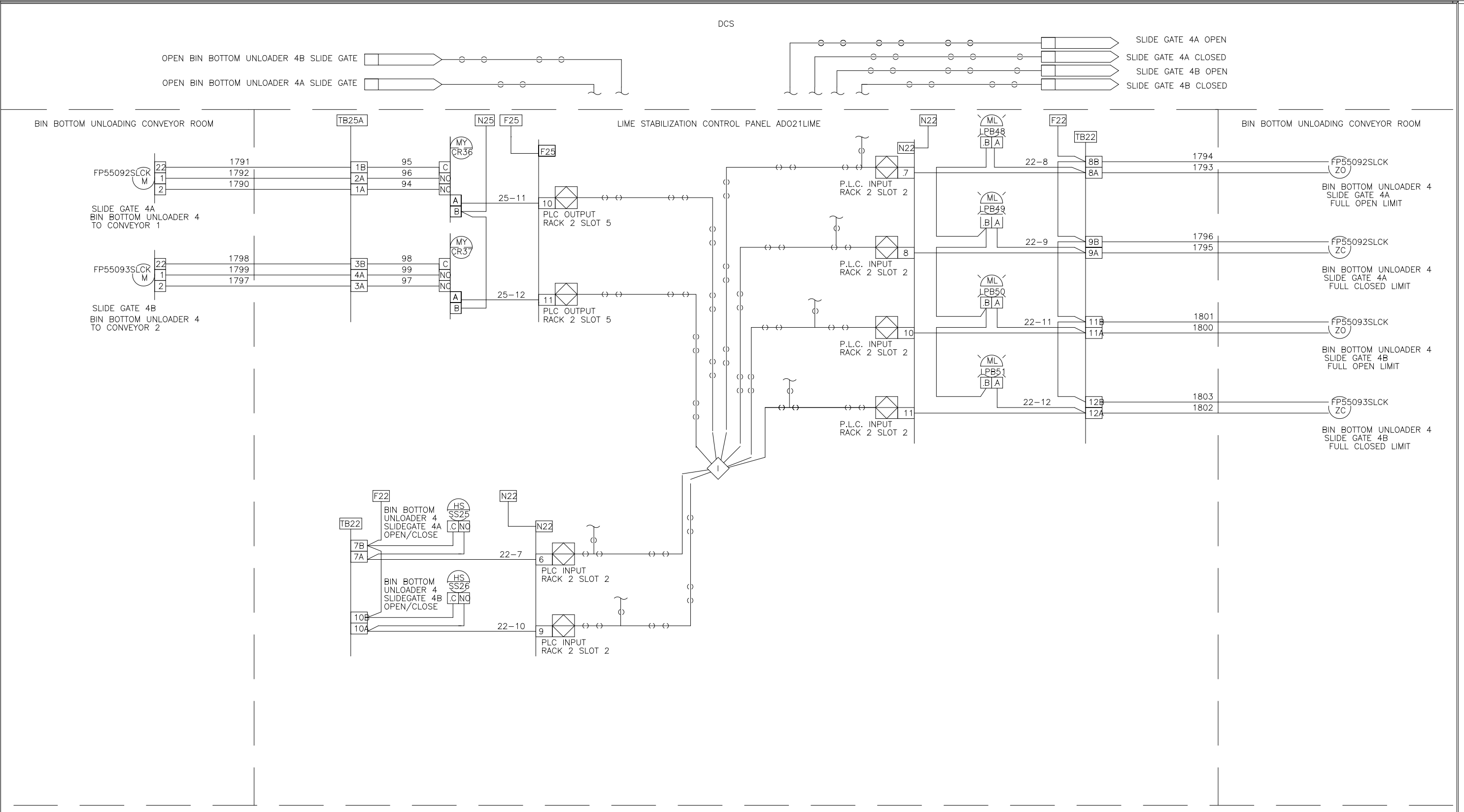
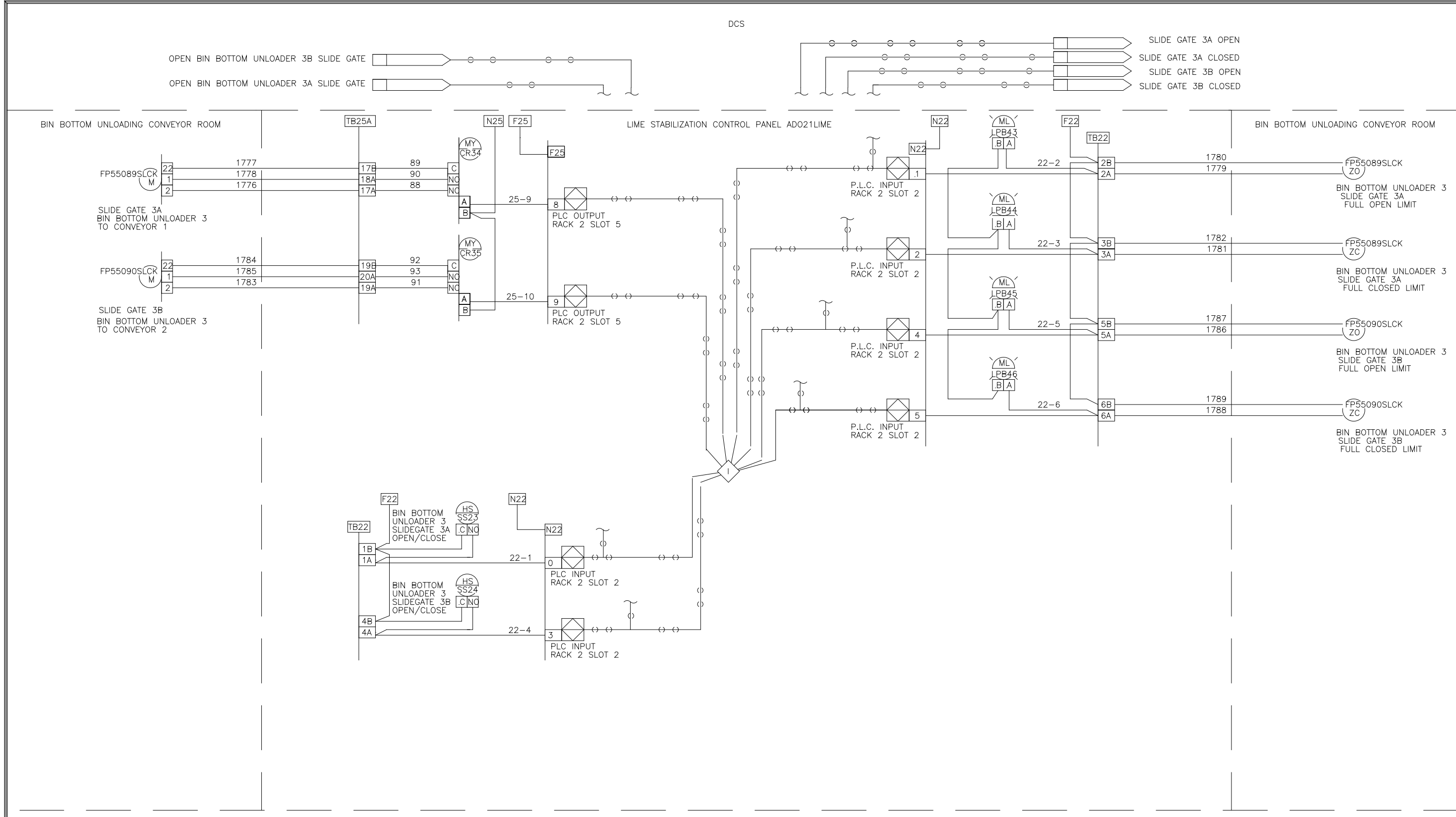
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 Environmental Engineers & Scientists
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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
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GENERAL
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DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-19
SHEET	31S OF 199

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DES: [blank] RM: [blank] SPS: 7/20/06
 DWF: [blank] BM: [blank] SAE: [blank]
 CHK: [blank] BM: [blank] SAE: [blank]
 SCALE: [blank]

SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

U.S.A. FORMAT LOOP INTERLOCK DWG
 LIME STABILIZATION CONTROL PANEL
ADO21LIME
 FOR: DANIS HEAVY CONSTRUCTION

REV LTR: [blank] DWG NO: 9542288

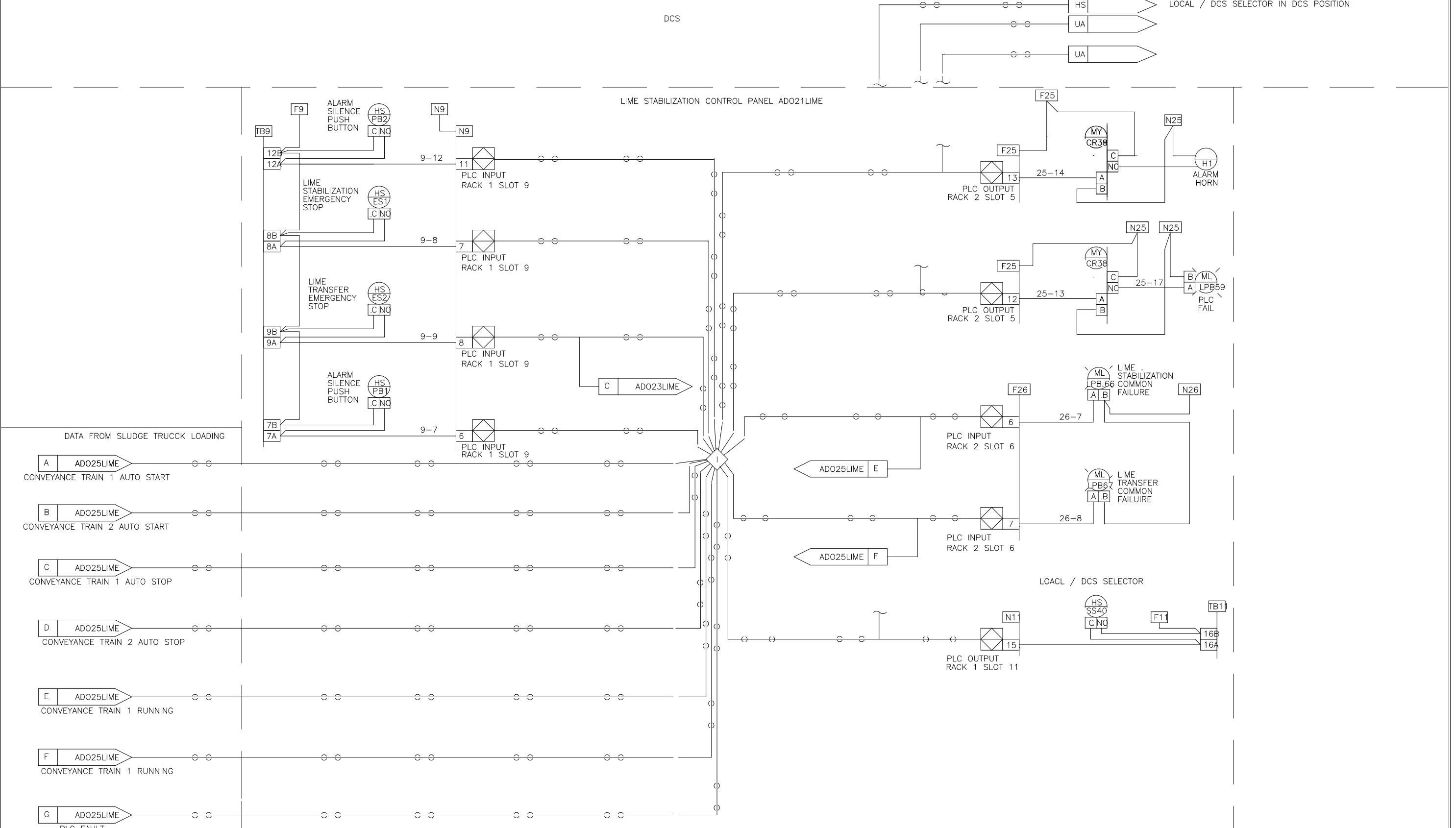
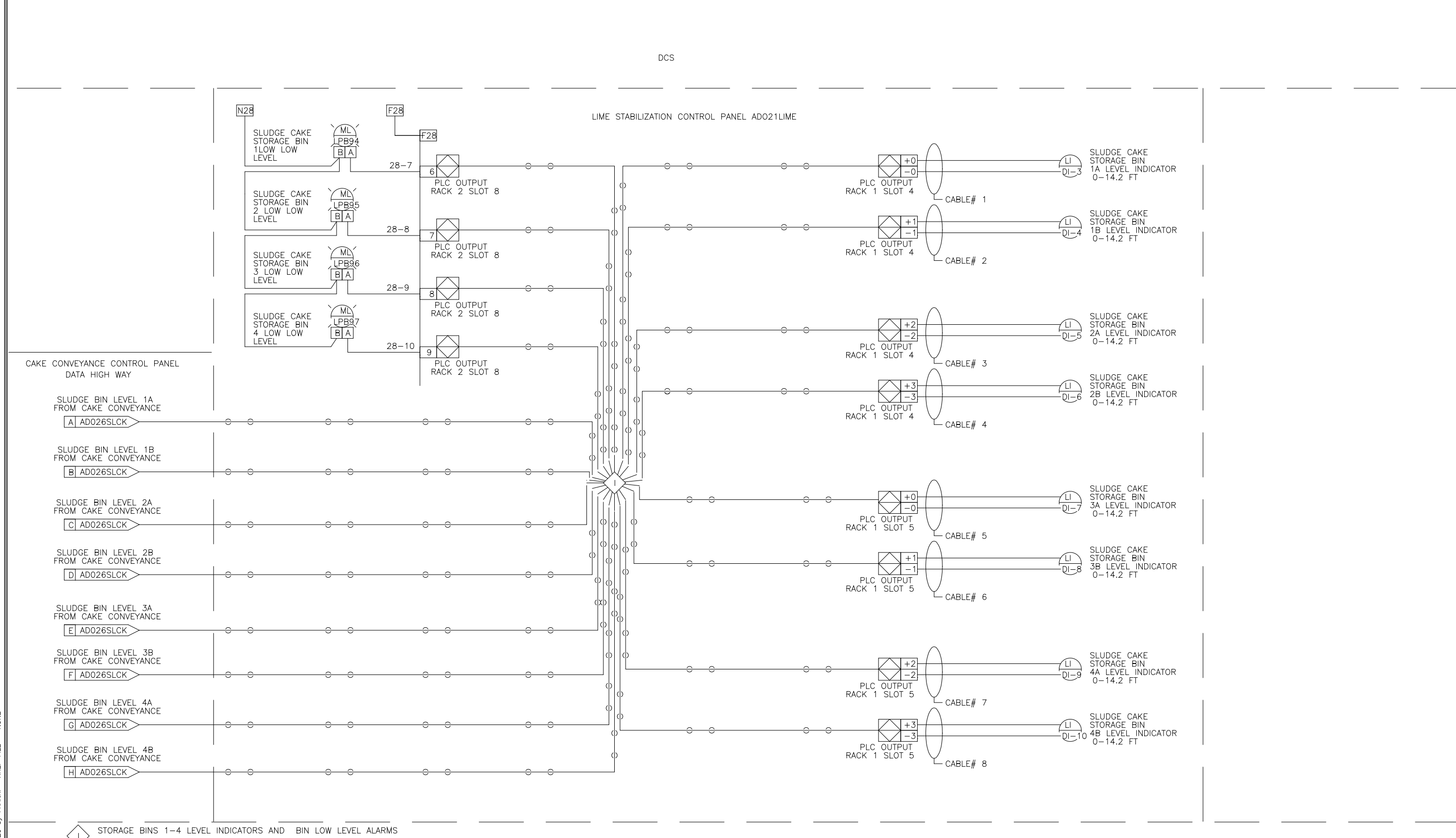
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DES: [blank] RM: [blank] SPS: 7/20/06
 DWF: [blank] BM: [blank] SAE: [blank]
 CHK: [blank] BM: [blank] SAE: [blank]
 SCALE: [blank]

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U.S.A. FORMAT LOOP INTERLOCK DWG
 LIME STABILIZATION CONTROL PANEL
ADO21LIME
 FOR: DANIS HEAVY CONSTRUCTION

REV LTR: [blank] DWG NO: 9542289



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DES: [blank] RM: [blank] SPS: 7/20/06
 DWF: [blank] BM: [blank] SAE: [blank]
 CHK: [blank] BM: [blank] SAE: [blank]
 SCALE: [blank]

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U.S.A. FORMAT LOOP INTERLOCK DWG
 LIME STABILIZATION CONTROL PANEL
ADO21SLCK
 FOR: DANIS HEAVY CONSTRUCTION

REV LTR: [blank] DWG NO: 9542290

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DES: [blank] RM: [blank] SPS: 7/20/06
 DWF: [blank] BM: [blank] SAE: [blank]
 CHK: [blank] BM: [blank] SAE: [blank]
 SCALE: [blank]

SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

U.S.A. FORMAT LOOP INTERLOCK DWG
 LIME STABILIZATION CONTROL PANEL
ADO21LIME
 FOR: DANIS HEAVY CONSTRUCTION

REV LTR: [blank] DWG NO: 9542291

DESIGNED	MKS
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
APPROVED	

THIS DRAWING HAS BEEN COMPILED BY
HAZEN AND SAWYER, P.C.

HAZEN AND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

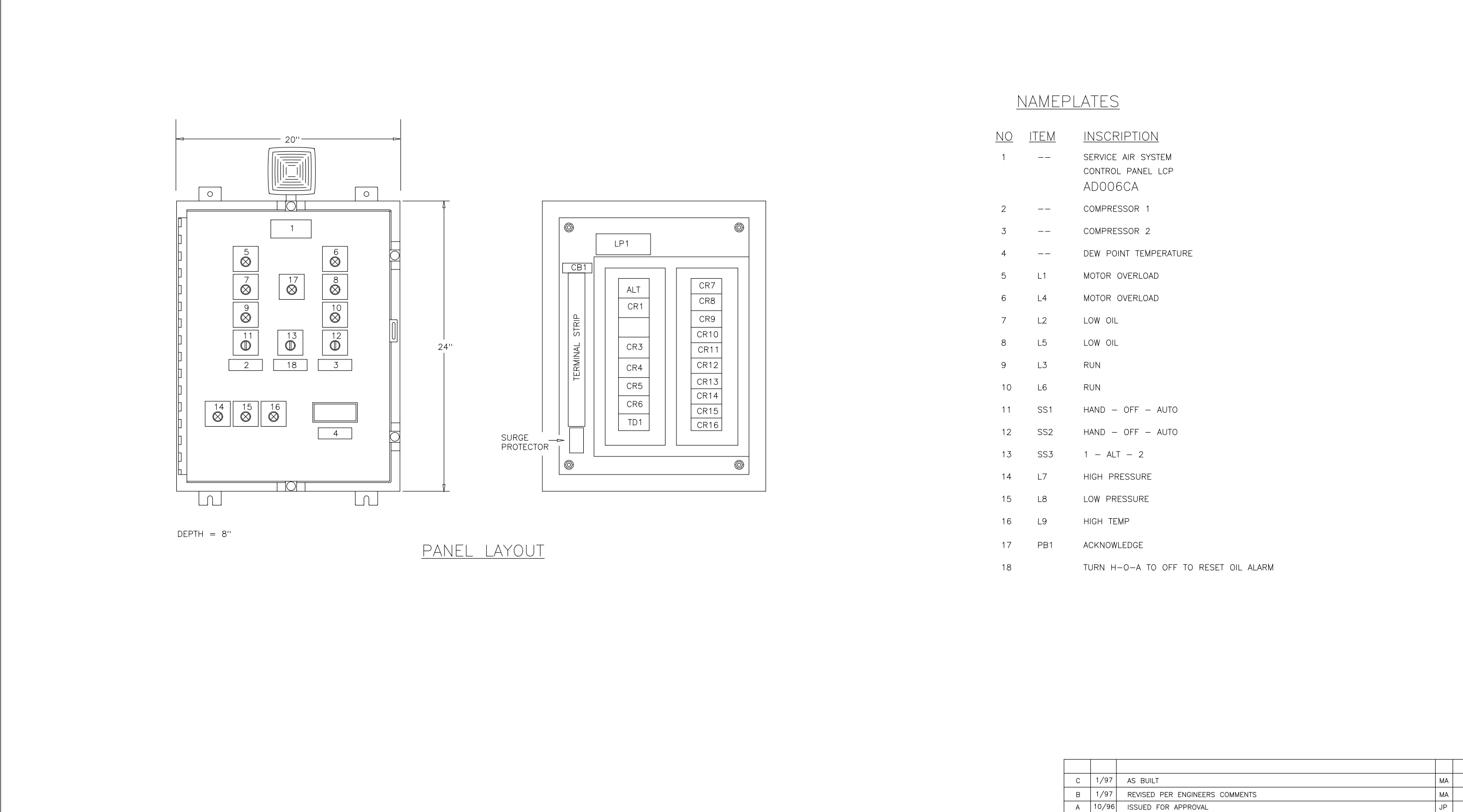
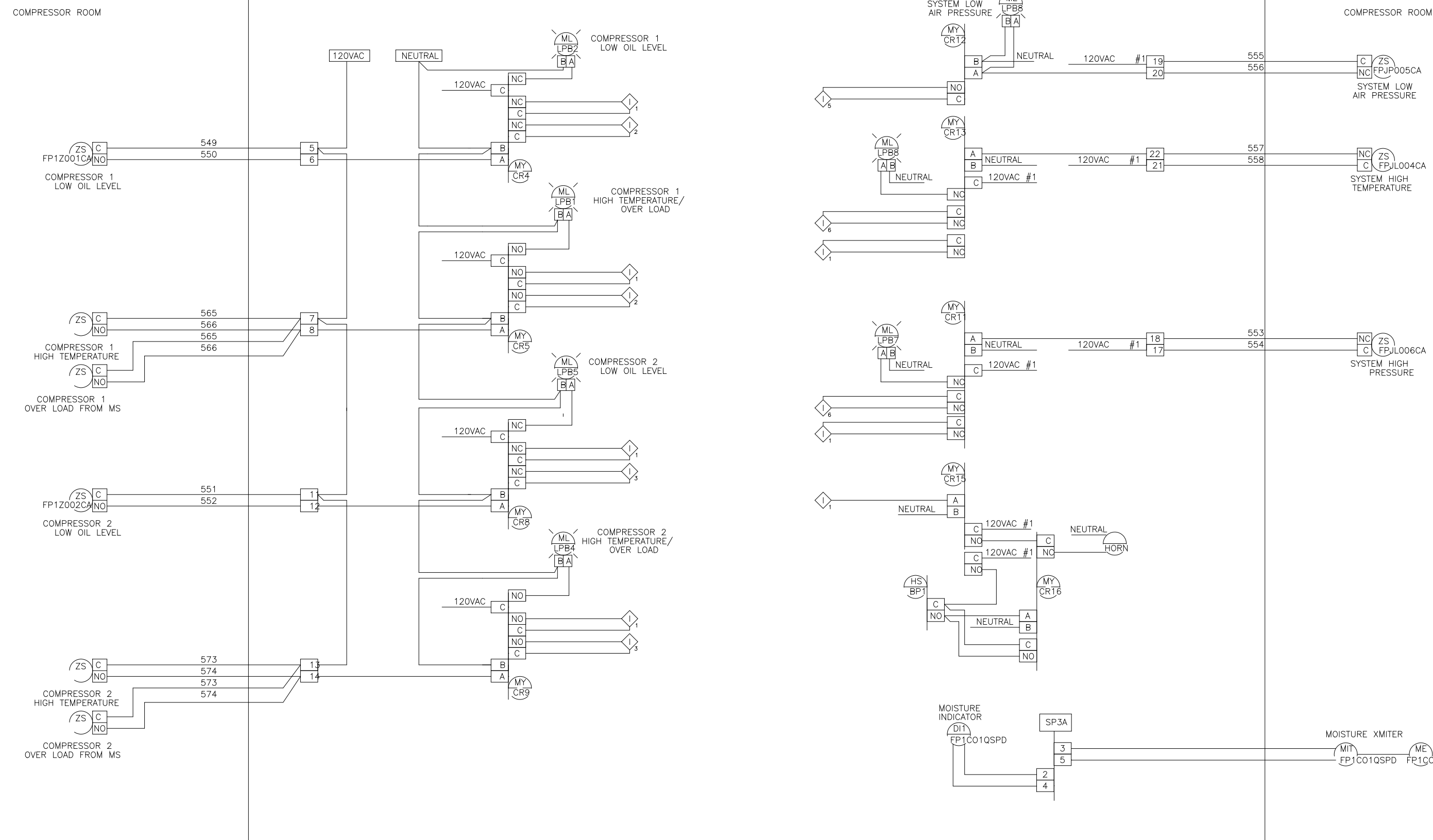
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION

DATE: JULY 99
 H & S JOB NUMBER: 2843
 CONTRACT NUMBER: 93-02-WPC
 DRAWING NUMBER: IP-20
 SHEET 31T of 199

RECORD DRAWING

SERVICE AIR CONTROL PANEL ADO06CA



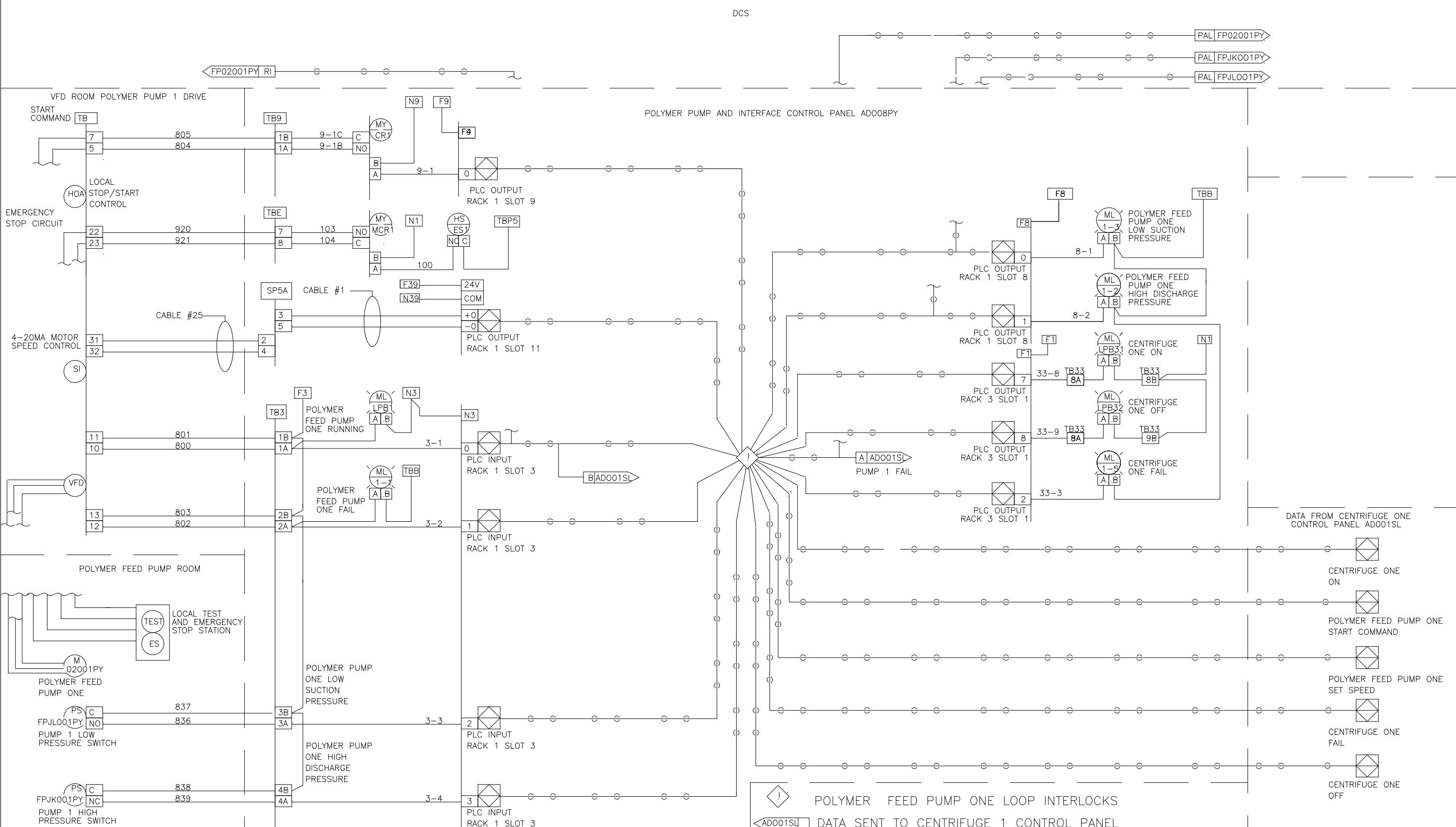
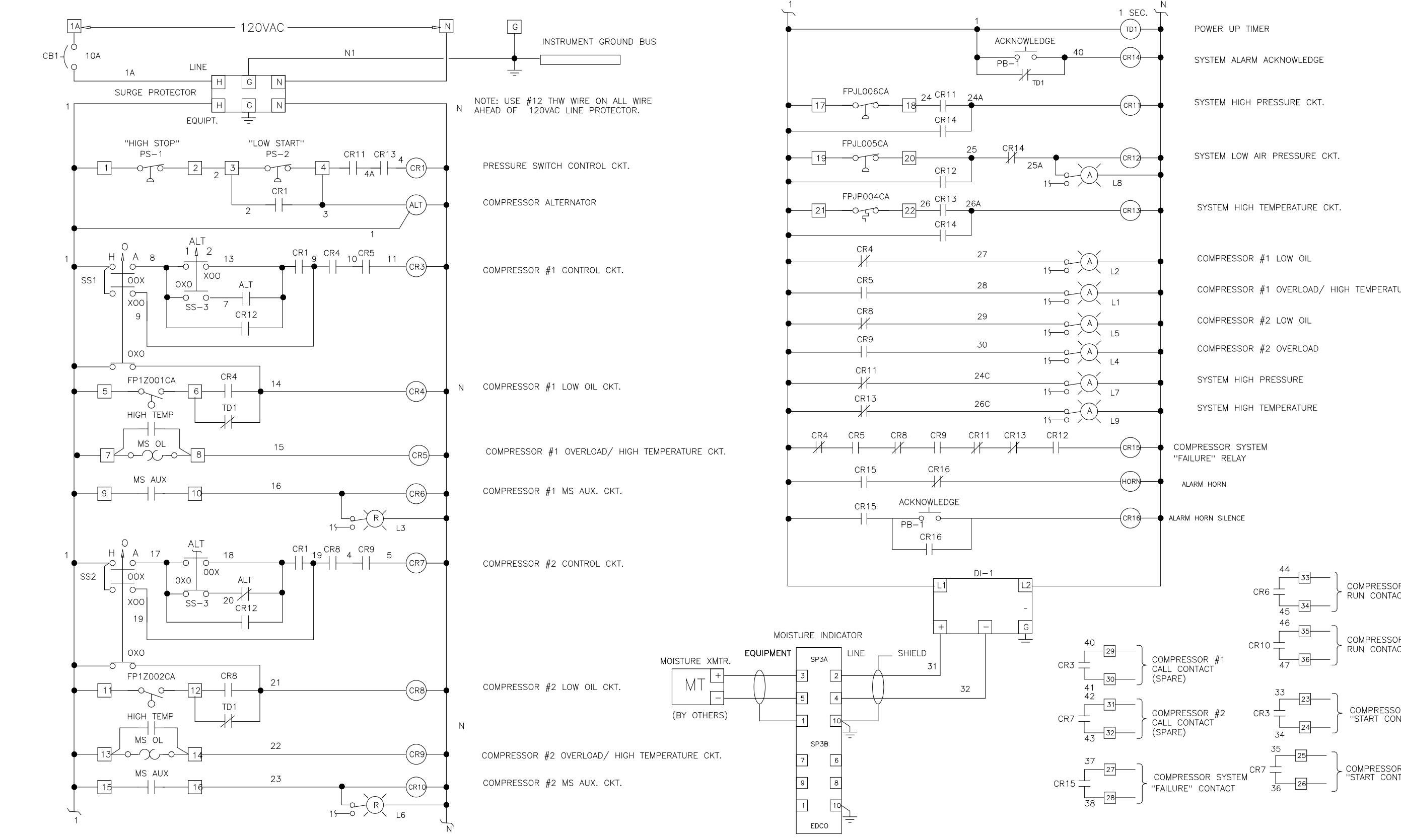
NAMEPLATES

NO	ITEM	INSCRIPTION
1	---	SERVICE AIR SYSTEM CONTROL PANEL LCP ADO06CA
2	---	COMPRESSOR 1
3	---	COMPRESSOR 2
4	---	DEW POINT TEMPERATURE
5	L1	MOTOR OVERLOAD
6	L4	MOTOR OVERLOAD
7	L2	LOW OIL
8	L5	LOW OIL
9	L3	RUN
10	L6	RUN
11	SS1	HAND - OFF - AUTO
12	SS2	HAND - OFF - AUTO
13	SS3	1 - ALT - 2
14	L7	HIGH PRESSURE
15	L8	LOW PRESSURE
16	L9	HIGH TEMP
17	PB1	ACKNOWLEDGE
18		TURN H-O-A TO OFF TO RESET OIL ALARM

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DES: MA SRE U.S.A. FORMAT LOOP INTERLOCK DWG
 DRW: MA SRE SERVICE AIR CONTROL PANEL LCP
 CHK: MA SRE ARLINGTON COUNTY, VA
 SCALE: FOR: DANIS HEAVY CONSTRUCTION

REV LTR: C
 DWG NO: 954231



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DES: MA SRE U.S.A. FORMAT LOOP INTERLOCK DWG
 DRW: MA SRE POLYMER PUMP AND INTERFACE CONTROL PANEL
 CHK: MA SRE ARLINGTON COUNTY, VA
 SCALE: FOR: DANIS HEAVY CONSTRUCTION

REV LTR: C
 DWG NO: 954231

NO.	ISSUED FOR	DATE	BY	APPROVED

DESIGNED: _____
 DRAWN: MKS
 CHECKED: _____
 PROJ. ENGR: _____

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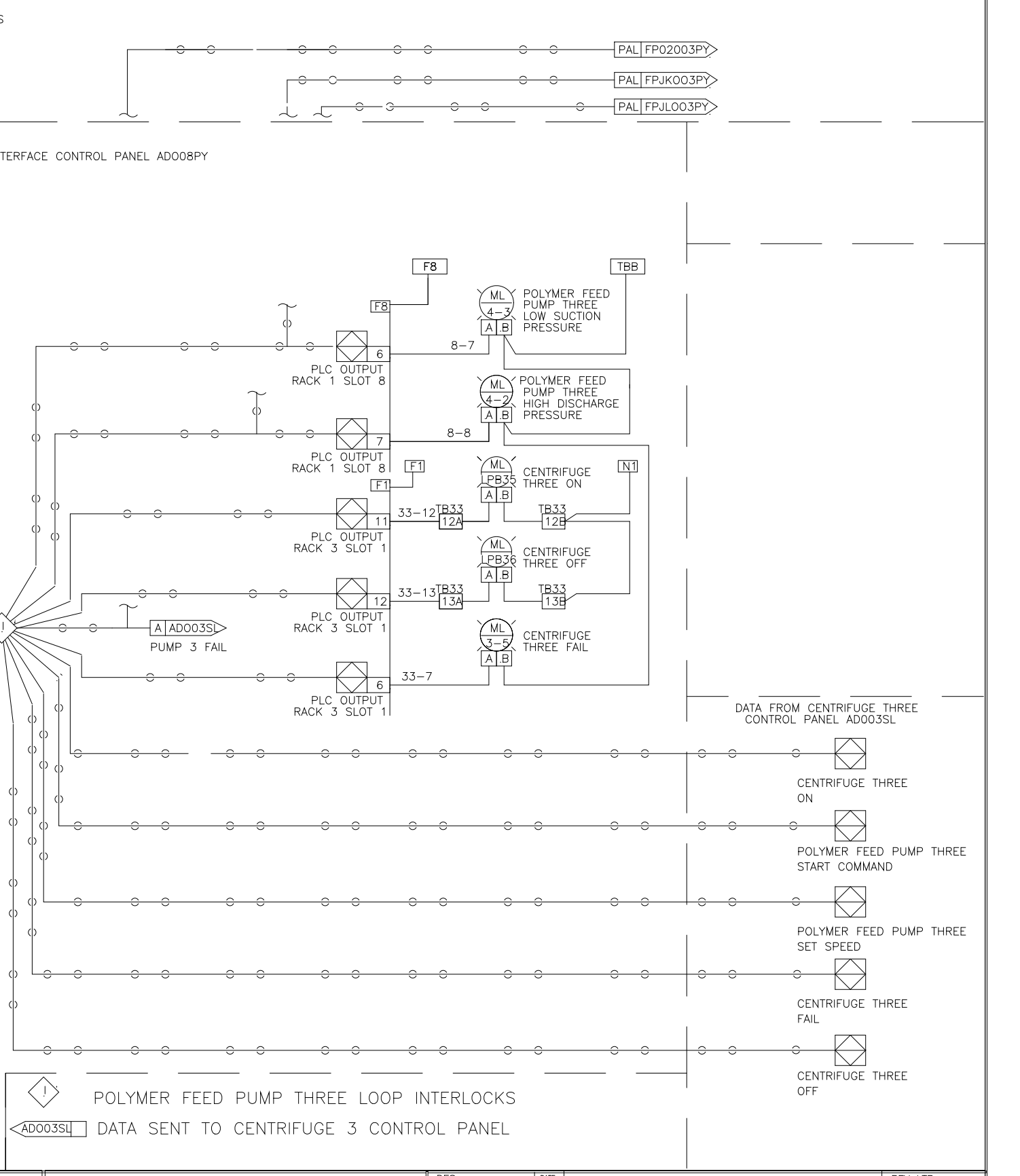
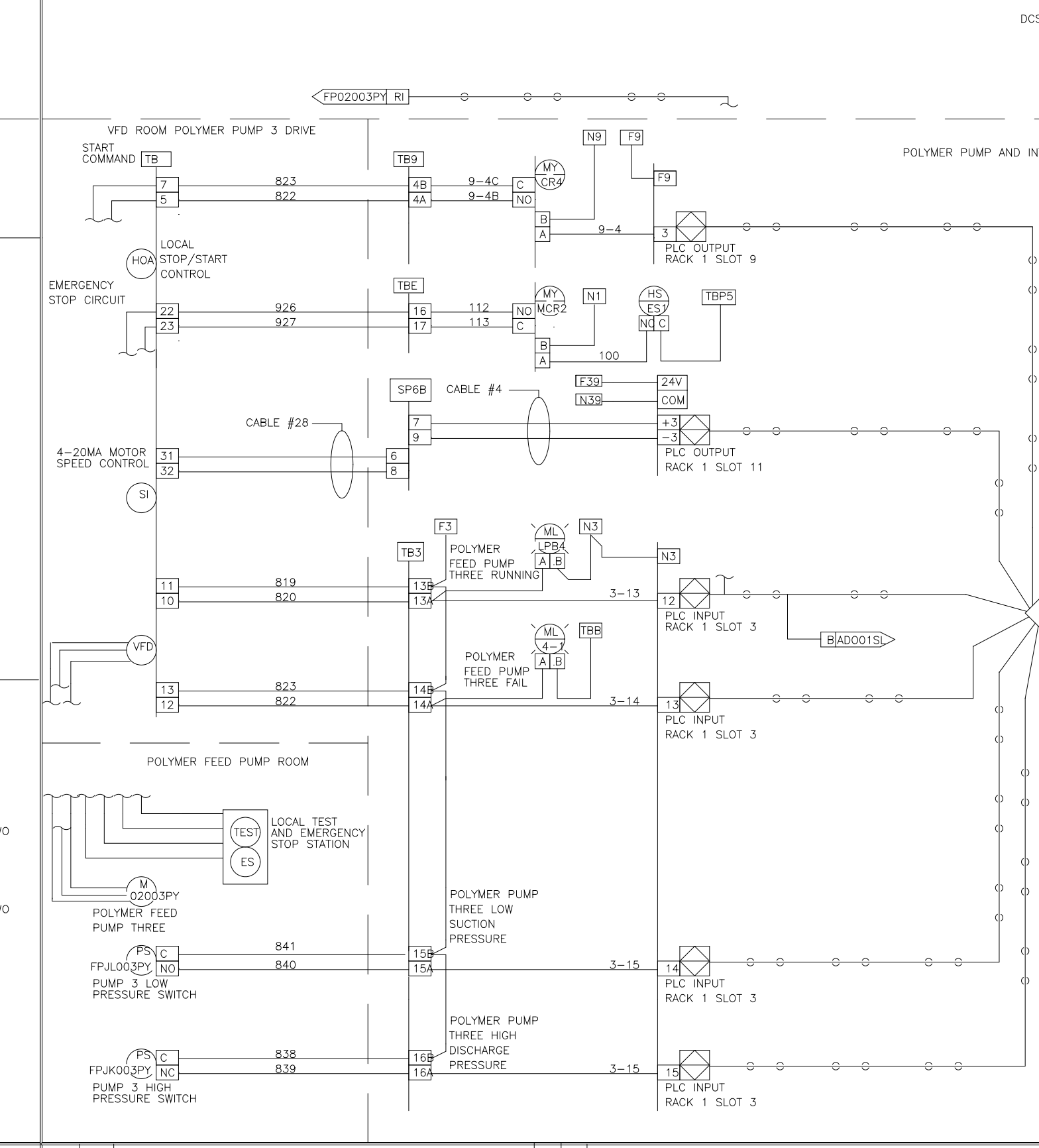
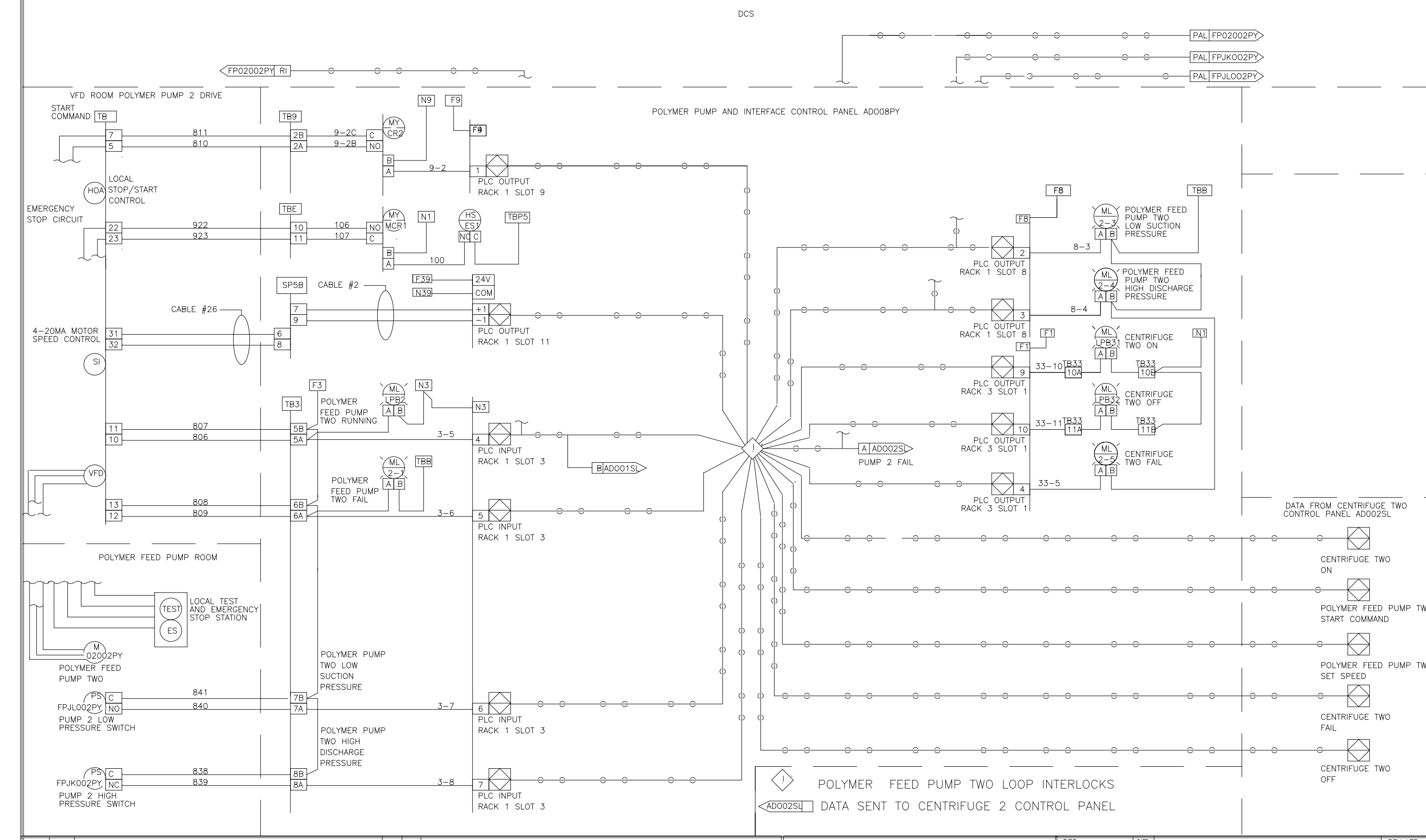
HAZEN AND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-21
SHEET	31U OF 199

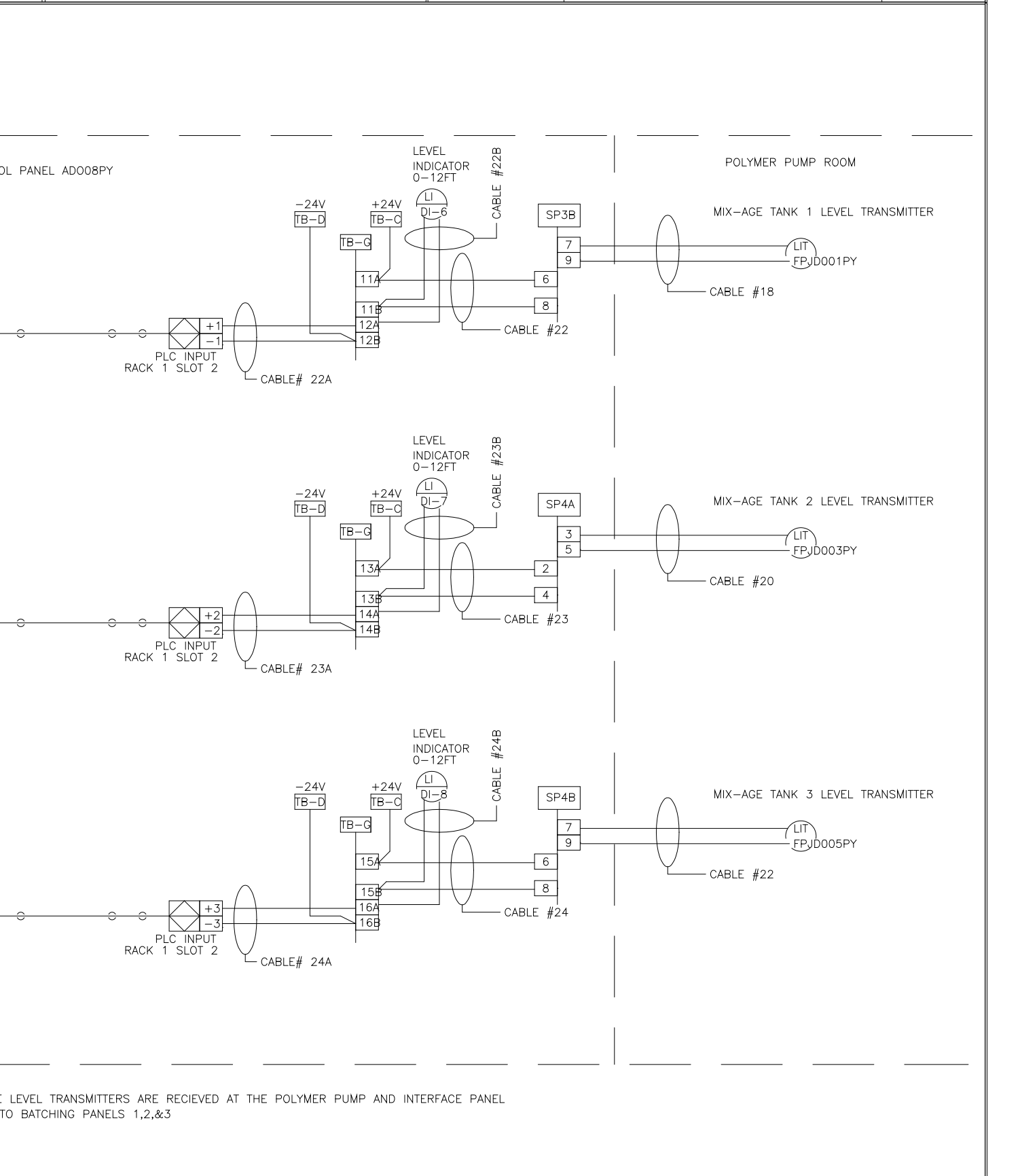
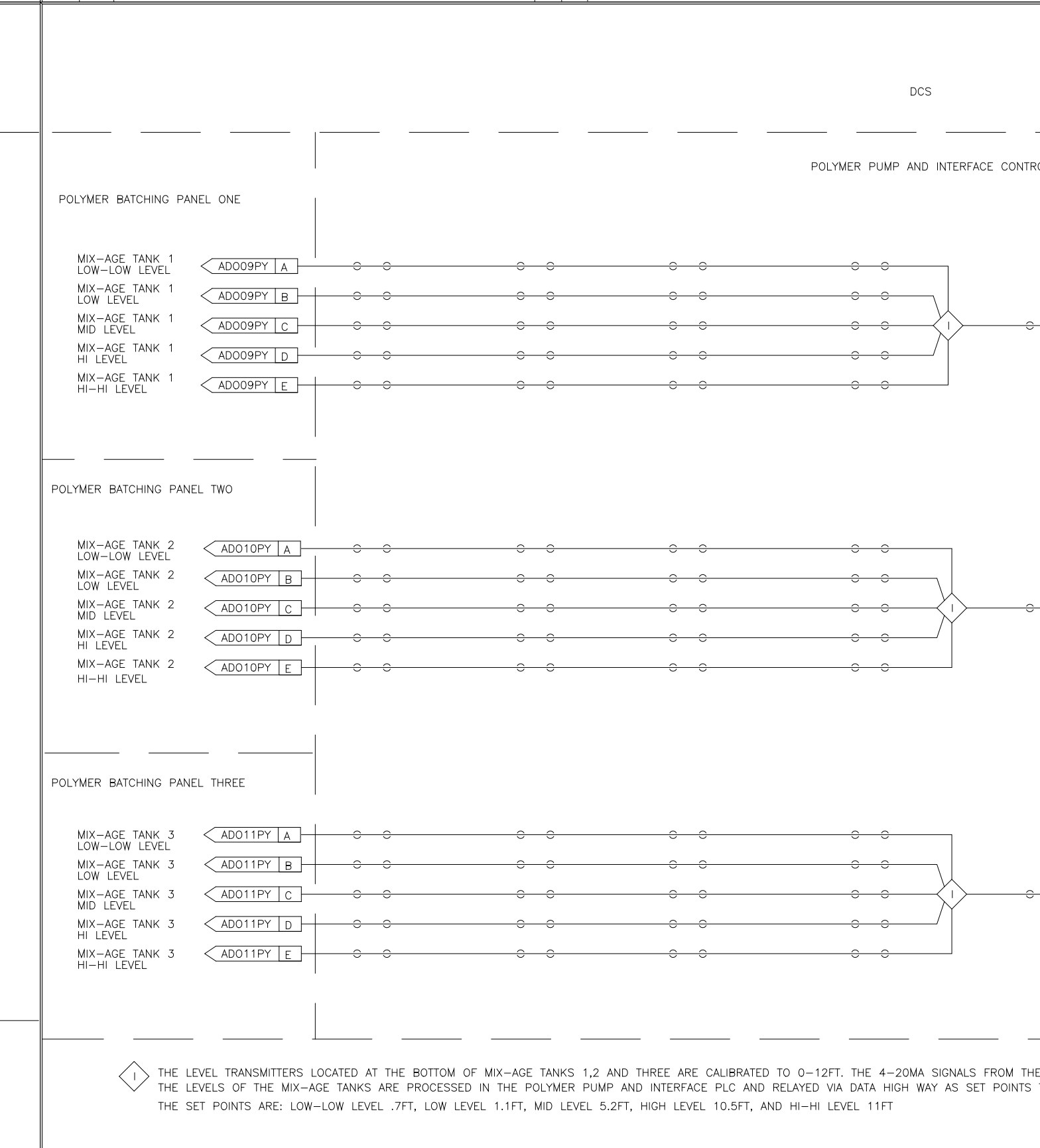
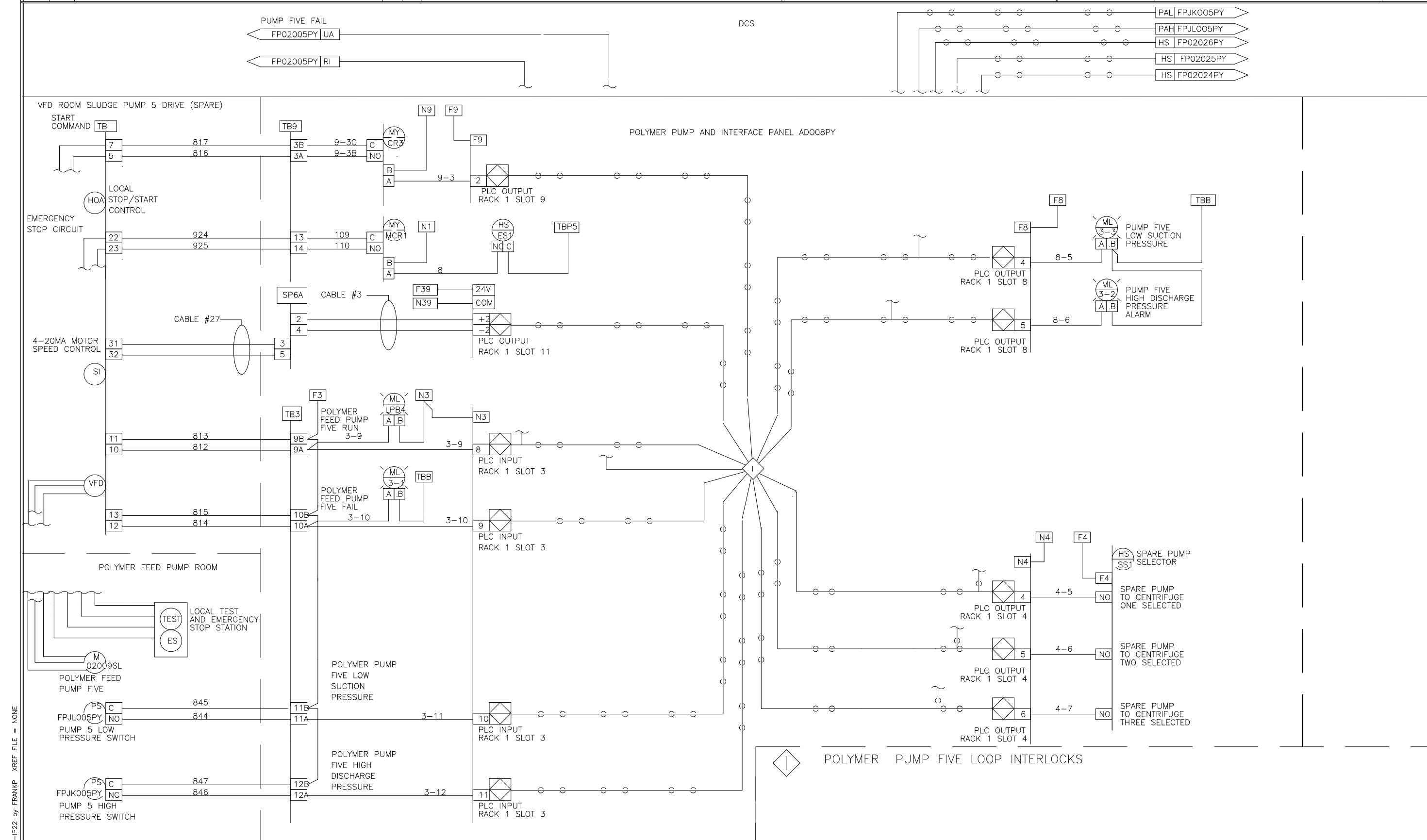
RECORD DRAWING



DES	BM	DRF	CHK	SCALE	U.S.A. FORMAT LOOP INTERLOCK DWG	POLYMER PUMP AND INTERFACE CONTROL PANEL	ADO08PY	REV	LTR
								9542311	

DES	BM	DRF	CHK	SCALE	U.S.A. FORMAT LOOP INTERLOCK DWG	POLYMER PUMP AND INTERFACE CONTROL PANEL	ADO08PY	REV	LTR
								9542312	

DES	BM	DRF	CHK	SCALE	U.S.A. FORMAT LOOP INTERLOCK DWG	POLYMER PUMP AND INTERFACE CONTROL PANEL	ADO08PY	REV	LTR
								9542313	



DES	BM	DRF	CHK	SCALE	U.S.A. FORMAT LOOP INTERLOCK DWG	POLYMER PUMP AND INTERFACE CONTROL PANEL	ADO08PY	REV	LTR
								9542213	

DES	BM	DRF	CHK	SCALE	U.S.A. FORMAT LOOP INTERLOCK DWG	POLYMER PUMP AND INTERFACE CONTROL PANEL	ADO08PY	REV	LTR
								9542314	

DES	BM	DRF	CHK	SCALE	U.S.A. FORMAT LOOP INTERLOCK DWG	POLYMER PUMP AND INTERFACE CONTROL PANEL	ADO08PY	REV	LTR
								9542314	

DESIGNED	MKS			
DRAWN				
CHECKED				
PROJ. ENGR.				
NO.	ISSUED FOR	DATE	BY	APPROVED

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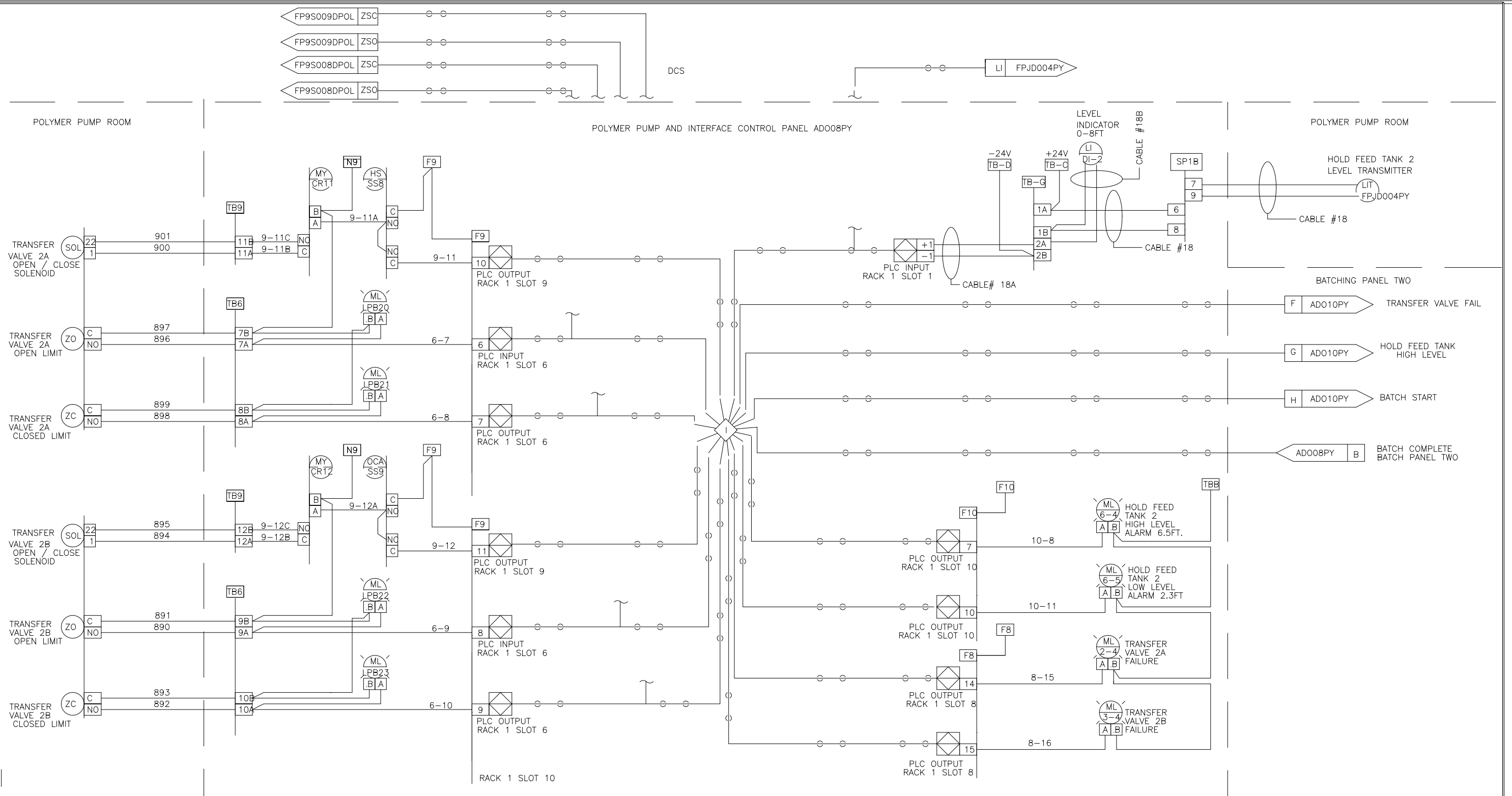
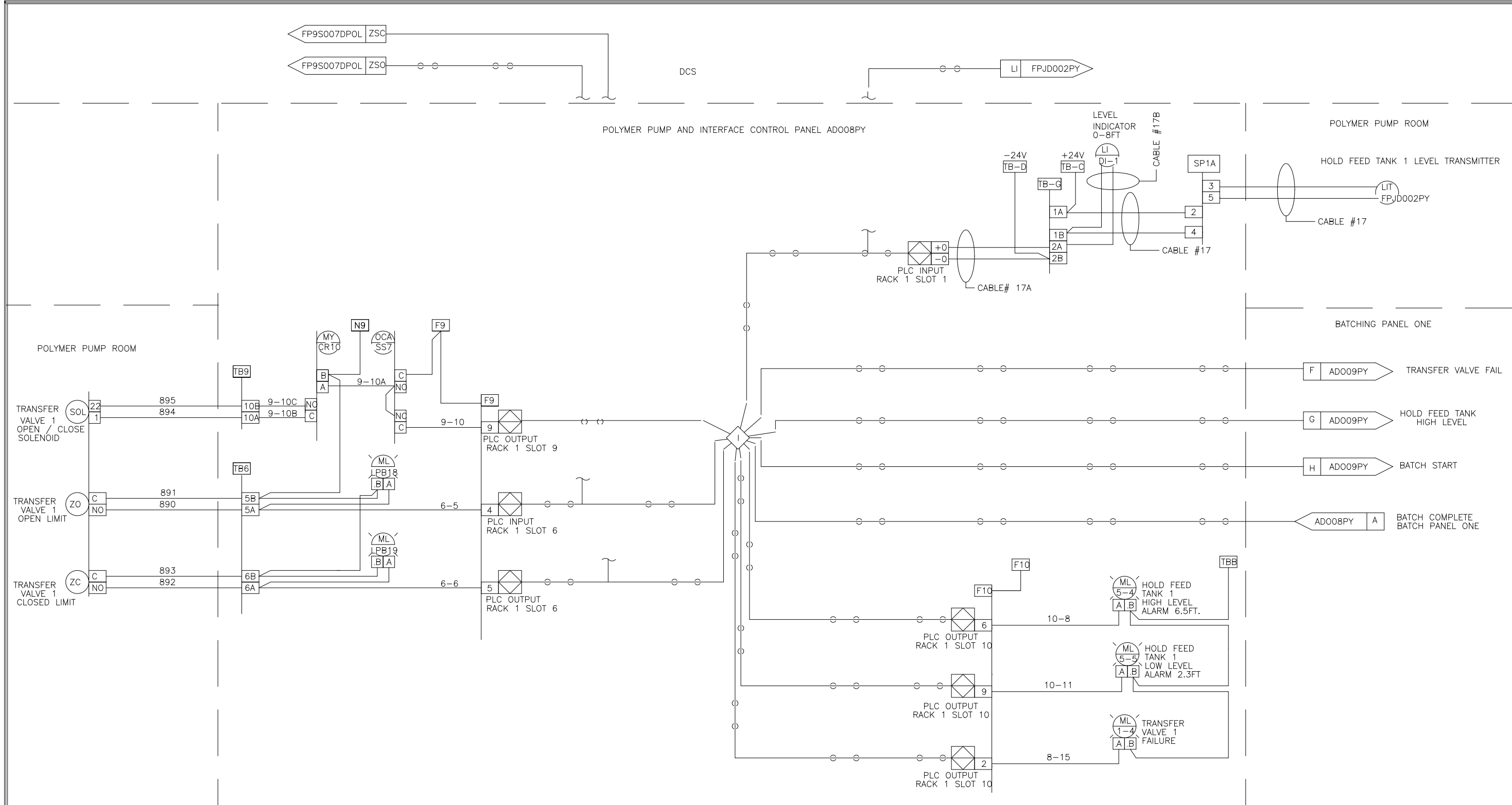
HAZEN AND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-22
SHEET	31V OF 199

RECORD DRAWING

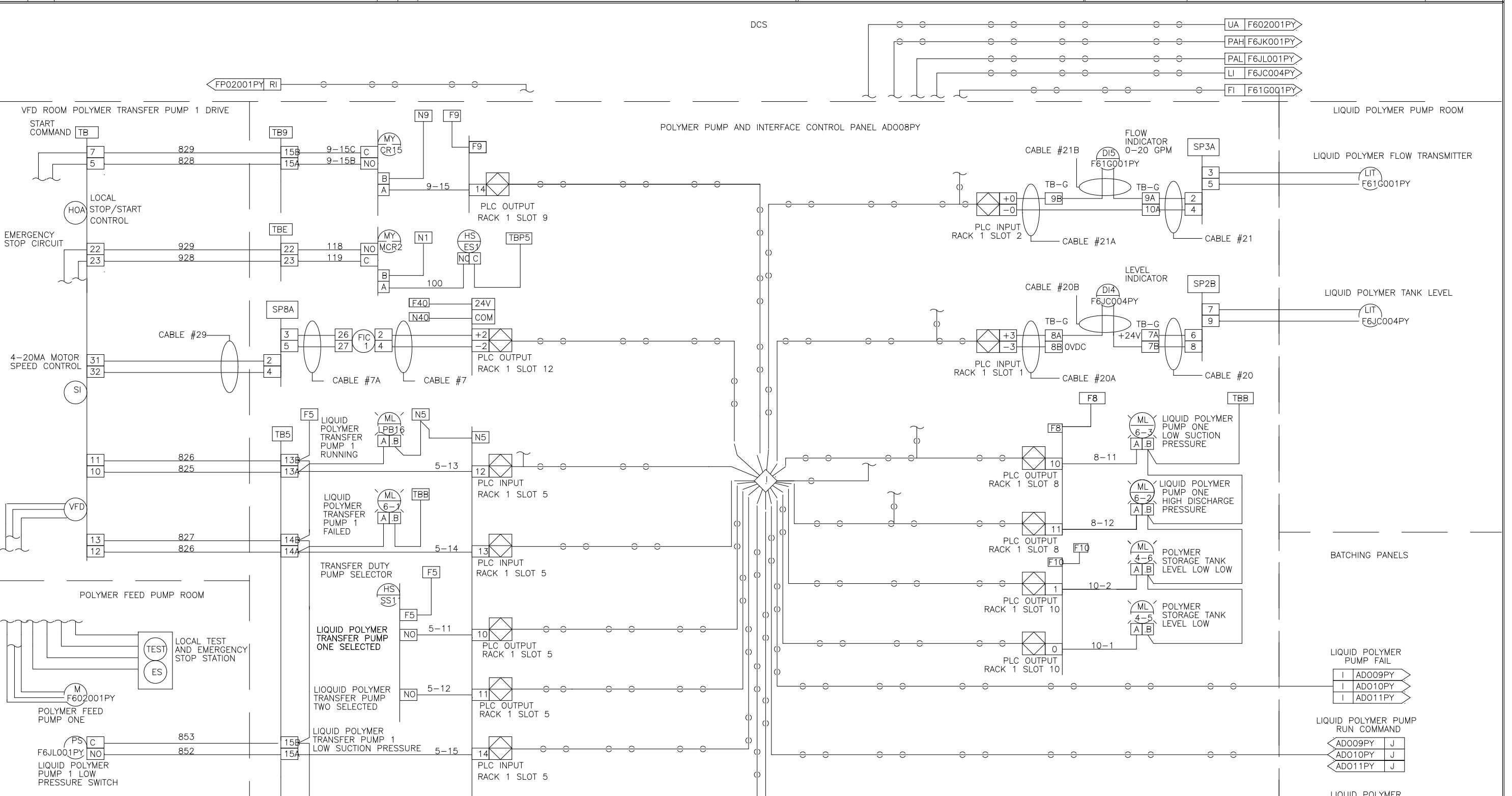
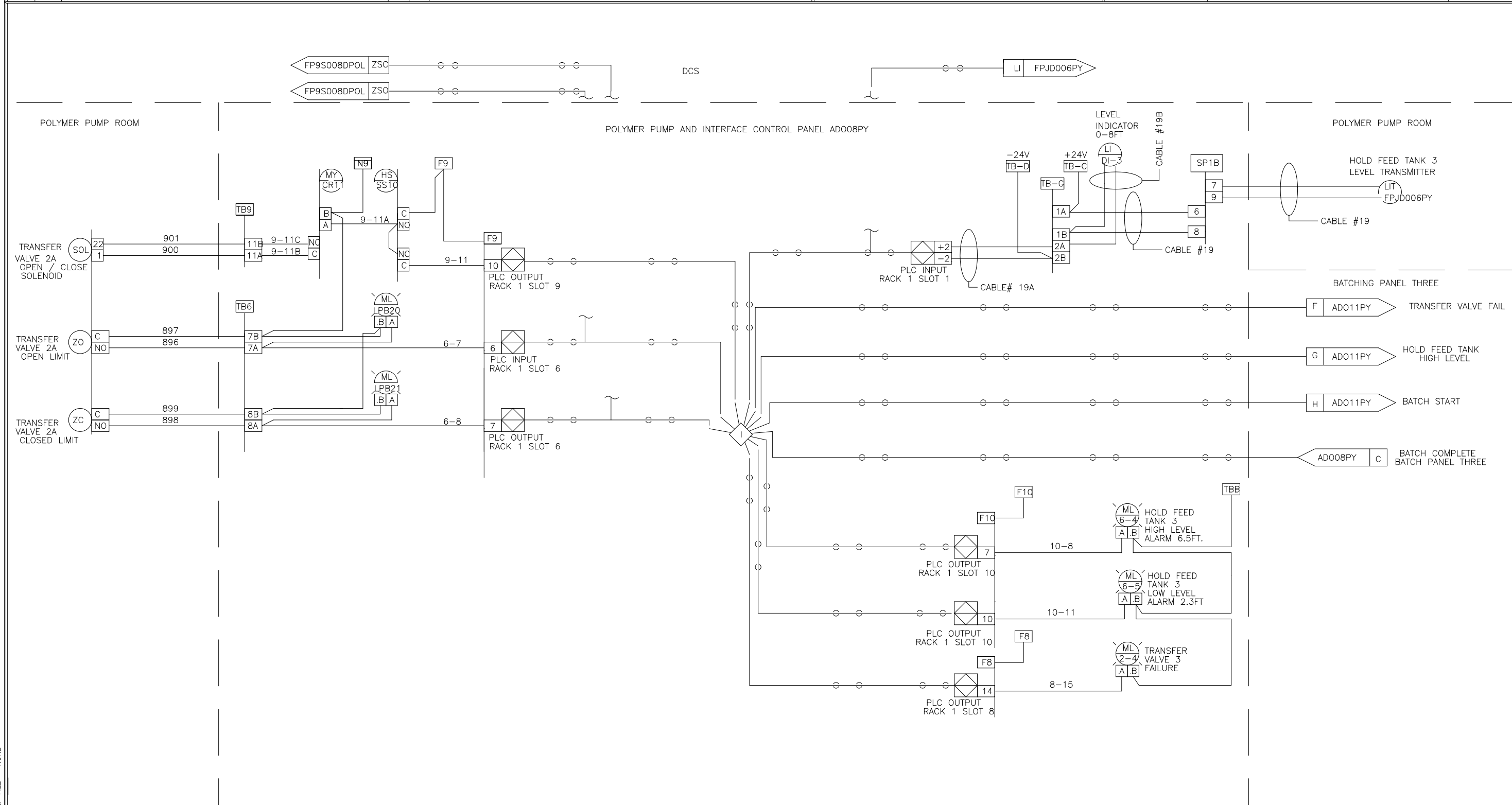


THE LEVEL TRANSMITTER LOCATED AT THE TOP OF HOLD FEED TANK 1 IS CALIBRATED TO 0-8FT. THE 4-20MA SIGNAL FROM THE LEVEL TRANSMITTER IS RECEIVED AT THE POLYMER PUMP AND INTERFACE PANEL. THE LEVEL OF THE HOLD FEED TANK DETERMINES WHEN A BATCH WILL BE STARTED AND WHEN THE COMPLETED BATCH WILL BE TRANSFERRED TO HOLD FEED TANK 1. THE POLYMER PUMP AND INTERFACE PANEL WILL ISSUE THE START COMMAND TO BATCH PANEL ONE WHEN: THE HOLD FEED TANK LEVEL FALLS TO LESS THAN 4.2FT WITH ONE POLYMER PUMP RUNNING. THE HOLD FEED TANK LEVEL FALLS TO LESS THAN 4.5FT WITH TWO POLYMER PUMPS RUNNING. THE POLYMER PUMP AND INTERFACE PANEL PLC WILL OPEN TRANSFER VALVE 1 WHEN: THE HOLD FEED TANK LEVEL IS LESS THAN 3.9FT AND A BATCH IS COMPLETE IN MIX-TANK ONE. PROVIDED MIX TANK ONE IS THE OLDEST BATCH. THE POLYMER PUMP AND INTERFACE PANEL PLC WILL CLOSE TRANSFER VALVE 1 WHEN: THE MIX-AGE TANK 1 LEVEL IS LESS THAN 1.2FT.

THE LEVEL TRANSMITTER LOCATED AT THE TOP OF HOLD FEED TANK 2 IS CALIBRATED TO 0-8FT. THE 4-20MA SIGNAL FROM THE LEVEL TRANSMITTER IS RECEIVED AT THE POLYMER PUMP AND INTERFACE PANEL. THE LEVEL OF THE HOLD FEED TANK DETERMINES WHEN A BATCH WILL BE STARTED AND WHEN THE COMPLETED BATCH WILL BE TRANSFERRED TO HOLD FEED TANK 2. THE POLYMER PUMP AND INTERFACE PANEL WILL ISSUE THE START COMMAND TO BATCH PANEL TWO WHEN: THE HOLD FEED TANK LEVEL FALLS TO LESS THAN 4.2FT WITH ONE POLYMER PUMP RUNNING. THE HOLD FEED TANK LEVEL FALLS TO LESS THAN 4.5FT WITH TWO POLYMER PUMPS RUNNING. THE POLYMER PUMP AND INTERFACE PANEL PLC WILL OPEN TRANSFER VALVE 2A WHEN: THE HOLD FEED TANK LEVEL IS LESS THAN 3.9FT AND A BATCH IS COMPLETE IN MIX-TANK ONE. PROVIDED MIX TANK ONE IS THE OLDEST BATCH. THE POLYMER PUMP AND INTERFACE PANEL PLC WILL CLOSE TRANSFER VALVE 2A WHEN: THE MIX-AGE TANK 1 LEVEL IS LESS THAN 1.2FT.

DES	DR	CHK	SCALE	REV	DATE	PURPOSE	BY	CHK
SEI	SEI	SEI	SEI	9542315				

DES	DR	CHK	SCALE	REV	DATE	PURPOSE	BY	CHK
SEI	SEI	SEI	SEI	9542316				



THE LEVEL TRANSMITTER LOCATED AT THE TOP OF HOLD FEED TANK 3 IS CALIBRATED TO 0-8FT. THE 4-20MA SIGNAL FROM THE LEVEL TRANSMITTER IS RECEIVED AT THE POLYMER PUMP AND INTERFACE PANEL. THE LEVEL OF THE HOLD FEED TANK DETERMINES WHEN A BATCH WILL BE STARTED AND WHEN THE COMPLETED BATCH WILL BE TRANSFERRED TO HOLD FEED TANK 3. THE POLYMER PUMP AND INTERFACE PANEL WILL ISSUE THE START COMMAND TO BATCHING PANEL 3 WHEN: THE HOLD FEED TANK LEVEL FALLS TO LESS THAN 4.2FT WITH ONE POLYMER PUMP RUNNING. THE HOLD FEED TANK LEVEL FALLS TO LESS THAN 4.5FT WITH TWO POLYMER PUMPS RUNNING. THE POLYMER PUMP AND INTERFACE PANEL PLC WILL OPEN TRANSFER VALVE 3 WHEN: THE HOLD FEED TANK LEVEL IS LESS THAN 3.9FT AND A BATCH IS COMPLETE IN MIX-TANK 3. PROVIDED MIX TANK 3 IS THE OLDEST BATCH. THE POLYMER PUMP AND INTERFACE PANEL PLC WILL CLOSE TRANSFER VALVE 3 WHEN: THE MIX-AGE TANK 3 LEVEL IS LESS THAN 1.2FT.

THE LEVEL OF THE HOLD FEED TANK DETERMINES WHEN A BATCH WILL BE STARTED AND WHEN THE COMPLETED BATCH WILL BE TRANSFERRED TO HOLD FEED TANK 2. THE POLYMER PUMP AND INTERFACE PANEL WILL ISSUE THE START COMMAND TO BATCH PANEL TWO WHEN: THE HOLD FEED TANK LEVEL FALLS TO LESS THAN 4.2FT WITH ONE POLYMER PUMP RUNNING. THE HOLD FEED TANK LEVEL FALLS TO LESS THAN 4.5FT WITH TWO POLYMER PUMPS RUNNING. THE POLYMER PUMP AND INTERFACE PANEL PLC WILL OPEN TRANSFER VALVE 2A WHEN: THE HOLD FEED TANK LEVEL IS LESS THAN 3.9FT AND A BATCH IS COMPLETE IN MIX-TANK ONE. PROVIDED MIX TANK ONE IS THE OLDEST BATCH. THE POLYMER PUMP AND INTERFACE PANEL PLC WILL CLOSE TRANSFER VALVE 2A WHEN: THE MIX-AGE TANK 1 LEVEL IS LESS THAN 1.2FT.

DES	DR	CHK	SCALE	REV	DATE	PURPOSE	BY	CHK
SEI	SEI	SEI	SEI	9542317				

DES	DR	CHK	SCALE	REV	DATE	PURPOSE	BY	CHK
SEI	SEI	SEI	SEI	9542318				

DESIGNED	MKS			
DRAWN	MKS			
CHECKED				
PROJ. ENGR.				
NO.	ISSUED FOR	DATE	BY	APPROVED

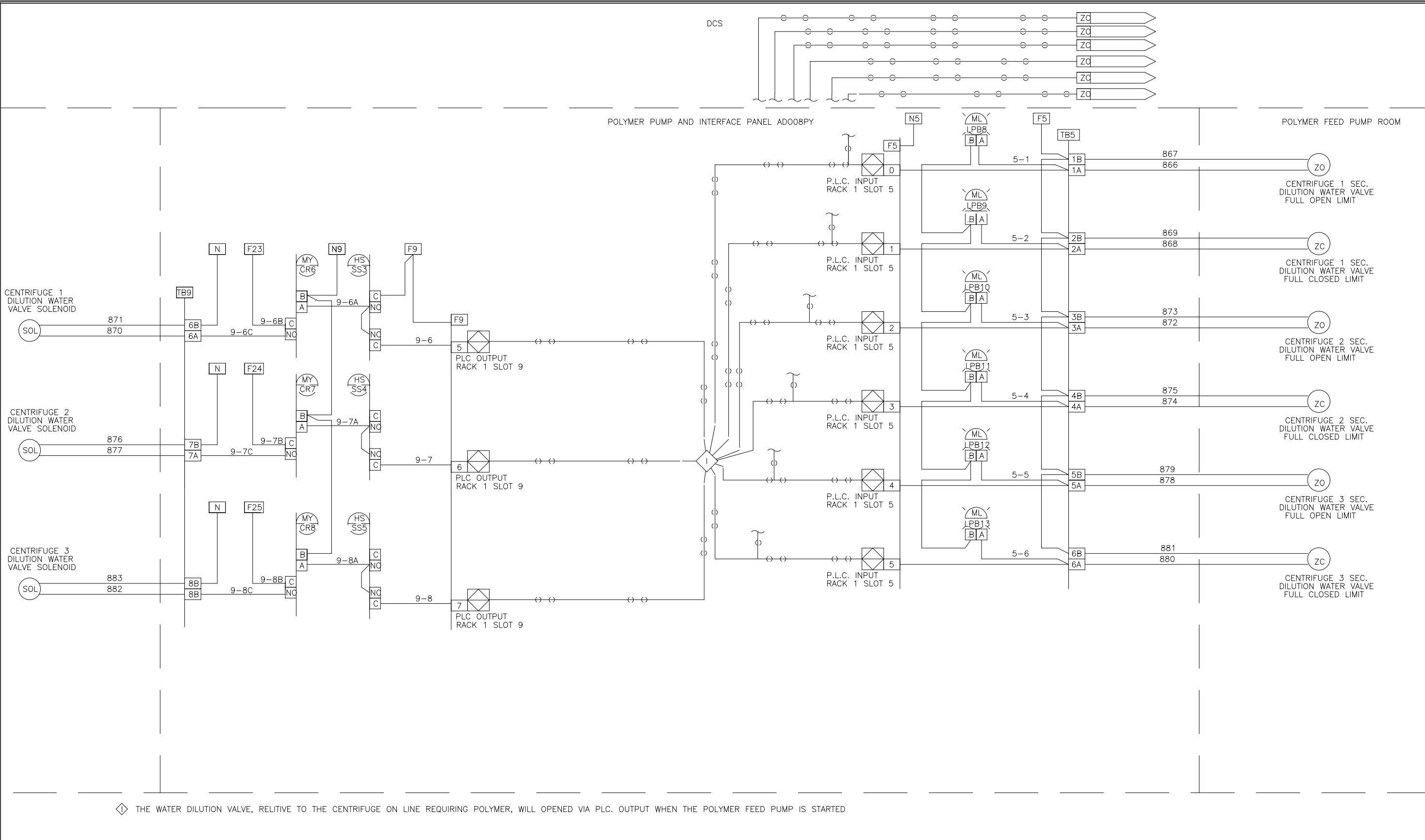
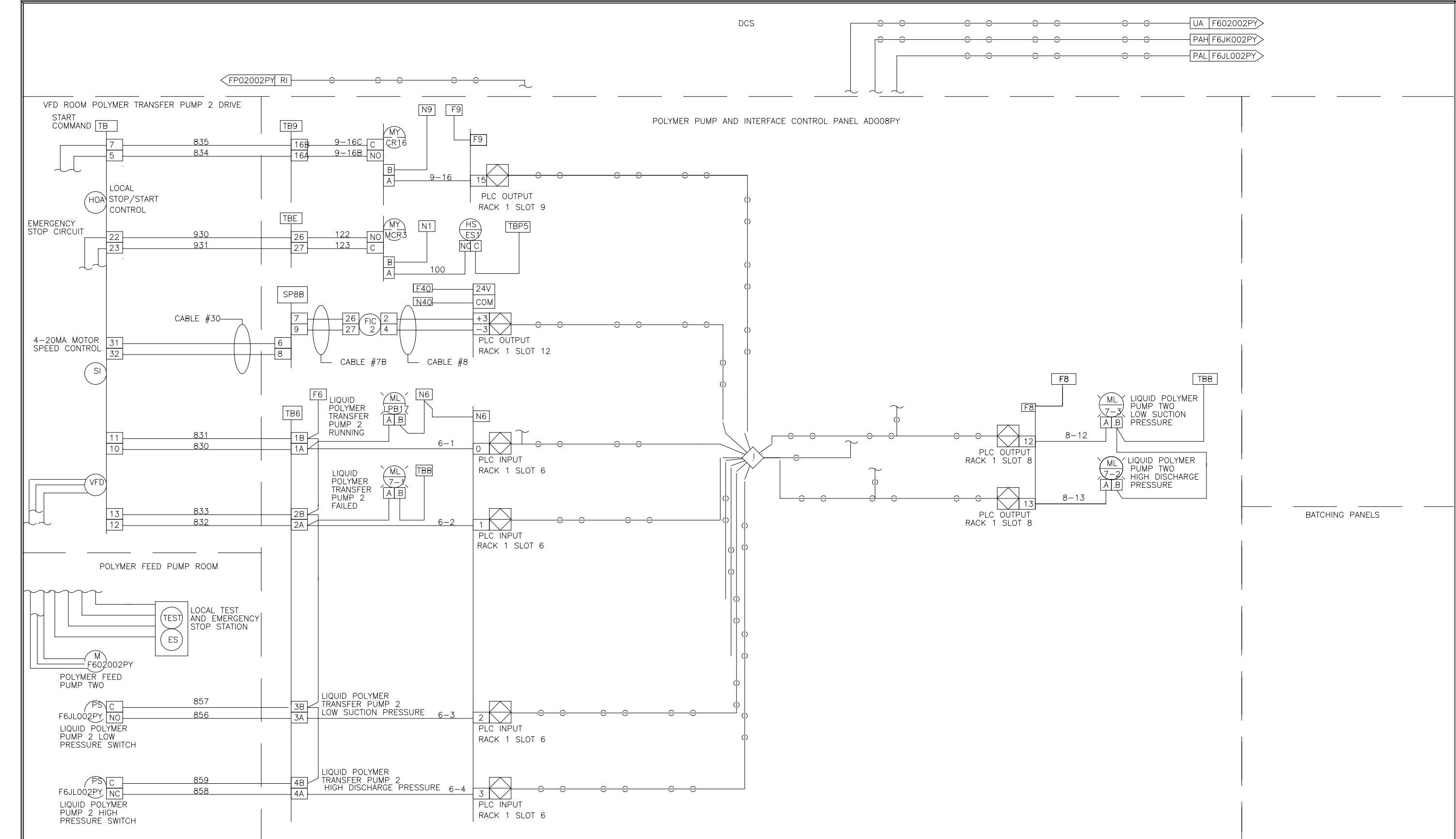
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

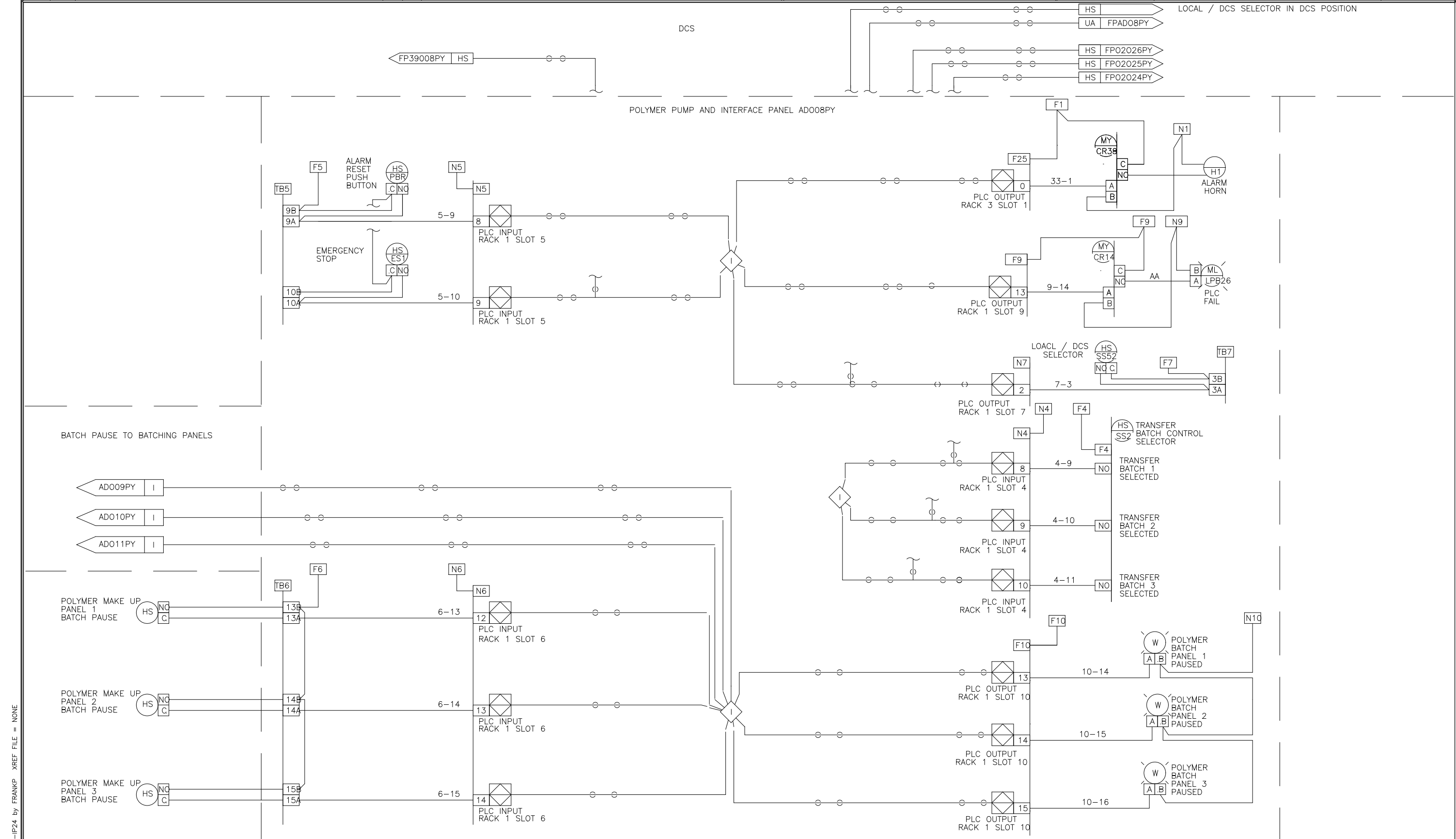
DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-23
SHEET	31W OF 199

RECORD DRAWING



DES	EM	SP	11/26	I.S.A. FORMAT LOOP INTERLOCK DWG	REV LTR
DRF	EM	SPK	11/26	POLYMER PUMP AND INTERFACE CONTROL PANEL	DWG NO
CHK	EM	SPK	11/26	ADO08PY	9542319
SCALE				FOR: DANIS HEAVY CONSTRUCTION	

DES	EM	SP	11/26	I.S.A. FORMAT LOOP INTERLOCK DWG	REV LTR
DRF	EM	SPK	11/26	POLYMER PUMP AND INTERFACE PANEL	DWG NO
CHK	EM	SPK	11/26	ADO08PY	9542320
SCALE				FOR: DANIS HEAVY CONSTRUCTION	



PANEL DEPTH = 16"

NAMETAG LEGEND

NO	ITEM	INSCRIPTION
1	L-1	HIGH LEVEL
2	L-2	LOW LEVEL
3	DI-1	CENTRATE FLOW
4	UC-1	SLUDGE LEVEL/SLUDGE FLOW
5		SLUDGE WET WELL & CENTRATE CONTROL PANEL ADO32SL
6		SLUDGE WET WELL LEVEL

SHOP NOTES:

- ALL WIRING TAGGED WITH MACHINE PRINTED SLEEVES
- ALL NAMEPLATES NOT CAPTURED BY DEVICES SUCH AS LIGHTS & SELECTOR SWITCHES SHALL BE ATTACHED WITH 6/32 STAINLESS STEEL MACHINE SCREWS. CAPTURED NAMEPLATES SHALL HAVE ADHESIVE BACKING.
- WARNING NAMEPLATE SHALL BE OF RED 1/16" NAMEPLATE PLASTIC WITH WHITE LETTERS. THE "WARNING" SHALL BE 1" IN HEIGHT.
- ALL INTERNAL PANEL COMPONENTS ARE IDENTIFIED WITH NAMEPLATES.
- ALL WIRING TAGGED WITH MACHINE PRINTED SLEEVES.

PANEL WIRING COLOR CODE

COLOR CODE	WIRE TYPE
RED	AC HOT
WHITE	AC NEUTRAL
GREEN	AC GROUND
VIOLET	AC CONTROL
BLUE	DC POSITIVE
GRAY	DC NEGATIVE
ORANGE	DC CONTROL
CLEAR	SHIELDED SIGNAL POSITIVE
BLACK	SHIELDED SIGNAL NEGATIVE
RED	SHIELDED SIGNAL REFERENCE
YELLOW	FOREIGN VOLTAGES

WIRING LEGEND

- PANEL WIRING
- CUSTOMER WIRING
- TERMINAL BLOCK
- FUSED TERMINAL BLOCKS
- CUSTOMER SUPPLIED EQUIPMENT

D	7/97	REVISED AS BUILT	JP
C	4/97	REVISED AS BUILT	MA
B	3/97	REVISED PER ENGINEERS COMMENTS	MA
A	11/96	ISSUED FOR APPROVAL	JP
REV	DATE	PURPOSE	BY

DES	EM	SP	11/26	I.S.A. FORMAT LOOP INTERLOCK DWG	REV LTR
DRF	EM	SPK	11/26	POLYMER PUMP AND INTERFACE PANEL	DWG NO
CHK	EM	SPK	11/26	ADO08PY	9542321
SCALE				FOR: DANIS HEAVY CONSTRUCTION	

DES	MA	SP	11/26	PANEL LAYOUT	REV LTR
DRF	JP	SPK	11/26	SLUDGE WET WELL & CENTRATE CONTROL PANEL	DWG NO
CHK	JP	SPK	11/26	ARLINGTON COUNTY, VA	9542335
SCALE				FOR: DANIS INDUSTRIES	

DESIGNED	MKS			
DRAWN	MKS			
CHECKED				
PROJ. ENGR.				
NO.	ISSUED FOR	DATE	BY	APPROVED

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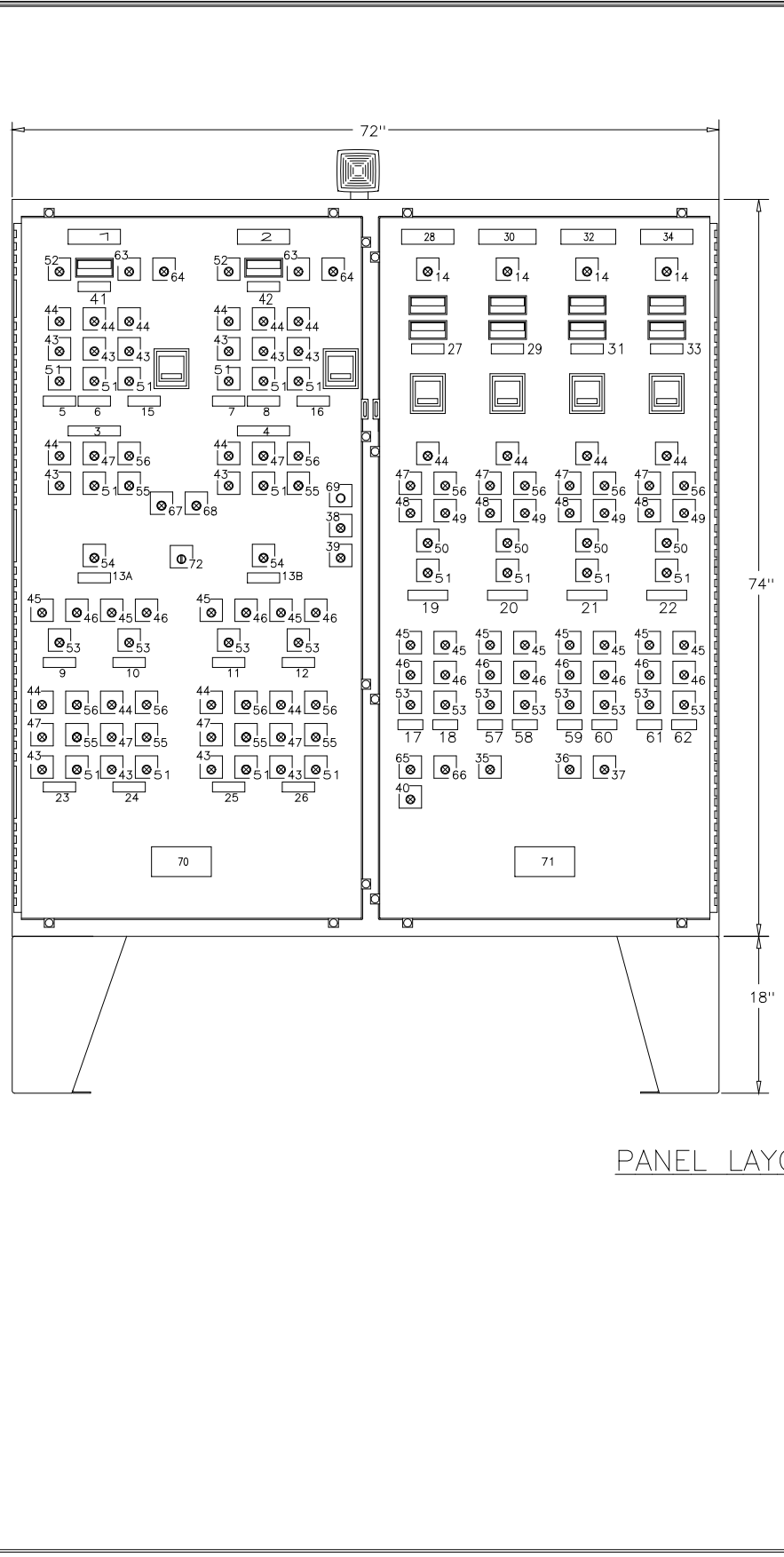
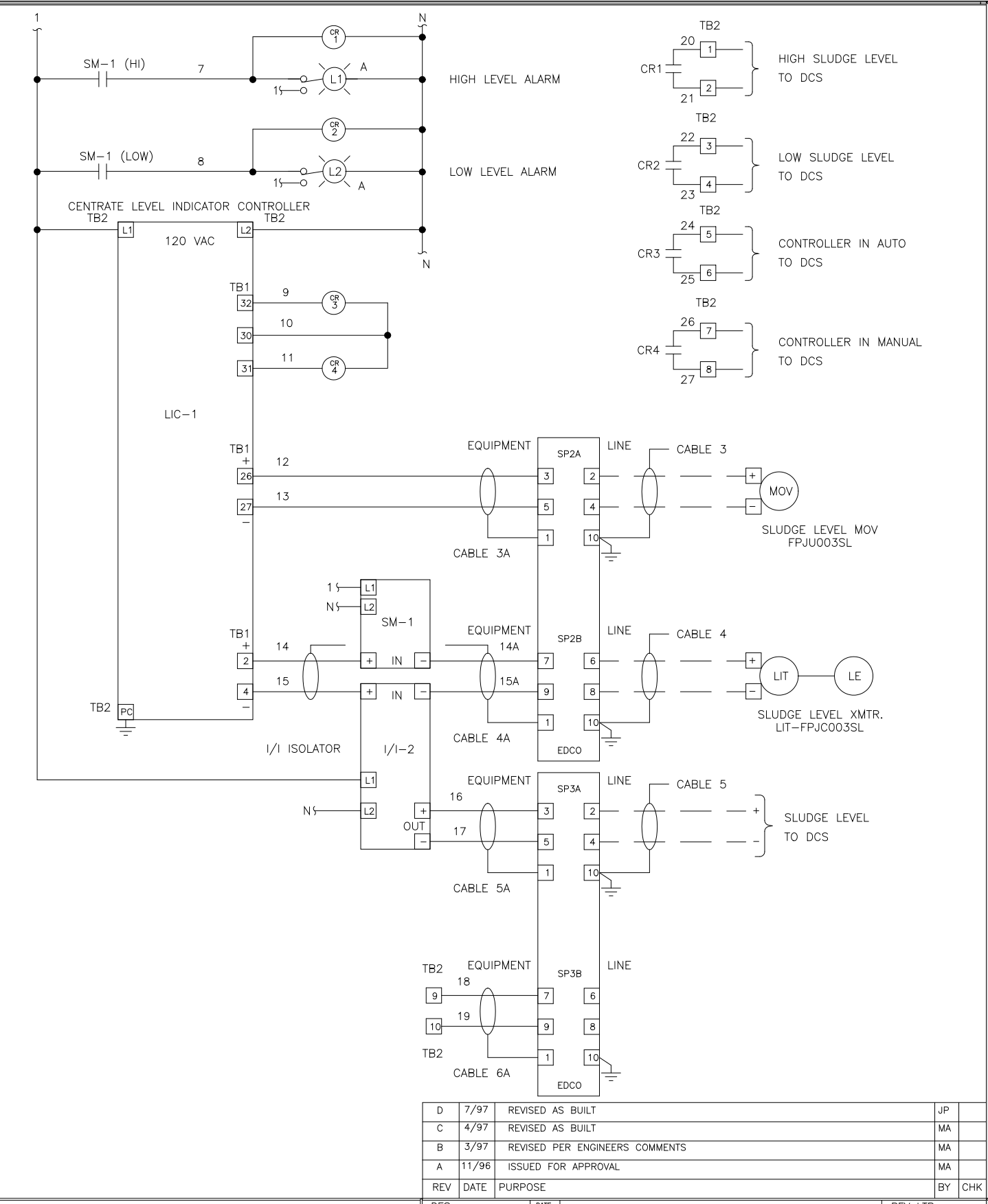
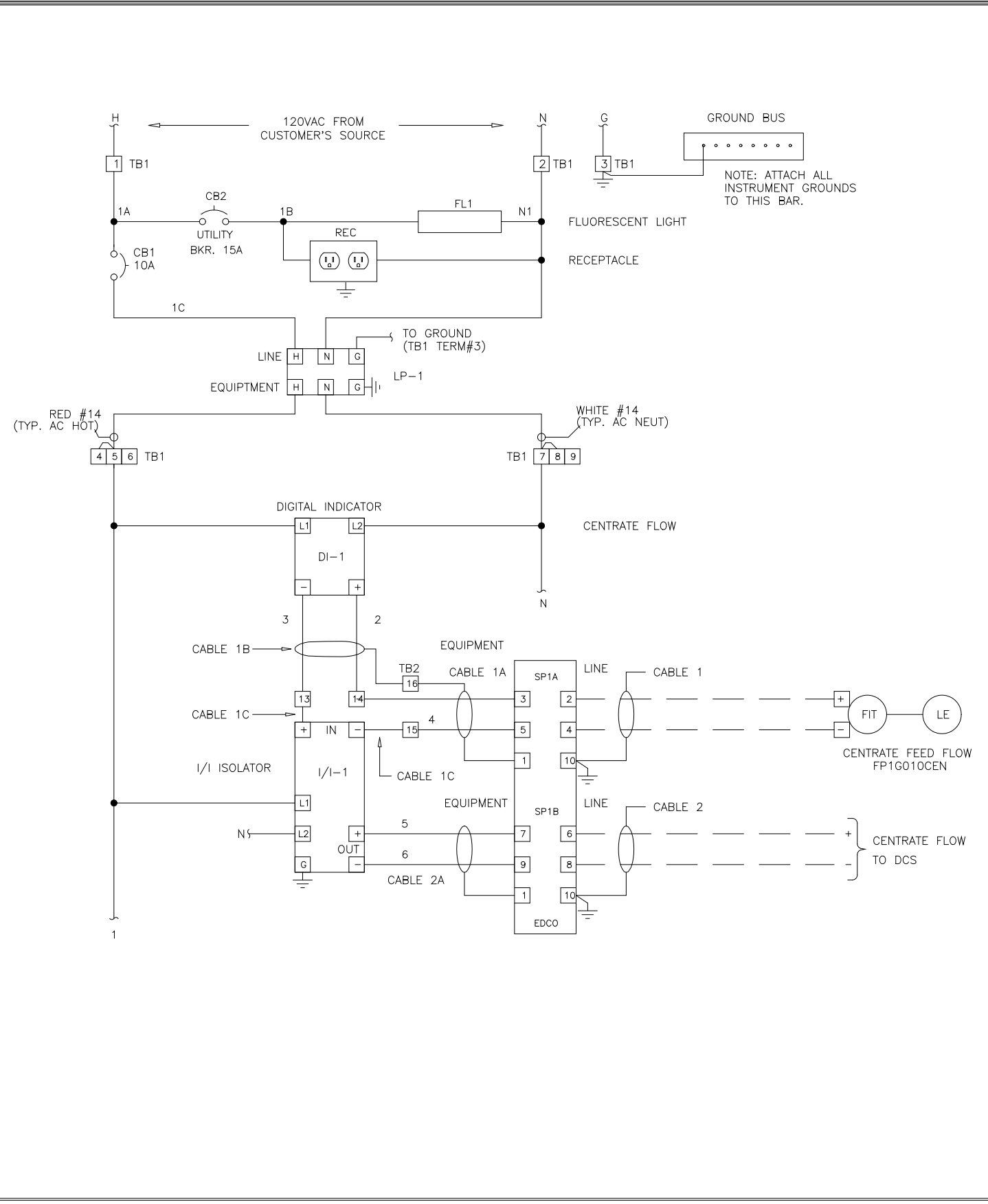
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION – PHASE III A
SOLIDS PROCESSING FACILITIES

GENERAL
PROCESS AND INSTRUMENTATION

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-24
SHEET	31X OF 199

RECORD DRAWING



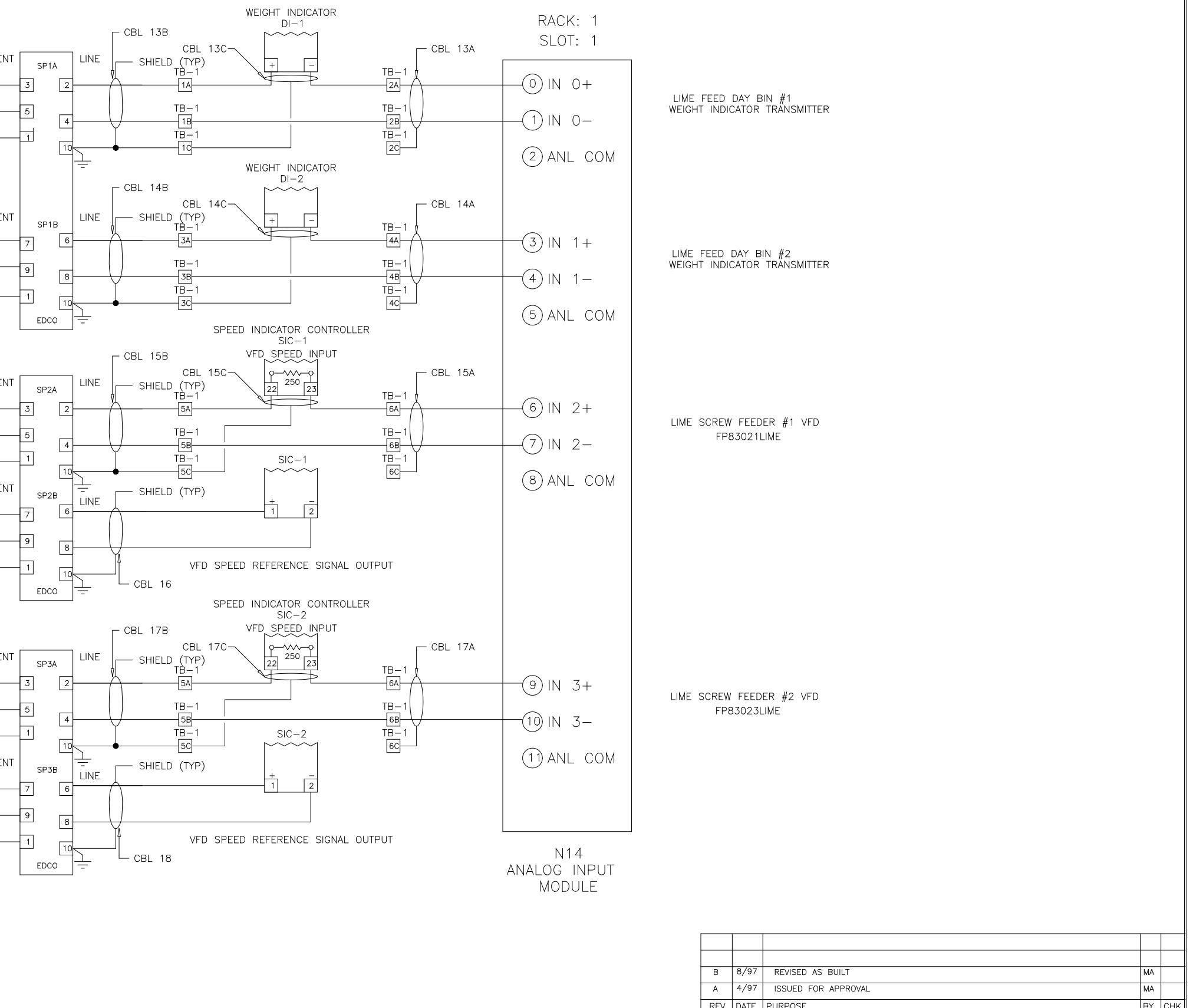
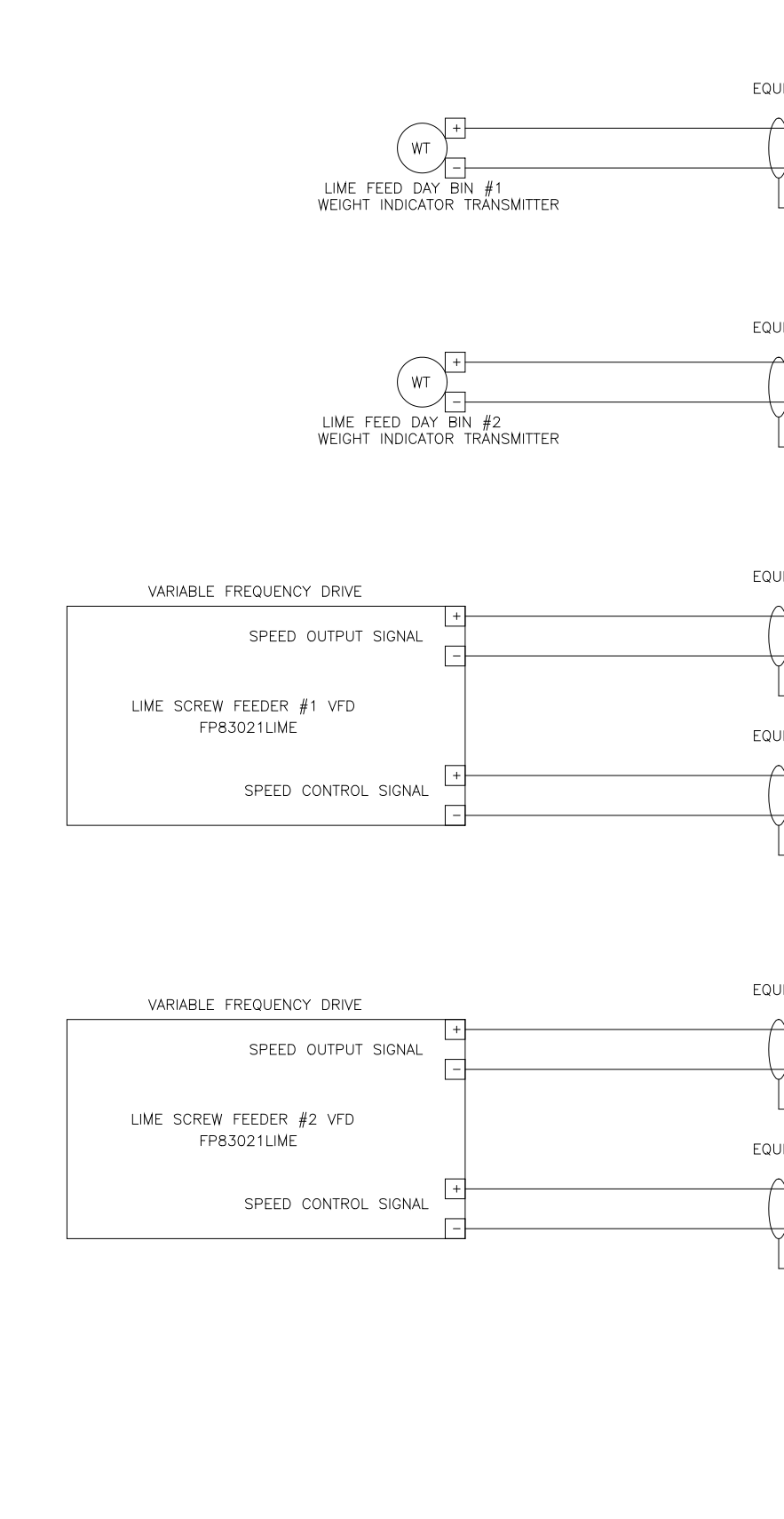
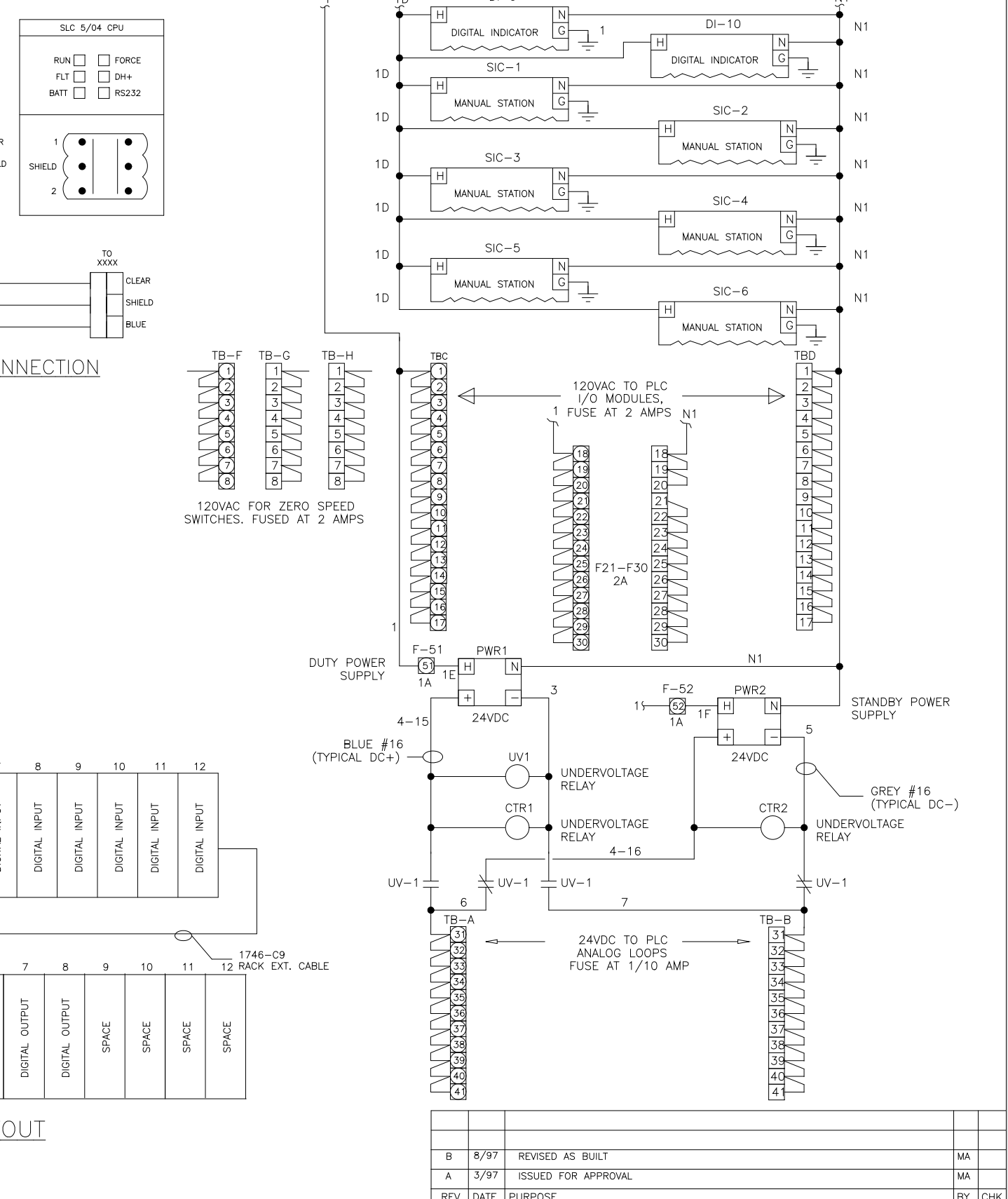
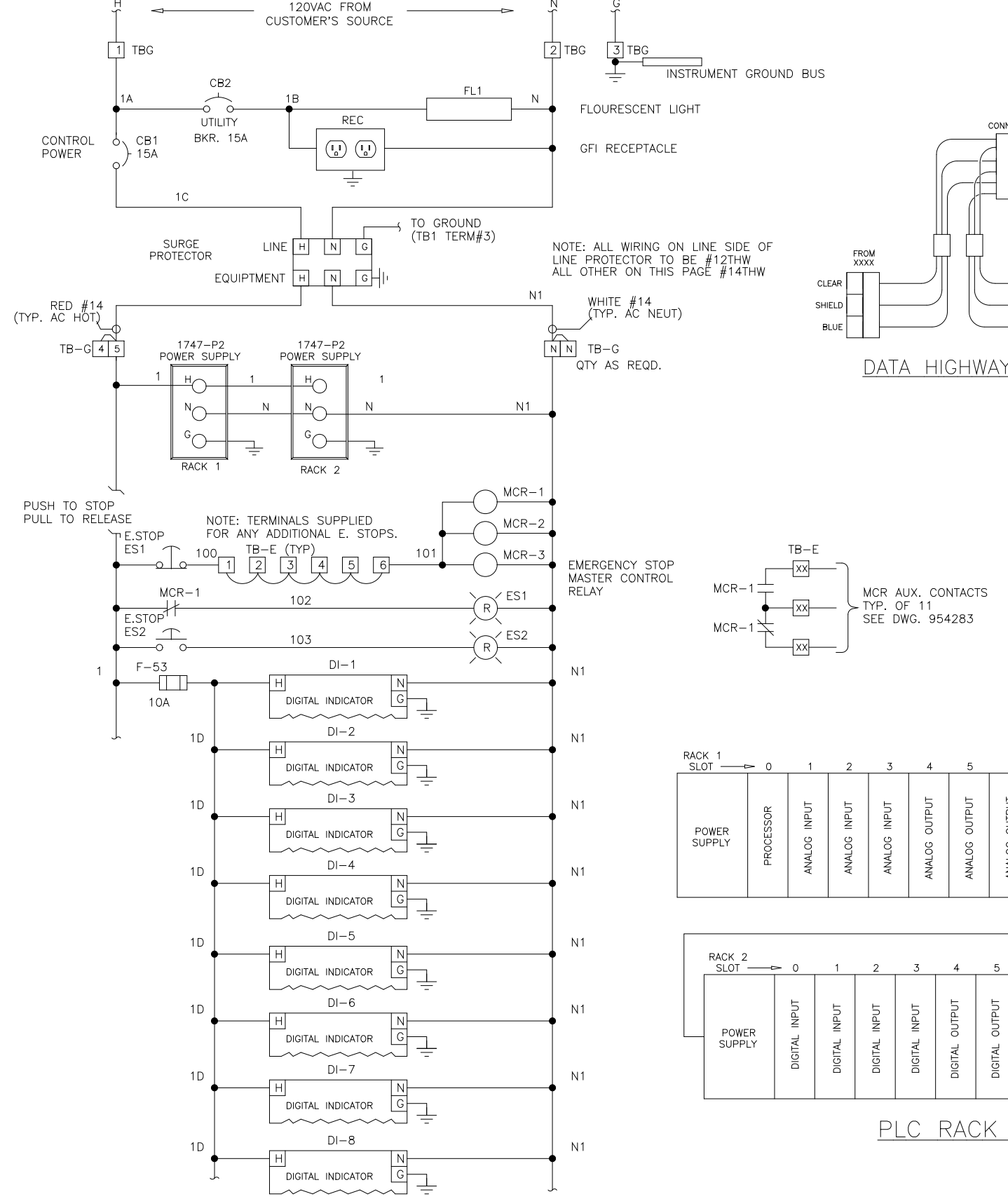
NAMEPLATES			
NO.	QTY	ITEM	INSCRIPTION
1	1	1	LIME DAY BIN 1
2	1	2	LIME DAY BIN 2
3	1	3	CAKE COLLECTOR SCREW CONVEYOR 1
4	1	4	CAKE COLLECTOR SCREW CONVEYOR 2
5	1	5	BIN 1 ACTIVATOR
6	1	6	BIN 1 FEEDER VIBRATOR
7	1	7	BIN 2 ACTIVATOR
8	1	8	BIN 2 FEEDER VIBRATOR
9	1	9	SLIDE GATE 1A
10	1	10	SLIDE GATE 1B
11	1	11	SLIDE GATE 2A
12	1	12	SLIDE GATE 2B
13A	1	13A	CAKE COLLECTOR CONVEYOR 1 LUBRICATION WATER
13B	1	13B	CAKE COLLECTOR CONVEYOR 2 LUBRICATION WATER
14	2	14	LOW-LOW BIN LEVEL
15	1	15	LIME SCREW FEEDER 1
16	1	16	LIME SCREW FEEDER 2
17	1	17	SLUDGE CAKE BIN 1, CONVEYOR 1 SLIDE GATE
18	1	18	SLUDGE CAKE BIN 1, CONVEYOR 2 SLIDE GATE
19	1	19	SLUDGE CAKE BIN 1 BOTTOM UNLOADER
20	1	20	SLUDGE CAKE BIN 2 BOTTOM UNLOADER
21	1	21	SLUDGE CAKE BIN 3 BOTTOM UNLOADER
22	1	22	SLUDGE CAKE BIN 4 BOTTOM UNLOADER
23	1	23	SLUDGE/LIME MIXER 1
24	1	24	SLUDGE/LIME MIXER 2
25	1	25	SLUDGE/LIME MIXER 3
26	1	26	SLUDGE/LIME MIXER 4
27	1	27	DI-3.4 SLUDGE CAKE STORAGE BIN 1A/B LEVEL
28	1	28	SLUDGE CAKE STORAGE BIN 1
29	1	29	SLUDGE CAKE STORAGE BIN 2A/B LEVEL
30	1	30	SLUDGE CAKE STORAGE BIN 2
31	1	31	DI-7.8 SLUDGE CAKE STORAGE BIN 3A/R LEVEL

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DES MA SRS 17/96 ELEMENTARY WIRING DIAGRAM
 DRF MA SRS 17/96 SLUDGE WET WELL & CENTRATE CONTROL PANEL
 CHK MA SRS 17/96
 SCALE FOR: DANIS INDUSTRIES ADO32SL
 REV LTR D
 DWG NO 954236

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DES MA SRS 4/201 PANEL LAYOUT
 DRF JP SRS 4/201 LIME STABILIZATION PANEL
 CHK MA SRS 4/201
 SCALE FOR: DANIS INDUSTRIES ADO21LIME
 REV LTR E
 DWG NO 954270



DES MA SRS 17/96 POWER WIRING DIAGRAM
 DRF MA SRS 17/96 LIME STABILIZATION PANEL
 CHK MA SRS 17/96
 SCALE FOR: DANIS INDUSTRIES ADO21LIME
 REV LTR B
 DWG NO 954271

DES MA SRS 4/201 ELEMENTARY WIRING DIAGRAM
 DRF MA SRS 4/201 LIME STABILIZATION PANEL
 CHK MA SRS 4/201
 SCALE FOR: DANIS INDUSTRIES ADO21LIME
 REV LTR B
 DWG NO 954272

DES MA SRS 4/201 ELEMENTARY WIRING DIAGRAM
 DRF MA SRS 4/201 LIME STABILIZATION PANEL
 CHK MA SRS 4/201
 SCALE FOR: DANIS INDUSTRIES ADO21LIME
 REV LTR B
 DWG NO 954272

DES MA SRS 4/201 ELEMENTARY WIRING DIAGRAM
 DRF MA SRS 4/201 LIME STABILIZATION PANEL
 CHK MA SRS 4/201
 SCALE FOR: DANIS INDUSTRIES ADO21LIME
 REV LTR B
 DWG NO 954272

DESIGNED	MKS
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
APPROVED	

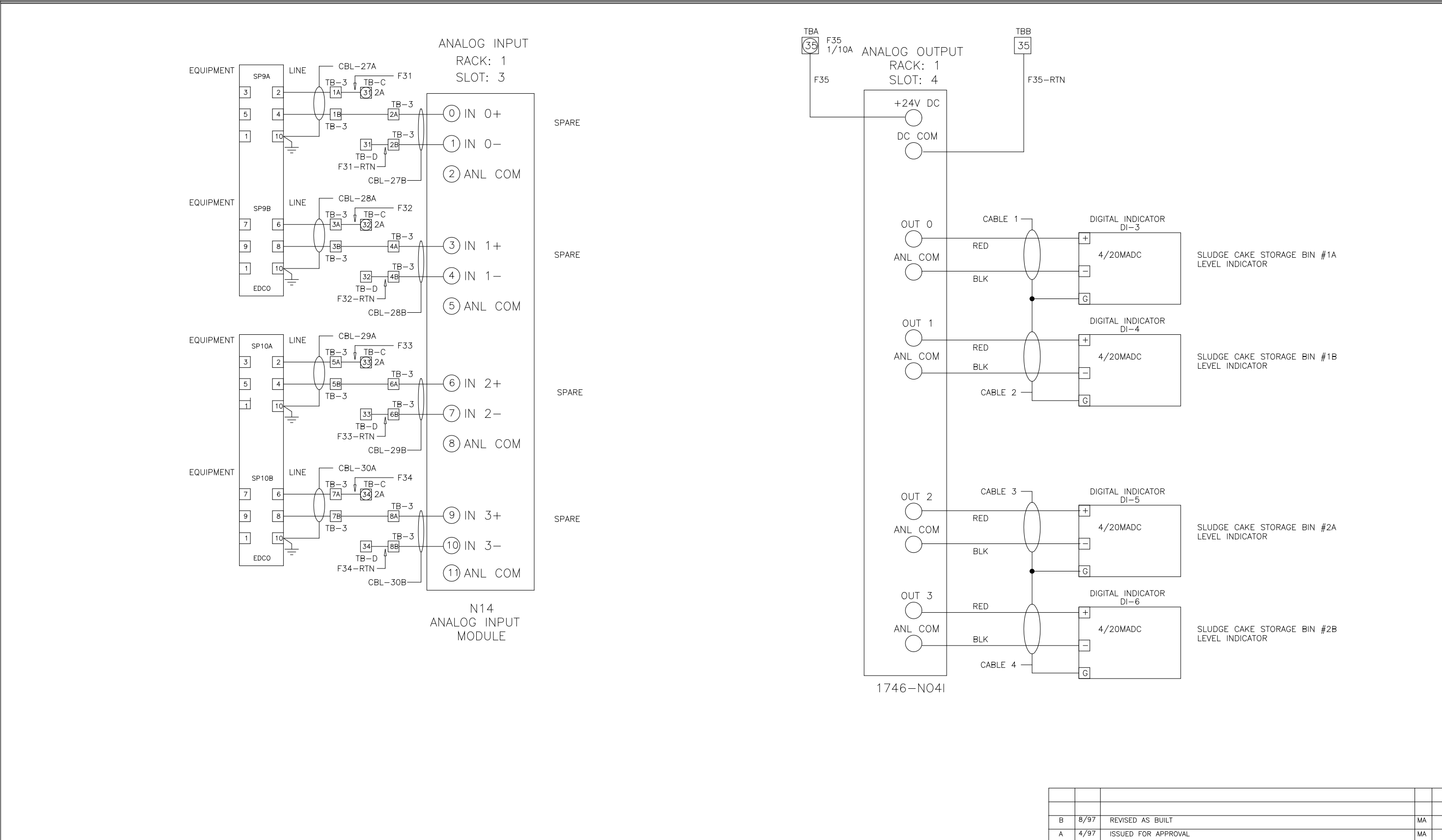
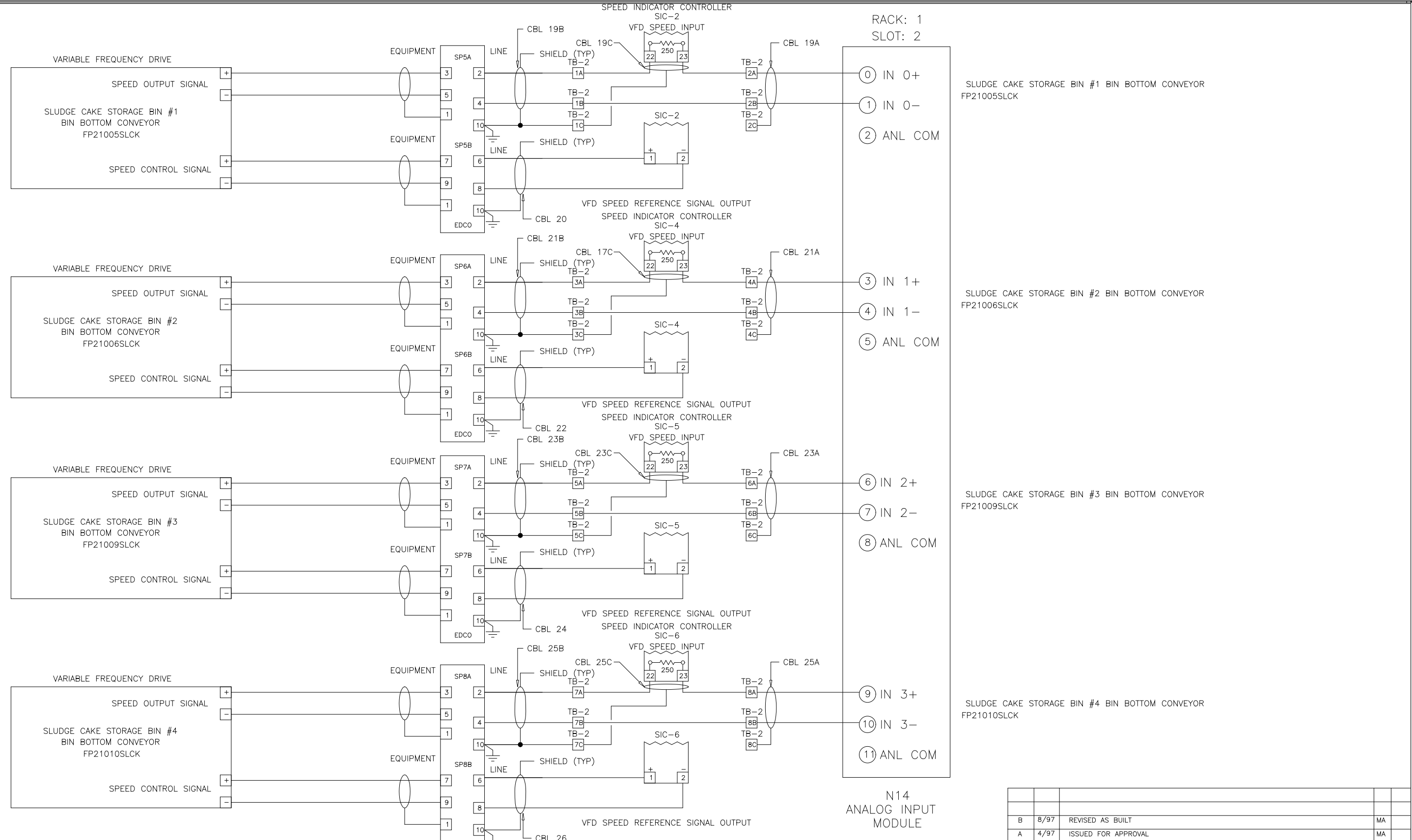
THIS DRAWING HAS BEEN COMPILED BY
HAZEN AND SAWYER, P.C.
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC FAIRFAX, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

GENERAL
 PROCESS AND INSTRUMENTATION

RECORD DRAWING

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-25
SHEET	31Y OF 199



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DES MA PLS 4/29/17
 DRF MA SAE 4/29/17
 CHK MA SAE
 REV DATE PURPOSE BY CHK

SEI
 SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

ELEMENTARY WIRING DIAGRAM
 LIME STABILIZATION CONTROL PANEL
 ARLINGTON CO., VIRGINIA
 FOR: DANIS INDUSTRIES ADO21LIME

REV LTR B
 DWG NO 954273

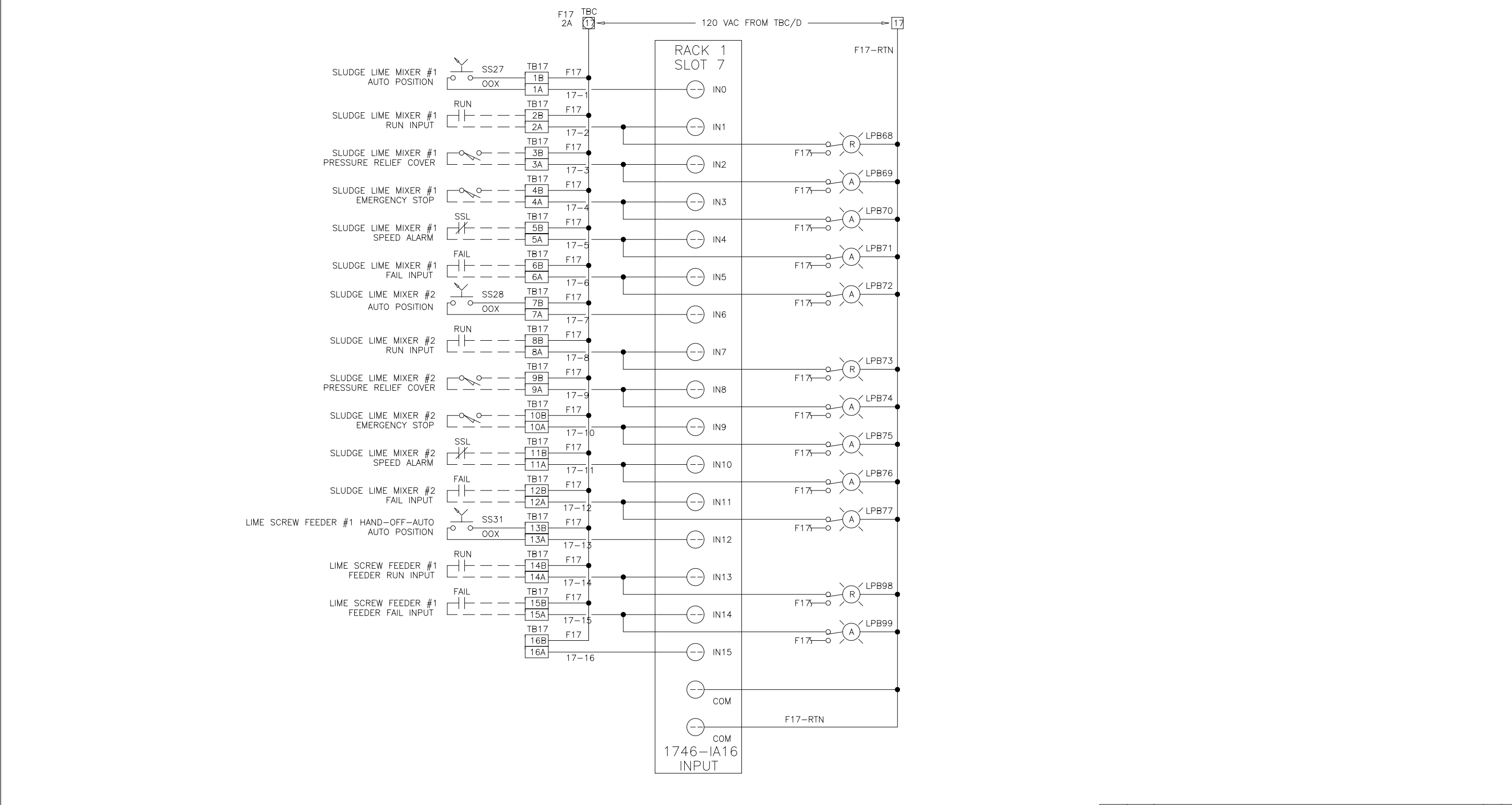
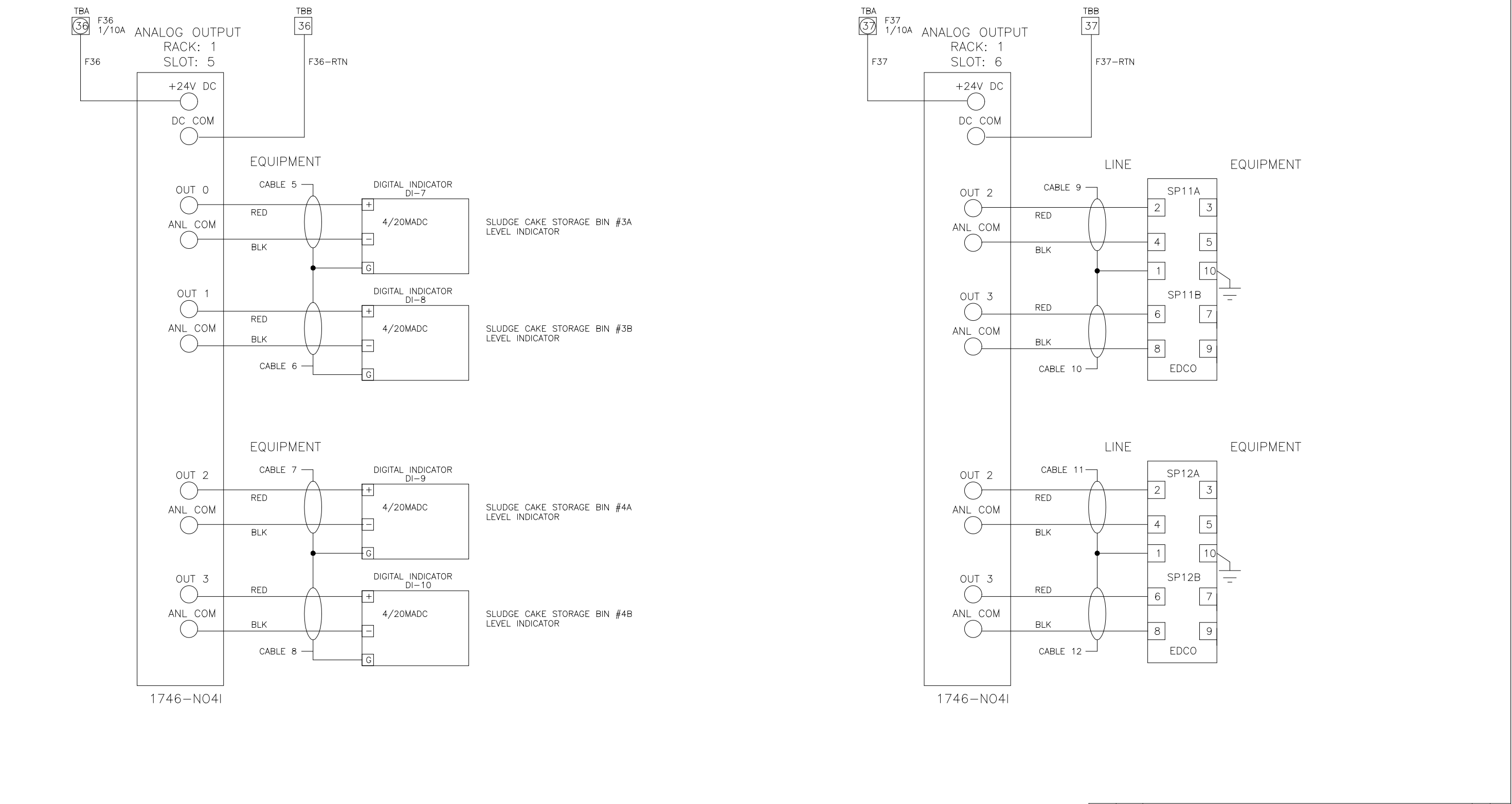
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DES MA PLS 4/29/17
 DRF MA SAE 4/29/17
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SEI
 SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

ELEMENTARY WIRING DIAGRAM
 LIME STABILIZATION CONTROL PANEL
 ARLINGTON CO., VIRGINIA
 FOR: DANIS INDUSTRIES ADO21LIME

REV LTR B
 DWG NO 954274



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DES MA PLS 4/29/17
 DRF MA SAE 4/29/17
 CHK MA SAE
 REV DATE PURPOSE BY CHK

SEI
 SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

ELEMENTARY WIRING DIAGRAM
 LIME STABILIZATION CONTROL PANEL
 ARLINGTON CO., VIRGINIA
 FOR: DANIS INDUSTRIES ADO21LIME

REV LTR B
 DWG NO 954275

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DES MA PLS 4/29/17
 DRF MA SAE 4/29/17
 CHK MA SAE
 REV DATE PURPOSE BY CHK

SEI
 SYSTEMS EAST INC.
 PO BOX 1007
 NEWPORT NEWS VA 23601

ELEMENTARY WIRING DIAGRAM
 LIME STABILIZATION CONTROL PANEL
 ARLINGTON CO., VIRGINIA
 FOR: DANIS INDUSTRIES ADO21LIME

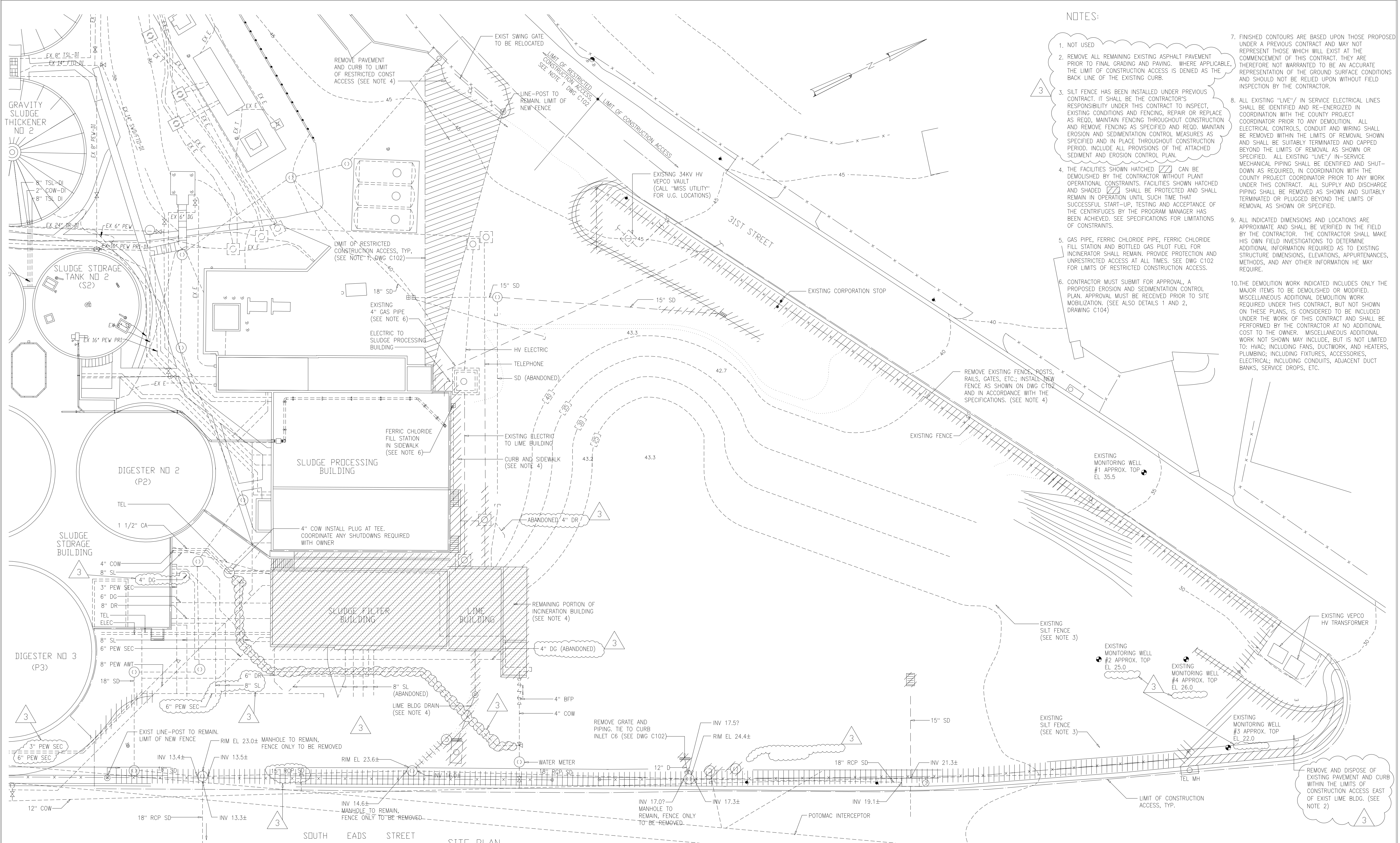
REV LTR B
 DWG NO 954276

DESIGNED	MKS
DRAWN	MKS
CHECKED	
PROJ. ENGR.	
NO.	ISSUED FOR
	DATE
	BY
	APPROVED

DATE	JULY 99
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	IP-26
SHEET	312 of 199

RECORD DRAWING

PLOT DATE: 07/29/99 4:03pm FILE: \\HLS245\inc\Draw\0312-IP26 by FRANKP. REF FILE = NONE



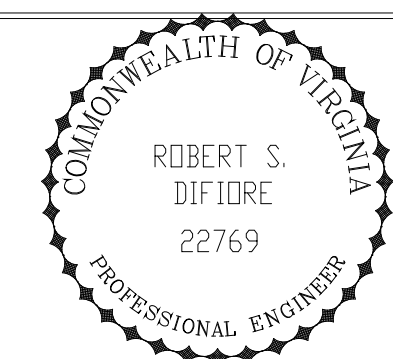
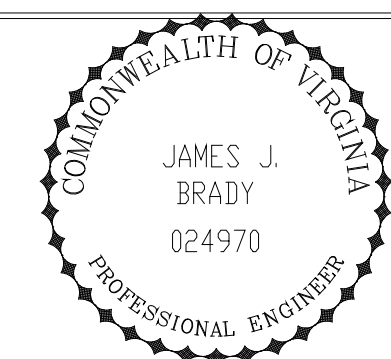
- NOTES:
1. NOT USED
 2. REMOVE ALL REMAINING EXISTING ASPHALT PAVEMENT PRIOR TO FINAL GRADING AND PAVING. WHERE APPLICABLE, THE LIMIT OF CONSTRUCTION ACCESS IS DENIED AS THE BACK LINE OF THE EXISTING CURB.
 3. SILT FENCE HAS BEEN INSTALLED UNDER PREVIOUS CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY UNDER THIS CONTRACT TO INSPECT, EXISTING CONDITIONS AND FENCING, REPAIR OR REPLACE AS REQD. MAINTAIN FENCING THROUGHOUT CONSTRUCTION AND REMOVE FENCING AS SPECIFIED AND REQD. MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES AS SPECIFIED AND IN PLACE THROUGHOUT CONSTRUCTION PERIOD. INCLUDE ALL PROVISIONS OF THE ATTACHED SEDIMENT AND EROSION CONTROL PLAN.
 4. THE FACILITIES SHOWN HATCHED [diagonal lines] CAN BE DEMOLISHED BY THE CONTRACTOR WITHOUT PLANT OPERATIONAL CONSTRAINTS. FACILITIES SHOWN HATCHED AND SHADED [diagonal lines with dots] SHALL BE PROTECTED AND SHALL REMAIN IN OPERATION UNTIL SUCH TIME THAT SUCCESSFUL START-UP, TESTING AND ACCEPTANCE OF THE CENTRIFUGES BY THE PROGRAM MANAGER HAS BEEN ACHIEVED. SEE SPECIFICATIONS FOR LIMITATIONS OF CONSTRAINTS.
 5. GAS PIPE, FERRIC CHLORIDE PIPE, FERRIC CHLORIDE FILL STATION AND BOTTLED GAS PILOT FUEL FOR INCINERATOR SHALL REMAIN. PROVIDE PROTECTION AND UNRESTRICTED ACCESS AT ALL TIMES. SEE DWG C102 FOR LIMITS OF RESTRICTED CONSTRUCTION ACCESS.
 6. CONTRACTOR MUST SUBMIT FOR APPROVAL, A PROPOSED EROSION AND SEDIMENTATION CONTROL PLAN. APPROVAL MUST BE RECEIVED PRIOR TO SITE MOBILIZATION. (SEE ALSO DETAILS 1 AND 2, DRAWING C104)
 7. FINISHED CONTOURS ARE BASED UPON THOSE PROPOSED UNDER A PREVIOUS CONTRACT AND MAY NOT REPRESENT THOSE WHICH WILL EXIST AT THE COMMENCEMENT OF THIS CONTRACT. THEY ARE THEREFORE NOT WARRANTED TO BE AN ACCURATE REPRESENTATION OF THE GROUND SURFACE CONDITIONS AND SHOULD NOT BE RELIED UPON WITHOUT FIELD INSPECTION BY THE CONTRACTOR.
 8. ALL EXISTING "LIVE"/ IN-SERVICE ELECTRICAL LINES SHALL BE IDENTIFIED AND RE-ENERGIZED IN COORDINATION WITH THE COUNTY PROJECT COORDINATOR PRIOR TO ANY DEMOLITION. ALL ELECTRICAL CONTROLS, CONDUIT AND WIRING SHALL BE REMOVED WITHIN THE LIMITS OF REMOVAL SHOWN AND SHALL BE SUITABLY TERMINATED AND CAPPED BEYOND THE LIMITS OF REMOVAL AS SHOWN OR SPECIFIED. ALL EXISTING "LIVE"/ IN-SERVICE MECHANICAL PIPING SHALL BE IDENTIFIED AND SHUT-DOWN AS REQUIRED, IN COORDINATION WITH THE COUNTY PROJECT COORDINATOR PRIOR TO ANY WORK UNDER THIS CONTRACT. ALL SUPPLY AND DISCHARGE PIPING SHALL BE REMOVED AS SHOWN AND SUITABLY TERMINATED OR PLUGGED BEYOND THE LIMITS OF REMOVAL AS SHOWN OR SPECIFIED.
 9. ALL INDICATED DIMENSIONS AND LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL MAKE HIS OWN FIELD INVESTIGATIONS TO DETERMINE ADDITIONAL INFORMATION REQUIRED AS TO EXISTING STRUCTURE DIMENSIONS, ELEVATIONS, APPURTENANCES, METHODS, AND ANY OTHER INFORMATION HE MAY REQUIRE.
 10. THE DEMOLITION WORK INDICATED INCLUDES ONLY THE MAJOR ITEMS TO BE DEMOLISHED OR MODIFIED. MISCELLANEOUS ADDITIONAL DEMOLITION WORK REQUIRED UNDER THIS CONTRACT, BUT NOT SHOWN ON THESE PLANS, IS CONSIDERED TO BE INCLUDED UNDER THE WORK OF THIS CONTRACT AND SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. MISCELLANEOUS ADDITIONAL WORK NOT SHOWN MAY INCLUDE, BUT IS NOT LIMITED TO: HVAC; INCLUDING FANS, DUCTWORK, AND HEATERS; PLUMBING; INCLUDING FIXTURES, ACCESSORIES, ELECTRICAL; INCLUDING CONDUITS, ADJACENT DUCT BANKS, SERVICE DROPS, ETC.

SOUTH EADS STREET
SITE PLAN
1"=20'-0"

RECORD DRAWING

3	RECORD DRAWINGS	3-00	F.X.P.
2	CONSTRUCTION	9-94	J.J.B.
1	COUNTY REGULATORY APPROVAL ISSUED FOR	9-94	J.J.B.
NO.		DATE	BY

DESIGNED	H&S
DRAWN	P.G.M.
CHECKED	R.N.C.
PROJ.ENGR.	A.A.B.
	J.J.B.
APPROVED	

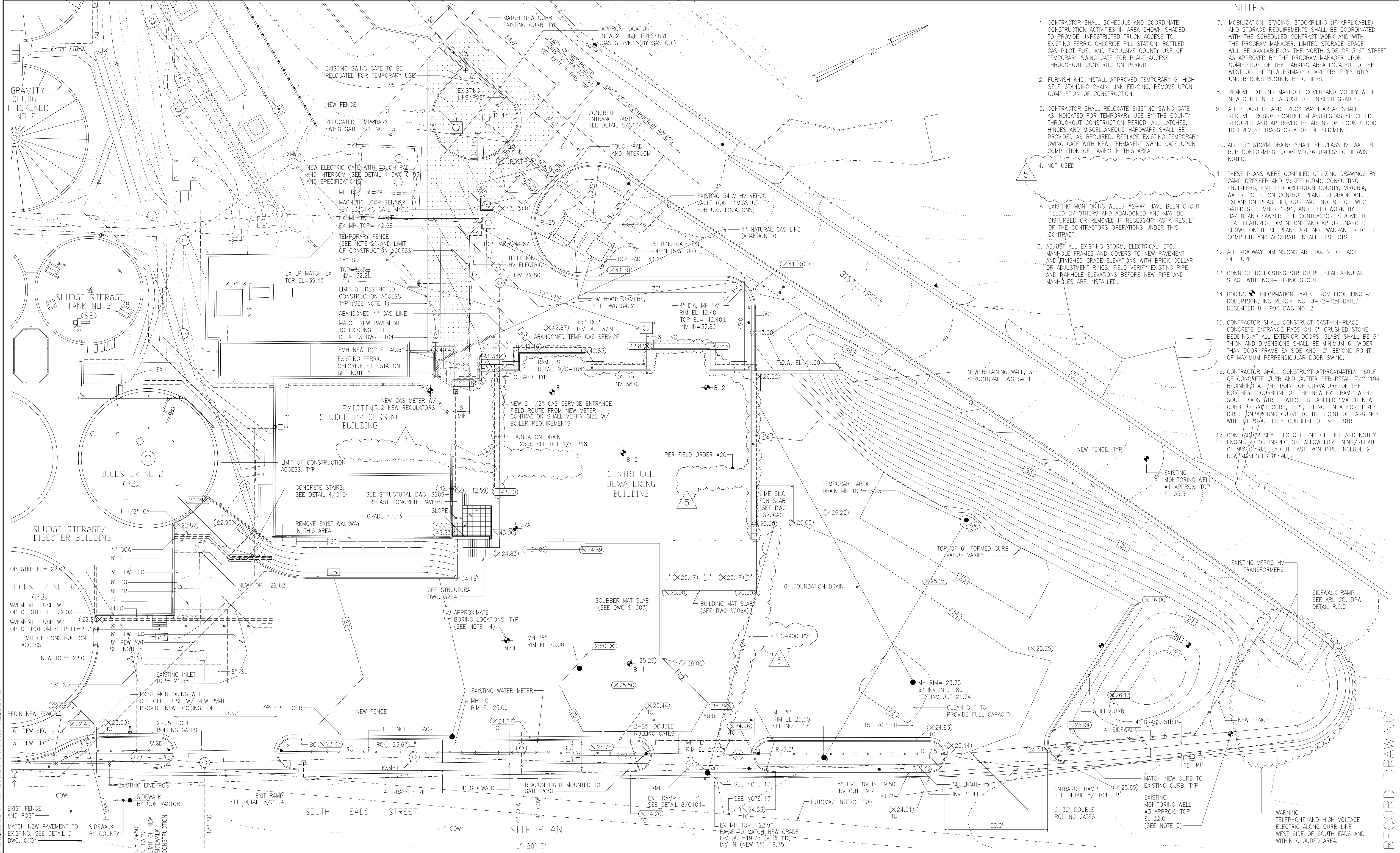


HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY, VIRGINIA
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

SITWORK
CIVIL
EXISTING SITE PLAN

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER C101
	SHEET 32 OF 199



- NOTES:**
- CONTRACTOR SHALL SCHEDULE AND COORDINATE CONSTRUCTION ACTIVITIES IN AREA SHOWN SHADDED TO PROVIDE UNRESTRICTED TRUCK ACCESS TO EXISTING FERRIC CHLORIDE FILL STATION, BOTTLED GAS PILOT FUEL AND EXCLUSIVE COUNTY USE OF TEMPORARY SWING GATE FOR PLANT ACCESS THROUGHOUT CONSTRUCTION PERIOD.
 - FURNISH AND INSTALL APPROVED TEMPORARY 6' HIGH SELF-STANDING CHAIN-LINK FENCING. REMOVE UPON COMPLETION OF CONSTRUCTION.
 - CONTRACTOR SHALL RELOCATE EXISTING SWING GATE AS INDICATED FOR TEMPORARY USE BY THE COUNTY THROUGHOUT CONSTRUCTION PERIOD. ALL LATCHES, HINGES AND MISCELLANEOUS HARDWARE SHALL BE PROVIDED AS REQUIRED. REPLACE EXISTING TEMPORARY SWING GATE WITH NEW PERMANENT SWING GATE UPON COMPLETION OF PAVING IN THIS AREA.
 - NOT USED
 - EXISTING MONITORING WELLS #2-#4 HAVE BEEN GROUT FILLED BY OTHERS AND ABANDONED AND MAY BE DISTURBED OR REMOVED IF NECESSARY AS A RESULT OF THE CONTRACTOR'S OPERATIONS UNDER THIS CONTRACT.
 - ADJUST ALL EXISTING STORM, ELECTRICAL, ETC., MANHOLE FRAMES AND COVERS TO NEW PAVEMENT AND FINISHED GRADE ELEVATIONS WITH BRICK COLLAR OR ADJUSTMENT RINGS. FIELD VERIFY EXISTING PIPE AND MANHOLE ELEVATIONS BEFORE NEW PIPE AND MANHOLES ARE INSTALLED.
 - MOBILIZATION, STAGING, STOCKPILING (IF APPLICABLE) AND STORAGE REQUIREMENTS SHALL BE COORDINATED WITH THE SCHEDULED CONTRACT WORK AND WITH THE PROGRAM MANAGER. LIMITED STORAGE SPACE WILL BE AVAILABLE ON THE NORTH SIDE OF 31ST STREET AS APPROVED BY THE PROGRAM MANAGER UPON COMPLETION OF THE PARKING AREA LOCATED TO THE WEST OF THE NEW PRIMARY CLARIFIERS PRESENTLY UNDER CONSTRUCTION BY OTHERS.
 - REMOVE EXISTING MANHOLE COVER AND MODIFY WITH NEW CURB INLET. ADJUST TO FINISHED GRADES.
 - ALL STOCKPILE AND TRUCK WASH AREAS SHALL RECEIVE EROSION CONTROL MEASURES AS SPECIFIED, REQUIRED AND APPROVED BY ARLINGTON COUNTY CODE TO PREVENT TRANSPORTATION OF SEDIMENTS.
 - ALL 15" STORM DRAINS SHALL BE CLASS IV, WALL B, RCP CONFORMING TO ASTM C76 UNLESS OTHERWISE NOTED.
 - THESE PLANS WERE COMPILED UTILIZING DRAWINGS BY CAMP DRESSER AND MCKEE (CDM), CONSULTING ENGINEERS, ENTITLED ARLINGTON COUNTY, VIRGINIA, WATER POLLUTION CONTROL PLANT, UPGRADE AND EXPANSION PHASE IIB, CONTRACT NO. 90-02-WPC, DATED SEPTEMBER 1991, AND FIELD WORK BY HAZEN AND SAWYER. THE CONTRACTOR IS ADVISED THAT FEATURES, DIMENSIONS AND APPURTENANCES SHOWN ON THESE PLANS ARE NOT WARRANTED TO BE COMPLETE AND ACCURATE IN ALL RESPECTS.
 - ALL ROADWAY DIMENSIONS ARE TAKEN TO BACK OF CURB.
 - CONNECT TO EXISTING STRUCTURE, SEAL ANNULAR SPACE WITH NON-SHRINK GROUT.
 - BORING INFORMATION TAKEN FROM FROEHLING & ROBERTSON, INC REPORT NO. U-72-129 DATED DECEMBER 8, 1993 DWG NO. 2.
 - CONTRACTOR SHALL CONSTRUCT CAST-IN-PLACE CONCRETE ENTRANCE PADS ON 6" CRUSHED STONE BEDDING AT ALL EXTERIOR DOORS. SLABS SHALL BE 6" THICK AND DIMENSIONS SHALL BE MINIMUM 6" WIDER THAN DOOR FRAME EA SIDE AND 12" BEYOND POINT OF MAXIMUM PERPENDICULAR DOOR SWING.
 - CONTRACTOR SHALL CONSTRUCT APPROXIMATELY 160LF OF CONCRETE CURB AND GUTTER PER DETAIL 7/C-104 BEGINNING AT THE POINT OF CURVATURE OF THE NORTHERLY CURBLINE OF THE NEW EXIT RAMP WITH SOUTH EADS STREET WHICH IS LABELED "MATCH NEW CURB TO EXIST CURB, TYP". THENCE IN A NORTHERLY DIRECTION AROUND CURVE TO THE POINT OF TANGENCY WITH THE SOUTHERLY CURBLINE OF 31ST STREET.
 - CONTRACTOR SHALL EXPOSE END OF PIPE AND NOTIFY ENGINEER FOR INSPECTION. ALLOW FOR LINING/REHAB OF 90" OF 8" LEAD JT CAST IRON PIPE. INCLUDE 2 NEW MANHOLES 8" DEEP.

DESIGNED	ASG
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

COMMONWEALTH OF VIRGINIA
ROBERT S. DIFIORE
 22769
 PROFESSIONAL ENGINEER

HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

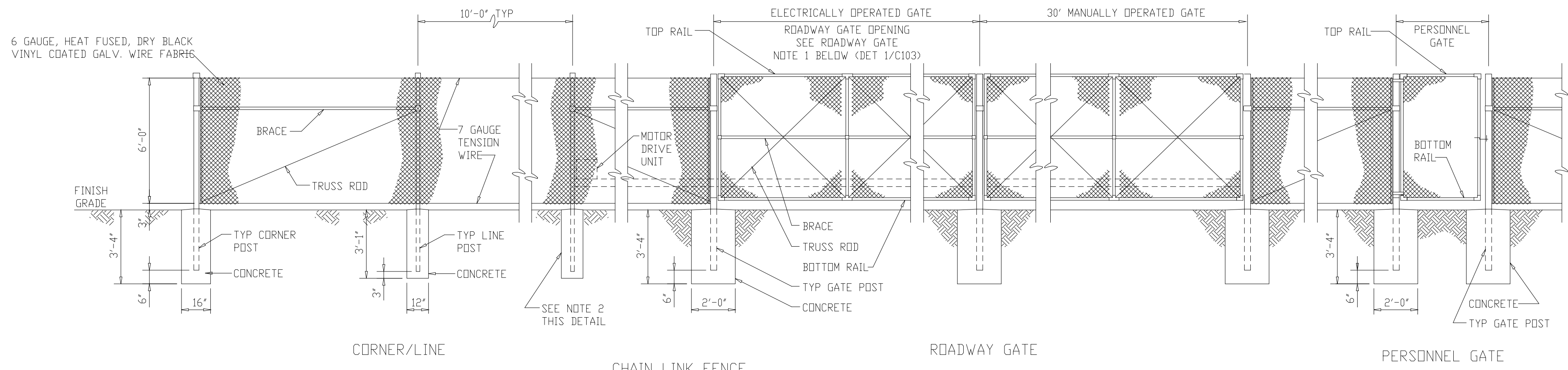
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

SITWORK
 CIVIL
 GRADING, DRAINAGE,
 AND EROSION CONTROL

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	C-102
	SHEET	33 OF 199

FILE: H:\ARL\WPC\UP\PHASE IIIA\DWG\UP-ST.MXD, BASEL:VP-EE
 PLOT DATE: 07/27/99 11:00AM

RECORD DRAWING



CORNER/LINE

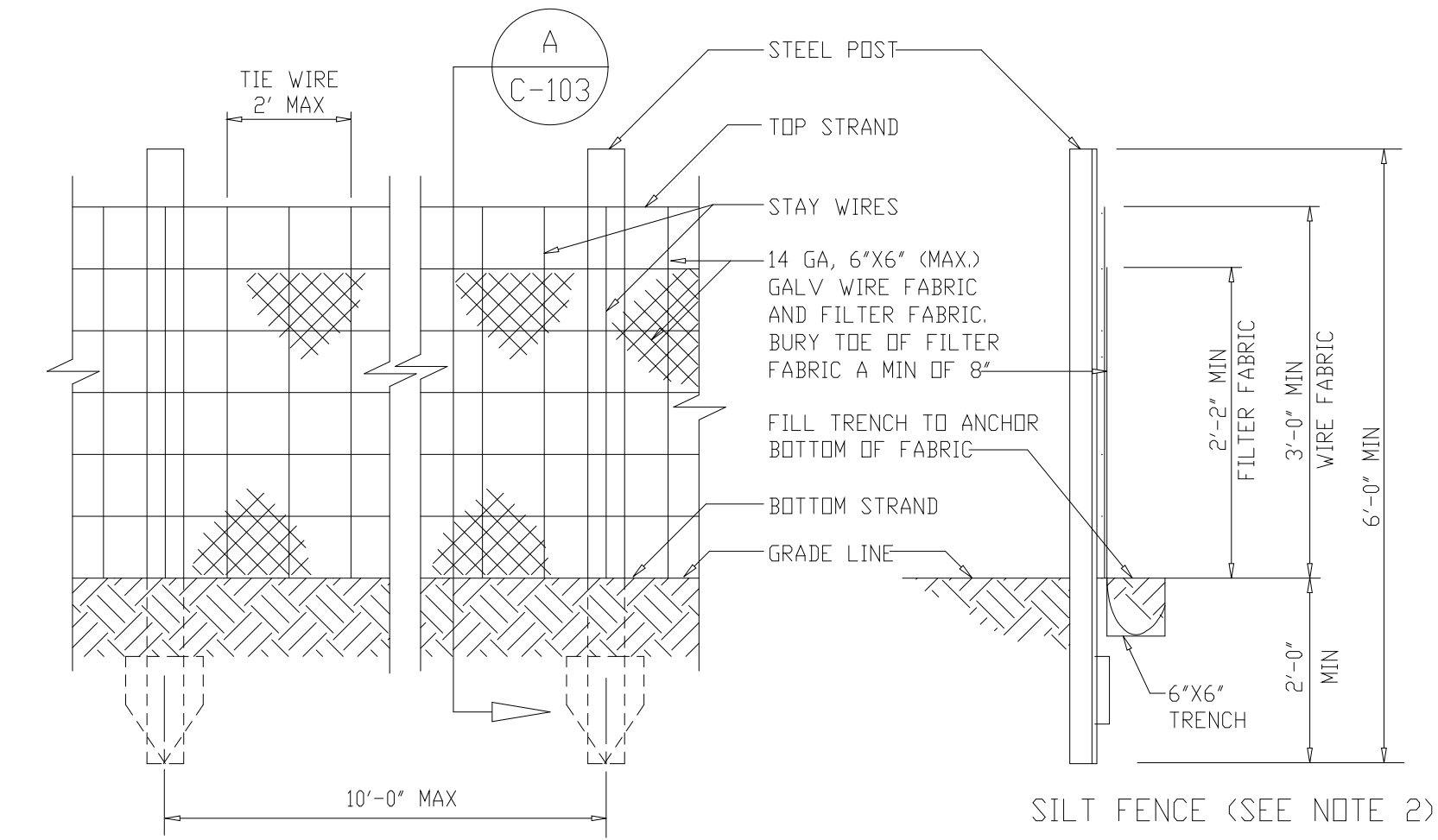
CHAIN LINK FENCE

ROADWAY GATE

PERSONNEL GATE

- NOTES: 1. PROVIDE MAGNETIC LOOP SENSORS AND CONTROLS AS SPECIFIED.
 2. IF ROCK IS ENCOUNTERED WHEN SETTING POSTS, DRILL HOLES 4 INCHES LARGER IN DIAMETER THAN POSTS AND BACKFILL TO GRADE WITH SITEWORK CONCRETE.

DETAIL	1
NTS	STD

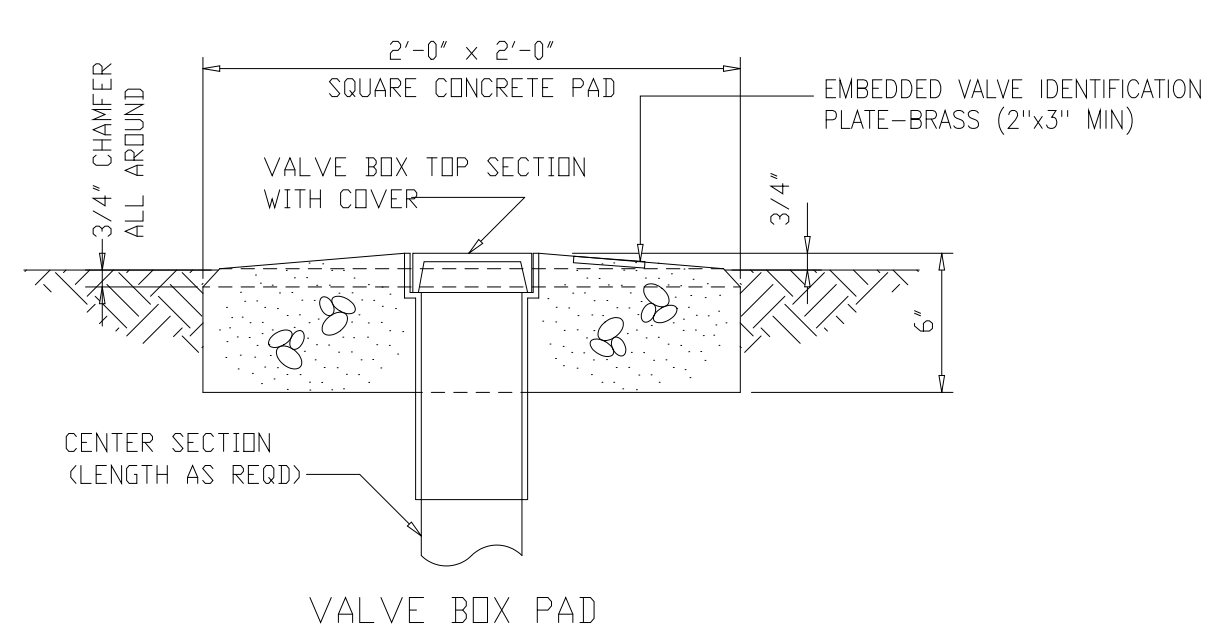


SILT FENCE

SECTION A

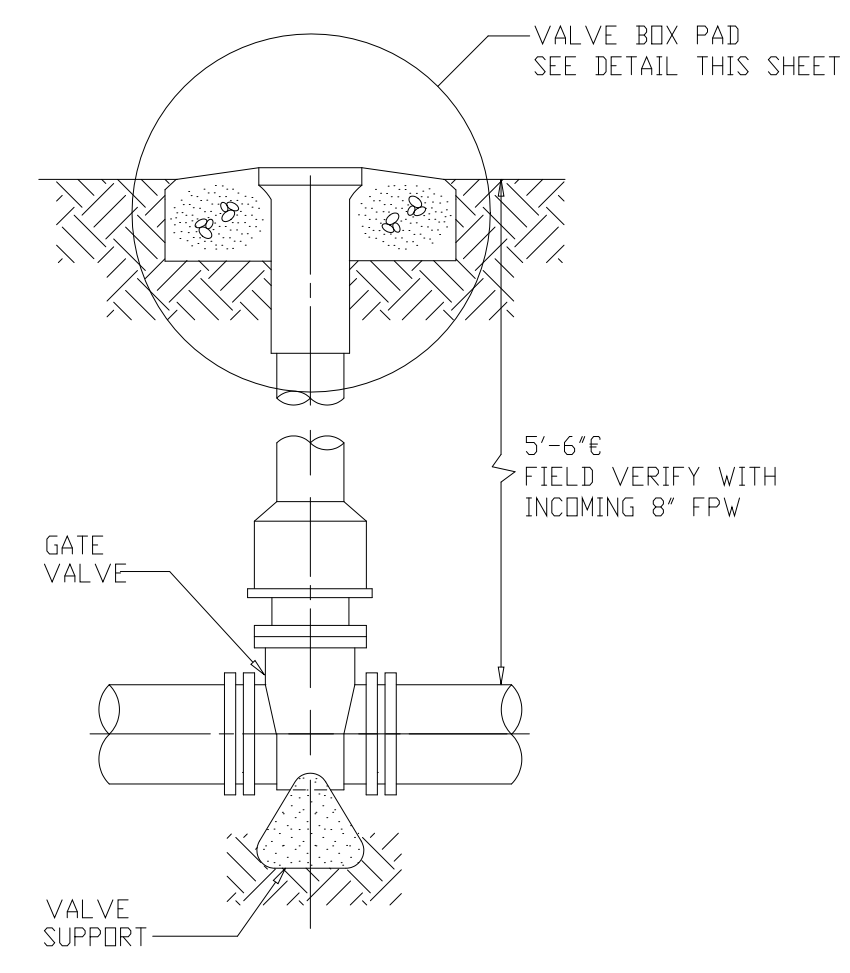
DETAIL	2
NTS	STD

NTS	C-103
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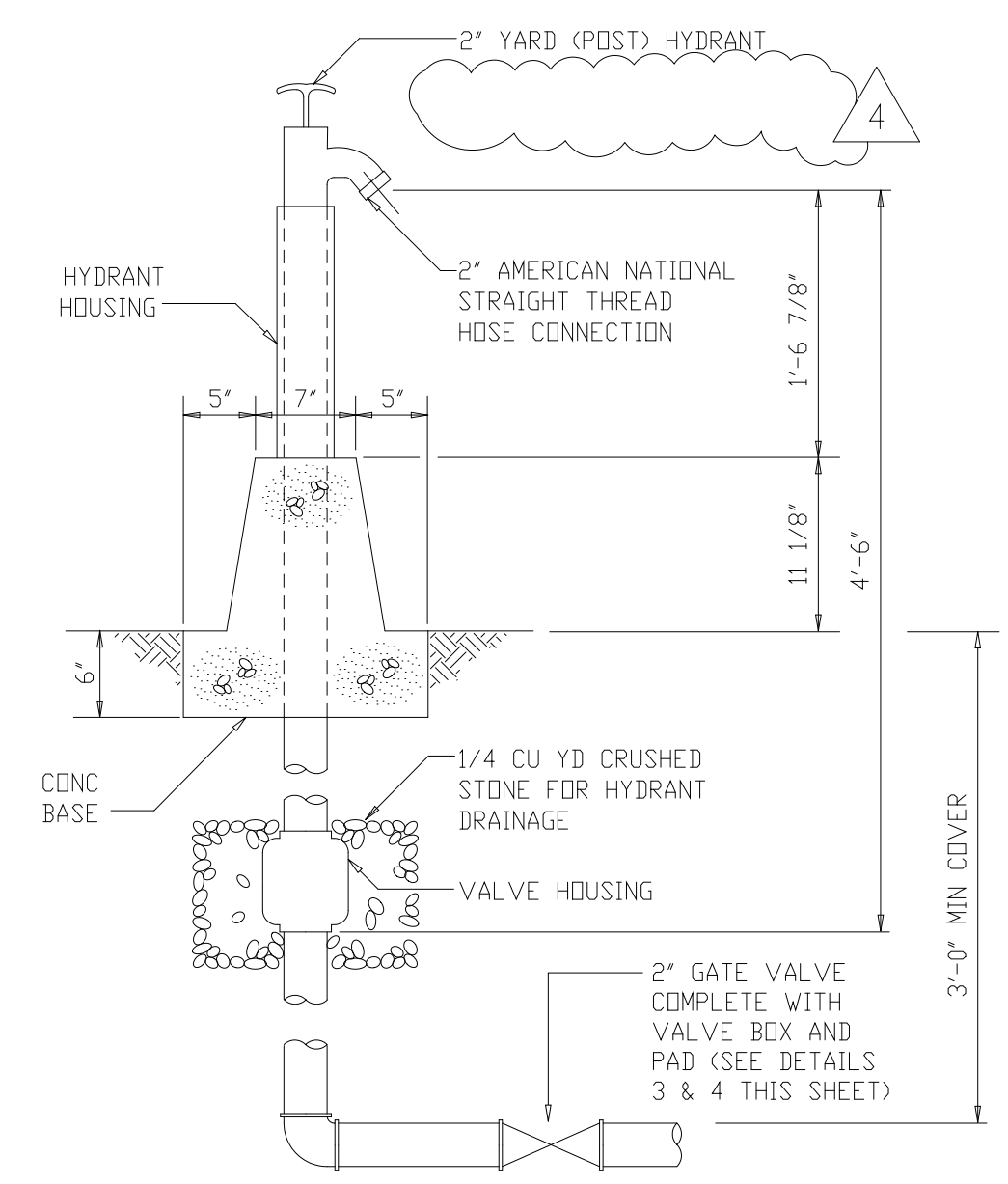
VALVE BOX PAD

DETAIL	3
NTS	STD



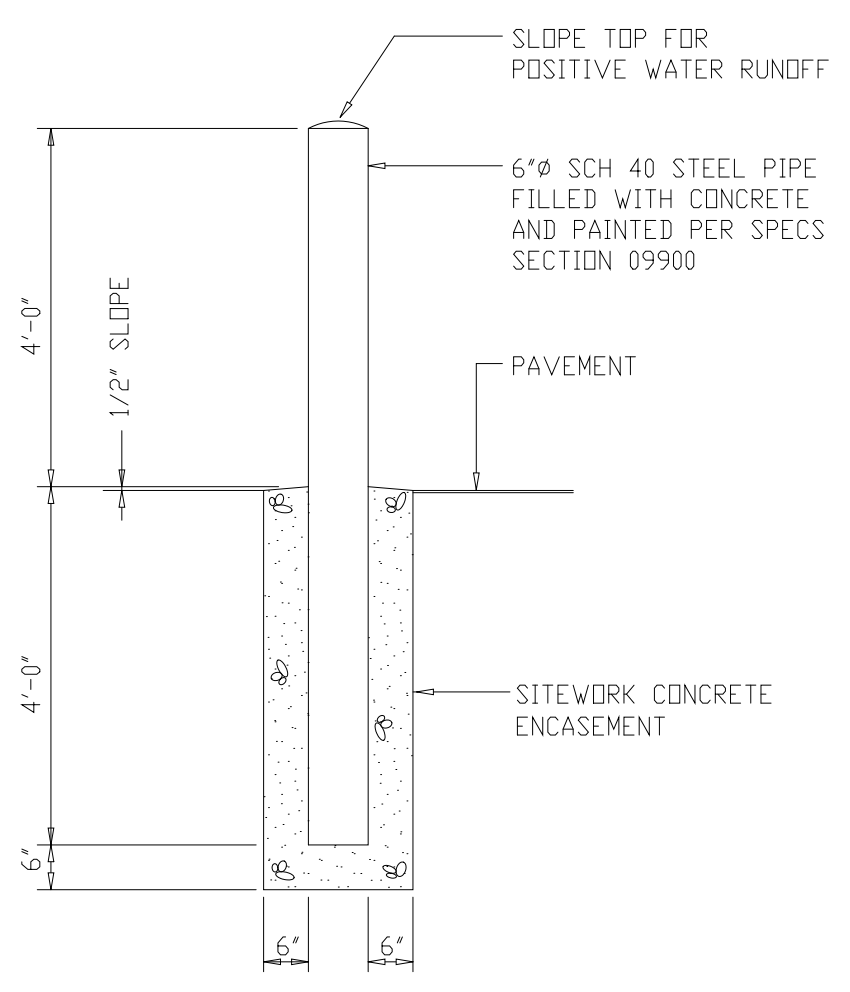
VALVE BOX

DETAIL	4
NTS	STD



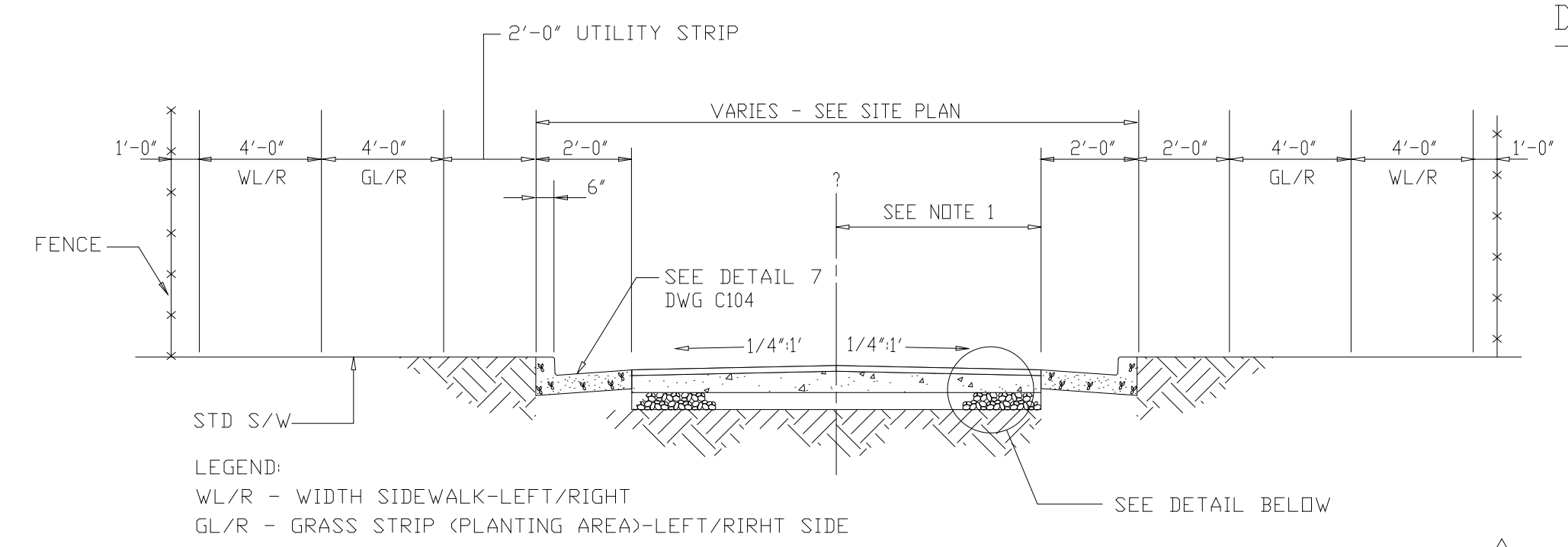
YARD HYDRANT

DETAIL	5
NTS	STD



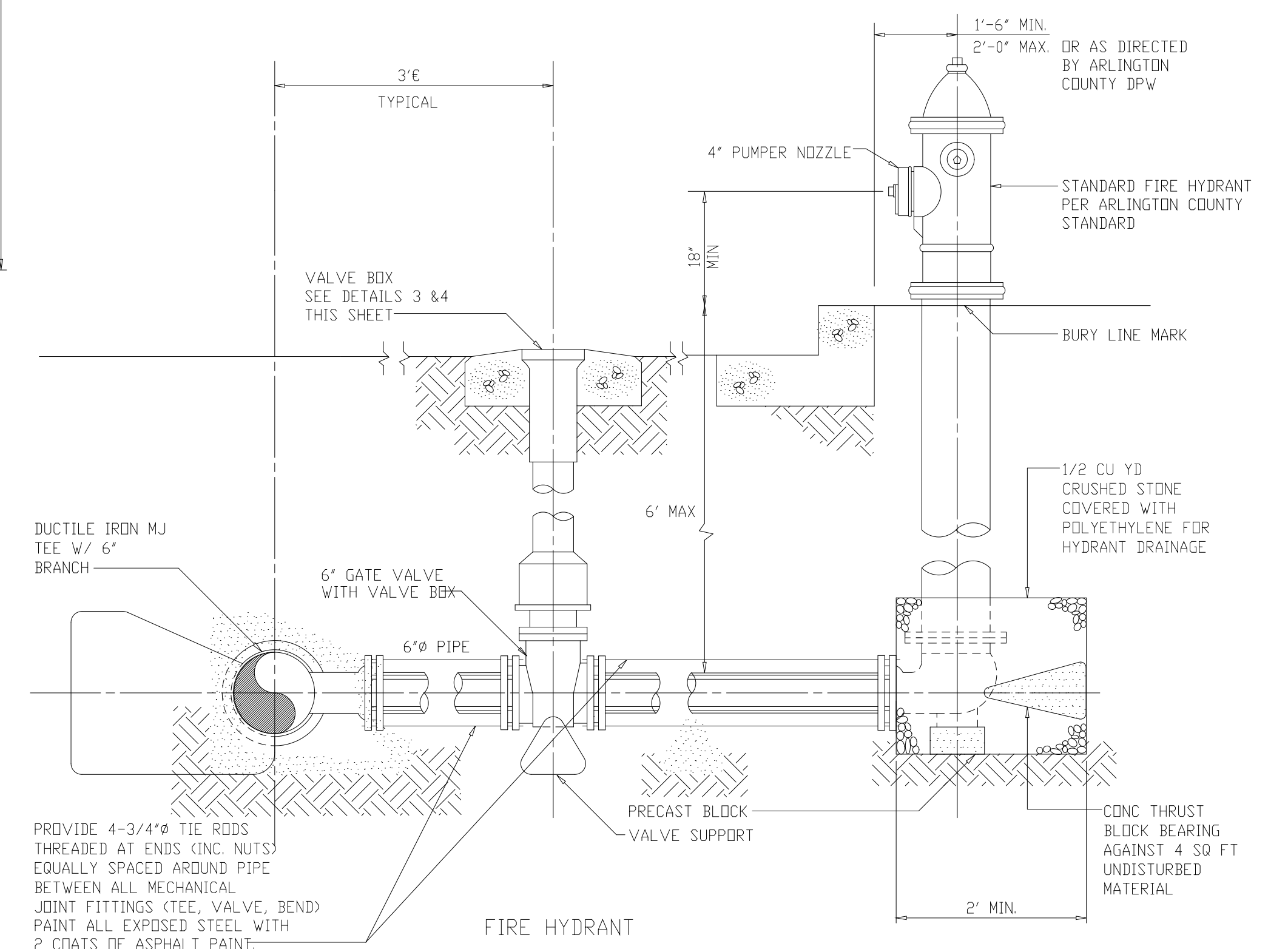
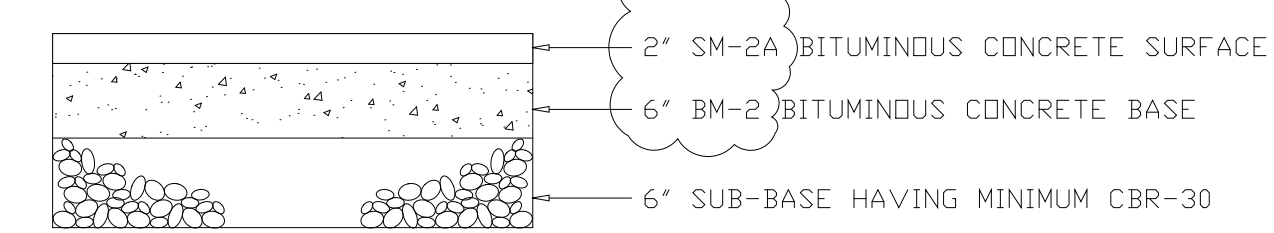
BOLLARD

DETAIL	6
NTS	STD



TYPICAL ROADWAY/SIDEWALK WITH PLANTING STRIP

DETAIL	7
NTS	STD



FIRE HYDRANT

DETAIL	9
NTS	STD

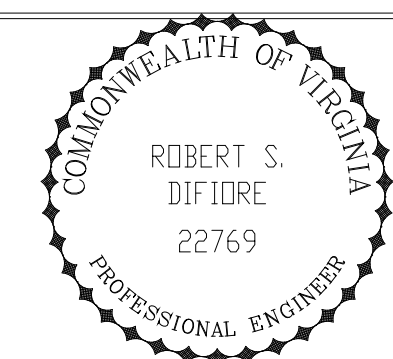
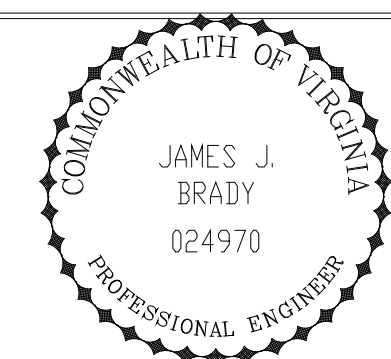
- NOTES:
1. WHEN THERE IS A DIFFERENCE IN ELEVATION BETWEEN THE RIGHT SIDE AND LEFT SIDE CURB AND GUTTER, THE CROWN OF THE STREET SHALL BE NO CLOSER THAN 8' FROM THE EDGE OF THE GUTTER ON THE HIGH SIDE.
 2. MATERIAL COLLECTED BY SILT FENCE SHALL BE CLEANED WEEKLY, MIN.
 3. ALL YARD HYDRANTS SHALL BE PROVIDED WITH ARLINGTON COUNTY STANDARD "NPW-DO NOT DRINK, - NOT SUITABLE FOR DRINKING" TAGS. COORDINATE WITH ARLINGTON COUNTY.

RECORD DRAWING

FILED IN: 93-02-WPC, DWG C103, BY: MATT, REF: FILE # 1026

NO.	ISSUED FOR	DATE	BY	APPROVED
4	RECORD DRAWING	4-99	MKS	
3	SIDEWALK DTLS / AMEND NO. 5 MISC	4-97	ASG	
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

DESIGNED	H&S
DRAWN	D.G.M.
CHECKED	R.N.C.
PROJ. ENGR.	A.A.B.
	J.J.B.



HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

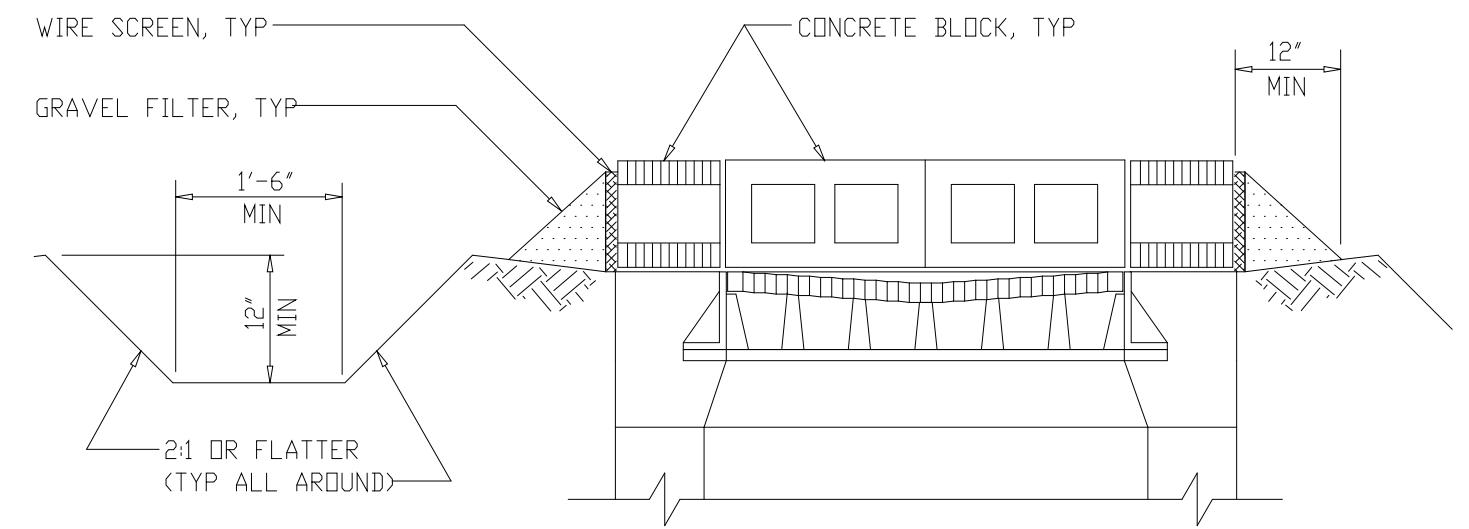
ARLINGTON COUNTY, VIRGINIA
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

SITEWORK
 CIVIL
 MISCELLANEOUS SITEWORK
 PLANS, SECTIONS, AND DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER C103
	SHEET 34 OF 199

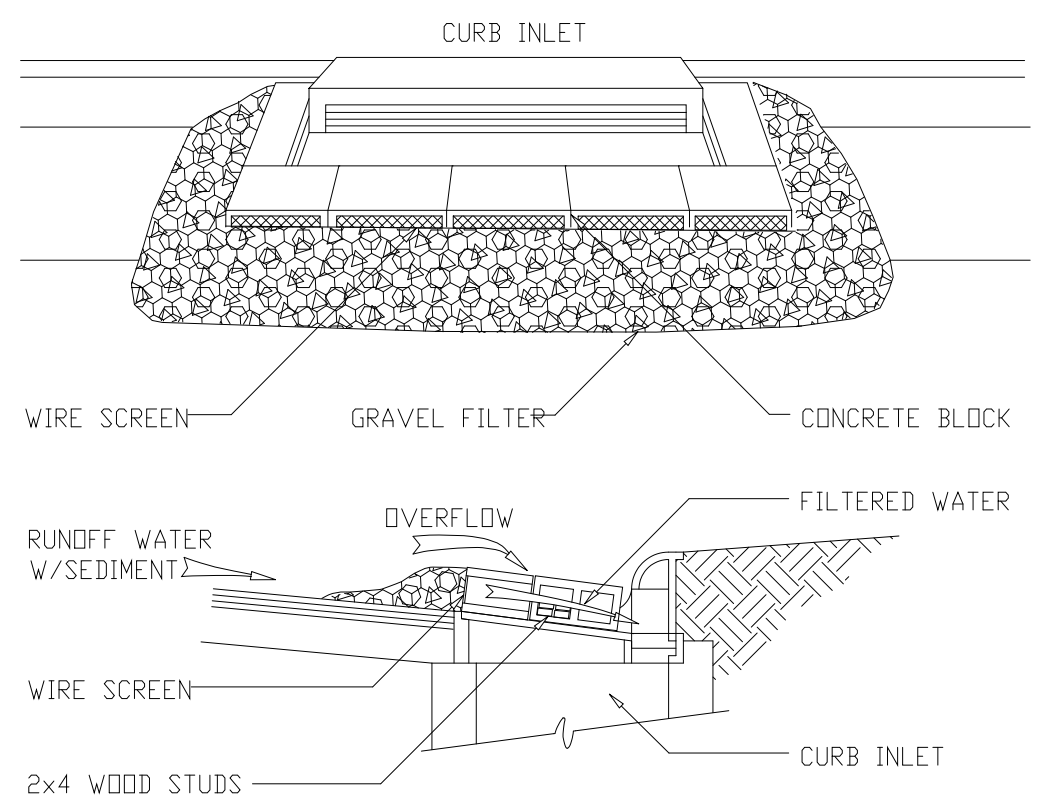
NOTES:

1. EXPANSION JOINTS IN STANDARD CURB AND GUTTER SHALL BE 40' APART.
2. A 3/4" (MIN) DEPTH SCORED JOINT SHALL BE PLACED AS SHOWN ON DETAIL.



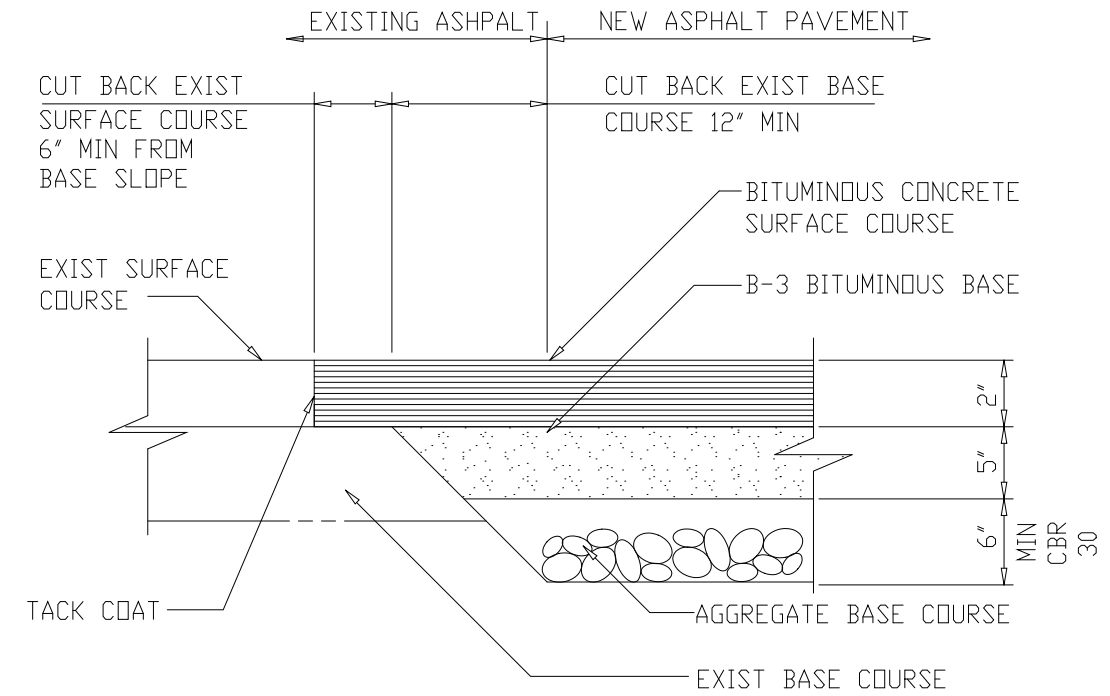
YARD INLET EROSION CONTROL
(REQUIRED ON ALL EXISTING YARD INLETS DURING CONSTRUCTION)

DETAIL	1
NTS	STD



CURB INLET SEDIMENT CONTROL
(REQUIRED ON ALL EXISTING CURB INLETS DURING CONSTRUCTION)

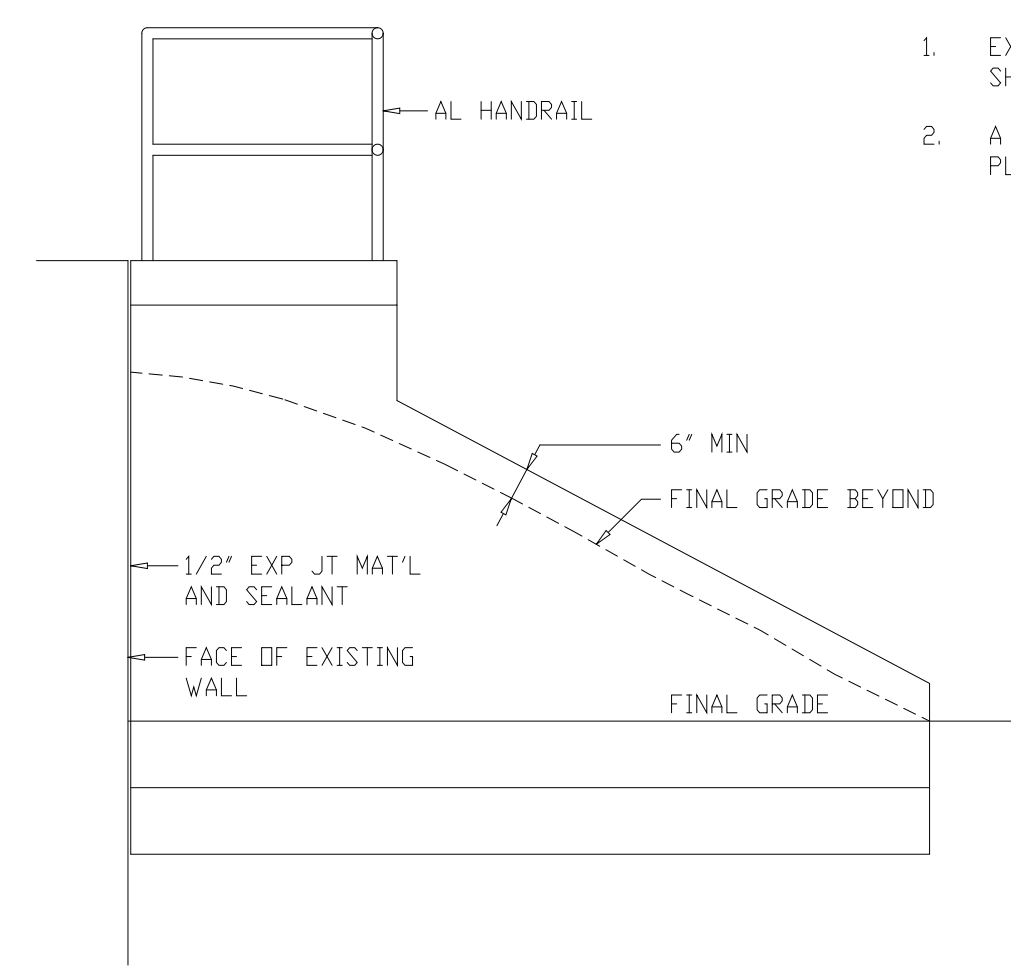
DETAIL	2
NTS	STD



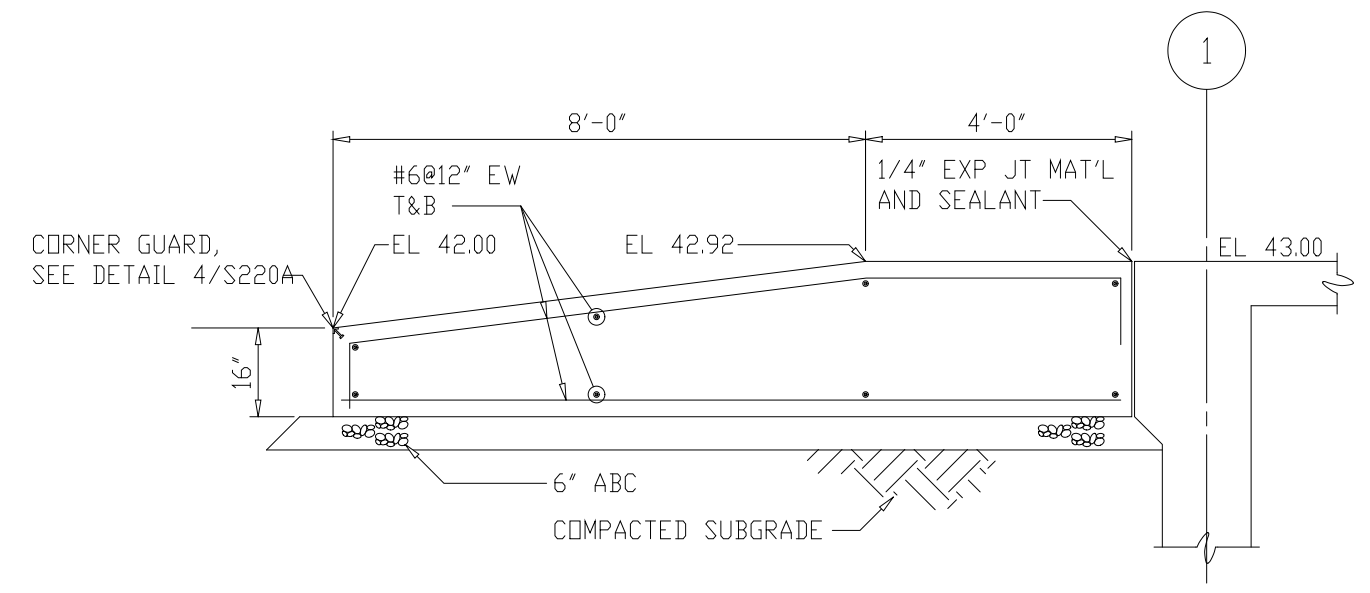
NOTE: ALL NEW ASPHALT PAVEMENT SHALL BE PLACED TO THE THICKNESSES INDICATED ABOVE.

TYPICAL PAVEMENT JUNCTION

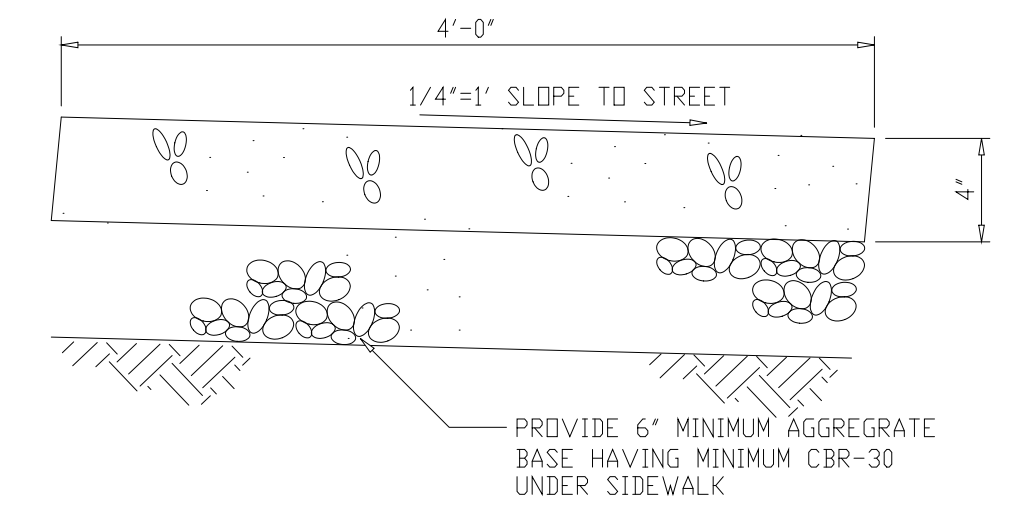
DETAIL	3
NTS	STD



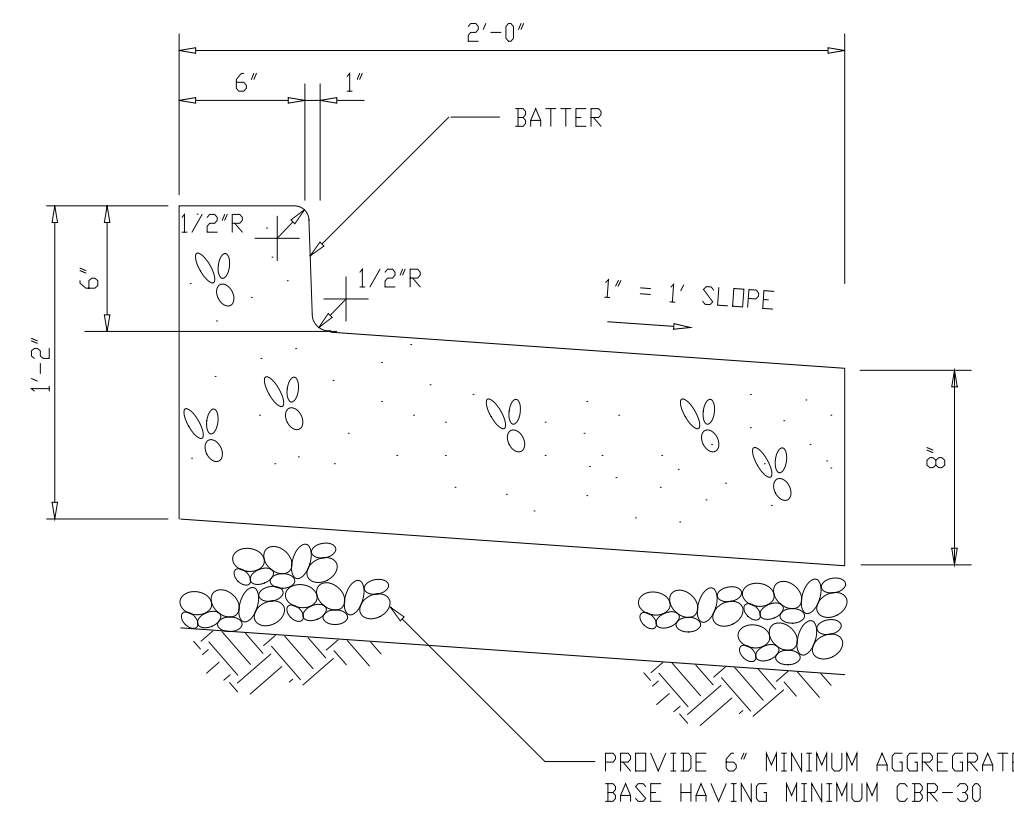
SECTION A
3/8"=1'-0" C-104



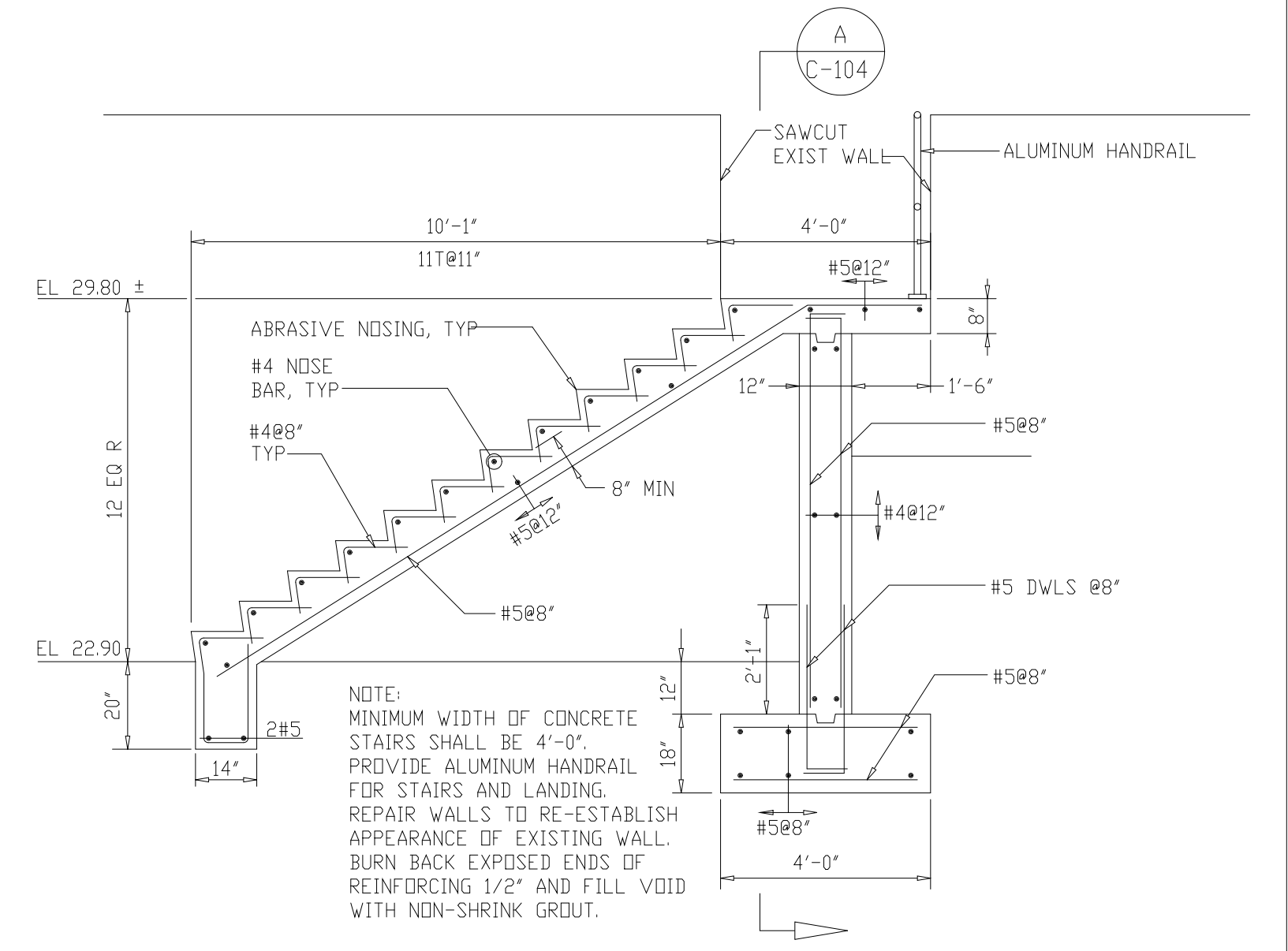
DETAIL 9
3/8"=1'-0" C-102



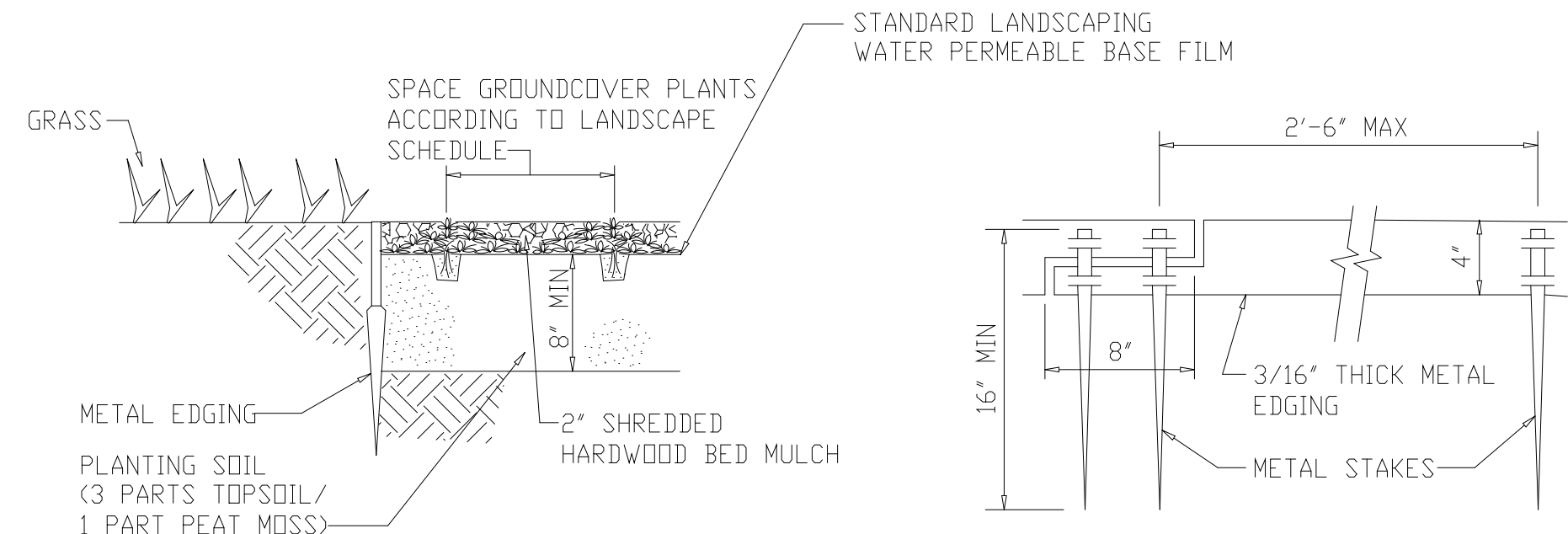
(S4) ARLINGTON COUNTY STANDARD CONCRETE SIDEWALK



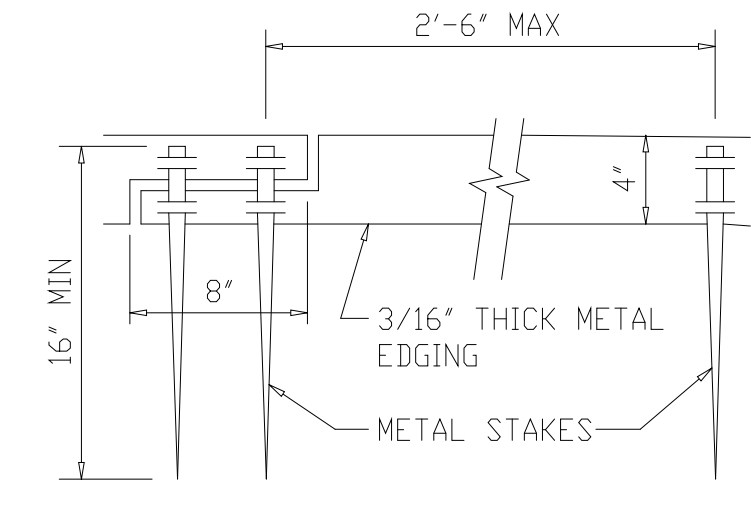
(C-2R) ARLINGTON COUNTY STANDARD REVERSE PITCH CURB AND GUTTER



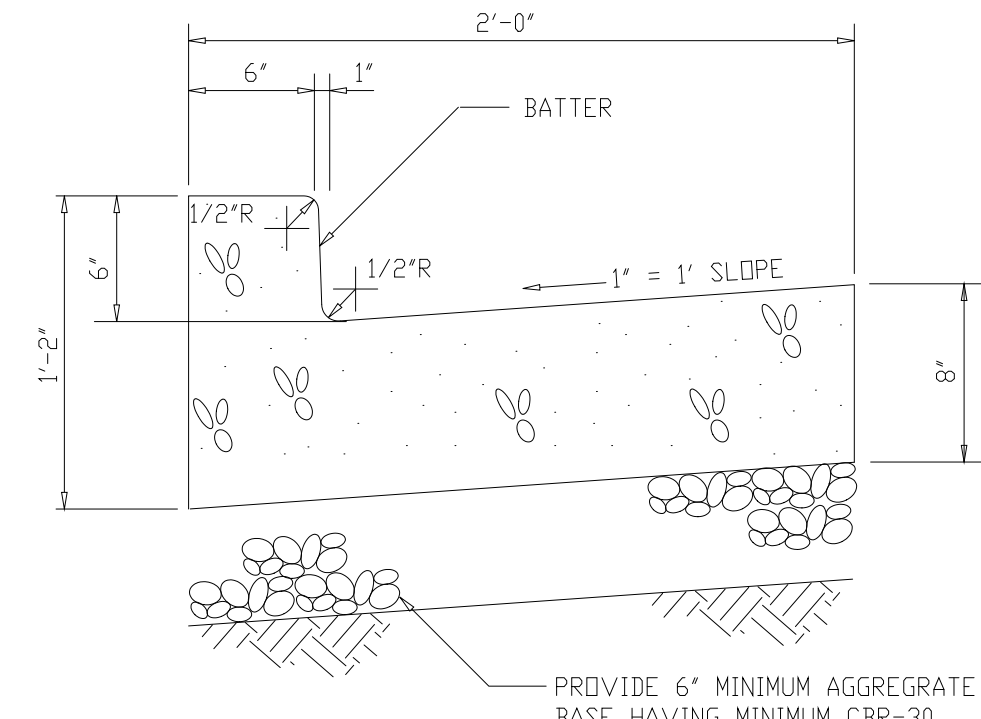
DETAIL 4
3/8"=1'-0" C102



DETAIL 5
NTS STD

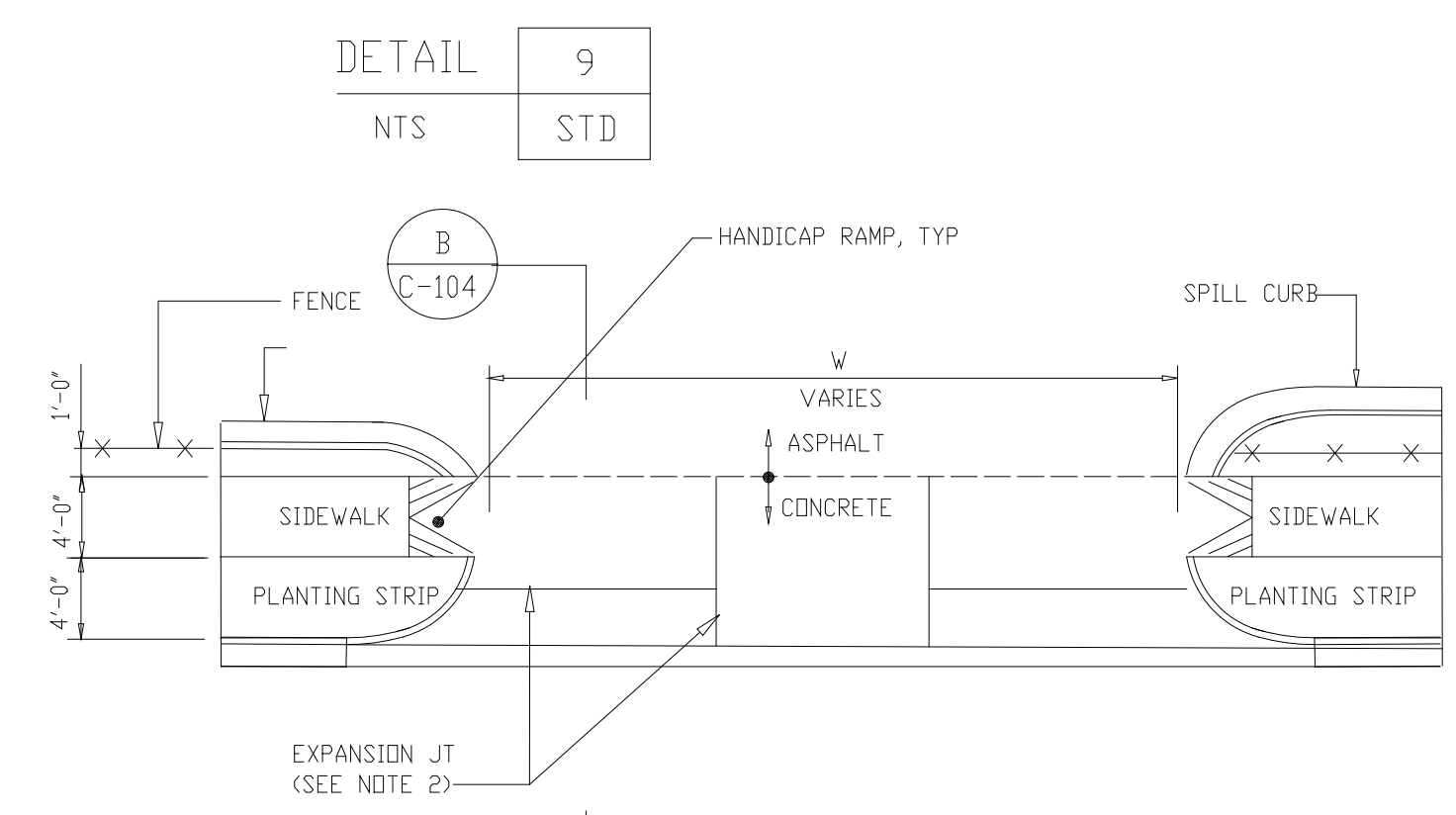


DETAIL 6
NTS STD



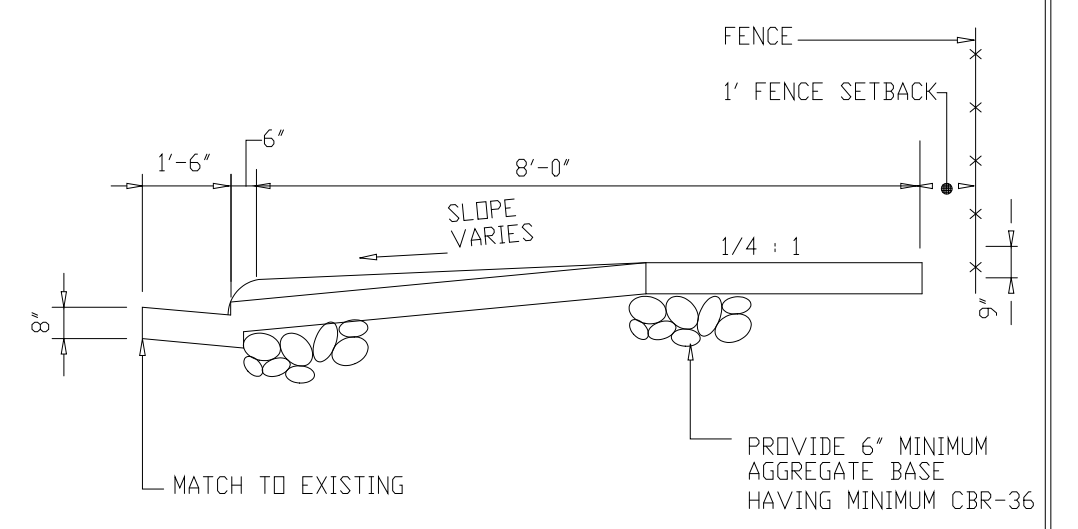
(C2) ARLINGTON COUNTY STANDARD CURB AND GUTTER (SEE NOTE 1)

DETAIL 7
NTS STD



CONCRETE DRIVEWAY ENTRANCE/EXIT AT SOUTH EADS

DETAIL 8
NTS STD



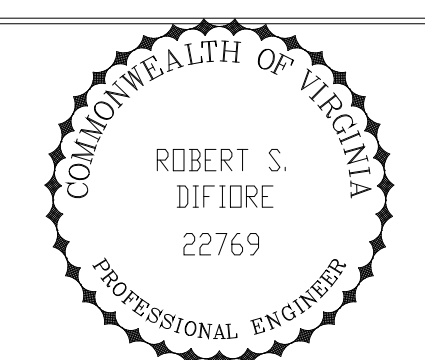
CONCRETE DRIVEWAY ENTRANCE/EXIT

SECTION B
NTS C-104

RECORD DRAWING

PLT: 01/20/2010 10:30am FILE: H:\BIB\A\A\Eng\Concrete\asw\asw1025-01.dwg by: MNTS MSF FILE: 004

DESIGNED	E.T.M.
DRAWN	P.G.M.
CHECKED	R.N.C.
PROJ.ENGR.	A.A.B.
APPROVED	



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Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

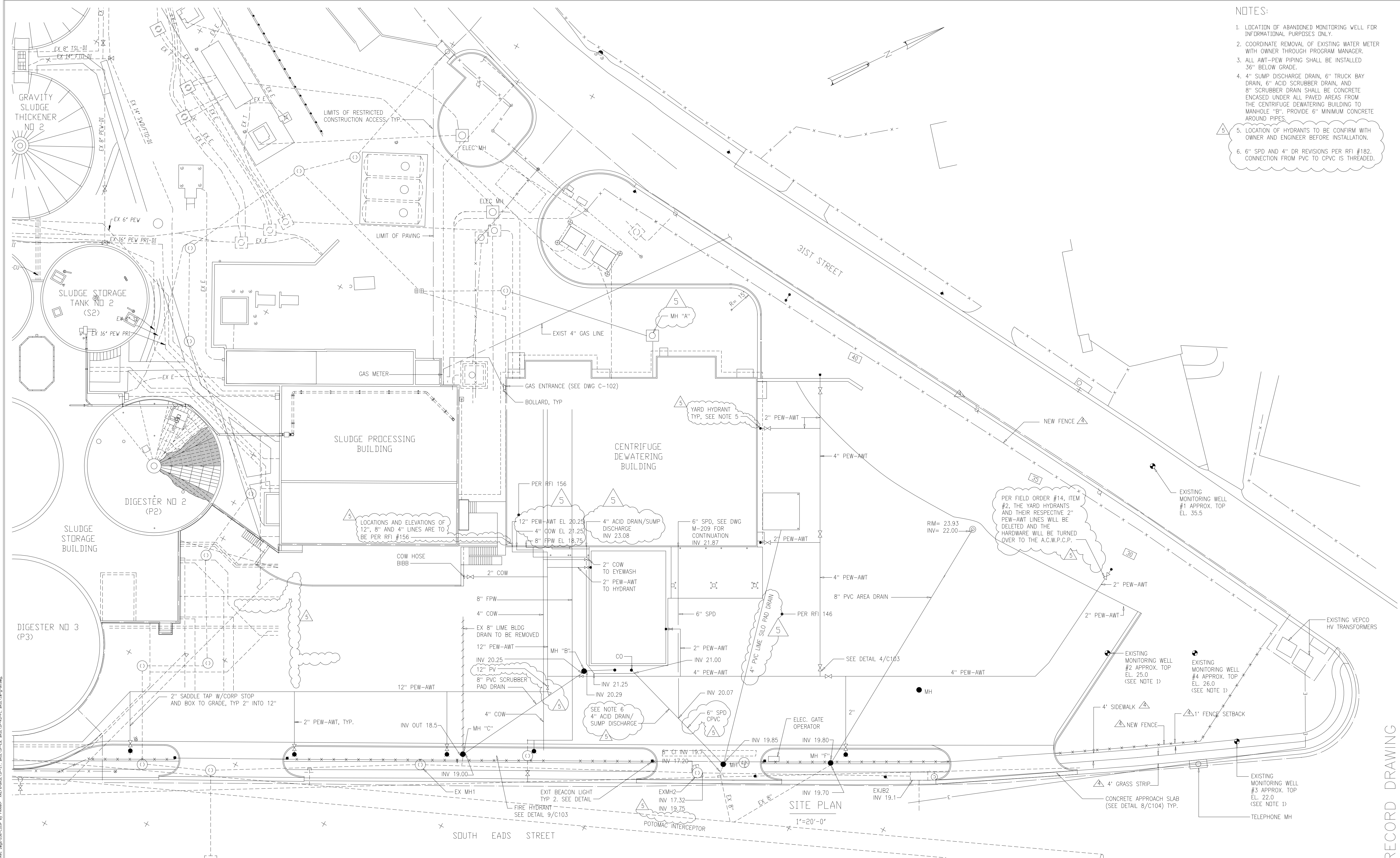
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

SITWORK
CIVIL
MISCELLANEOUS SITWORK
STANDARD DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	C-104
	SHEET	35 OF 199

NOTES:

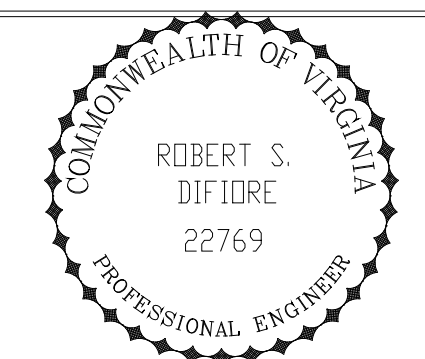
1. LOCATION OF ABANDONED MONITORING WELL FOR INFORMATIONAL PURPOSES ONLY.
2. COORDINATE REMOVAL OF EXISTING WATER METER WITH OWNER THROUGH PROGRAM MANAGER.
3. ALL AWT-PEW PIPING SHALL BE INSTALLED 36" BELOW GRADE.
4. 4" SUMP DISCHARGE DRAIN, 6" TRUCK BAY DRAIN, 6" ACID SCRUBBER DRAIN, AND 8" SCRUBBER DRAIN SHALL BE CONCRETE ENCASED UNDER ALL PAVED AREAS FROM THE CENTRIFUGE DEWATERING BUILDING TO MANHOLE "B". PROVIDE 6" MINIMUM CONCRETE AROUND PIPES.
5. LOCATION OF HYDRANTS TO BE CONFIRM WITH OWNER AND ENGINEER BEFORE INSTALLATION.
6. 6" SPD AND 4" DR REVISIONS PER RFI #182. CONNECTION FROM PVC TO CPVC IS THREADED.



RECORD DRAWING

5	RECORD DRAWINGS	6-99	FXP
4	SIDEWALK DTLS / AMEND NO. 5 MISC	4-97	ASG
3	WPB APPROVAL - LAND APP. REDES.	4-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
NO.	ISSUED FOR	DATE	BY

DESIGNED	ASG
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



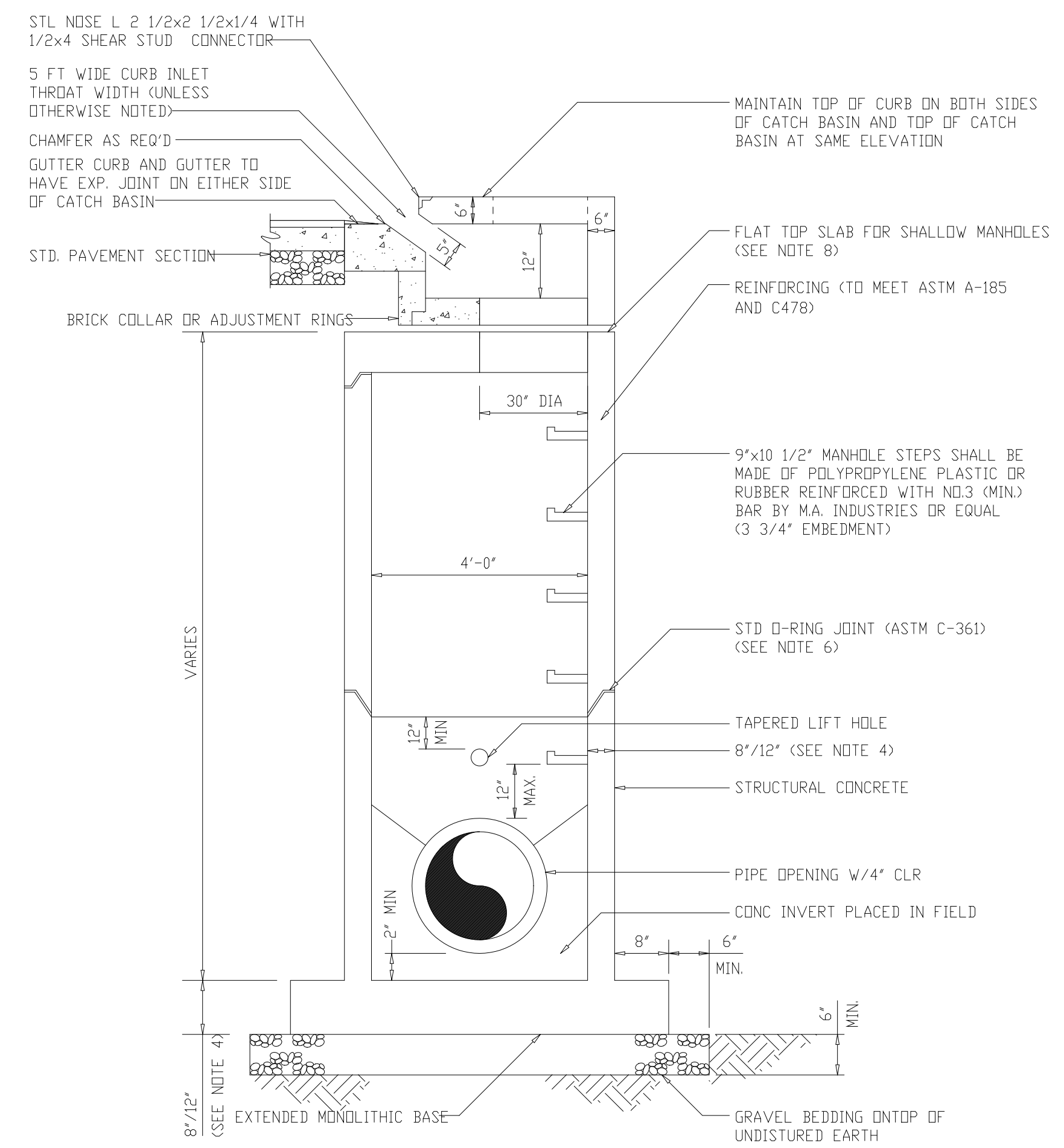
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

SITWORK
CIVIL
PROCESS YARD PIPING
AND STAKING PLAN

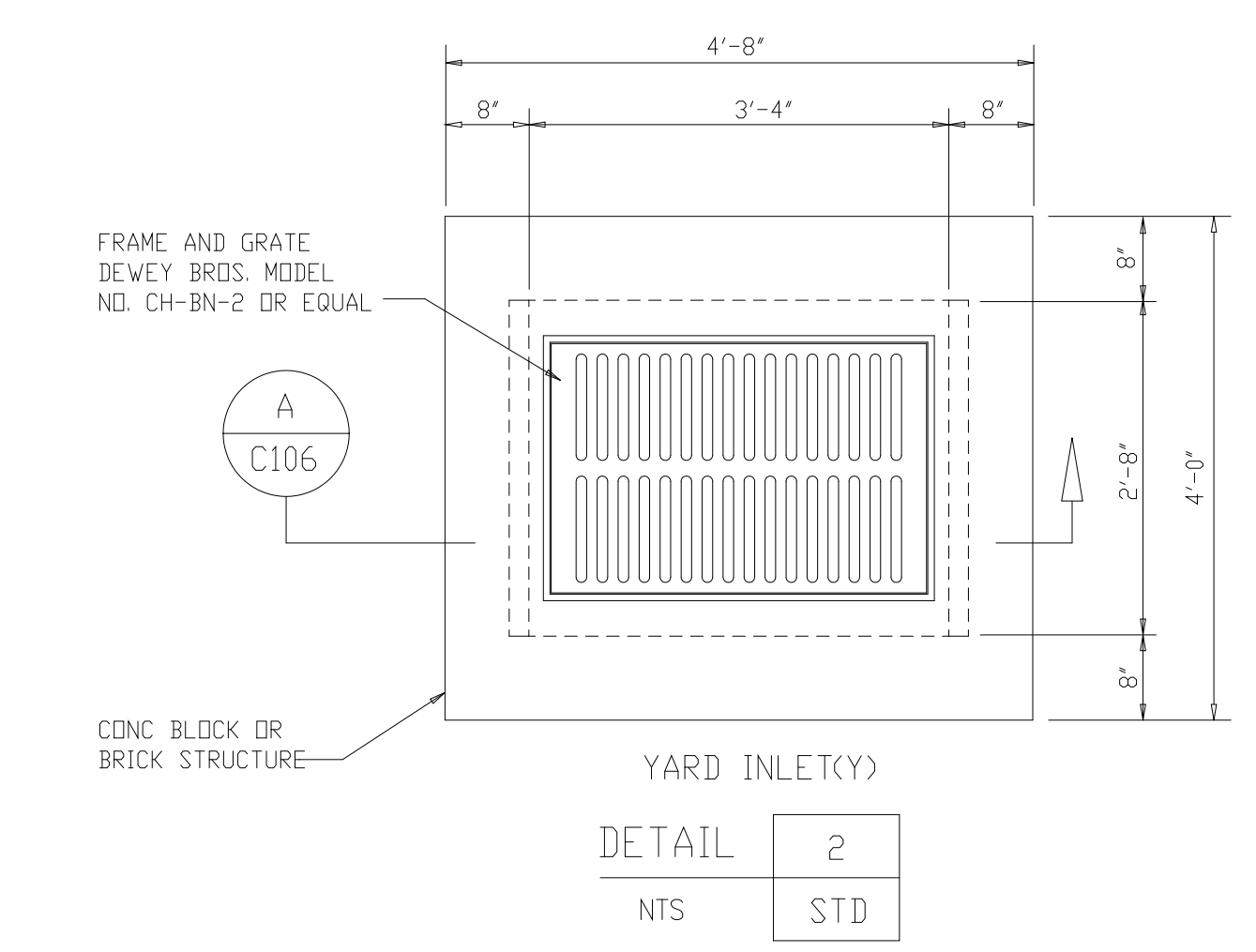
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	C-105
	SHEET	36 OF 199

- NOTES:**
1. CONCRETE THRUST BLOCKS/ARCH/ENCASEMENTS, ETC., IF REQUIRED, SHALL BE FORMED USING PLYWOOD TO PROVIDE REQUIRED SHAPE.
 2. PAINT ALL EXPOSED STEEL WITH 2 COATS OF ASPHALT PAINT.
 3. STRUCTURAL CONCRETE TO BE USED THROUGHOUT.
 4. ALL CURB INLETS AND YARD INLETS OVER 3'-6" IN DEPTH TO BE PROVIDED WITH STEPS AT 1'-4" O.C., STEPS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS. FOR WALLS 12'-0" IN HEIGHT OR LESS USE 8" WALLS AND BOTTOM SLAB. FOR WALLS OVER 12'-0" USE 12" WALLS AND BOTTOM SLAB.
 5. MANHOLES, CATCH BASINS AND YARD INLETS SHALL MEET ALL REQUIREMENTS OF ASTM C-478.
 6. TONGUE AND GROOVE JOINT SEALER MAY BE USED IN LIEU OF "O-RING JOINT".
 7. OTHER COMBINATIONS OF RISER AND TAPER SECTIONS MAY BE USED AS APPROVED BY THE ENGINEER TO ACHIEVE THE REQUIRED HEIGHT.
 8. RISER AND/OR ECCENTRIC CONE SECTION MAY BE REPLACED WITH AN ALTERNATE "FLAT TOP SLAB" FOR USE IN SHALLOW MANHOLES, AS APPROVED BY ENGINEER.
 9. STANDARD MANHOLE DETAIL NOT SHOWN. MANHOLES SHALL MEET OR EXCEED ARLINGTON COUNTY DESIGN STANDARDS.

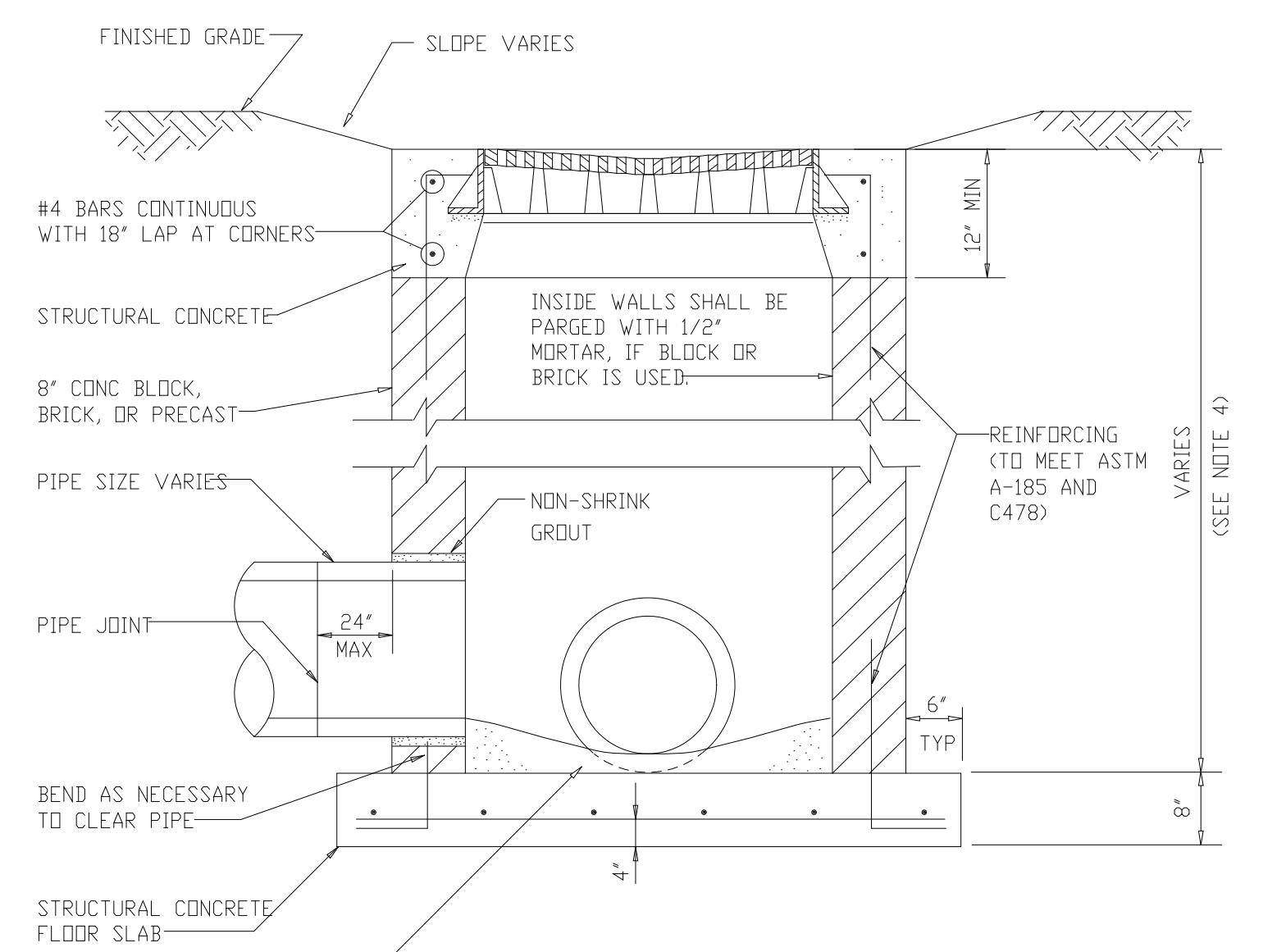


STORM SEWER PRECAST CATCH BASIN (C)
(PER ARLINGTON COUNTY STANDARDS - SEE GENERAL NOTES)

DETAIL	1
NTS	STD



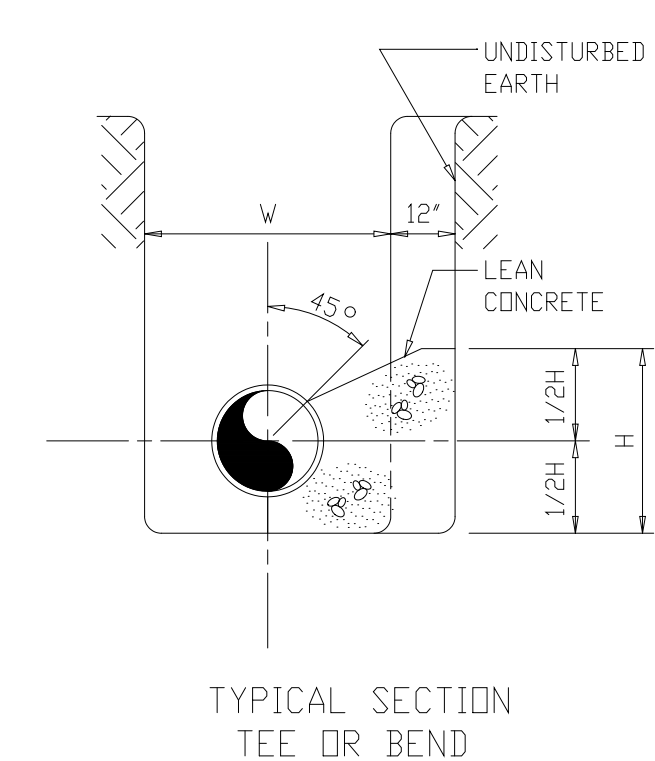
DETAIL	2
NTS	STD



YARD INLET (Y)
SECTION A
NTS C106

NOTE:
YARD INLET MAY BE PRECAST CONCRETE - SEE SPECIFICATIONS
CELLS OF CONCRETE BLOCK SHALL BE FILLED WITH CONCRETE

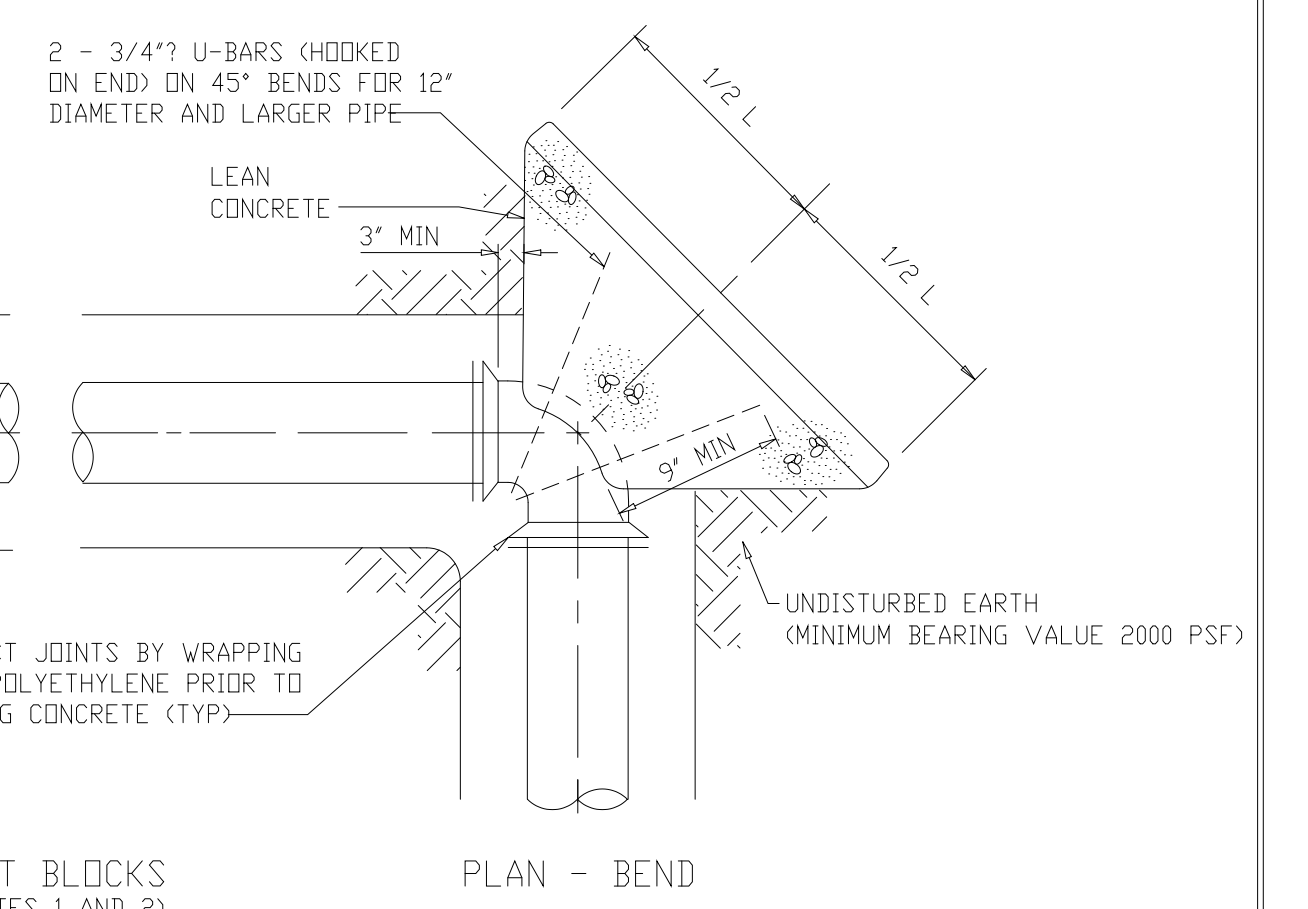
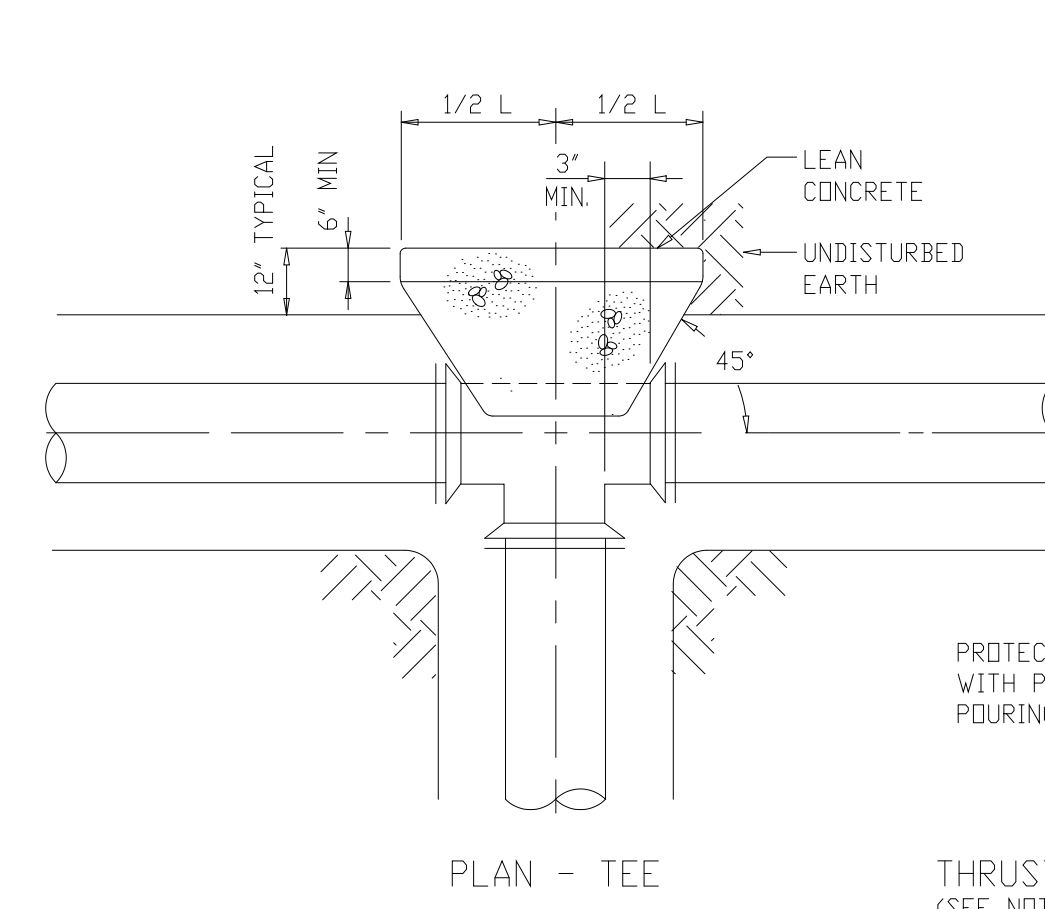
AMEND #2



CONCRETE THRUST BLOCK SCHEDULE*

PIPE SIZE (IN)	BEND						DESIGN PRESSURE (PSI)**		
	90°/TEE		45°		22 1/2°				
4.0	2.5	2.8	2.0	2.1	1.6	1.5	1.6	1.0	150 MAX
6.0	2.5	2.8	2.0	2.1	1.6	1.5	1.6	1.0	150 MAX
8.0	3.4	3.7	2.5	2.7	2.0	1.9	1.8	1.4	150 MAX
12.0	4.3	6.0	3.4	4.0	2.5	2.8	2.1	2.0	150 MAX
15.0	5.0	8.0	4.1	5.2	4.1	3.7	2.9	2.6	150 MAX

* BASED ON SOIL BEARING STRENGTH OF 2000 PSF
** ADD WATER HAMMER ALLOWANCE
*** ALL THRUST BLOCK H&L DIMENSIONS ARE IN FEET



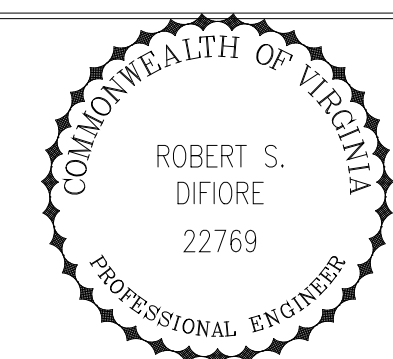
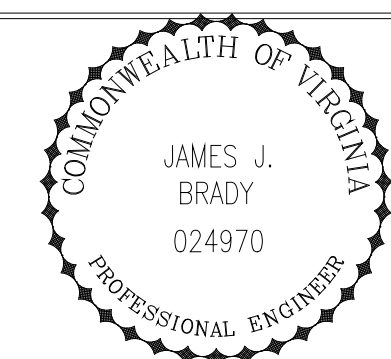
THRUST BLOCKS
(SEE NOTES 1 AND 2)

DETAIL	3
NTS	STD

RECORD DRAWING

PLOT: 1/10/2019 9:59:10 AM FILE: \\s3\msc\proj\1911\1911-0106-01\1911-0106-01.dwg BY: JMM/MP WSP FILE: WSP

DESIGNED	H&S
DRAWN	P.G.M.
CHECKED	R.N.C.
PROJ. ENGR.	A.A.B.
BY	J.J.B.

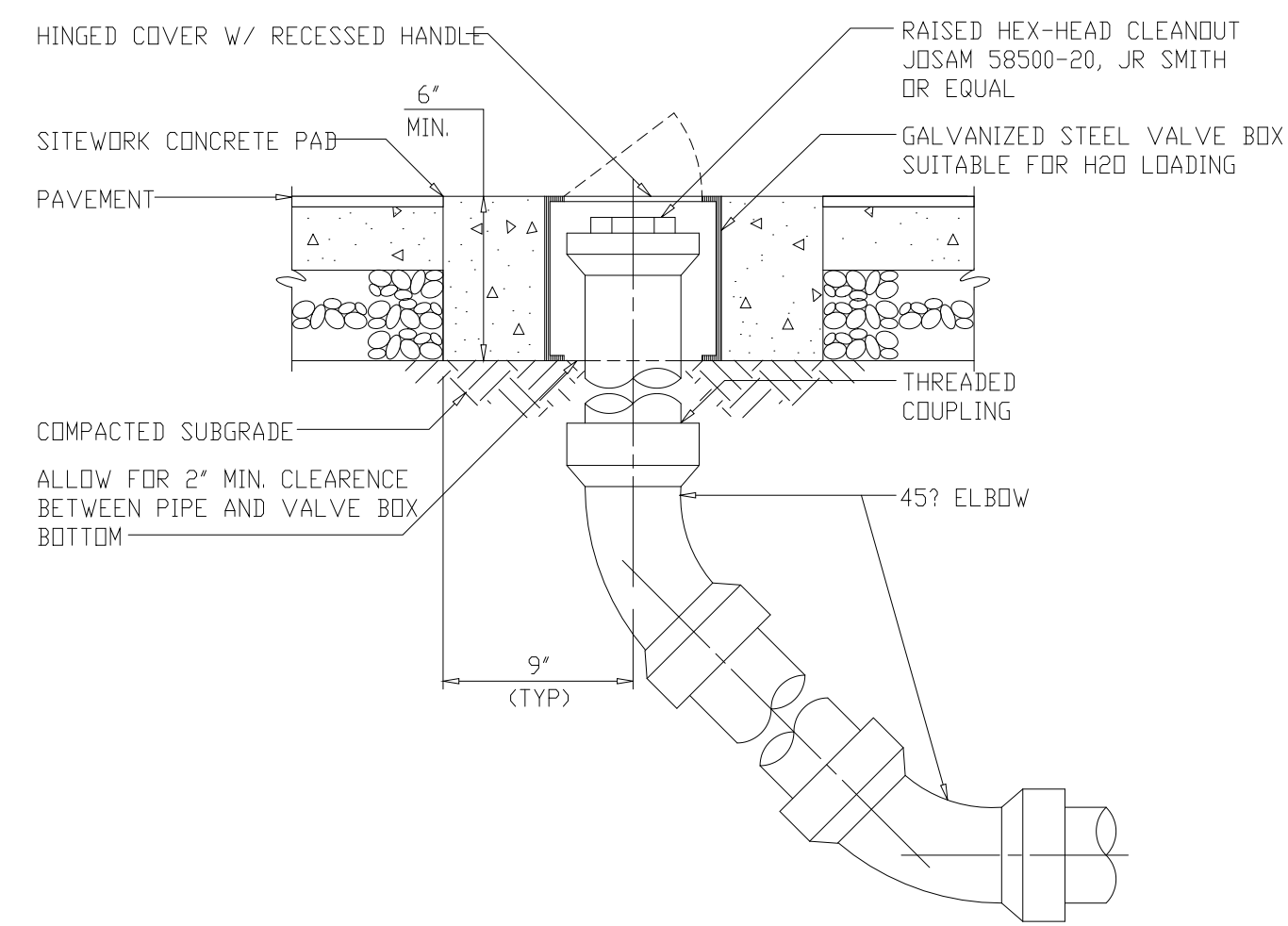


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UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

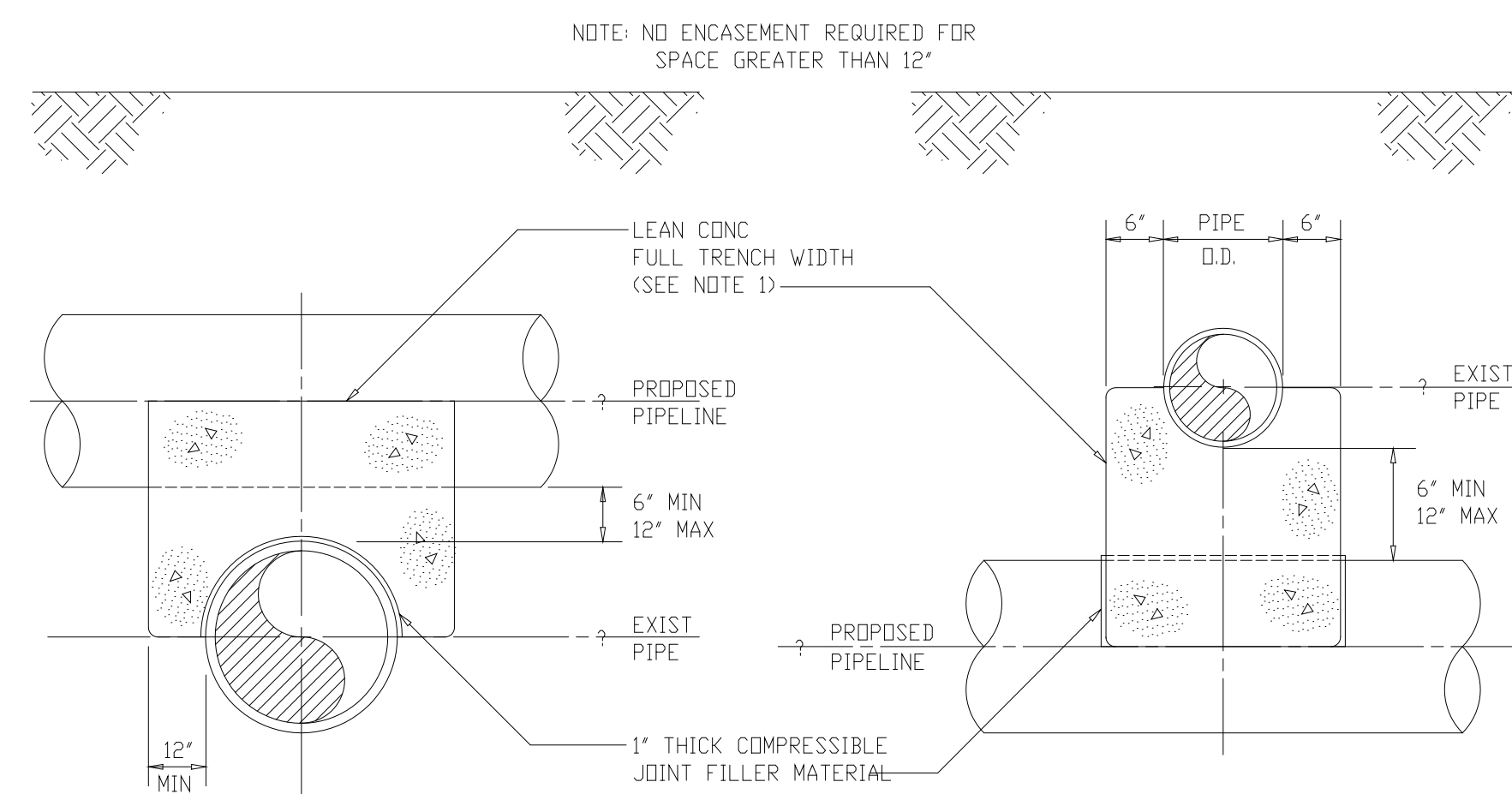
SITWORK
CIVIL
MISCELLANEOUS YARDWORK
STANDARD DETAILS - SHEET 1

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	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER C106
	SHEET 37 OF 199



YARD CLEANOUTS

DETAIL	1
NTS	STD



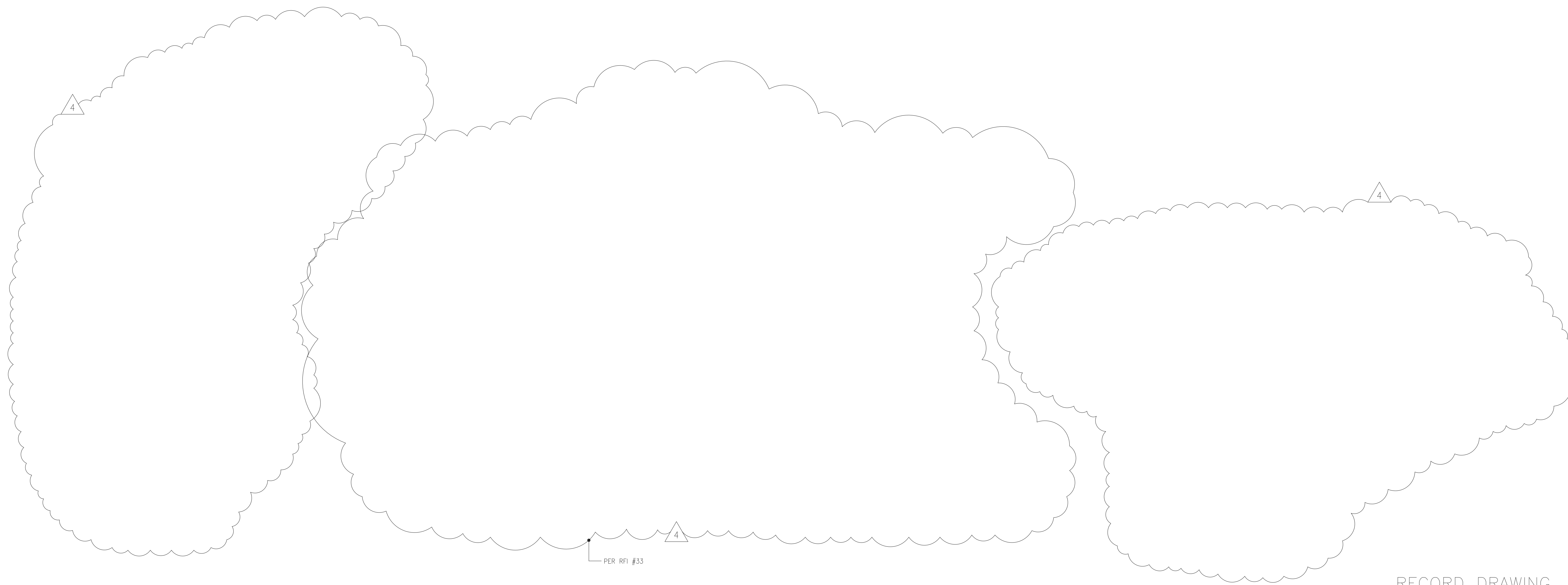
PROPOSED PIPELINE OVER EXIST PIPE

PROPOSED PIPELINE UNDER EXIST PIPE

DETAIL	2
NTS	STD

NOTES:

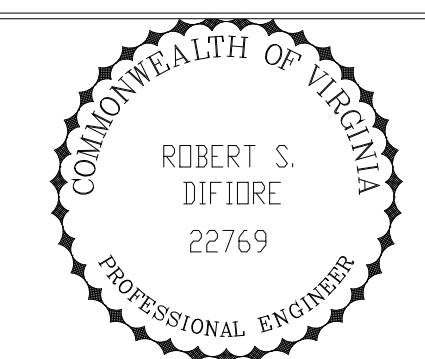
1. CONCRETE THRUST BLOCKS/ARCH/ENCASEMENTS, ETC., IF REQUIRED, SHALL BE FORMED USING PLYWOOD TO PROVIDE REQUIRED SHAPE.
2. CONTRACTOR SHALL COORDINATE WITH PROGRAM MANAGER AND ARLINGTON COUNTY WITH REGARD TO SCHEDULE AND INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ARLINGTON COUNTY SUFFICIENT LEAD TIME TO PROCURE REQUIRED MATERIALS.



RECORD DRAWING

PLOT: 10/24/94 10:00 AM FILE: H:\9302\WPC\9302-WPC-107.dwg BY: MHTS SHEET FILE: 1096

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DRAWN	P.G.M.		
CHECKED	R.N.C.		
PROJ. ENGR.	A.A.B.		
NO.	DATE	BY	APPROVED
4	4-99	MKS	
3	4-96	RSD	
2	9-94	JJB	
1	9-94	JJB	



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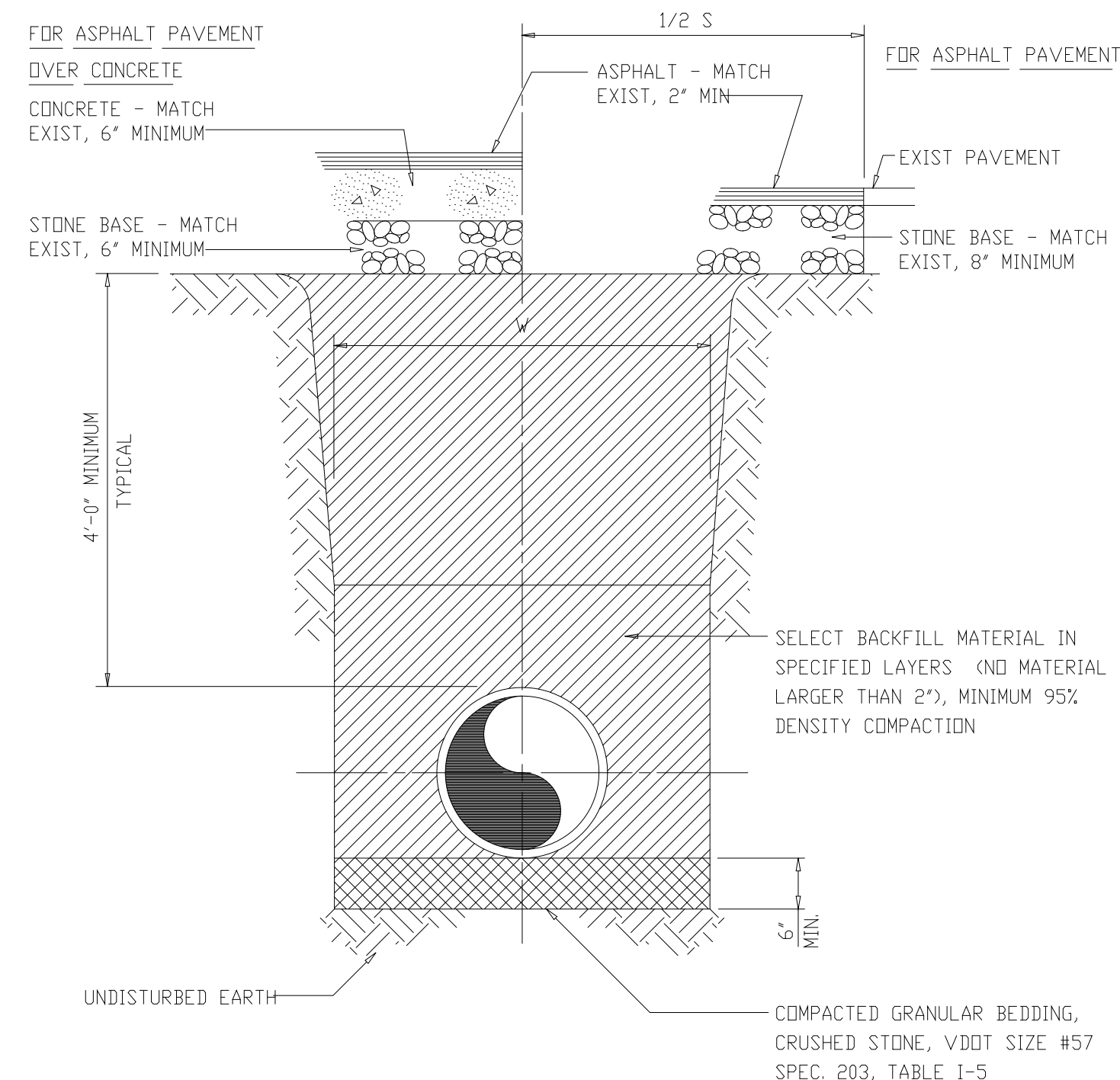
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

SITWORK
 CIVIL
 MISCELLANEOUS YARDWORK
 STANDARD DETAILS - SHEET 2

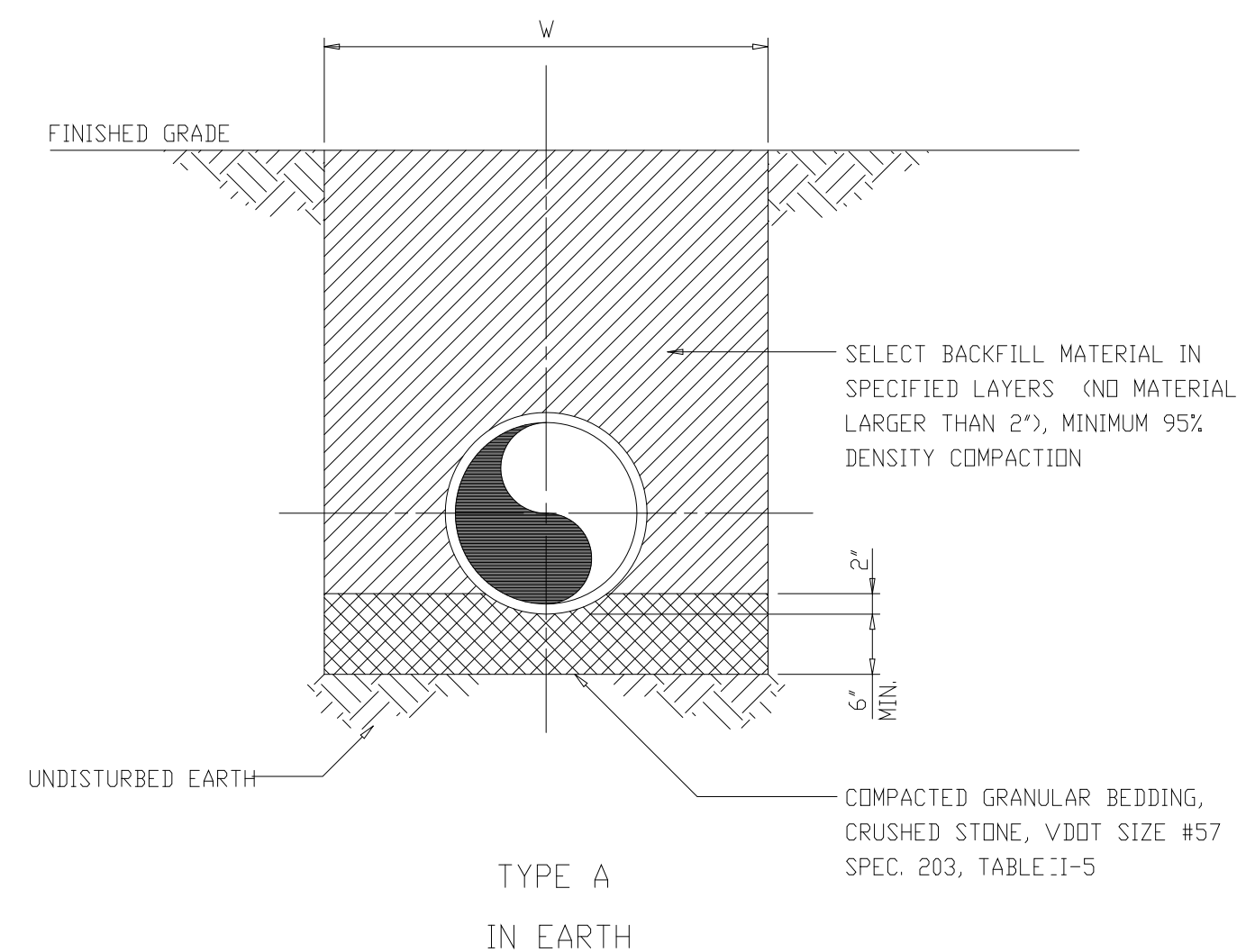
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	C-107
	SHEET	38 OF 199

NOTES

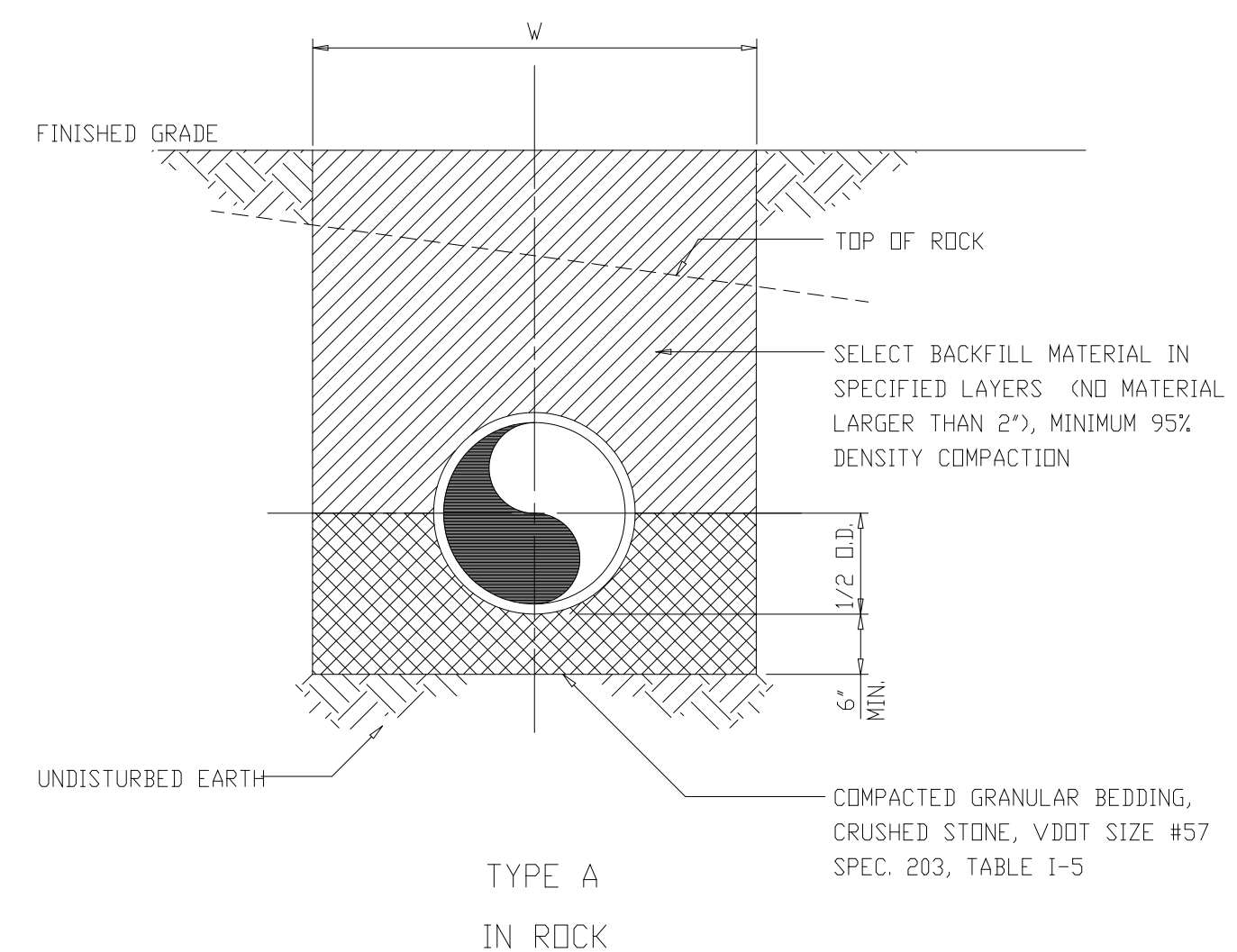
1. CONCRETE ENCASUREMENT SHALL BE FORMED USING PLYWOOD TO PROVIDE REQUIRED SHAPE.
2. ALL EXCAVATIONS AND TRENCHING SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE OSHA STANDARDS.



TYPICAL TRENCH
 DETAIL 1
 NTS STD

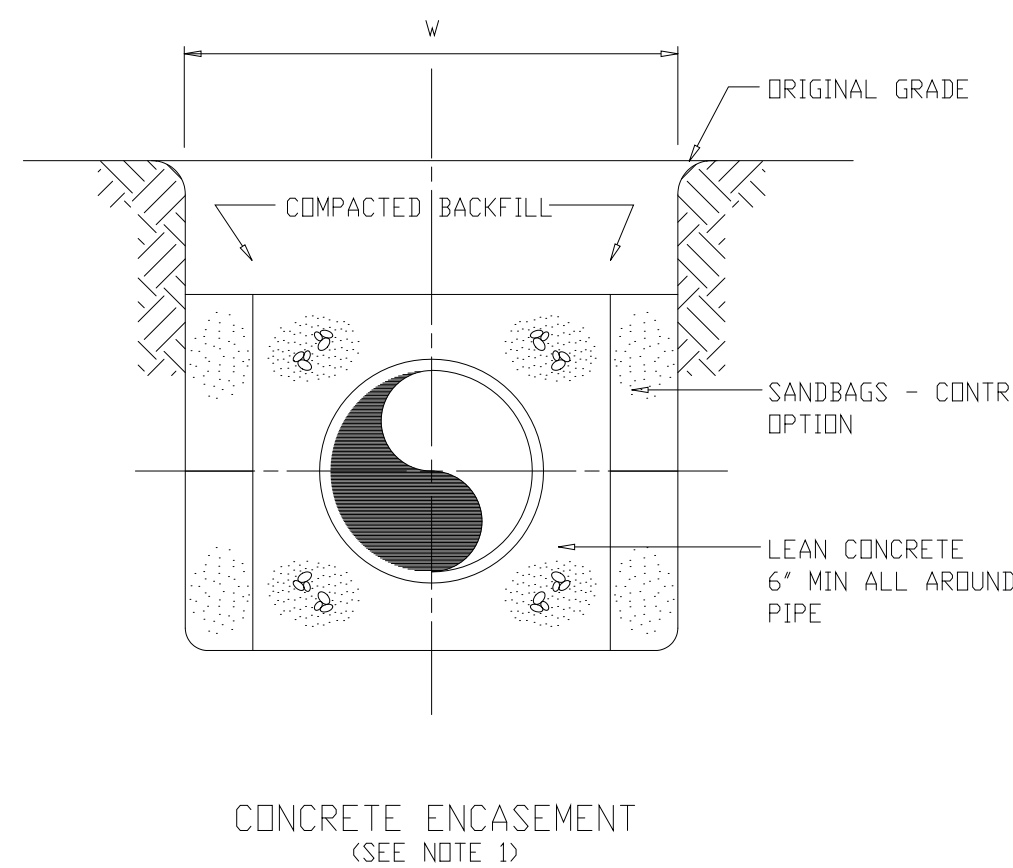


DETAIL 2
 NTS STD

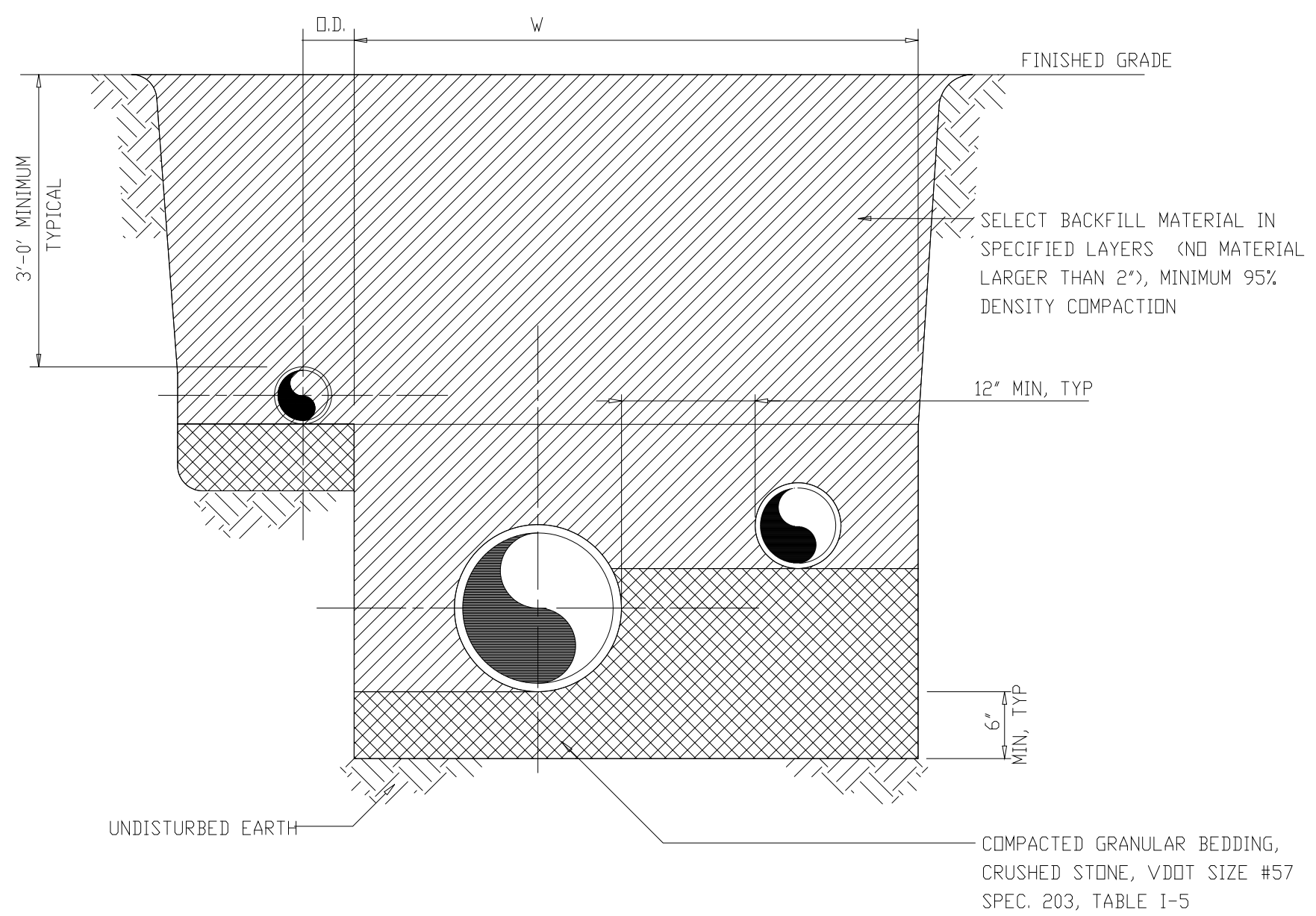


TRENCH EXCAVATION LIMITS		
INTERNAL DIAMETER OF PIPE	WIDTH OF TRENCH	
	MAX	W=MIN
4'-6"	3'-0"	2'-0"
8'-10"	3'-0"	2'-2"
12"	3'-9"	D.D.+2'
14'-16"	4'-2"	D.D.+2'
18"	4'-4"	D.D.+2'
20'-21"	4'-8"	D.D.+2'
24"	4'-11"	D.D.+2'
DEPTH OF CUT	S	
	MAXIMUM PAVEMENT REPLACEMENT WIDTH	
0-6'	S=W+4'	
>6-8'	S=W+8'	
>8-10'	S=W+12'	
>10-12'	S=W+16'	

W = TRENCH WIDTH AT MIDPOINT OF PIPE
 TRENCH SIDE SLOPES SHALL BE IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS. BEGIN SIDE SLOPE, IF USED, APPROX 18' ABOVE TOP OF PIPE. (TYP ALL BEDDING TYPES)



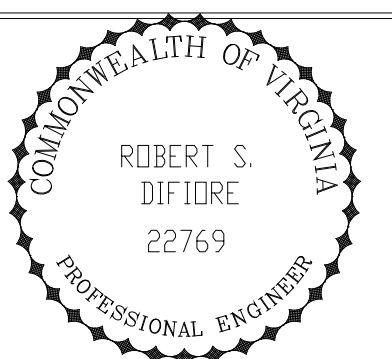
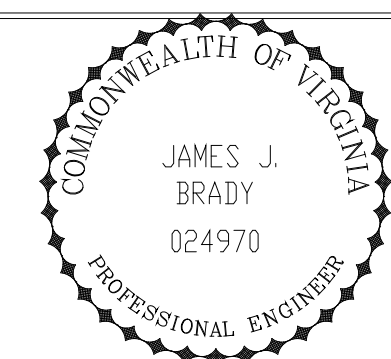
DETAIL 3
 NTS STD



DETAIL 4
 NTS STD

RECORD DRAWING

DESIGNED	H&S		
DRAWN	P.G.M.		
CHECKED	R.N.C.		
PROJ. ENGR.	A.A.B.		
NO.	DATE	BY	APPROVED
3	RECORD DRAWINGS 6-99	F.X.P.	
2	CONSTRUCTION 9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL 9-94	J.J.B.	
	ISSUED FOR		



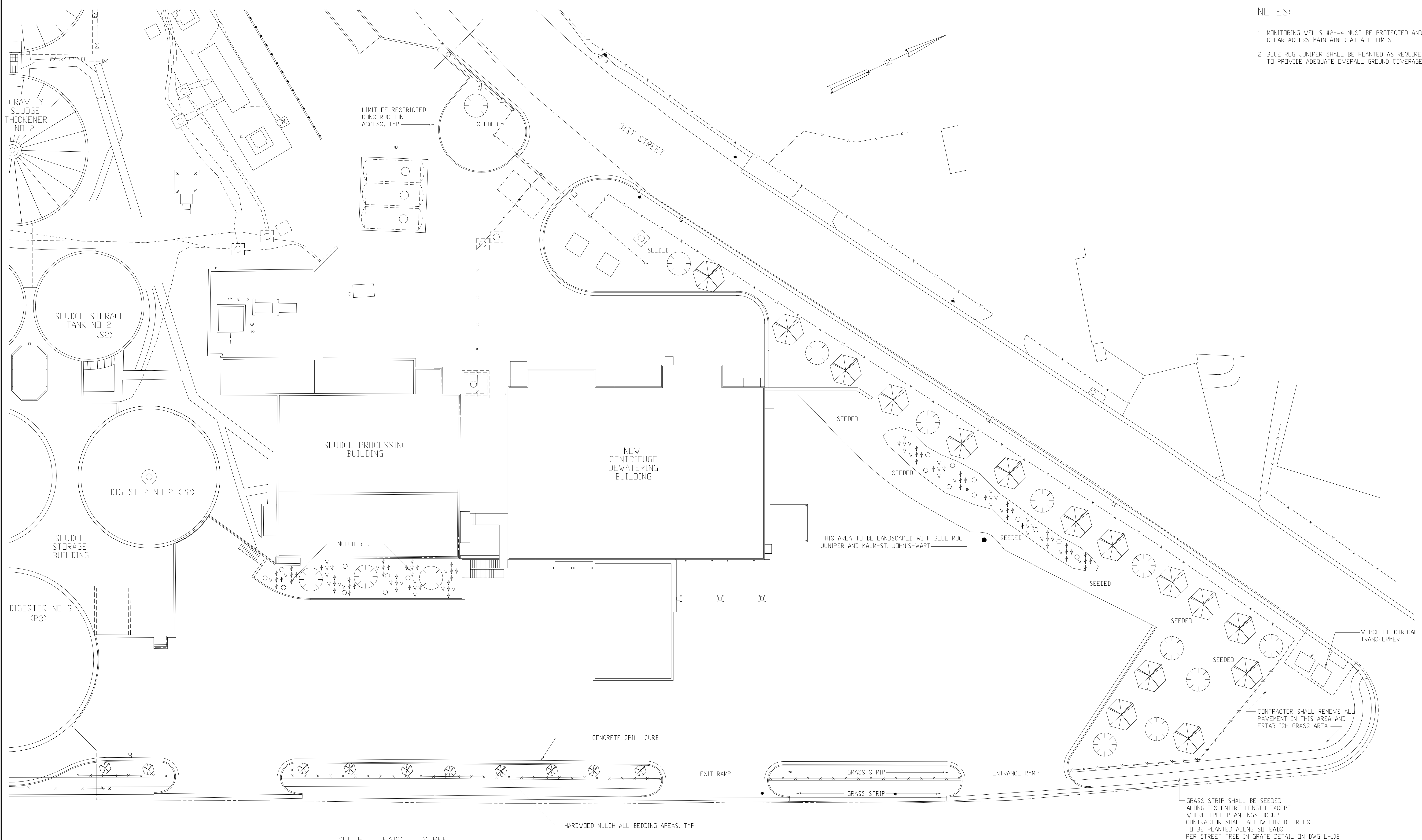
HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY, VIRGINIA
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

SITWORK
 CIVIL
 MISCELLANEOUS YARDWORK
 STANDARD DETAILS - SHEET 3

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER C108
	SHEET 39 OF 199

- NOTES:
1. MONITORING WELLS #2-#4 MUST BE PROTECTED AND CLEAR ACCESS MAINTAINED AT ALL TIMES.
 2. BLUE RUG JUNIPER SHALL BE PLANTED AS REQUIRED TO PROVIDE ADEQUATE OVERALL GROUND COVERAGE.

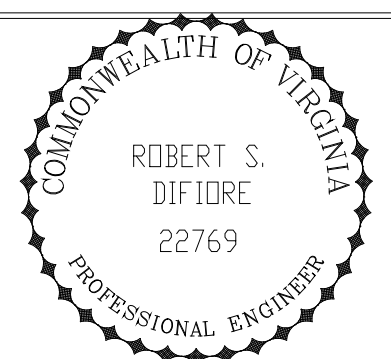


SOUTH EADS STREET
 SITE PLAN
 1"=20'-0"

GRASS STRIP SHALL BE SEEDED ALONG ITS ENTIRE LENGTH EXCEPT WHERE TREE PLANTINGS OCCUR. CONTRACTOR SHALL ALLOW FOR 10 TREES TO BE PLANTED ALONG SD. EADS PER STREET TREE IN GRATE DETAIL ON DWG L-102.

RECORD DRAWING

DESIGNED	ASG
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	
NO.	ISSUED FOR
4	RECORD DRAWING
3	WPB APPROVAL LAND APP. REDES.
2	CONSTRUCTION
1	REGULATORY APPROVAL
	DATE
	BY



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 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

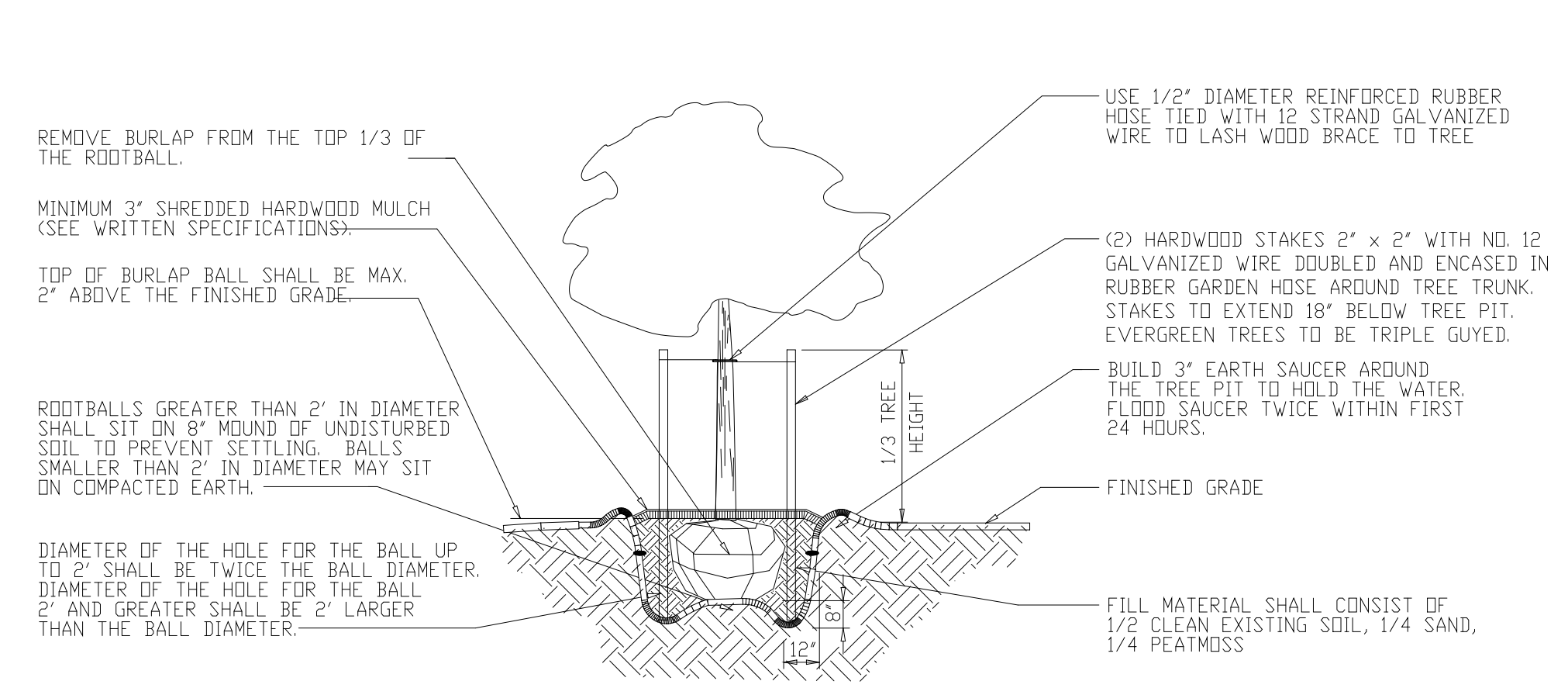
SITWORK
 LANDSCAPING PLAN

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	L-101
	SHEET	40 OF 199

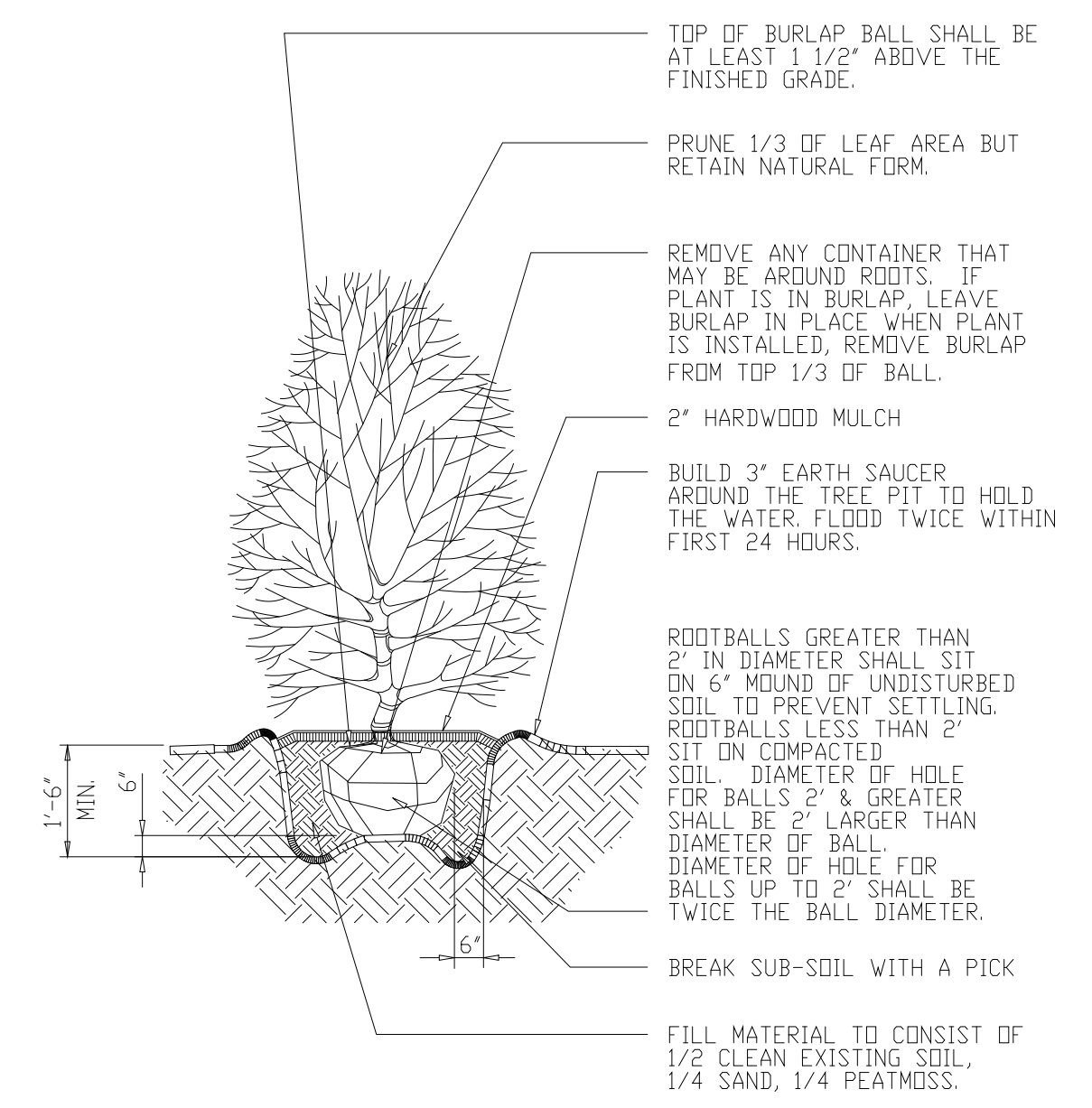
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NOTES:

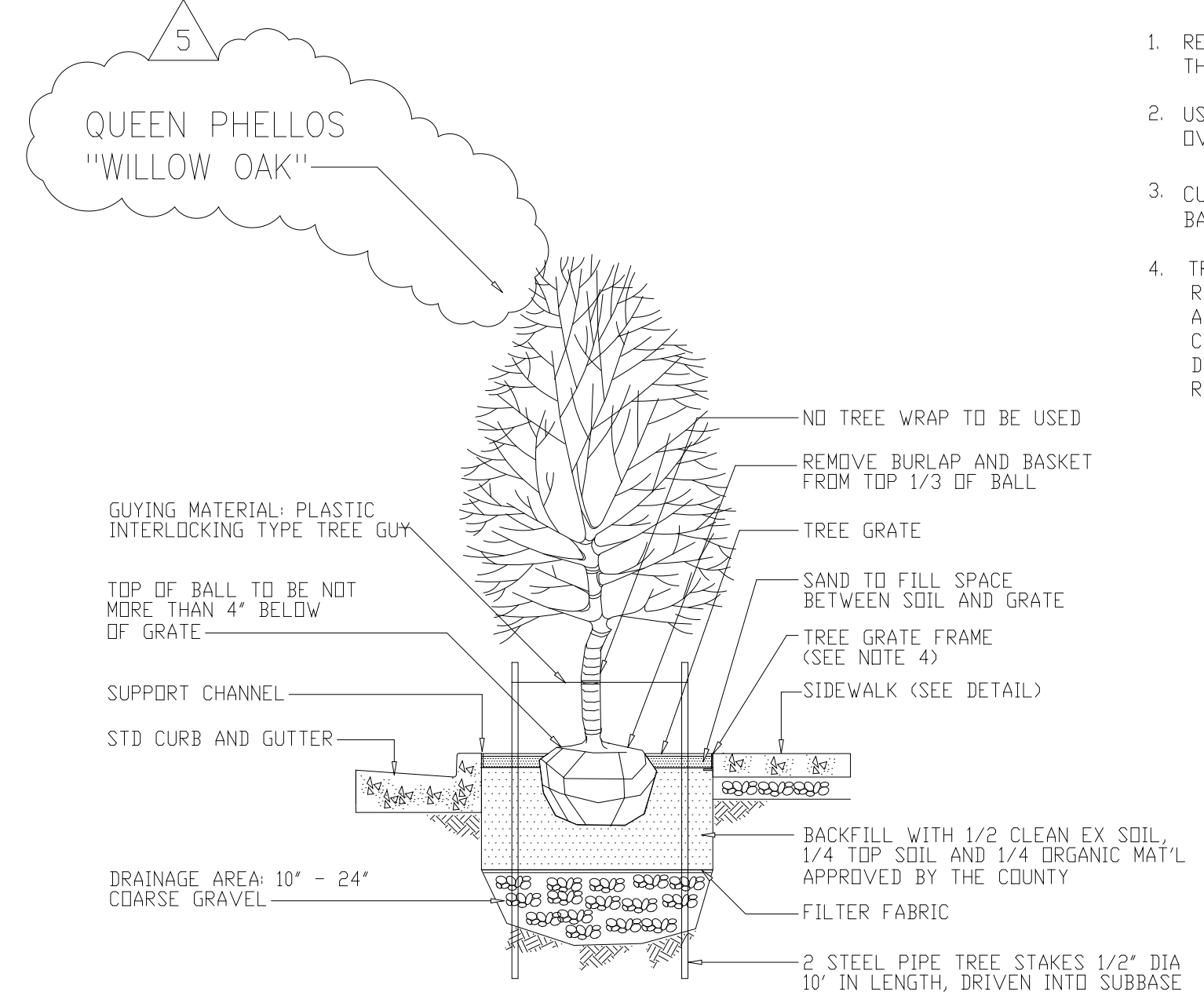
1. REMOVE LOWER TREE BRANCHES AS DIRECTED BY THE OWNER.
2. USE DEADMAN OR GROUND ANCHOR FOR TREES OVER 5' CALIPER.
3. CUT AND REMOVE TOP 12" OF ANY WIRE BASKET ON ROOT BALL.
4. TREE GRATE SHALL BE NEENAH IRON MODEL NO. R-8802-A 180". FRAME SHALL BE PRIMED AND ASPHALTIC PAINTED. FOR INSTALLATION AND CONSTRUCTION DETAILS, SEE ARLINGTON COUNTY DPW CONSTRUCTION STANDARD DETAILS DWGS R-7.4, R-7.5 AND R-7.6. SEE DETAIL THIS SHEET.



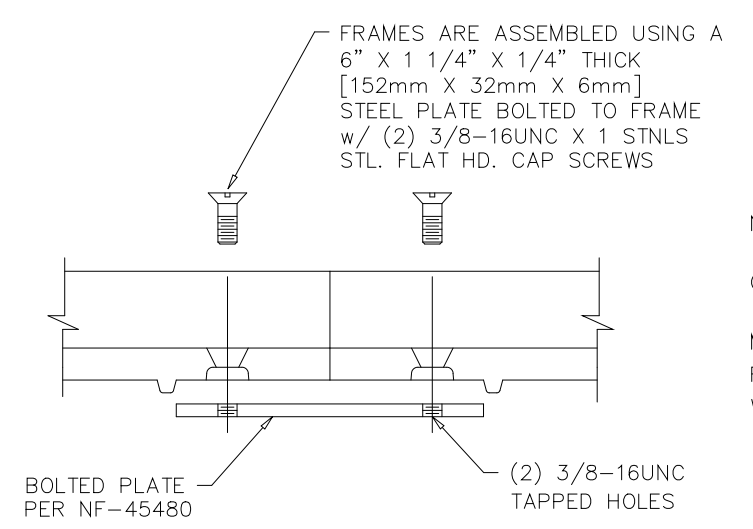
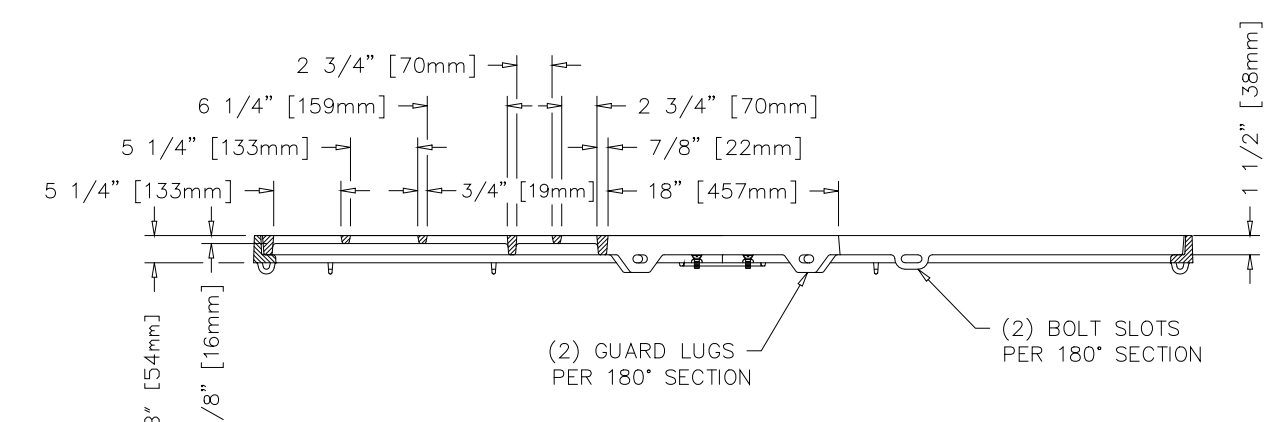
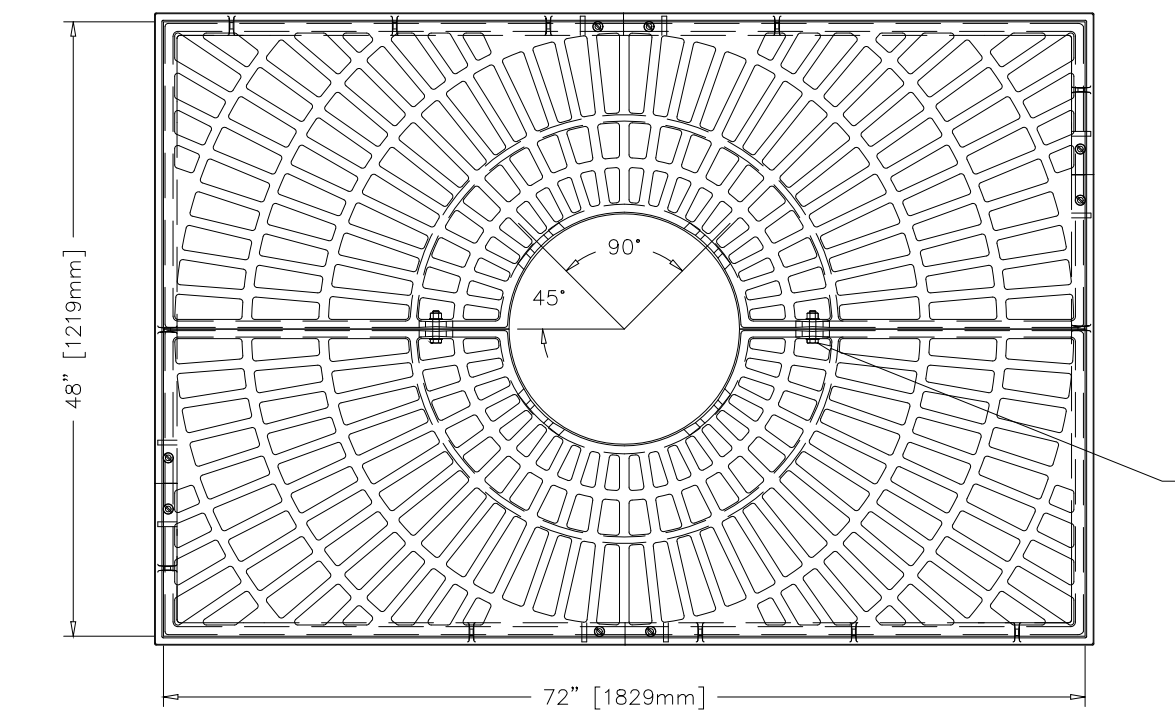
TREE PLANTING (BELOW 2 1/2" CALIPER)
NOT TO SCALE



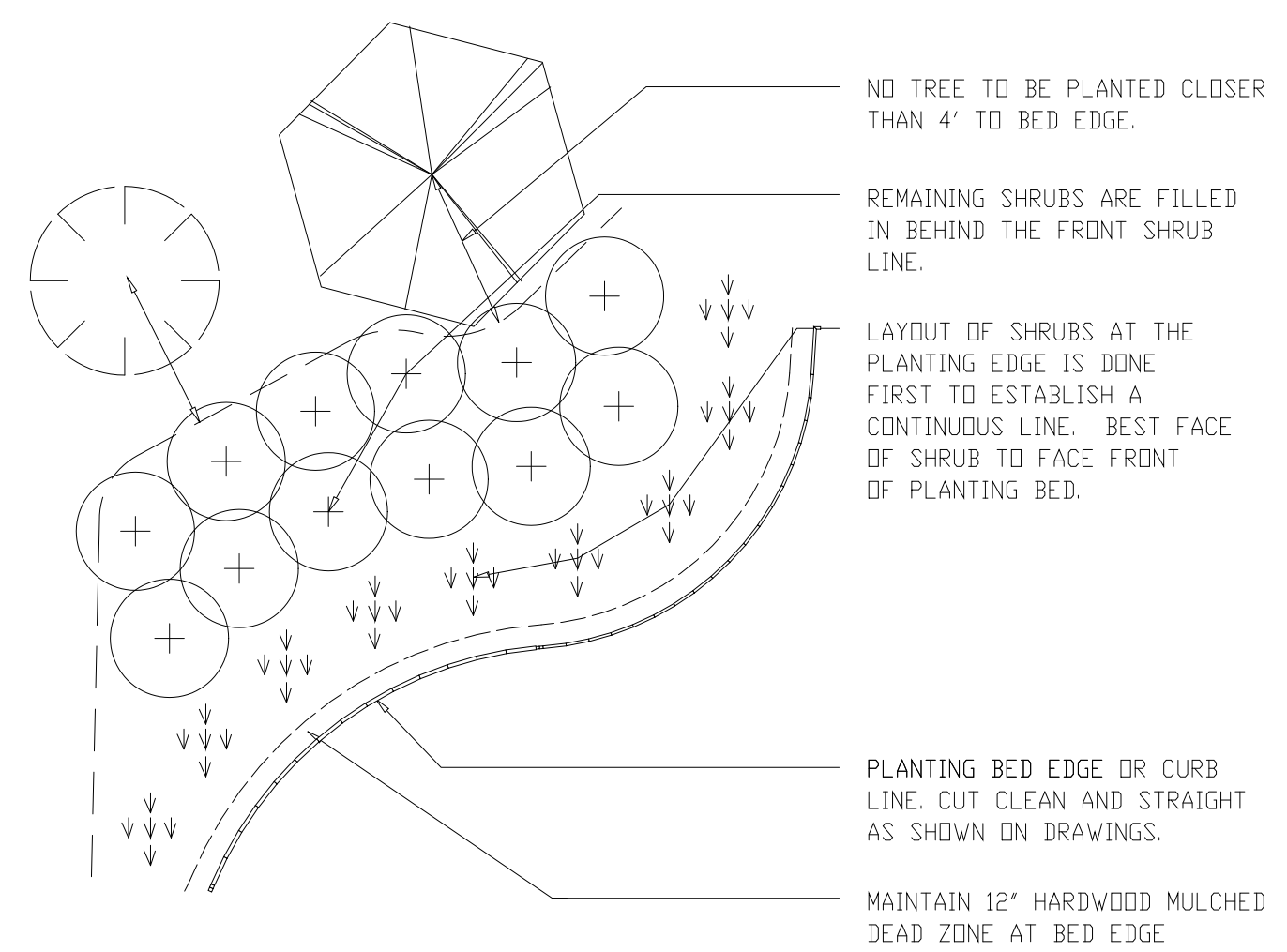
SHRUB PLANTING
NOT TO SCALE



TREE PLANTING DETAIL FOR STREET TREE IN GRATE
NOT TO SCALE



NOTE: FRAME CROSS BAR REQUIRES REMOVAL AFTER INSTALLATION. ALL DIMENSIONS ARE SHOWN IN ENGLISH AND [METRIC]. COMPONENT NO'S: (2) FRAME 8500-4872; (2) FRAME 8500-7272 (2) TREE GRATE 8802-0005 MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B FINISH: NOT PAINTED WEIGHT: 490#/SET



SHRUB AND GROUND COVER LAYOUT
NOT TO SCALE

PLANT LIST

WARNING: CONFIRM LOCATION AND DEPTH OF UTILITIES PRIOR TO DIGGING. DO NOT PLANT DIRECTLY ABOVE UTILITIES.

TREES	QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	ROOT	HEIGHT	REMARKS
	13		CORNUS KOUSA	JAPANESE DOGWOOD	BALLED & BURLAP	MATURE: 20'	PLANT AT 5-6' HEIGHT
	22		CASUARINA	AUSTRALIAN PINE	BALLED BURLAP	MATURE: 100'	PLANT AT 10-15' HEIGHT SPECIMEN, FULL TO GROUND. SEMI-SHEARED

SHRUBS	QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	ROOT	HEIGHT	REMARKS
	3		ILEX CORNUTA 'BURFORDII NANA'	DWARF BURFORD HOLLY	CONT	24' - 30'	SPREAD 3-4'
	21		HYPERICUM KALMIANUM	KALM ST.-JOHN'S-WORT	CONT. 3 GAL		SPREAD 3'

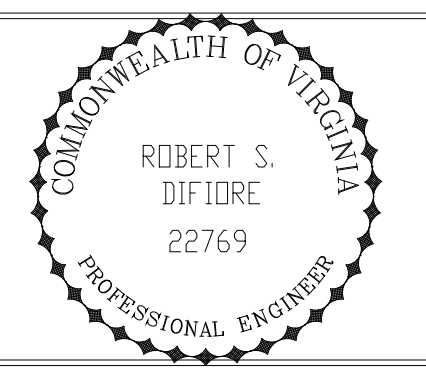
GROUND COVER	QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	ROOT	HEIGHT	REMARKS
	*		JUNIPERUS HORIZONTALIS 'WILTONII'	BLUE RUG JUNIPER	CONT. 3 GAL		ROWS 2' ON CENTER, PLANTS 2'-6" ON CENTER, STAGGERED

* AS REQUIRED TO PROVIDE ADEQUATE OVERALL GROUND COVERAGE AS SPECIFIED (SEE REMARKS) ALL OTHER AREAS ARE THEN TO BE FILLED WITH A LAYER OF SHREDDED HARDWOOD MULCH AS APPROVED BY PROGRAM MANAGER.

RECORD DRAWING

PLOT DATE: 09/25/19 10:04am FILE: H:\BIDDING\DCP\ASG\11000 - by WATTS - XREF FILE - .NDWG

DESIGNED	ASG
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



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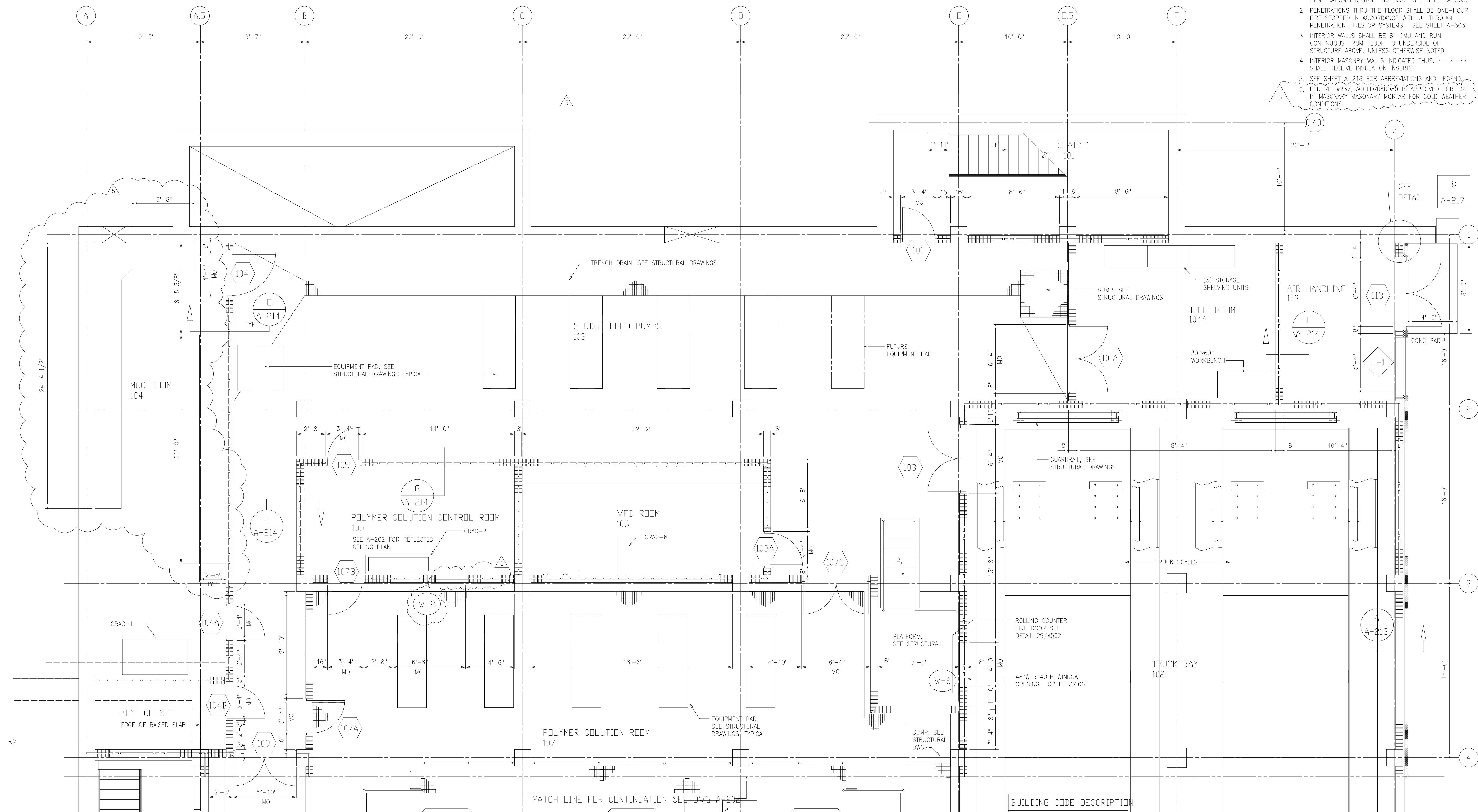
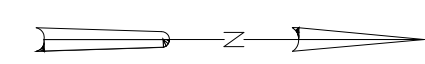
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

SITWORK
LANDSCAPING
PLANT LIST AND DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 19 2019
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	L-102
	SHEET	41 OF 199

NOTES:

1. WALLS INDICATED THUS: SHALL BE TWO HOUR FIRE RATED IN ACCORDANCE WITH UL 90S. PENETRATIONS SHALL BE FIRESTOPPED IN ACCORDANCE WITH UL APPROVED THROUGH-PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
2. PENETRATIONS THRU THE FLOOR SHALL BE ONE-HOUR FIRE STOPPED IN ACCORDANCE WITH UL THROUGH PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
3. INTERIOR WALLS SHALL BE 8" CMU AND RUN CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, UNLESS OTHERWISE NOTED.
4. INTERIOR MASONRY WALLS INDICATED THUS: SHALL RECEIVE INSULATION INSERTS.
5. SEE SHEET A-218 FOR ABBREVIATIONS AND LEGEND.
6. PER RFI #237, ACCELGUARDED IS APPROVED FOR USE IN MASONRY MORTAR FOR COLD WEATHER CONDITIONS.

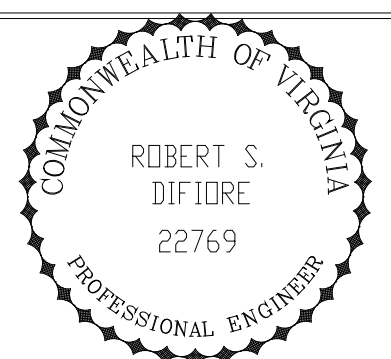


PLAN
1/4"=1'-0"

BUILDING CODE DESCRIPTION
"MIXED OCCUPANCY, USE GROUP F-2, CONSTRUCTION TYPE 2B PROTECTED EXCEPT ROOMS 107 & 112 SHALL BE CLASSIFIED AS USE GROUP H-4 AND ROOM 102 SHALL BE CLASSIFIED AS USE GROUP S-1."

RECORD DRAWING

DESIGNED	WHR
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



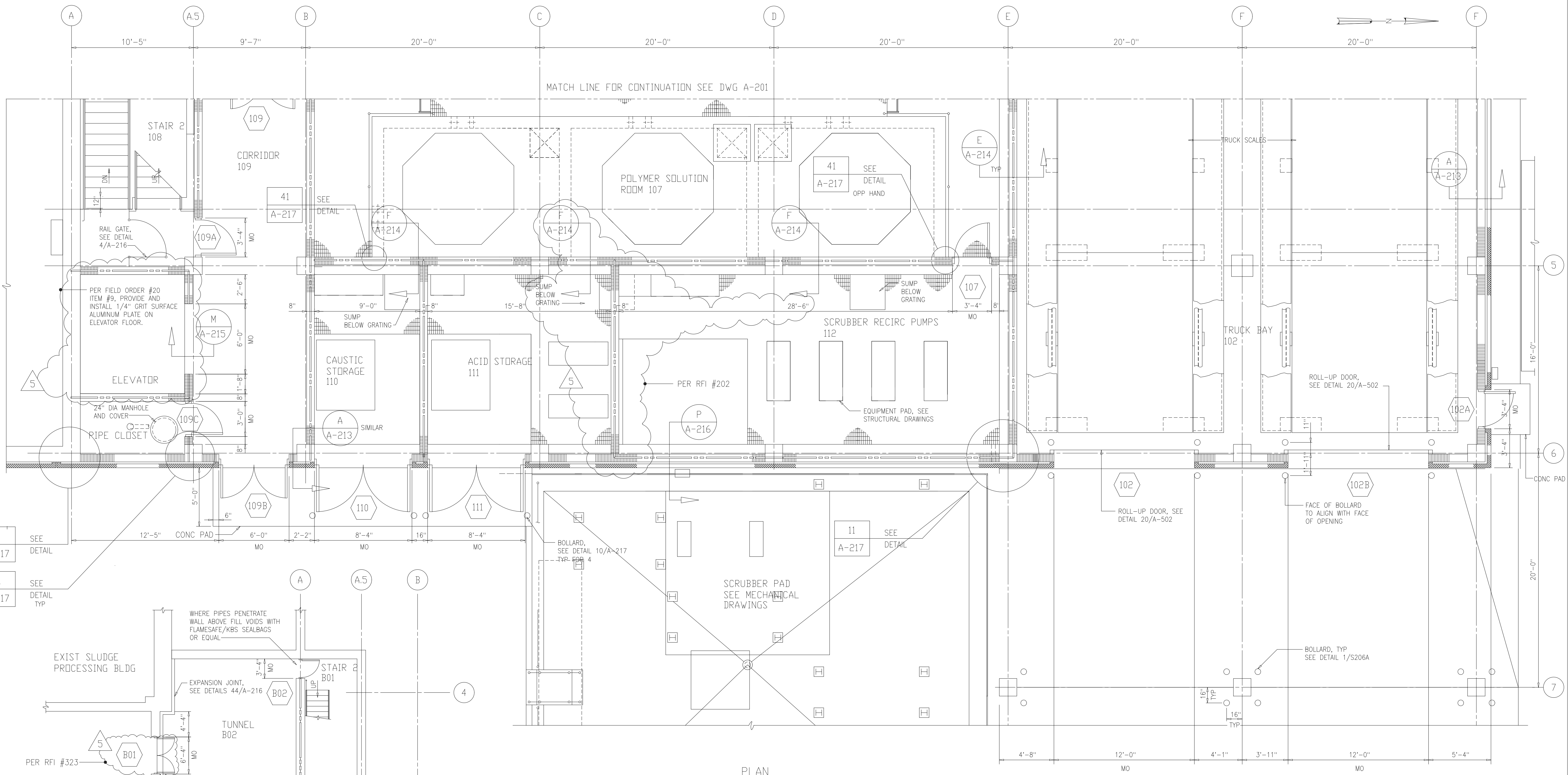
Hazenand Sawyer
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

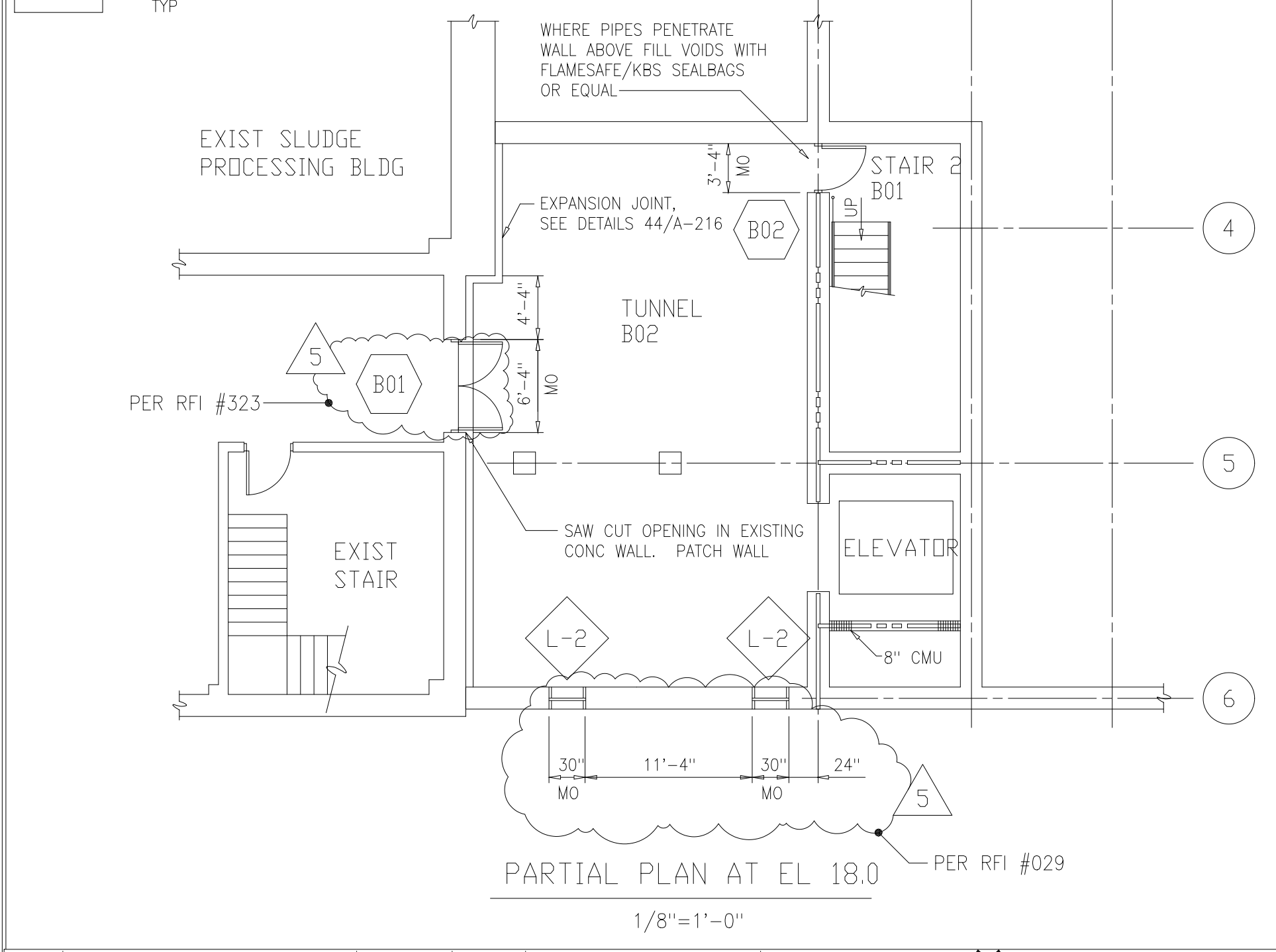
CENTRIFUGE DEWATERING BUILDING
ARCHITECTURAL
PLAN AT EL 25.00
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A-201
	SHEET	42 OF 199

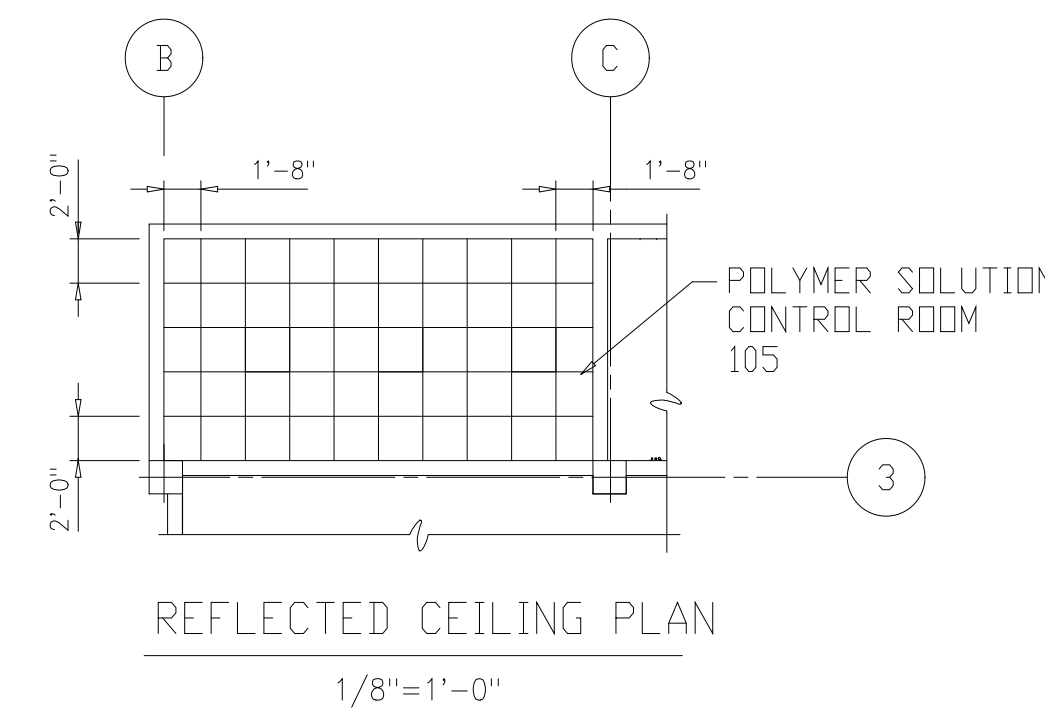
PLOT DATE: 07/27/99 08:54 FILE: H:\BUDLINE.DWG (A2-201) BY: MATS WXP 8/1/99 08:54



9 SEE DETAIL A-217
 11 SEE DETAIL TYP A-217

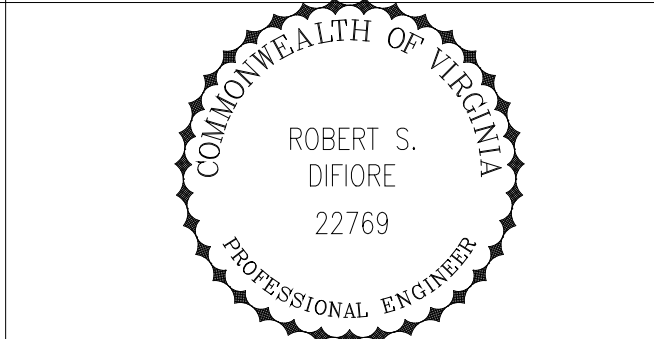


BUILDING CODE DESCRIPTION
 *MIXED OCCUPANCY, USE GROUP F-2, CONSTRUCTION TYPE 2B PROTECTED EXCEPT ROOMS 107 & 112 SHALL BE CLASSIFIED AS USE GROUP H-4 AND ROOM 102 SHALL BE CLASSIFIED AS USE GROUP S-1.



- NOTES:**
1. WALLS INDICATED THUS: [Symbol] SHALL BE TWO HOUR FIRE RATED IN ACCORDANCE WITH UL 905. PENETRATIONS SHALL BE FIRESTOPPED IN ACCORDANCE WITH UL APPROVED THROUGH - PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
 2. PENETRATIONS THRU THE FLOOR SHALL BE ONE-HOUR FIRE STOPPED IN ACCORDANCE WITH UL THROUGH PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
 3. INTERIOR WALLS SHALL BE 8" CMU AND RUN CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, UNLESS OTHERWISE NOTED.
 4. INTERIOR MASONRY WALLS INDICATED THUS: [Symbol] SHALL RECEIVE INSULATION INSERTS.
 5. SEE SHEET A-218 FOR ABBREVIATIONS AND LEGEND.

DESIGNED	WHR
DRAWN	BRC
CHECKED	
PROJENGR	AB/RNC
APPROVED	

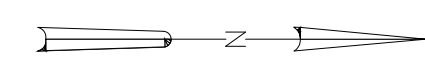


HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

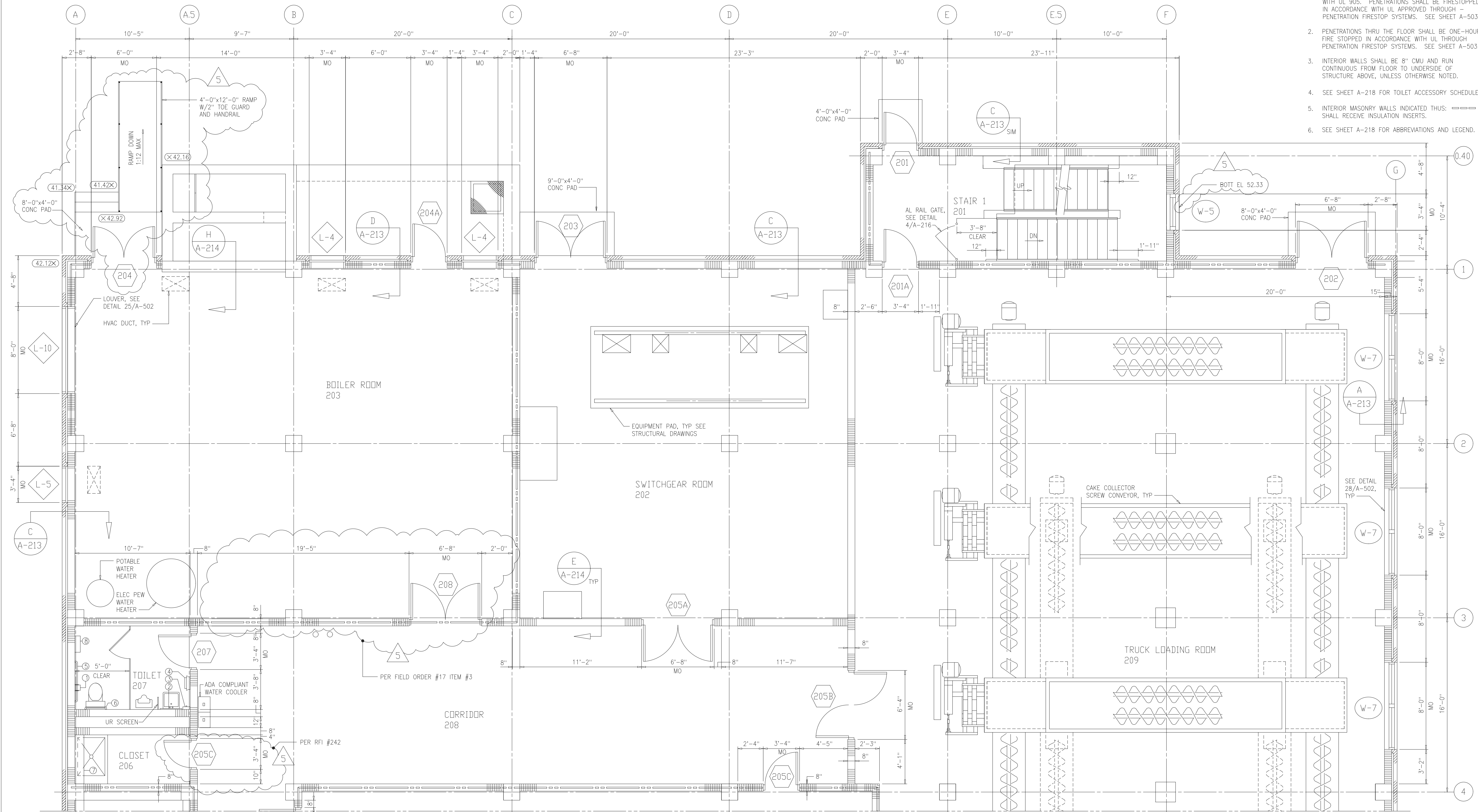
CENTRIFUGE DEWATERING BUILDING
 ARCHITECTURAL
 PLAN AT EL 25.00 SHEET 2
 AND TUNNEL PLAN

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A-202
	SHEET	43 OF 199



NOTES:

1. WALLS INDICATED THUS: SHALL BE TWO HOUR FIRE RATED IN ACCORDANCE WITH UL 905. PENETRATIONS SHALL BE FIRESTOPPED IN ACCORDANCE WITH UL APPROVED THROUGH PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
2. PENETRATIONS THRU THE FLOOR SHALL BE ONE-HOUR FIRE STOPPED IN ACCORDANCE WITH UL THROUGH PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
3. INTERIOR WALLS SHALL BE 8" CMU AND RUN CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, UNLESS OTHERWISE NOTED.
4. SEE SHEET A-218 FOR TOILET ACCESSORY SCHEDULE.
5. INTERIOR MASONRY WALLS INDICATED THUS: SHALL RECEIVE INSULATION INSERTS.
6. SEE SHEET A-218 FOR ABBREVIATIONS AND LEGEND.



MATCH LINE FOR CONTINUATION SEE DWG A-204

PLAN
1/4"=1'-0"

RECORD DRAWING

DESIGNED	WBR
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

COMMONWEALTH OF VIRGINIA
 PROFESSIONAL ENGINEER
 ROBERT S. DIFIORE
 22769



HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

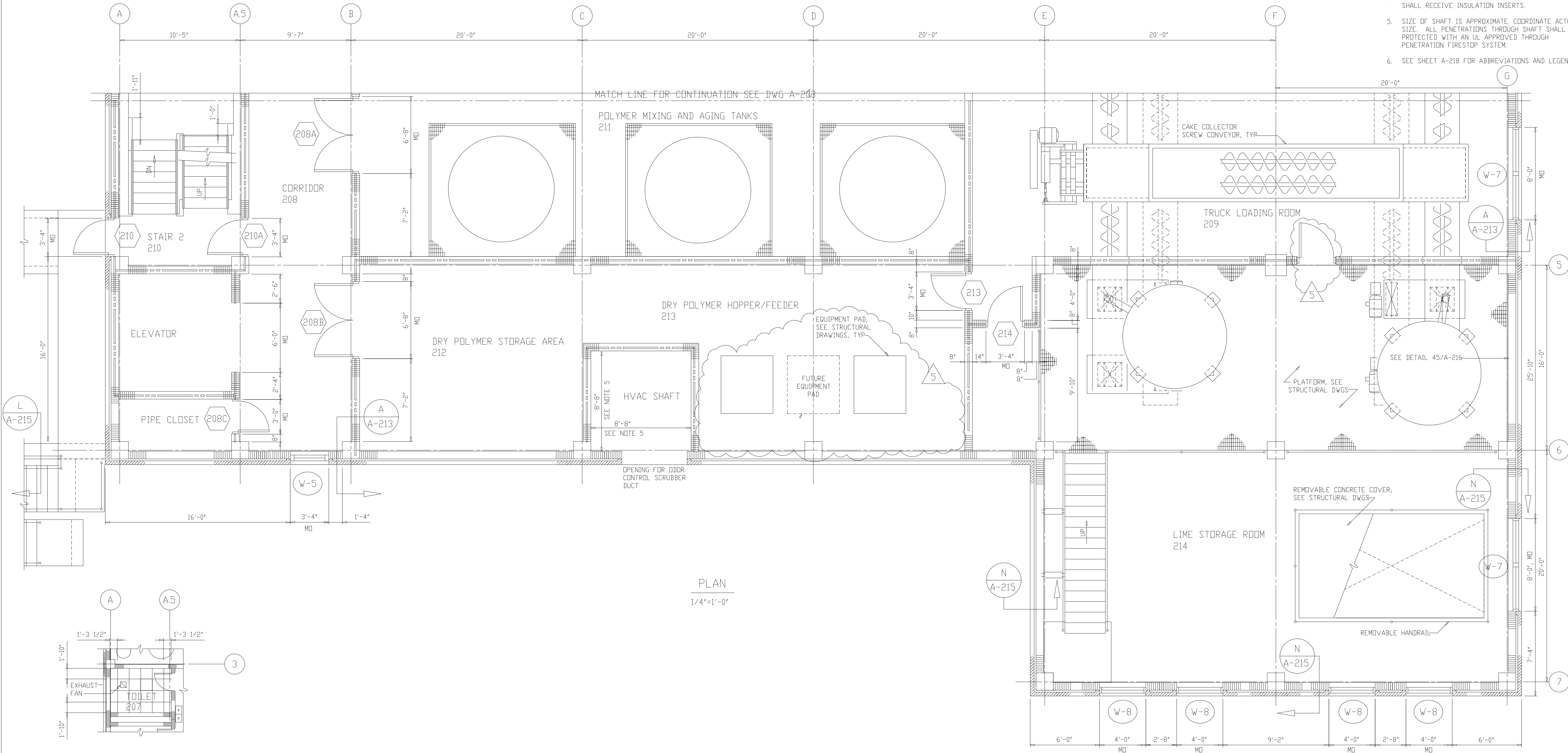
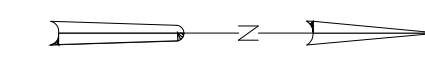
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 ARCHITECTURAL
 PLAN AT EL 43.00
 SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A-203
	SHEET	44 OF 199

PLT: DWG12/21/99 10:59am FILE: H:\3043\3043.dwg PLOT: 10/21/99 10:59am

- NOTES:
1. WALLS INDICATED THUS  SHALL BE TWO HOUR FIRE RATED IN ACCORDANCE WITH UL 90S. PENETRATIONS SHALL BE FIRESTOPPED IN ACCORDANCE WITH UL APPROVED THROUGH PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
 2. PENETRATIONS THRU THE FLOOR SHALL BE ONE-HOUR FIRE STOPPED IN ACCORDANCE WITH UL THROUGH PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
 3. INTERIOR WALLS SHALL BE 8" CMU AND RUN CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, UNLESS OTHERWISE NOTED.
 4. INTERIOR MASONRY WALLS INDICATED THUS  SHALL RECEIVE INSULATION INSERTS.
 5. SIZE OF SHAFT IS APPROXIMATE. COORDINATE ACTUAL SIZE. ALL PENETRATIONS THROUGH SHAFT SHALL BE PROTECTED WITH AN UL APPROVED THROUGH PENETRATION FIRESTOP SYSTEM.
 6. SEE SHEET A-218 FOR ABBREVIATIONS AND LEGEND

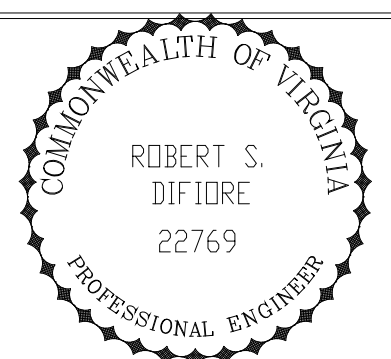


PLAN
1/4"=1'-0"

REFLECTED CEILING PLAN
1/8"=1'-0"

RECORD DRAWING

DESIGNED	WBR
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	





HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

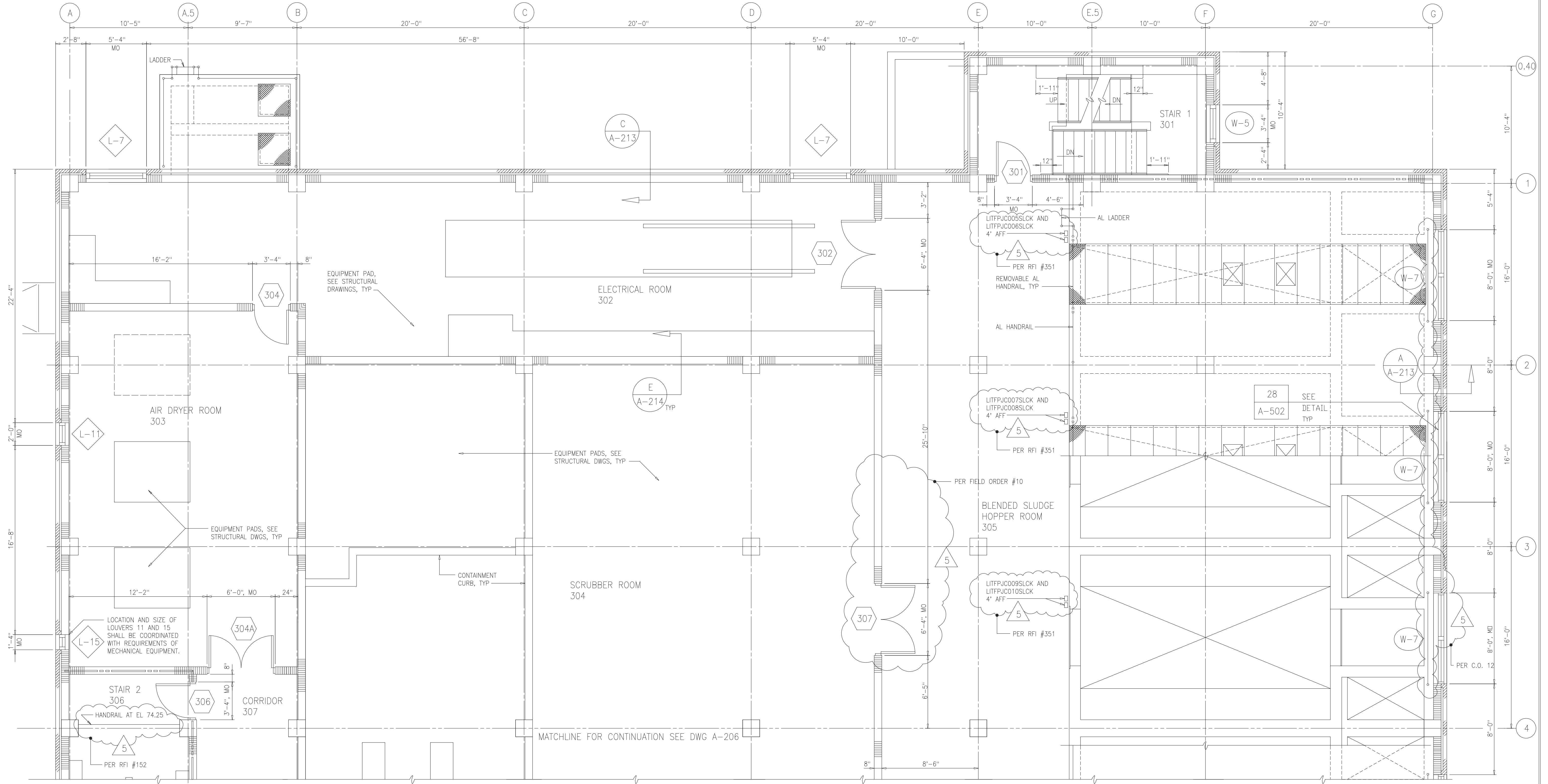
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ARCHITECTURAL
PLAN AT EL 43.00
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A-204
	SHEET	45 OF 199

NOTES:

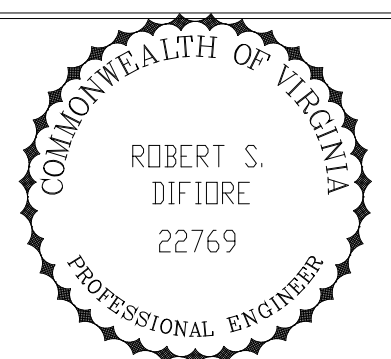
- 1 WALLS INDICATED THUS:  SHALL BE TWO HOUR FIRE RATED IN ACCORDANCE WITH UL 905. PENETRATIONS SHALL BE FIRESTOPPED IN ACCORDANCE WITH UL APPROVED THROUGH - PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
- 2 PENETRATIONS THRU THE FLOOR SHALL BE ONE-HOUR FIRE STOPPED IN ACCORDANCE WITH UL THROUGH PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
- 3 INTERIOR WALLS SHALL BE 8" CMU AND RUN CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, UNLESS OTHERWISE NOTED.
- 4 INTERIOR MASONRY WALLS INDICATED THUS:  SHALL RECEIVE INSULATION INSERTS.
- 5 SEE SHEET A-218 FOR ABBREVIATIONS AND LEGEND.



PLAN
1/4"=1'-0"

RECORD DRAWING

DESIGNED	WHR
DRAWN	WAM
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



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Environmental Engineers & Scientists
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

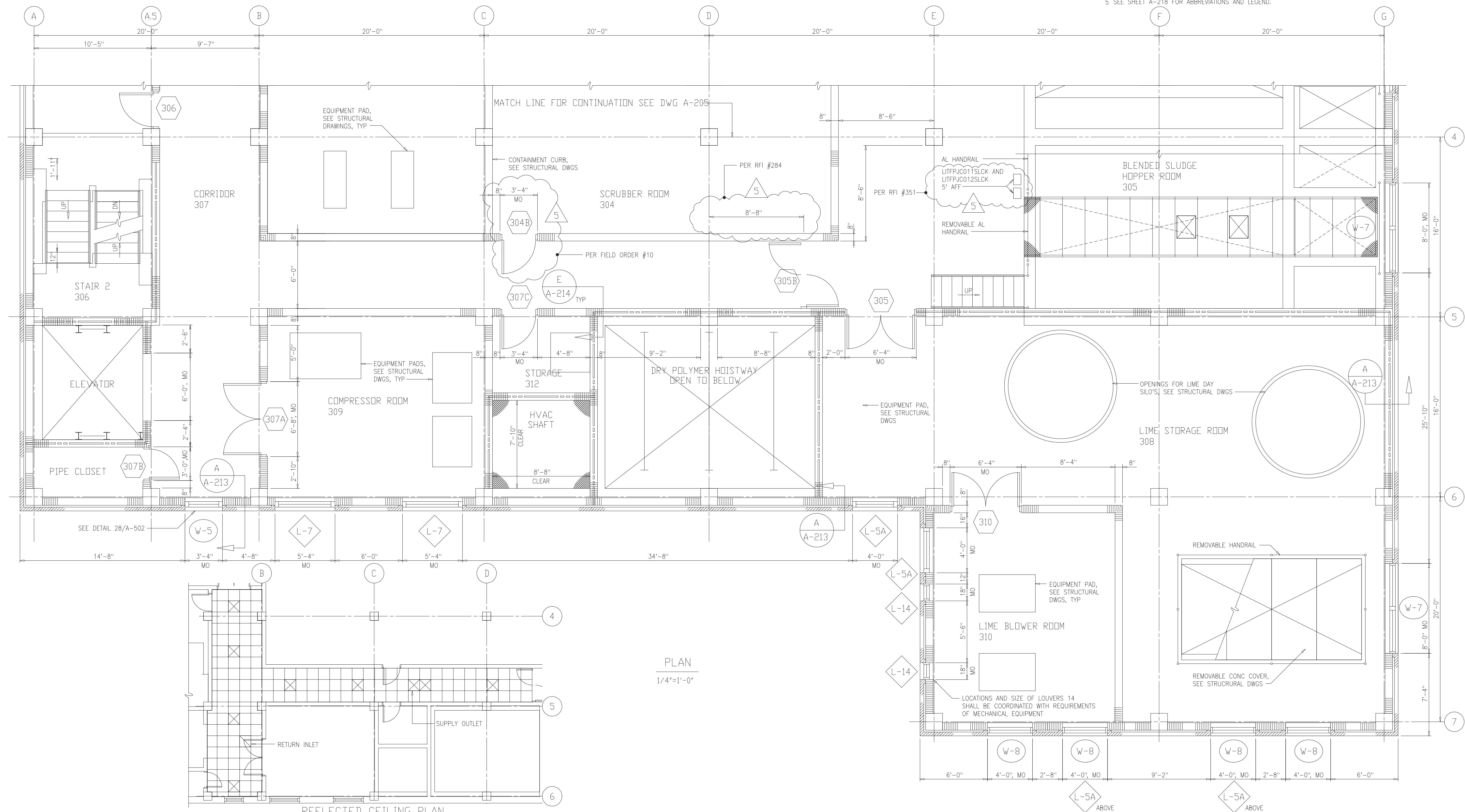
CENTRIFUGE DEWATERING BUILDING
ARCHITECTURAL
PLAN AT ELEVATION 66.00
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
H & S JOB NUMBER 2843	
CONTRACT NUMBER 93-02-WPC	DRAWING NUMBER A-205
SHEET 46	OF 199

PLOT DATE: 09/12/94 09:59 D:\0000\FILE: H:\0000\DWG: 00000000.DWG BY: WAMTS: WSPF5184523P

NOTES:

- 1 WALLS INDICATED THUS: SHALL BE TWO HOUR FIRE RATED IN ACCORDANCE WITH UL 905. PENETRATIONS SHALL BE FIRESTOPPED IN ACCORDANCE WITH UL APPROVED THROUGH - PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
- 2 PENETRATIONS THRU THE FLOOR SHALL BE ONE-HOUR FIRE STOPPED IN ACCORDANCE WITH UL THROUGH PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
- 3 INTERIOR WALLS SHALL BE 8" CMU AND RUN CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, UNLESS OTHERWISE NOTED.
- 4 INTERIOR MASONRY WALLS INDICATED THUS: SHALL RECEIVE INSULATION INSERTS.
- 5 SEE SHEET A-218 FOR ABBREVIATIONS AND LEGEND.



RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
5	RECORD DRAWING	4-99	MKS	
4	WPS CONST.-LAND APP. REDES.	4-96	RSD	
3	WPS APPROVAL-LAND APP. REDES.	2-96	RSD	
2	CONSTRUCTION	9-94	JJB	
1	REGULATORY APPROVAL	9-94	JJB	

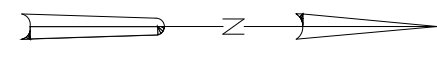
DESIGNED: WHR
 DRAWN: WAM
 CHECKED: AB/RNC
 PROJ. ENGR: AB/RNC

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 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

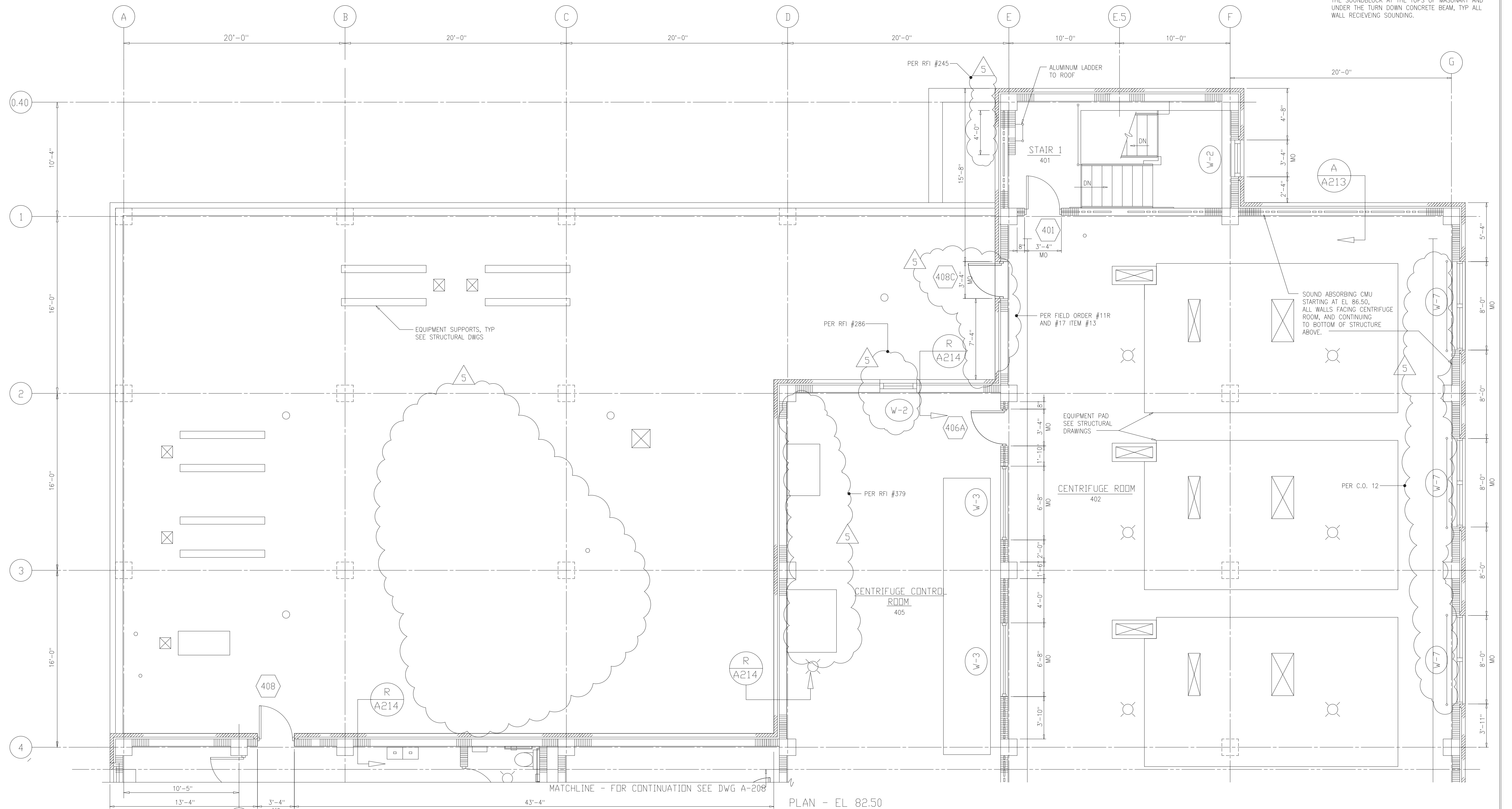
CENTRIFUGE DEWATERING BUILDING
 ARCHITECTURAL
 PLAN AT ELEVATION 66.00
 SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A-206
	SHEET	47 OF 199



NOTES:

1. WALLS INDICATED THUS: SHALL BE TWO HOUR FIRE RATED IN ACCORDANCE WITH UL 90S. PENETRATIONS SHALL BE FIRESTOPPED IN ACCORDANCE WITH UL APPROVED THROUGH PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
2. PENETRATIONS THRU THE FLOOR SHALL BE ONE-HOUR FIRE STOPPED IN ACCORDANCE WITH UL THROUGH PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
3. INTERIOR WALLS SHALL BE 8" CMU AND RUN CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, UNLESS OTHERWISE NOTED.
4. INTERIOR MASONRY WALLS INDICATED THUS: SHALL RECEIVE INSULATION INSERTS.
5. SEE SHEET A-218 FOR ABBREVIATIONS AND LEGEND.
6. PER RFI #305, INSTALL A STANDARD 8" BOND BEAM BLOCK UNIT WITH A STANDARD 8" BLOCK UNIT ABOVE THE SOUNDBLOCK AT THE TOPS OF MASONRY AND UNDER THE TURN DOWN CONCRETE BEAM, TYP ALL WALL RECEIVING SOUNDING.



RECORD DRAWING

DESIGNED	WHR
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	

ROBERT S. DIFIORE
22769

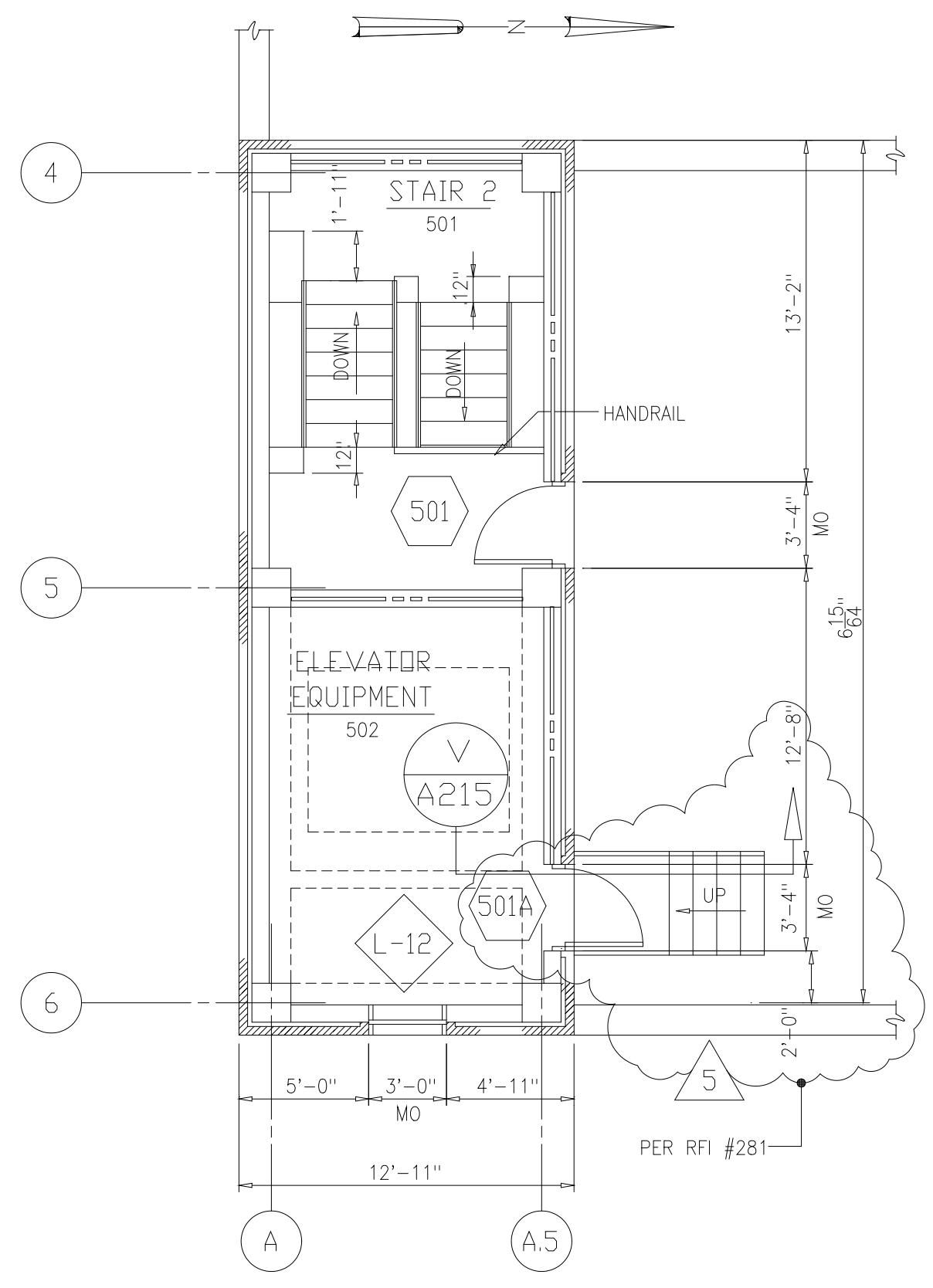
BENJAMIN L. ROACH
024651

Hazenand Sawyer
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

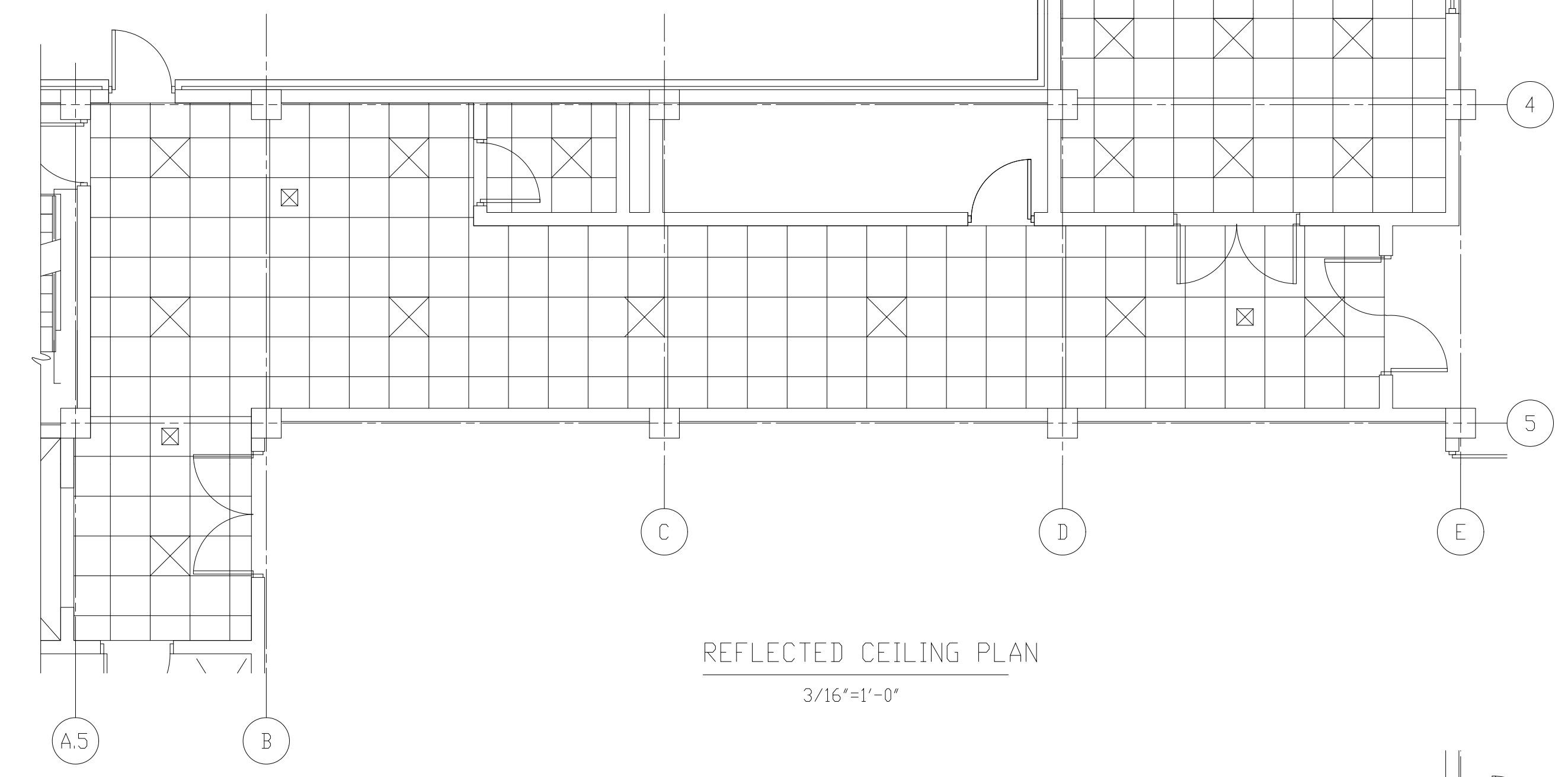
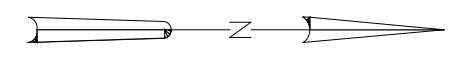
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ARCHITECTURAL
PLAN AT EL 82.50
SHEET 1

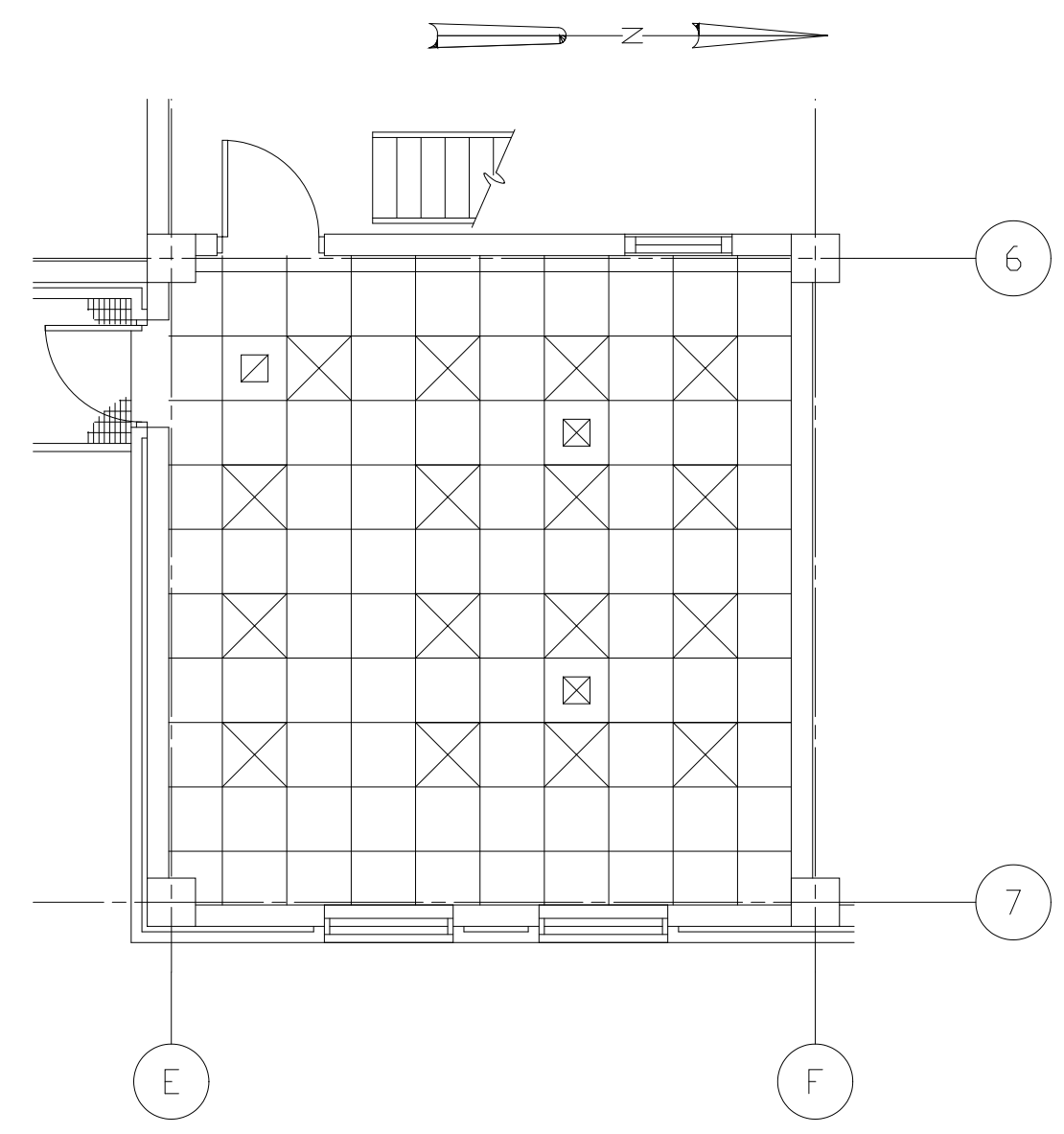
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A-207
	SHEET	48 OF 199



PARTIAL FLOOR PLAN
3/16"=1'-0"



REFLECTED CEILING PLAN
3/16"=1'-0"



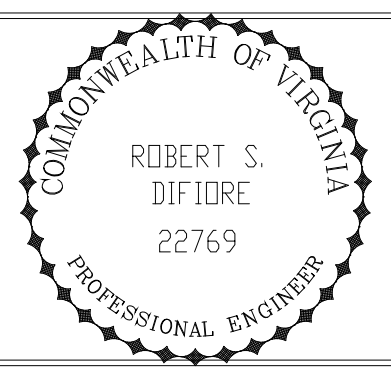
REFLECTED CEILING PLAN
3/16"=1'-0"

RECORD DRAWING

PLOT DATE: 12/20/00 1:50pm FILE: H:\RD\DWG\B\508A-A207A.dwg BY: MATTS XREF FILE: NONE

DESIGNED	WHR
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

NO.	ISSUED FOR	DATE	BY
5	RECORD DRAWING	4-99	MKS
4	WP6/7 CONST.-LAND APP. REDES.	4-96	RSD
3	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB





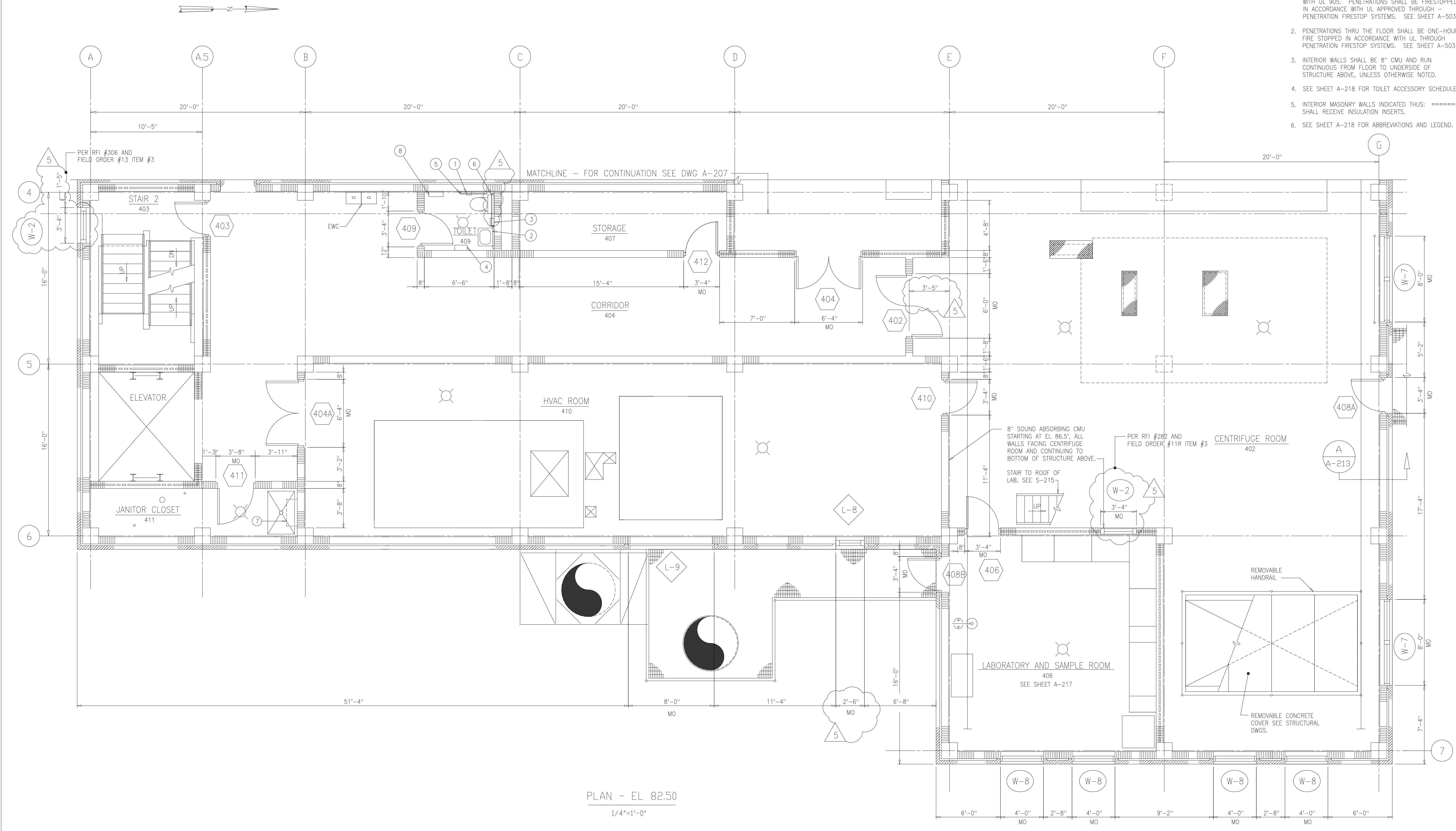
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ARCHITECTURAL
REFLECTED CEILING PLANS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A207A
SHEET 48A OF 199		


- NOTES:
1. WALLS INDICATED THUS:  SHALL BE TWO HOUR FIRE RATED IN ACCORDANCE WITH UL 90S. PENETRATIONS SHALL BE FIRESTOPPED IN ACCORDANCE WITH UL APPROVED THROUGH PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
 2. PENETRATIONS THRU THE FLOOR SHALL BE ONE-HOUR FIRE STOPPED IN ACCORDANCE WITH UL THROUGH PENETRATION FIRESTOP SYSTEMS. SEE SHEET A-503.
 3. INTERIOR WALLS SHALL BE 8" CMU AND RUN CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, UNLESS OTHERWISE NOTED.
 4. SEE SHEET A-218 FOR TOILET ACCESSORY SCHEDULE.
 5. INTERIOR MASONRY WALLS INDICATED THUS:  SHALL RECEIVE INSULATION INSERTS.
 6. SEE SHEET A-218 FOR ABBREVIATIONS AND LEGEND.



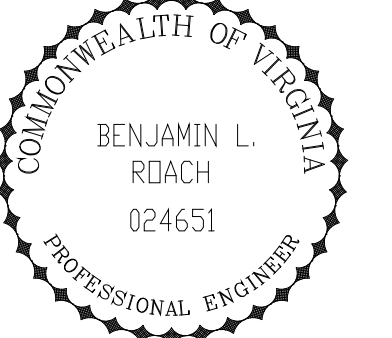
PLAN - EL 82.50
1/4"=1'-0"

RECORD DRAWING

DESIGNED	WHR
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	



ROBERT S. DIFIDORE
22769



BENJAMIN L. ROACH
024651

HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

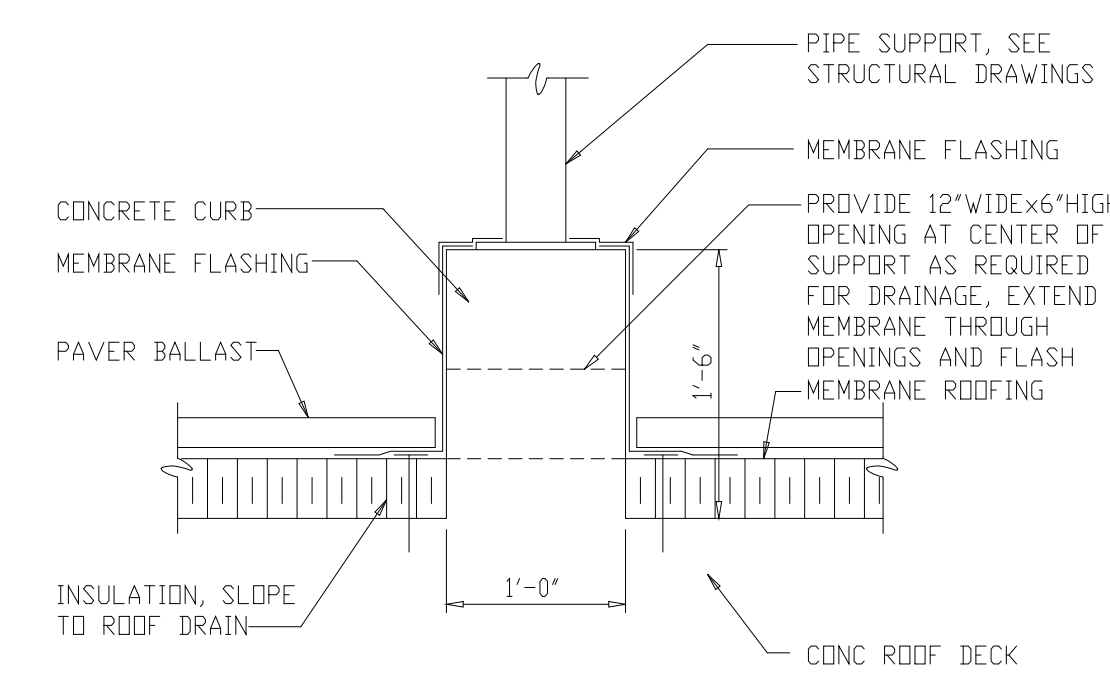
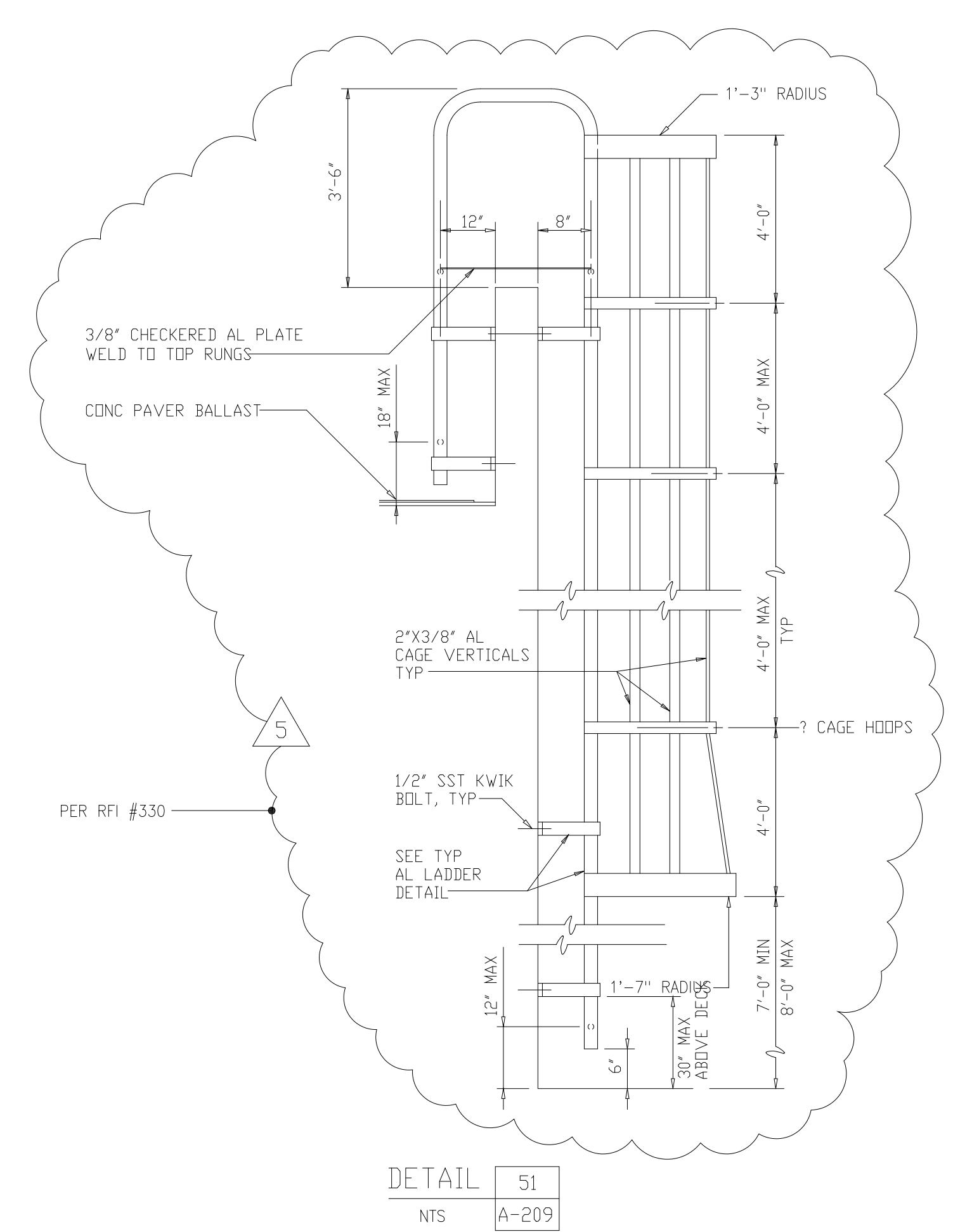
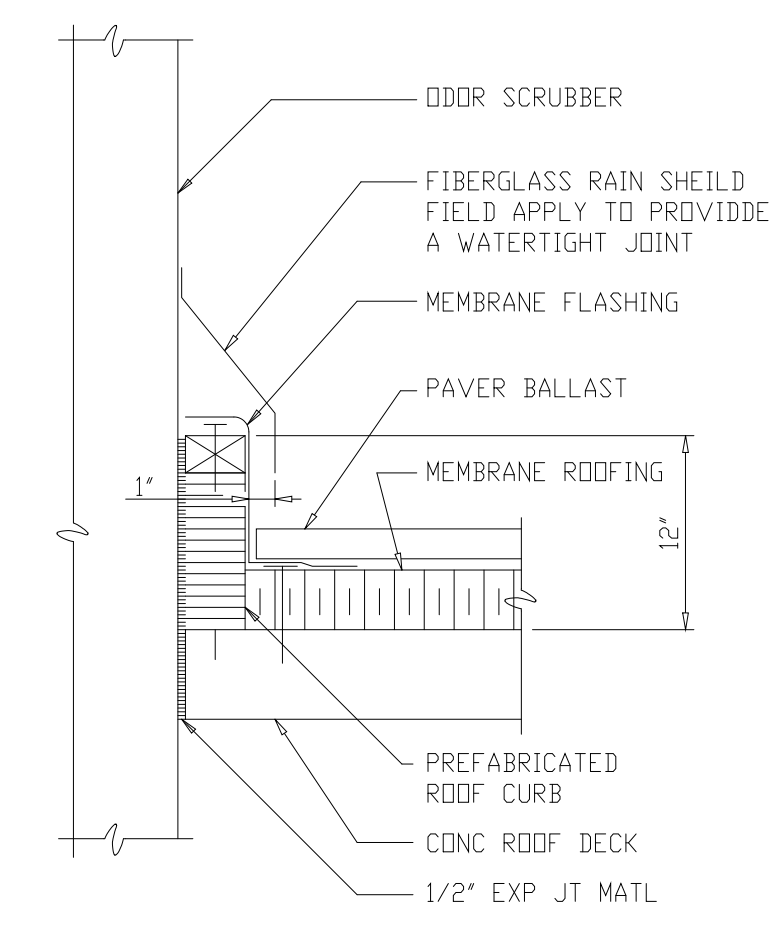
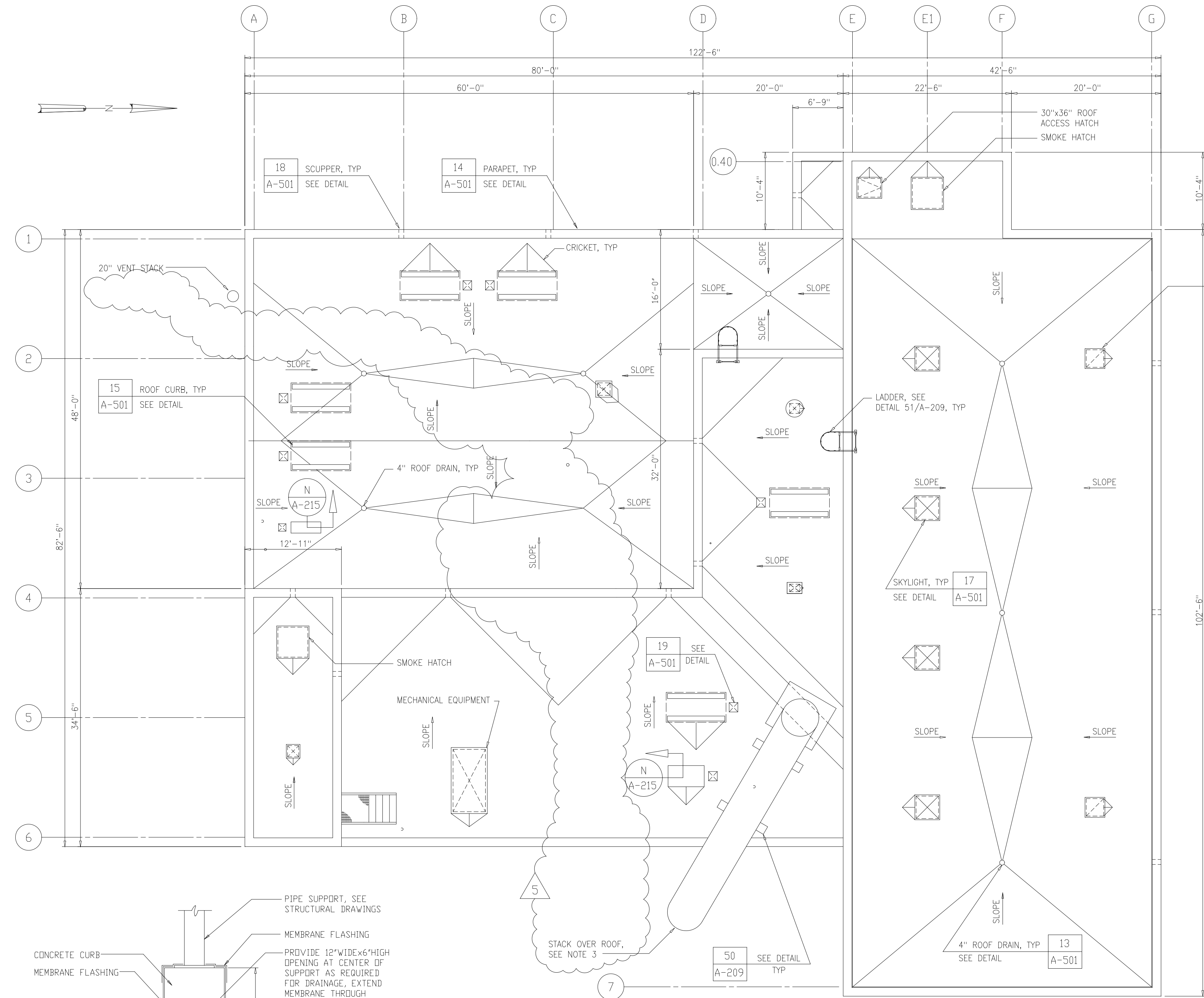
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ARCHITECTURAL
PLAN AT EL 82.50
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A-208
	SHEET	49 OF 199

PLOT DATE: 09/15/94 11:40am FILE: H:\R20\DWG\WPC\WPC-2843.dwg BY: WHTS WSP: FILE: WPC

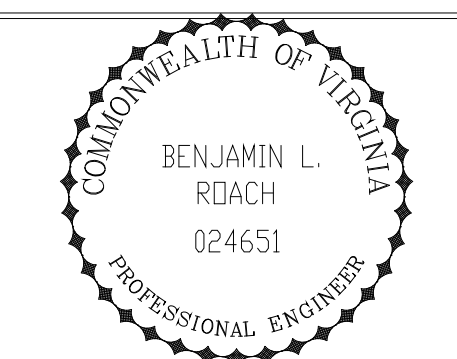
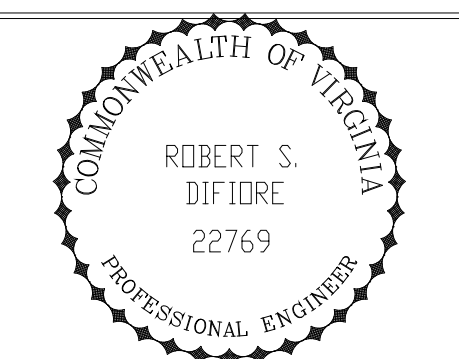
- NOTES:
- 1 SEE STRUCTURAL DRAWINGS FOR ROOF AND PARAPET ELEVATIONS.
 - 2 SEE DRAWING A-501 FOR TYPICAL ROOF DETAILS.
 - 3 SEE STRUCTURAL DRAWINGS FOR SIZE, TYPE, AND LOCATION OF STRUCTURAL PIPE SUPPORTS.



RECORD DRAWING

DESIGNED	WHR
DRAWN	WAM
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

5	RECORD DRAWING	4-99	MKS
4	WP6/7 CONST.-LAND APP. REDES.	4-96	RSD
3	WP6/7 APPROVAL.-LAND APP. REDES.	3-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
NO.	ISSUED FOR	DATE	BY

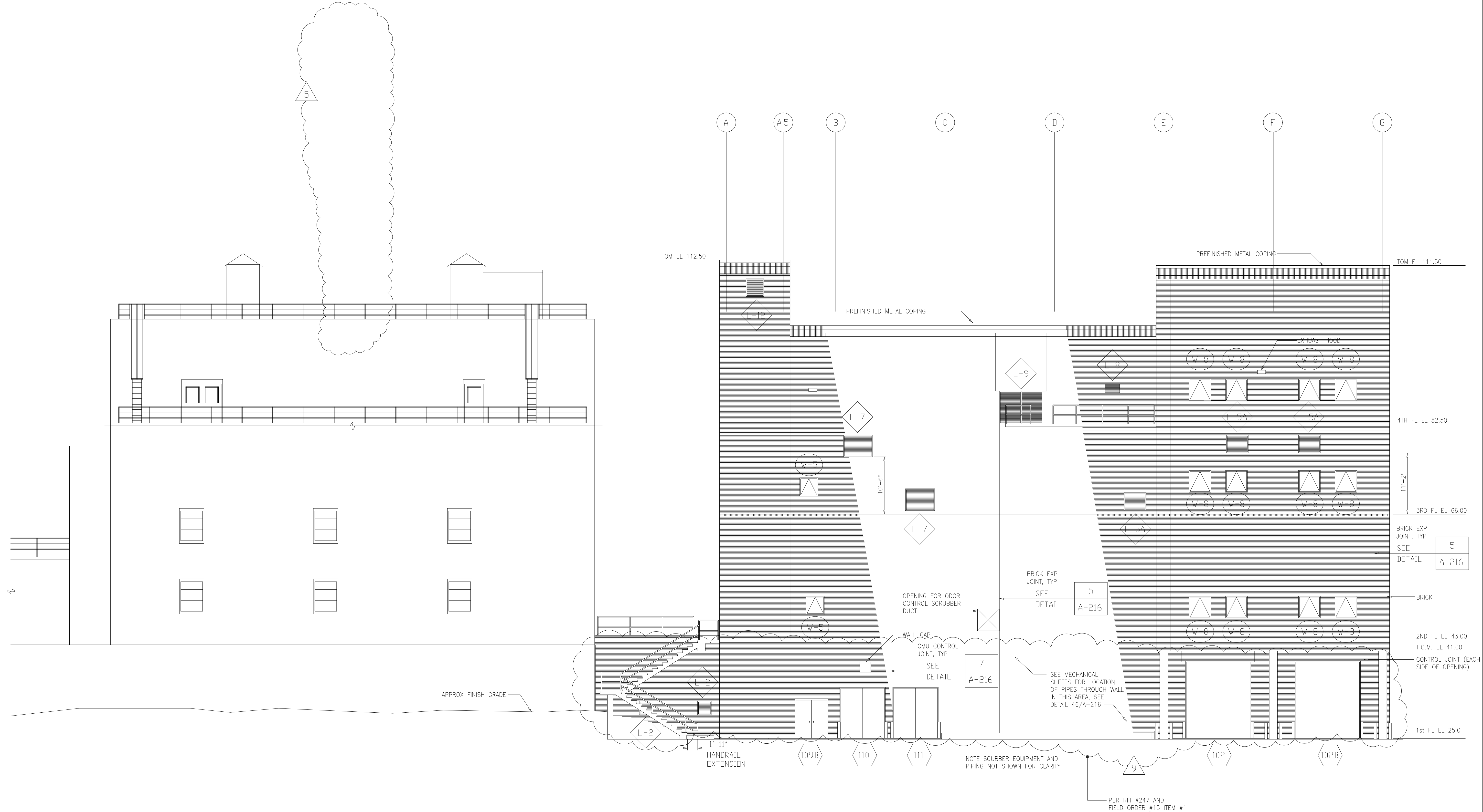


HAZENAND SAWYER
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RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ARCHITECTURAL
ROOF PLAN

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A-209
	SHEET	50 OF 199



EAST ELEVATION
1/8"=1'-0"

RECORD DRAWING

9	RECORD DRAWING	4-99	MKS								
8	WP4.5,6,7/7 CONST.-LAND APP. REDES.	4-96	RSD								
7	WP6/7 APPROVAL-LAND APP. REDES	3-96	RSD								
6	WP3 CONST.-LAND APP. REDES.	3-96	RSD								
5	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD								
4	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD								
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD								
2	CONSTRUCTION	9-94	JJB								
1	REGULATORY APPROVAL	9-94	JJB								
NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	APPROVED			

DESIGNED WBR
 DRAWN BRC
 CHECKED _____
 PROJ. ENGR. AB/RNC

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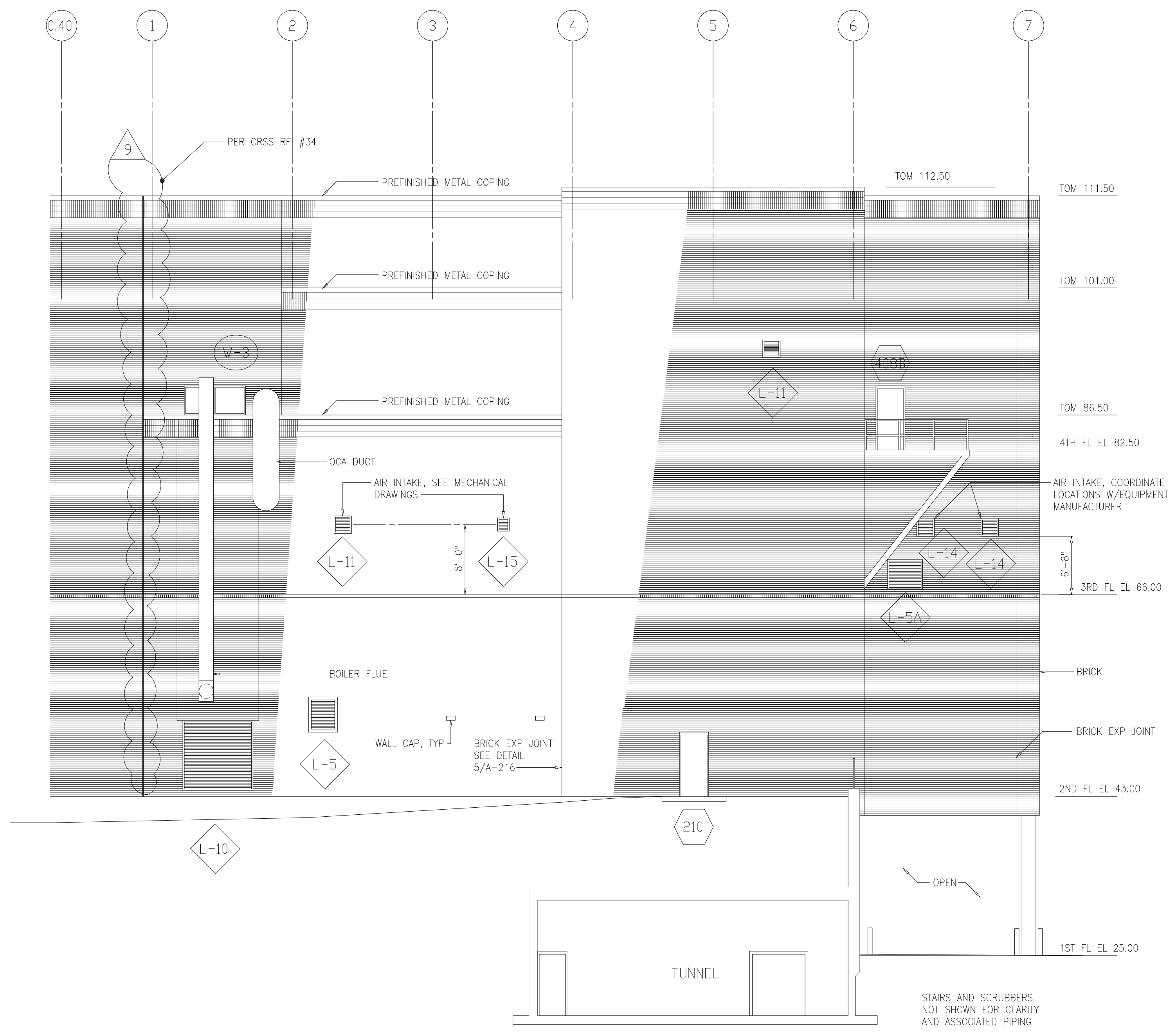
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 ARCHITECTURAL
 EAST ELEVATION

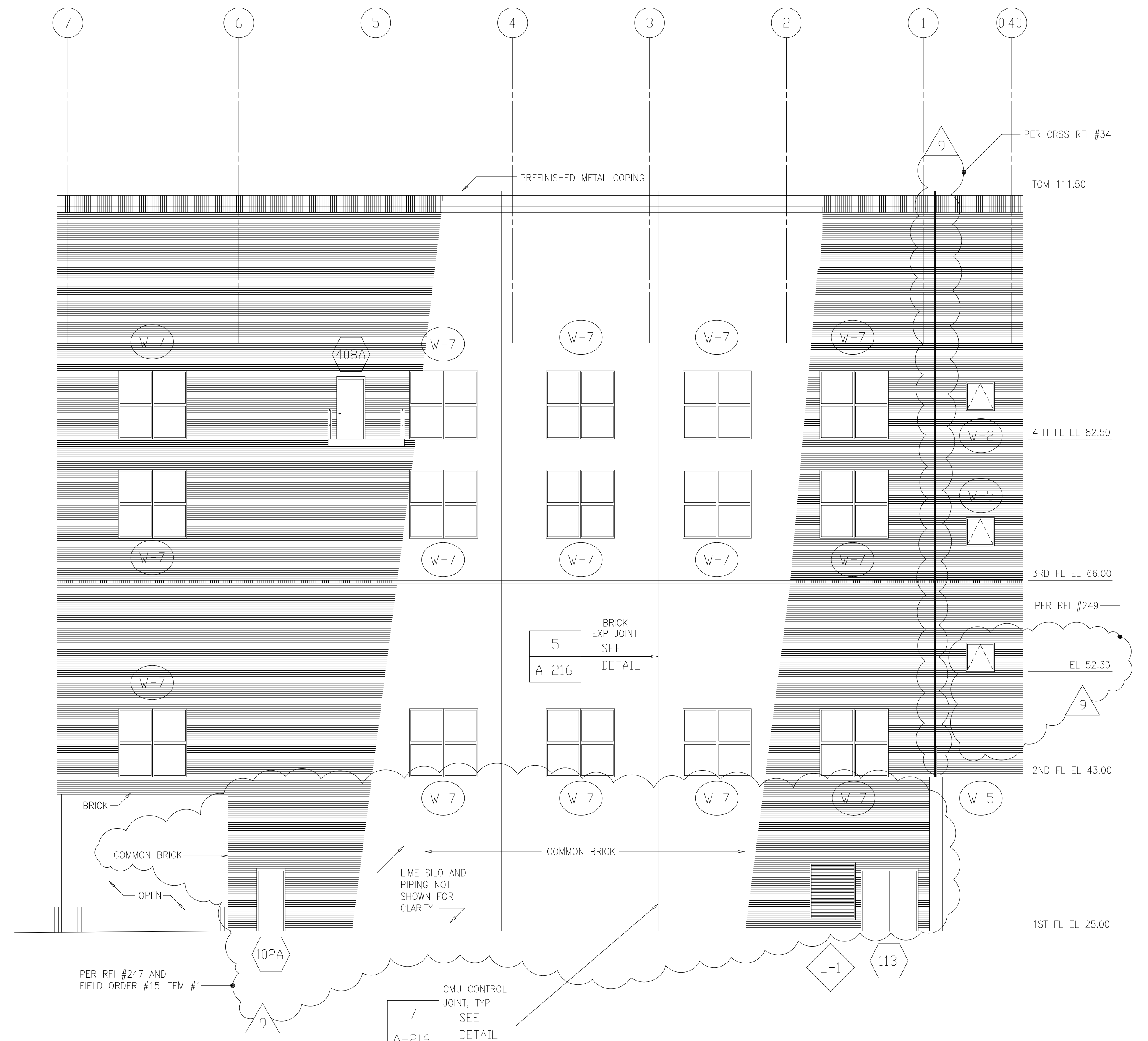
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

DATE	SEPT 94
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	A-210
SHEET	51 OF 199

FILED: 10/12/00 10:00 AM
 FILED: 10/12/00 10:00 AM
 BY: MTT/MS



SOUTH ELEVATION
1/8"=1'-0"



NORTH ELEVATION
1/8"=1'-0"

RECORD DRAWING

9	RECORD DRAWING	4-99	MKS						
8	WP4.5,6,7 CONST.-LAND APP. REDES.	4-96	RSD						
7	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD						
6	WP3 CONST.-LAND APP. REDES.	3-96	RSD						
5	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD						
4	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD						
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD						
2	CONSTRUCTION	9-94	JJB						
1	REGULATORY APPROVAL	9-94	JJB						
NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	APPROVED	

DESIGNED WBR
DRAWN BRC
CHECKED
PRJ. ENGR. AB/RNC

APPROVED

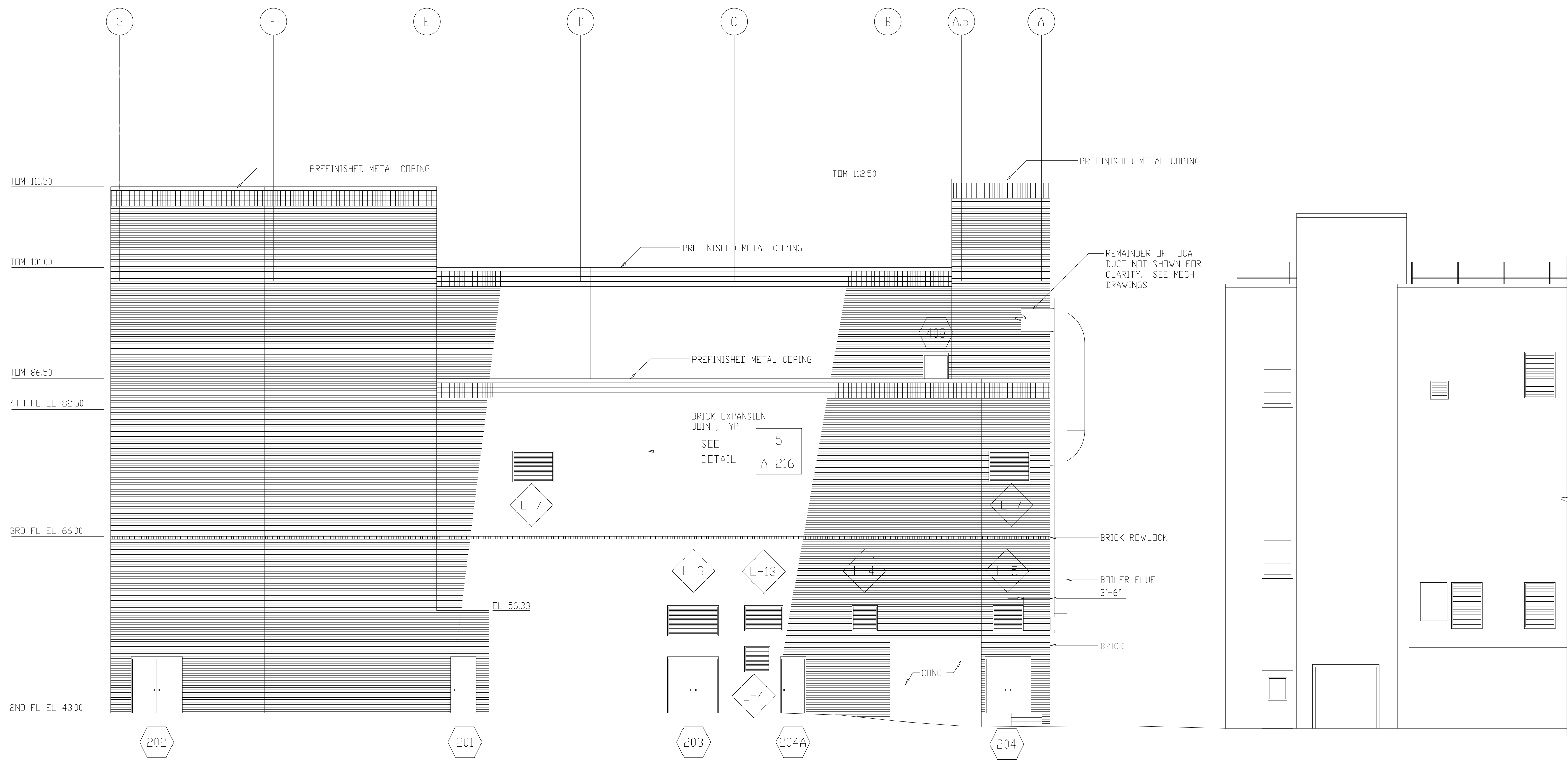
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ARCHITECTURAL
NORTH AND SOUTH ELEVATIONS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
H & S JOB NUMBER 2843	DRAWING NUMBER A-211
CONTRACT NUMBER 93-02-WPC	SHEET 52 OF 199

PLOT DATE: 10/10/00 10:00am FILE: H:\0303\0303\0303\0303.dwg BY: MITS SHEET FILE: NONE

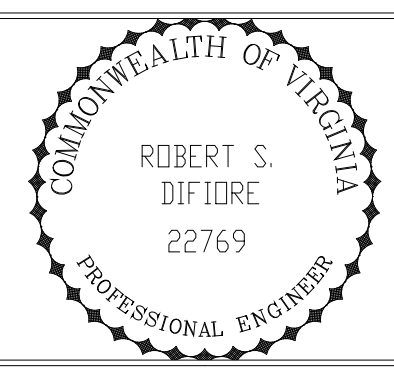


WEST ELEVATION
1/8"=1'-0"

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY
7	RECORD DRAWING	4-99	MKS				
6	WP4,5,6/7 CONST.-LAND APP. REDES.	4-96	RSD				
5	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD				
4	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD				
3	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD				
2	CONSTRUCTION	9-94	JJB				
1	REGULATORY APPROVAL	9-94	JJB				

DESIGNED: WBR
 DRAWN: BRC
 CHECKED:
 PROJ.ENGR.: AB/RNC
 APPROVED:



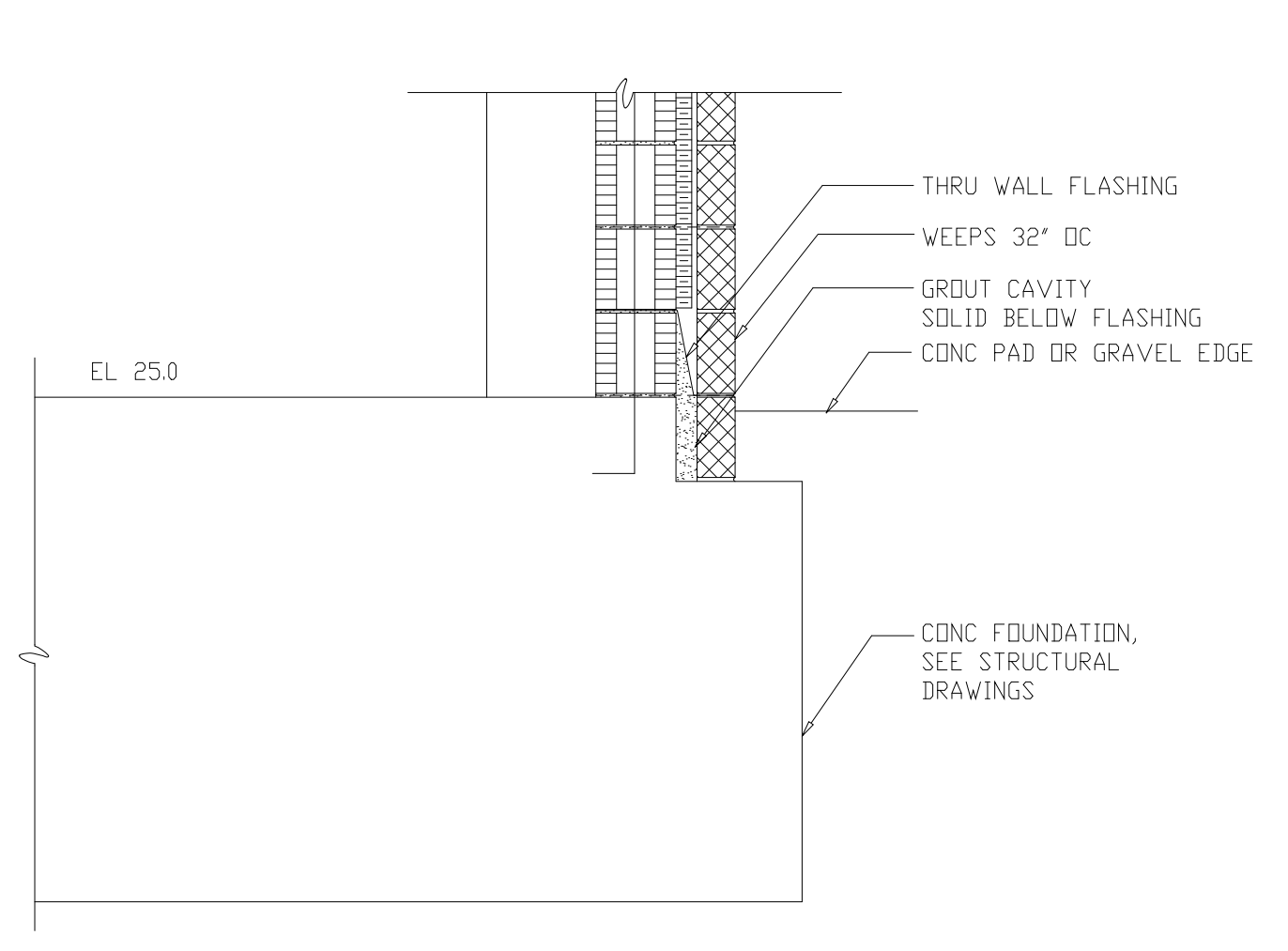
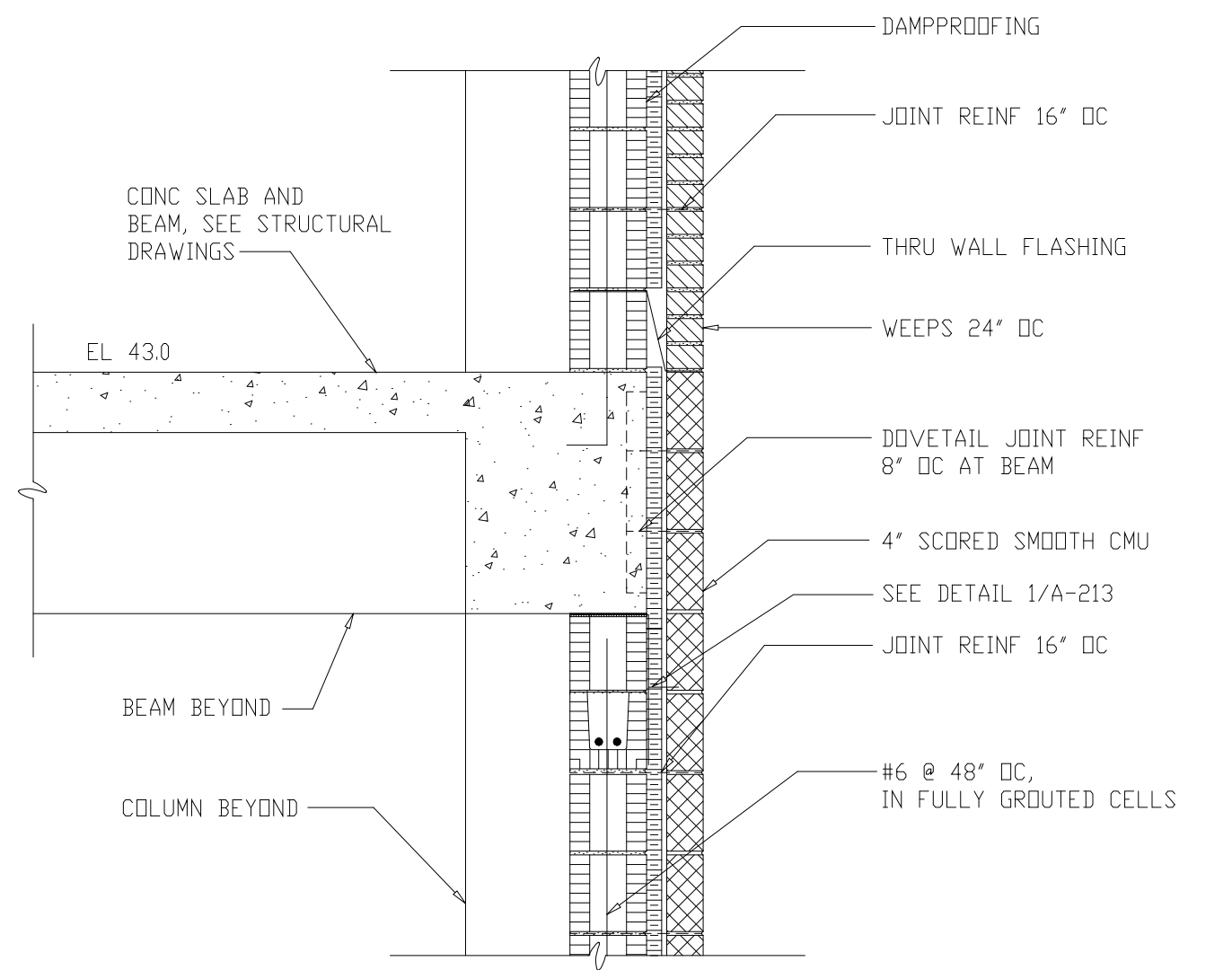
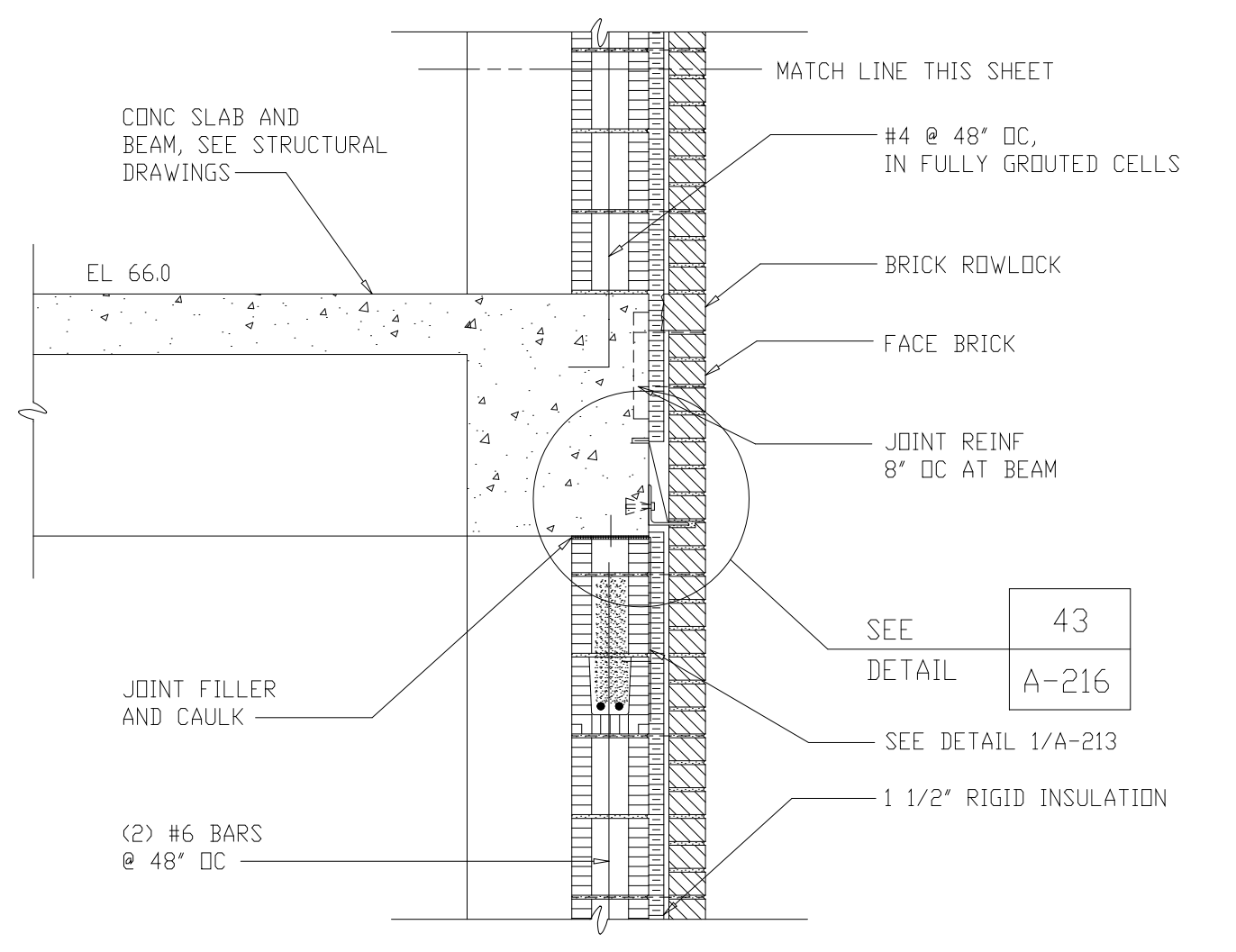
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 Environmental Engineers & Scientists
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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III
 SOLIDS PROCESSING FACILITIES

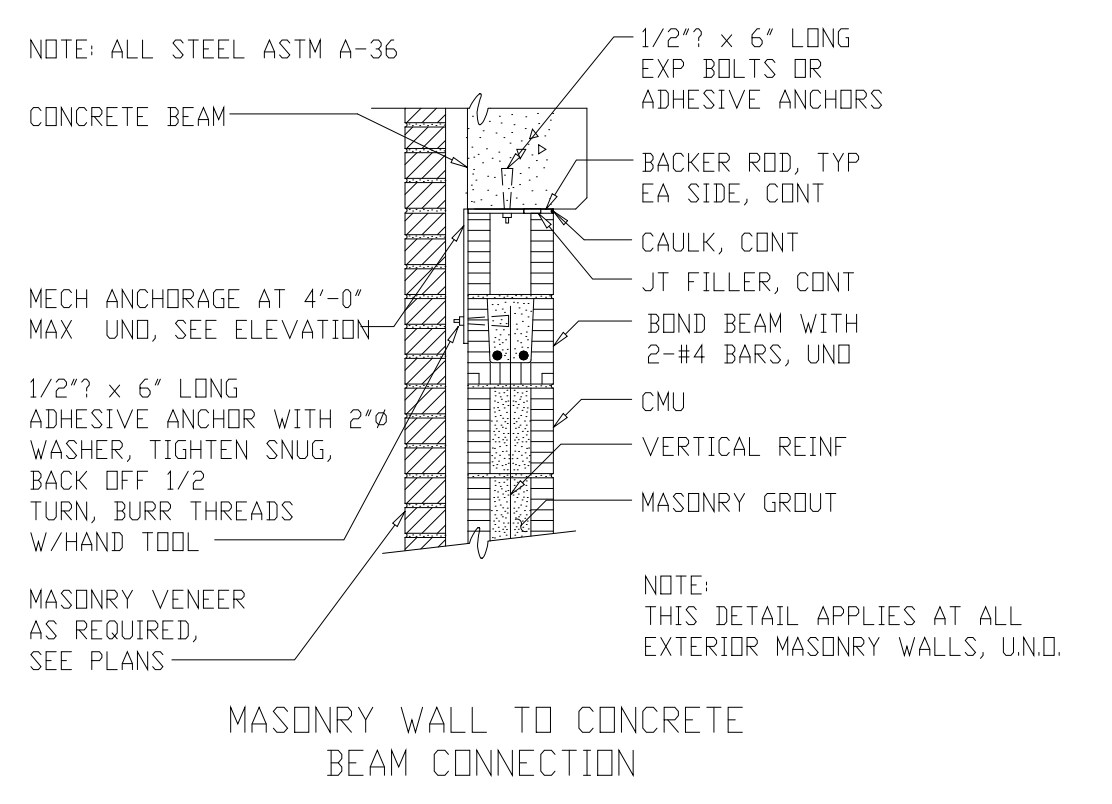
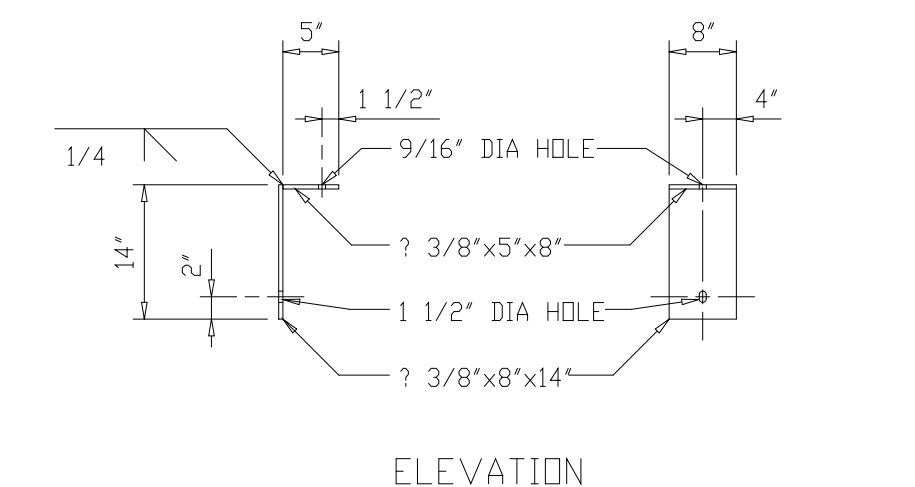
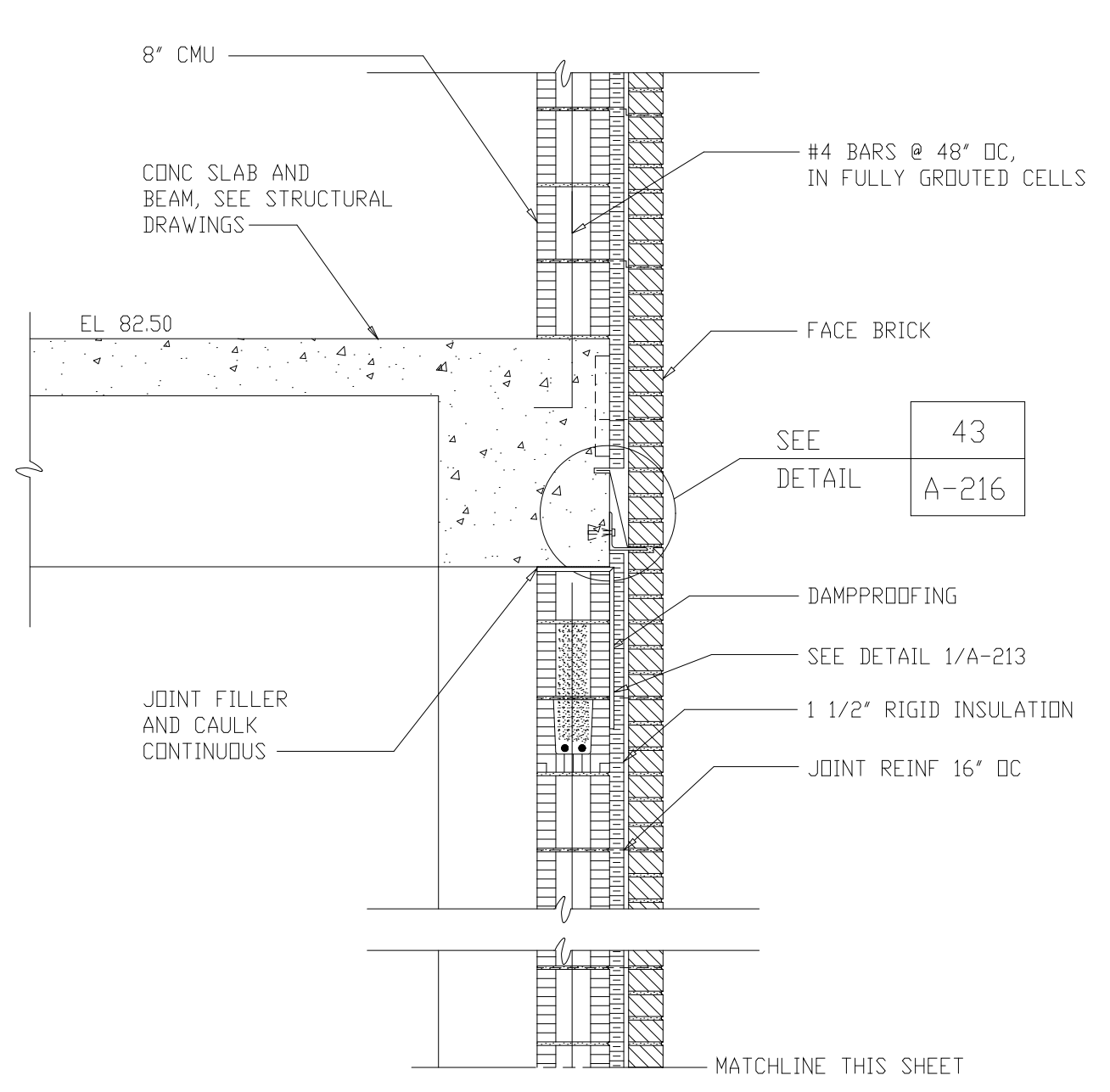
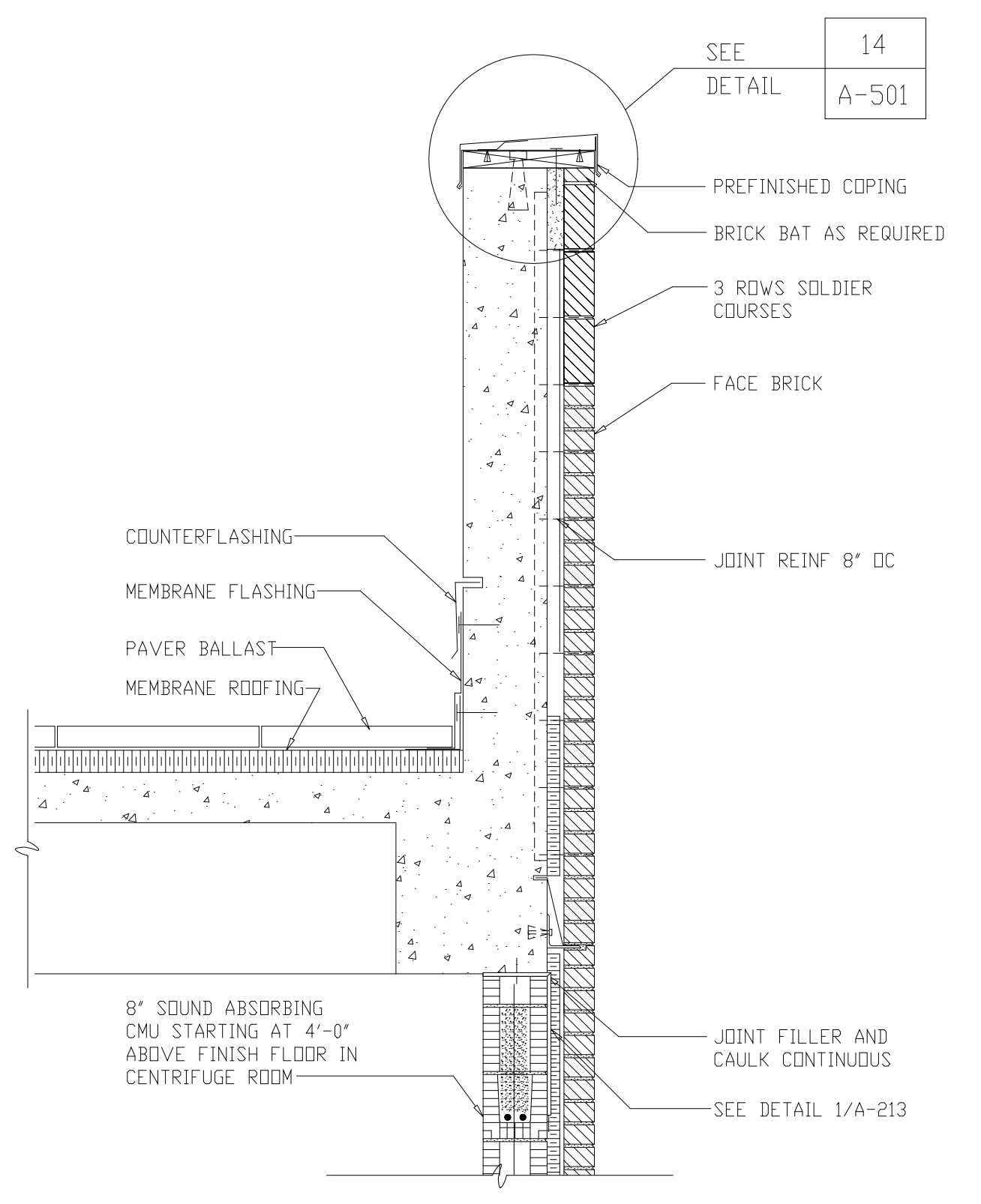
CENTRIFUGE DEWATERING BUILDING
 ARCHITECTURAL
 WEST ELEVATION

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	A-212
SHEET	53 OF 199

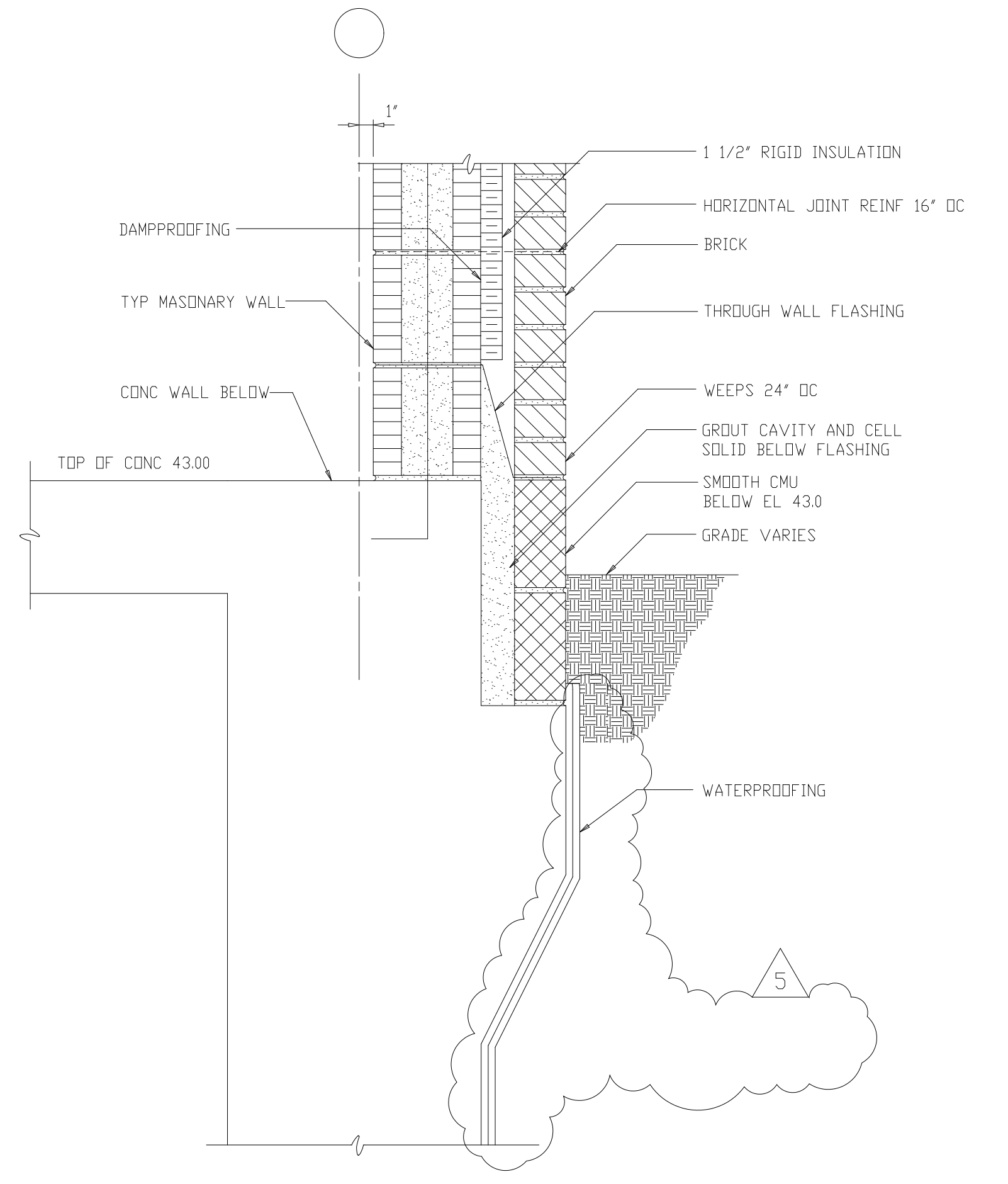
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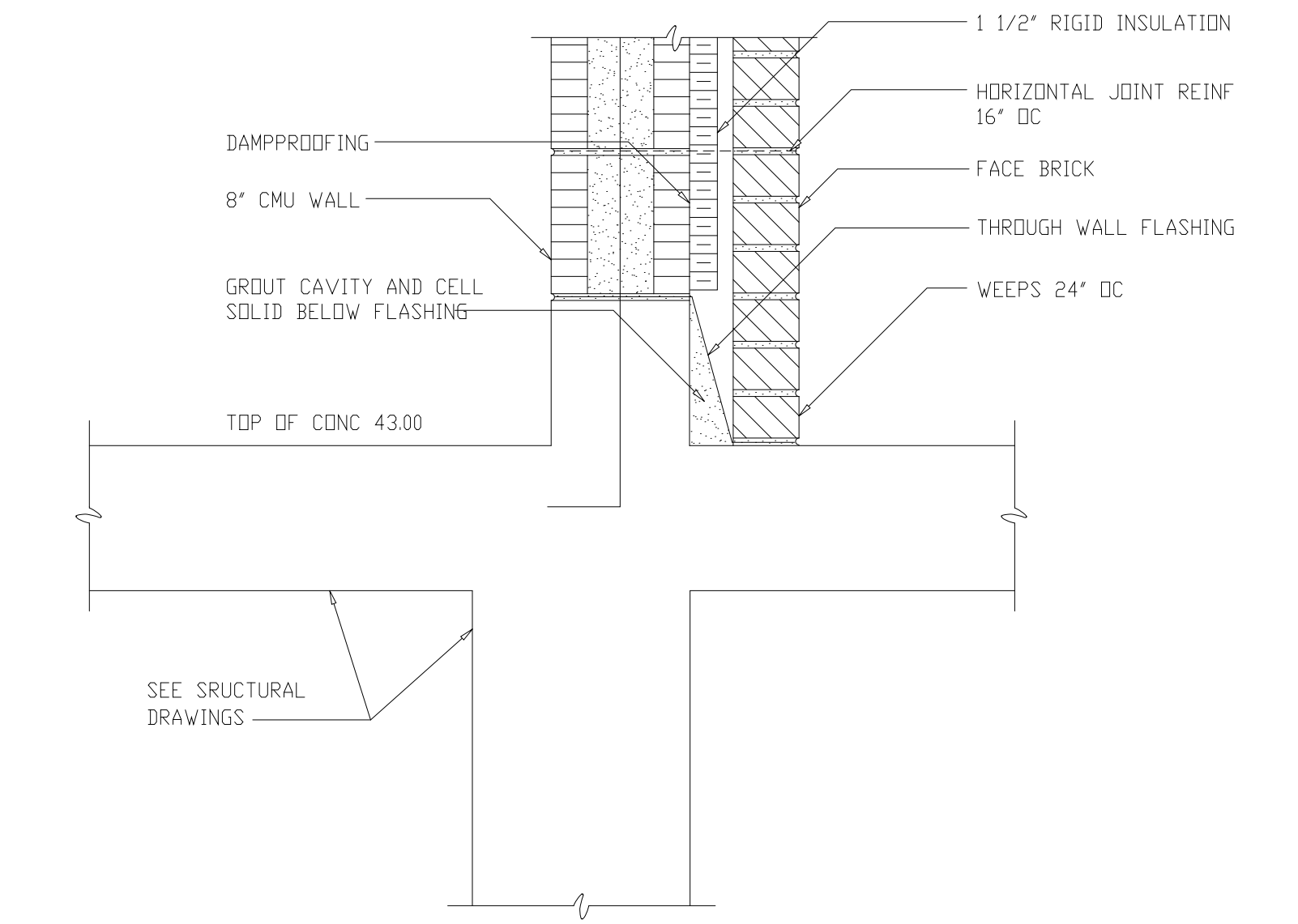
TYPICAL WALL SECTION
SECTION A
3/4"=1'-0" A-202



DETAIL 1
NTS A-213



SEE SECTION A / A-213 FOR INFORMATION ABOVE ELEVATION 43.0
SECTION C
1 1/2"=1'-0" A-203

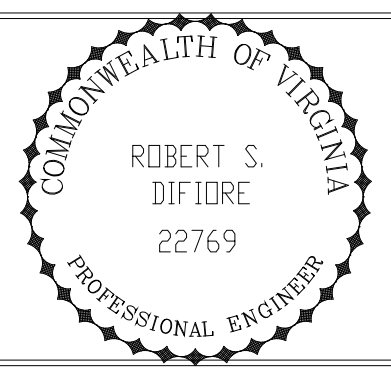


SECTION D
1 1/2"=1'-0" A-203

RECORD DRAWING

PLT: 10/24/2019 10:00 AM FILE: H:\3000\3000\3000\3000\3000.dwg BY: WHTS WSP FILE: NDR

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8	WP4.5,6,7/7 CONST-LAND APP. REDES	4-96	RSD	DRAWN	BRC
7	WP6/7 APPROVAL-LAND APP. REDES	3-96	RSD	CHECKED	
6	WP3 CONST-LAND APP. REDES	3-96	RSD	PROJ. ENGR.	AB/RNC
5	WP5 APPROVAL-LAND APP. REDES	2-96	RSD		
4	WP4 APPROVAL-LAND APP. REDES	1-96	RSD		
3	WP3 APPROVAL-LAND APP. REDES	1-96	RSD		
2	CONSTRUCTION	9-94	JJB		
1	REGULATORY APPROVAL	9-94	JJB		
NO.	ISSUED FOR	DATE	BY	APPROVED	

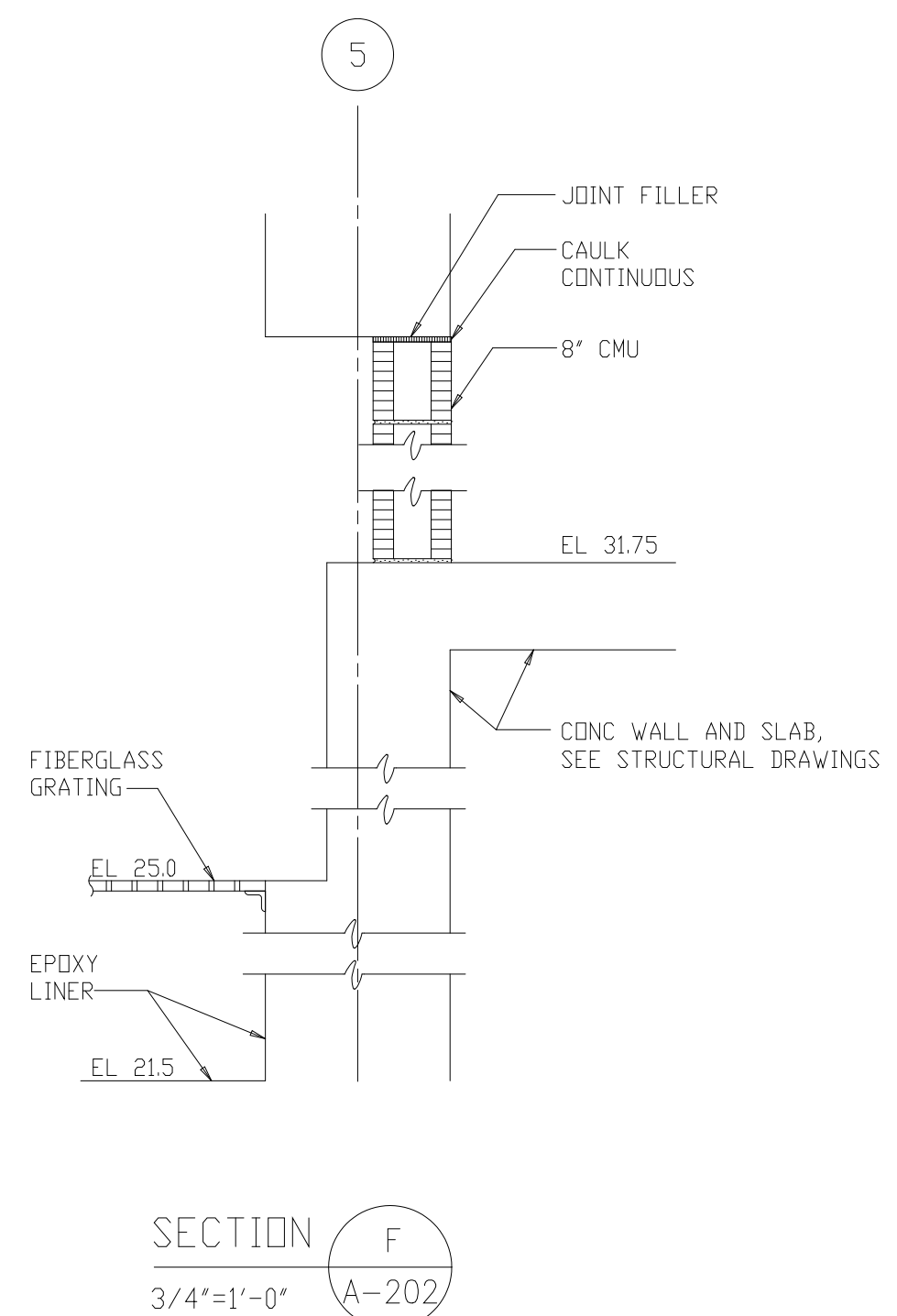
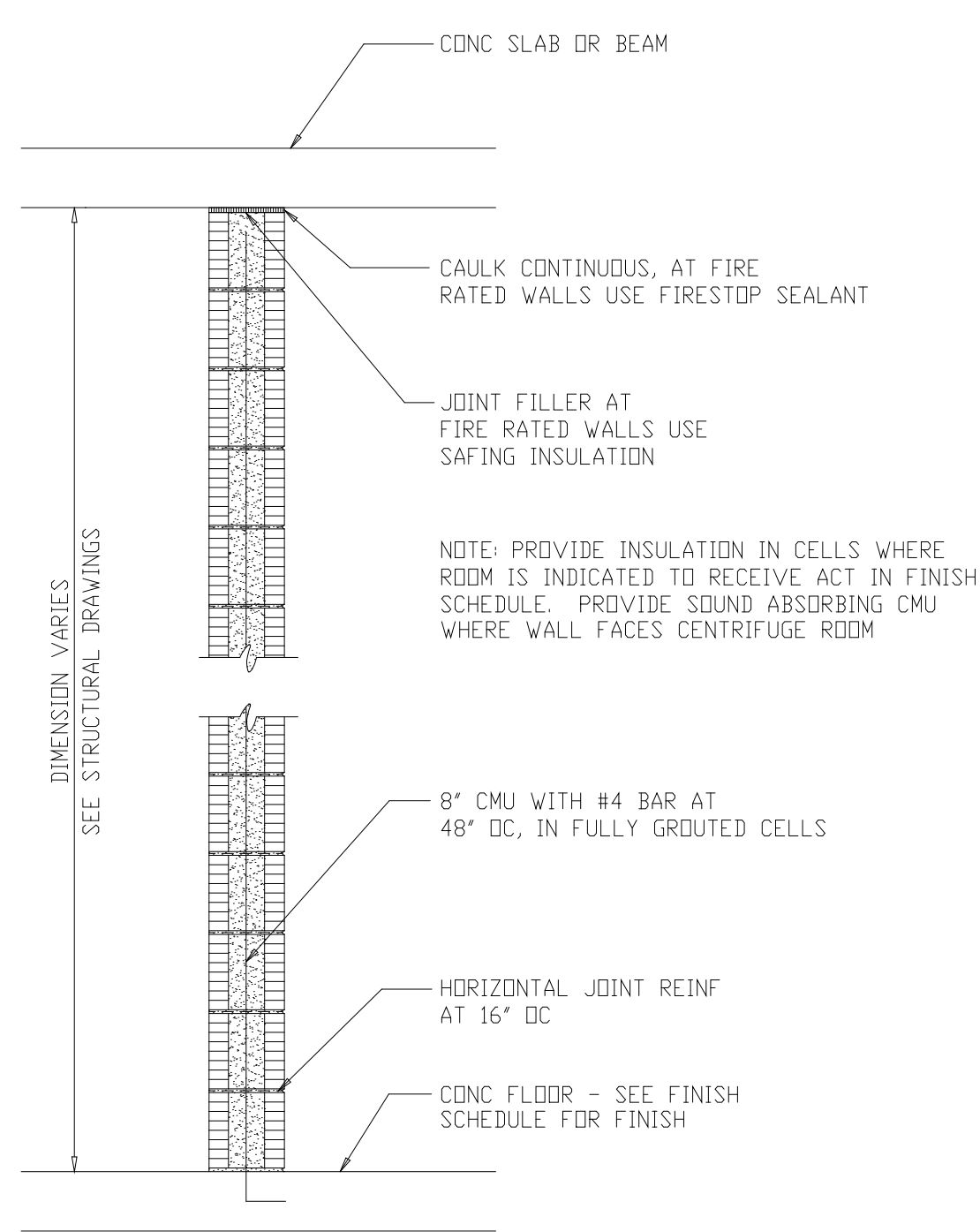


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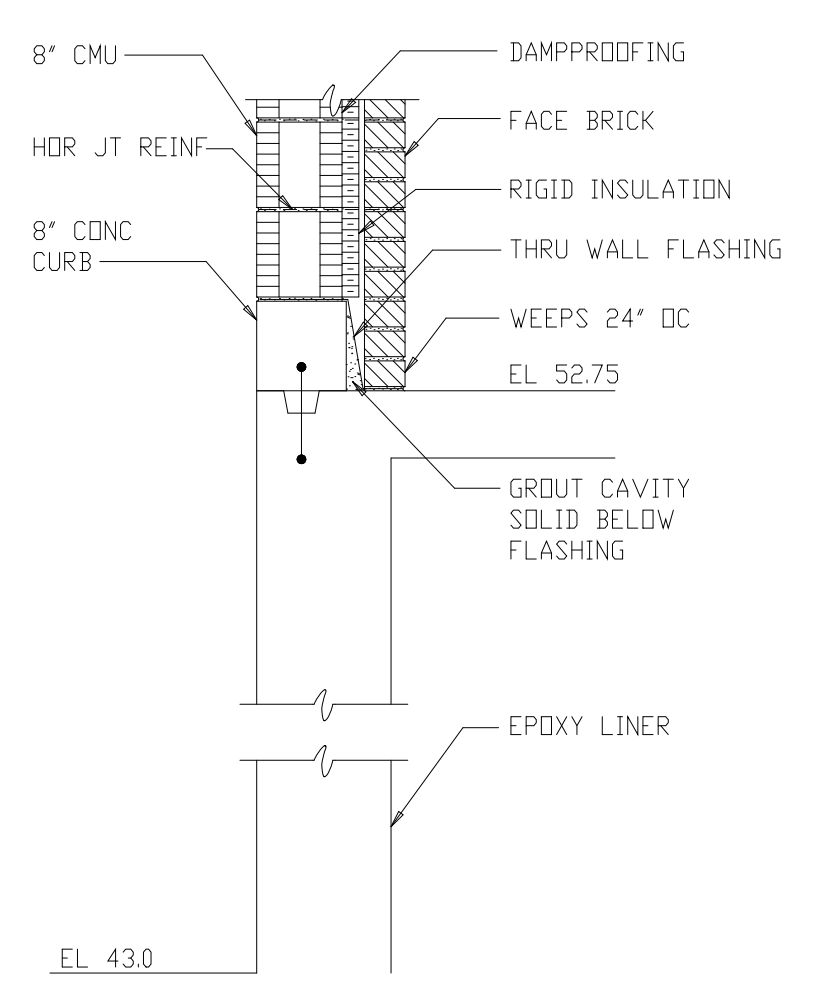
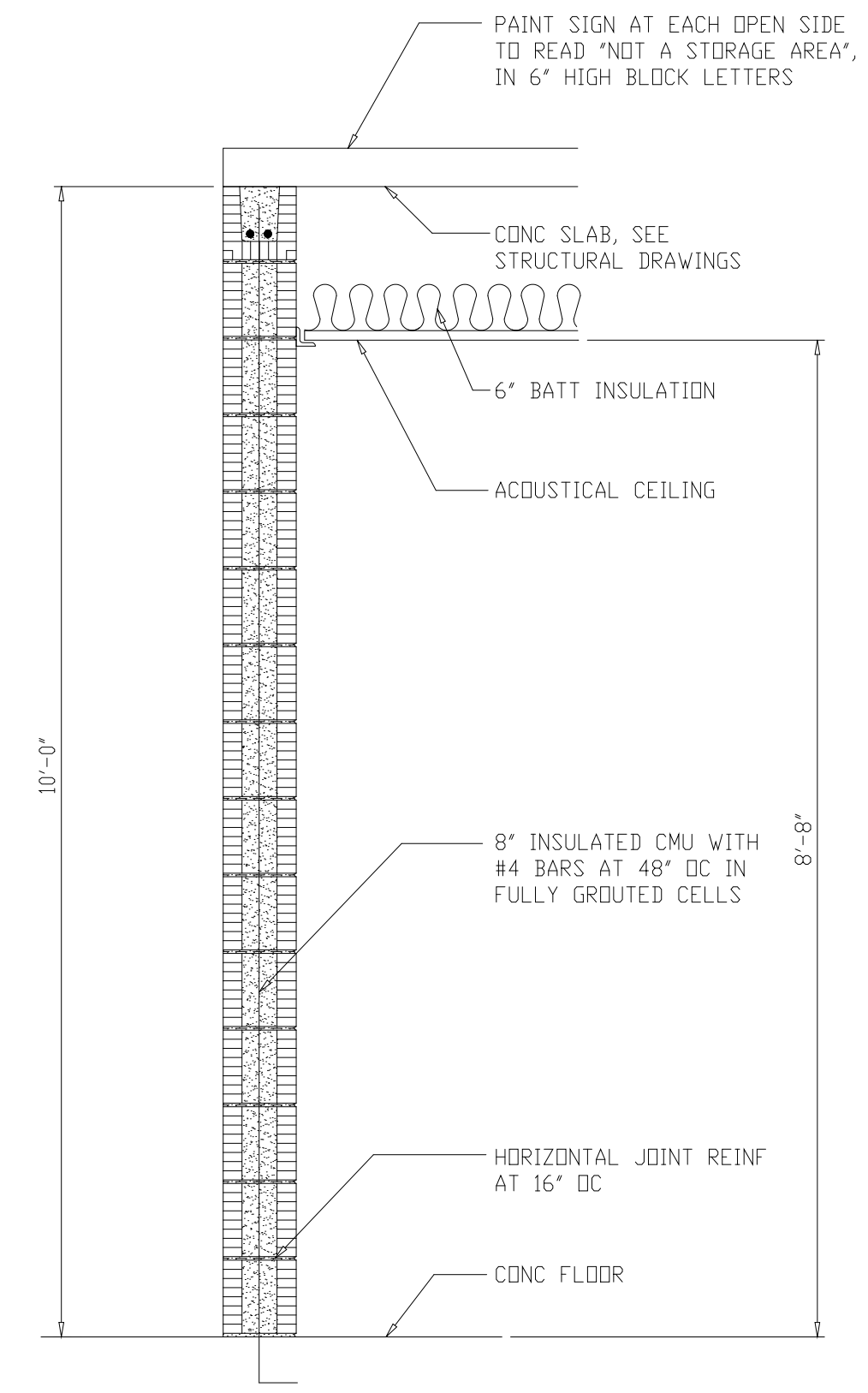
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ARCHITECTURAL
WALL SECTIONS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A-213
	SHEET	54 OF 199

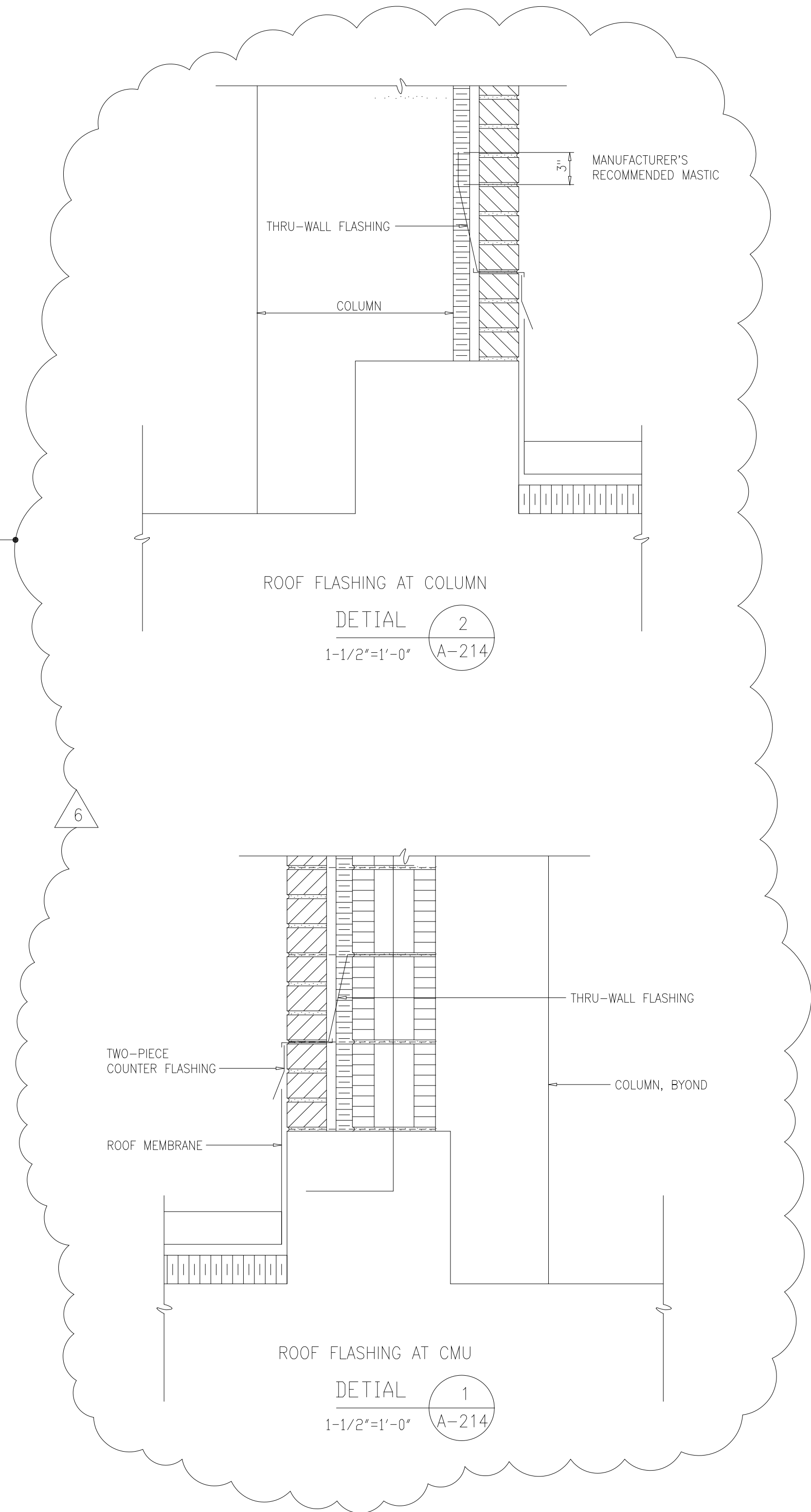
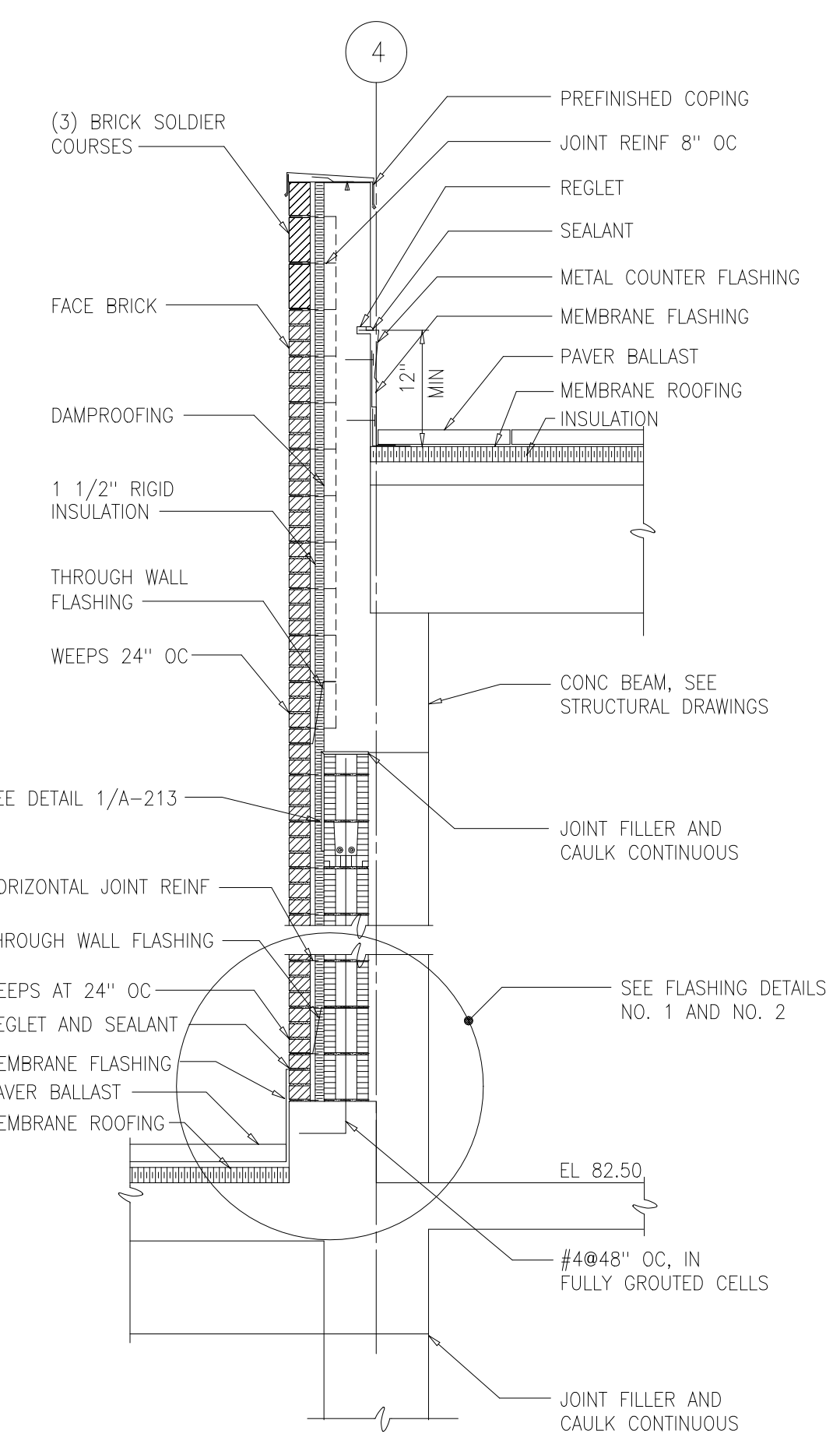


TYPICAL INTERIOR WALL
SECTION E
3/4"=1'-0"



SECTION G
3/4"=1'-0"

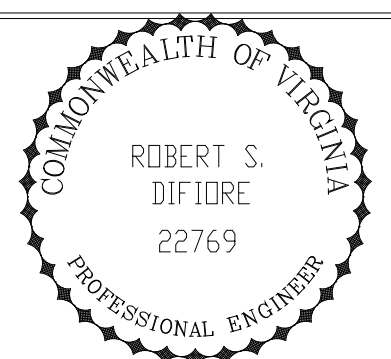
SECTION H
3/4"=1'-0"



RECORD DRAWING

FILE: H:\0303\DC\030305\030305.dwg BY: WATTS DATE: 08/24/94
 FILE: H:\0303\DC\030305\030305.dwg BY: WATTS DATE: 08/24/94

DESIGNED	ETM		
DRAWN	BRC		
CHECKED			
PROJ. ENGR.	AB/RNC		
NO.	DATE	BY	APPROVED
6	RECORD DRAWING	4-99	MKS
5	WPS 6/7 CONST.-LAND APP. REDES.	4-96	RSD
4	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD
3	WPS APPROVAL-LAND APP. REDES.	2-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
	ISSUED FOR		

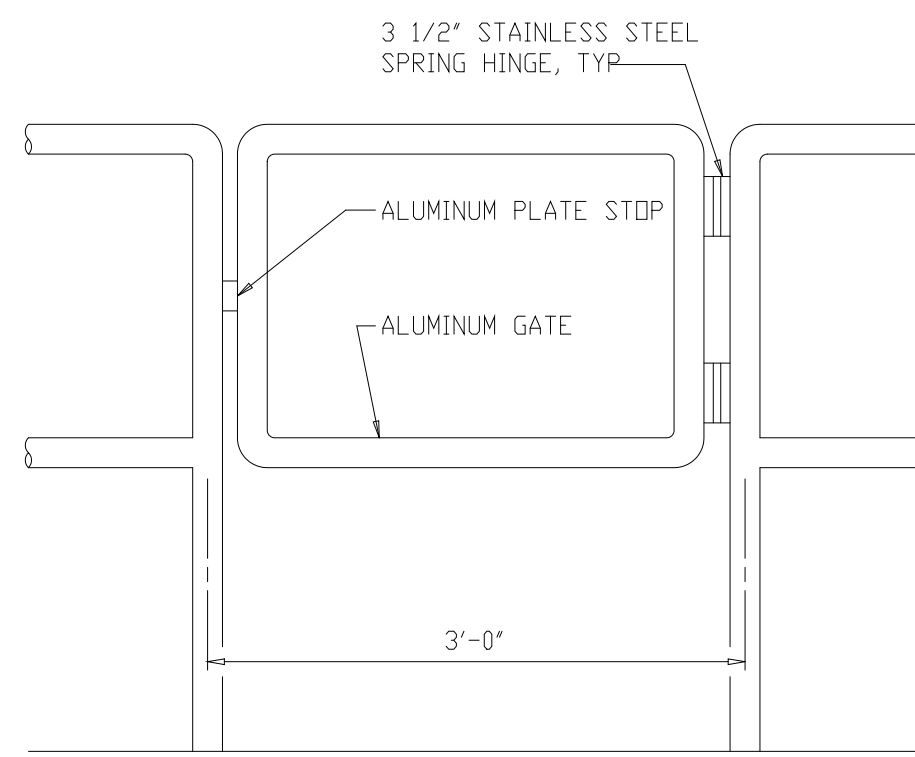


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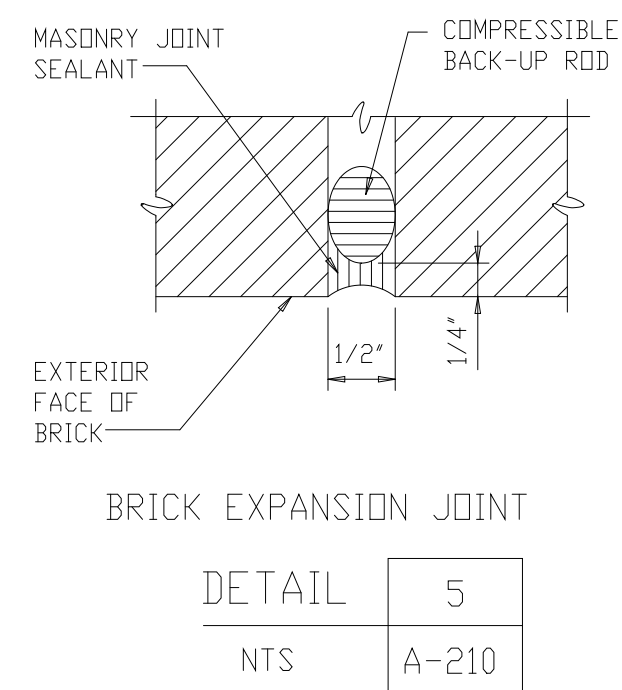
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ARCHITECTURAL
SECTIONS AND DETAILS
SHEET 1

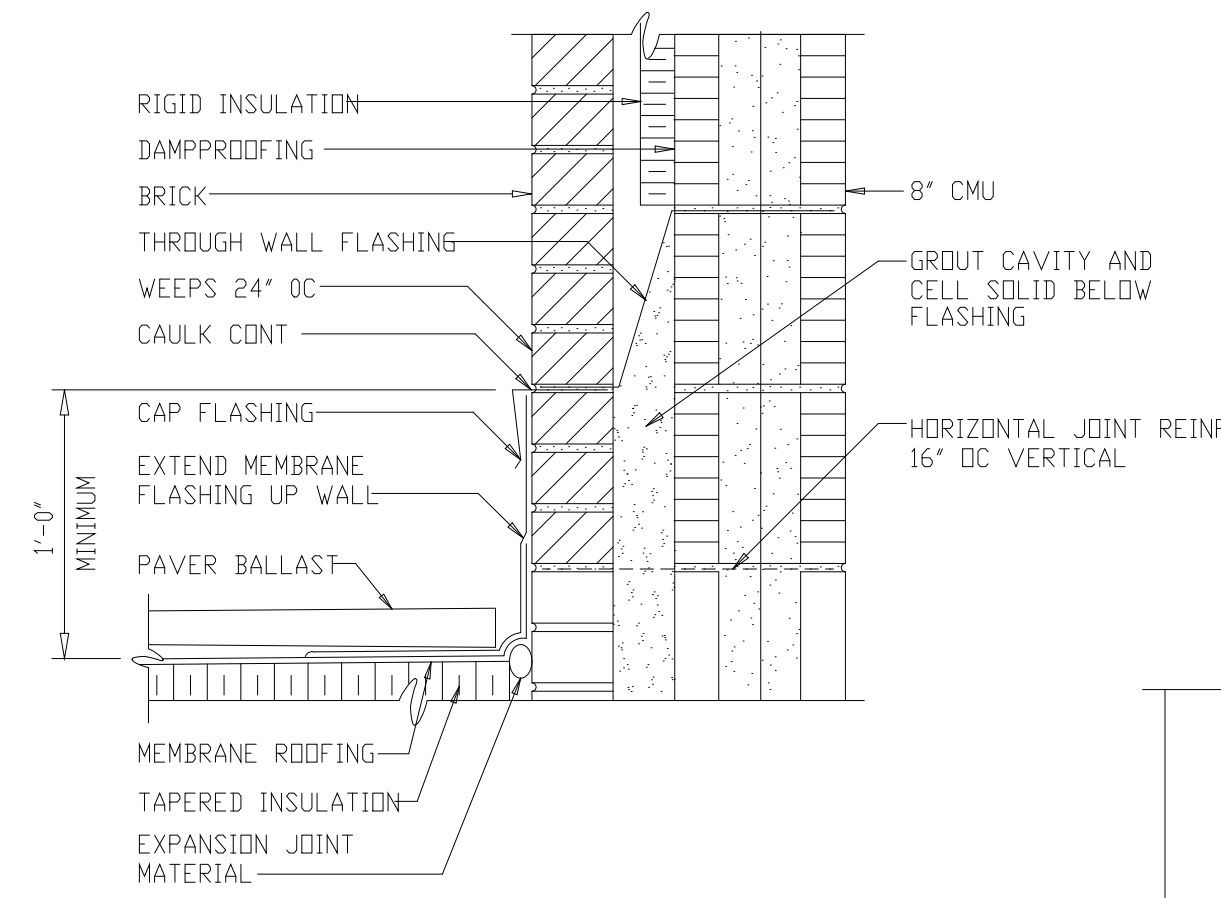
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A-214
	SHEET	55 OF 199



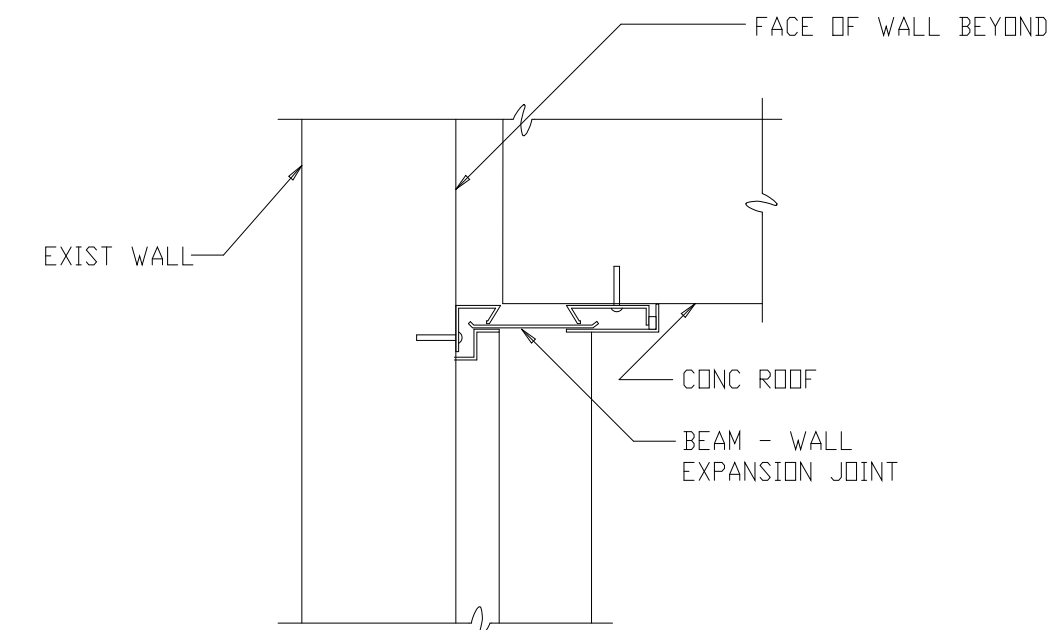
ALUMINUM RAIL GATE
 DETAIL 4
 1'-1'-0" A-202



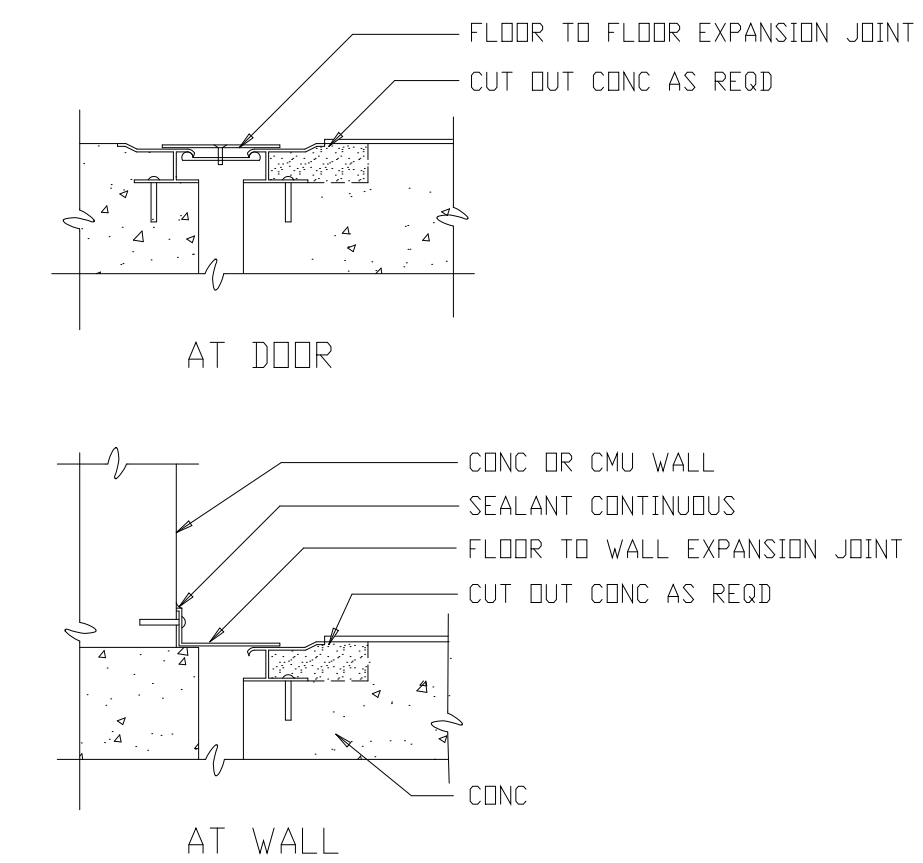
BRICK EXPANSION JOINT
 DETAIL 5
 NTS A-210



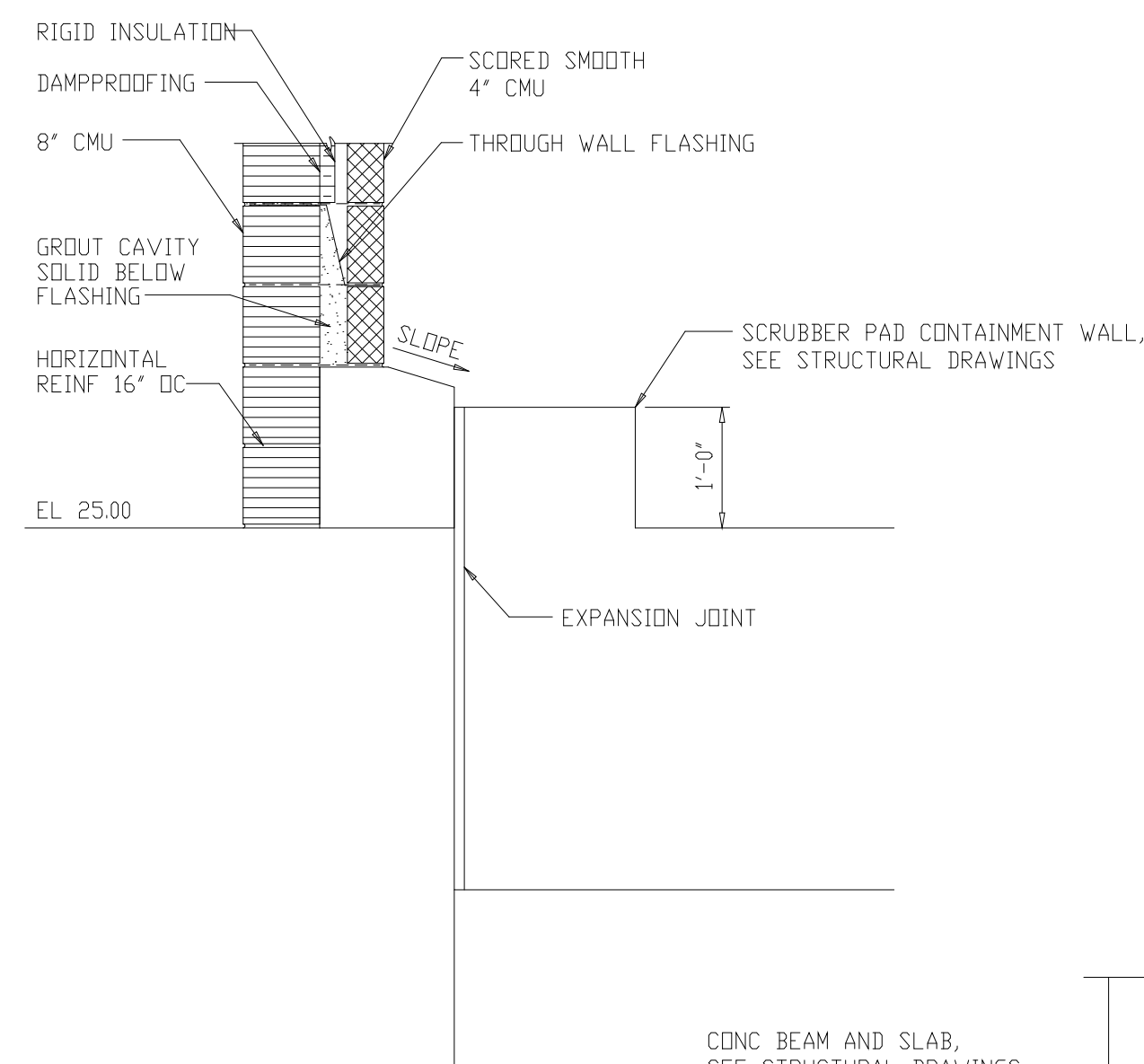
DETAIL 6
 1 1/2'-1'-0" A-209



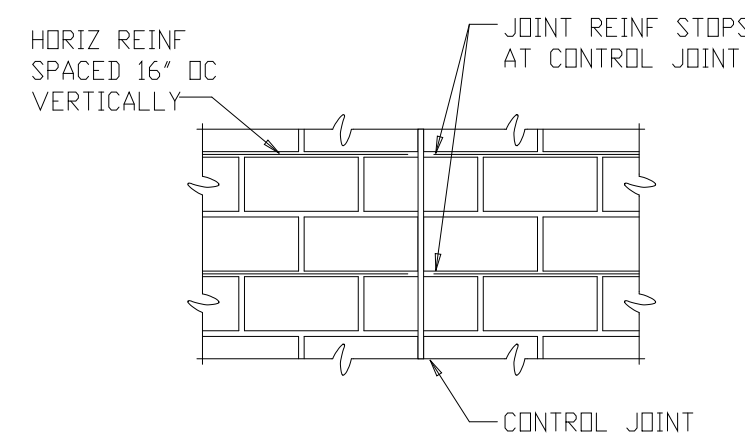
TYP EXPANSION JOINT DETAILS
 DETAIL 44
 1 1/2'-1'-0" A-202



NON-FIRE RATED WALL PENETRATION
 DETAIL 46
 NTS A-210

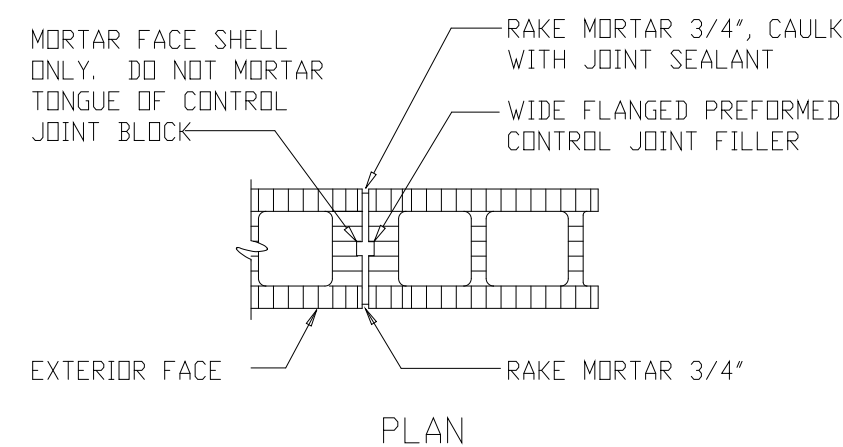


SECTION P
 3/4'-1'-0" A-202

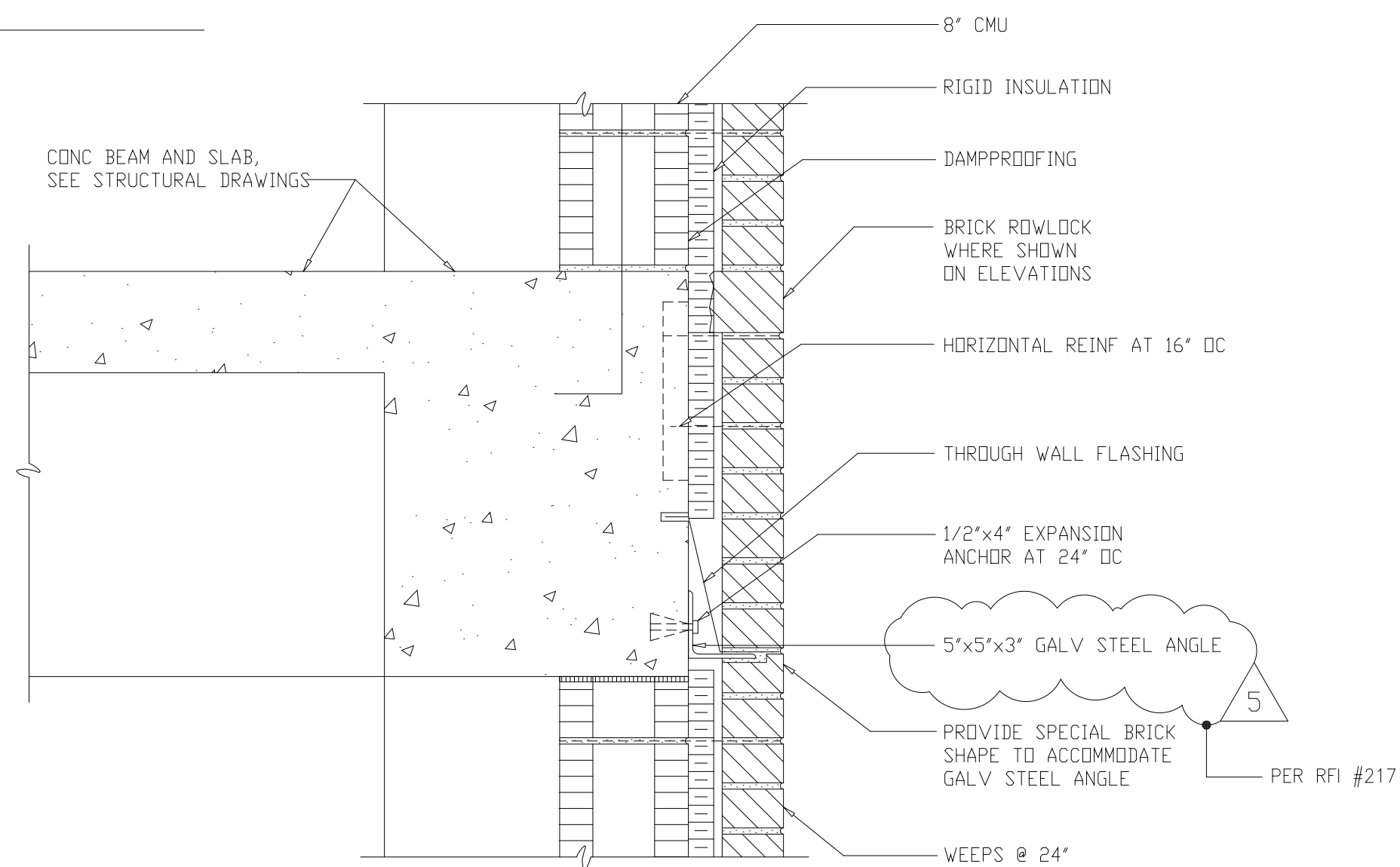


NOTE: CONTROL JOINTS MAY BE OFFSET A MAXIMUM DISTANCE OF 8". CROSS WIRES WITHIN THIS OFFSET SHALL BE CUT.

ELEVATION



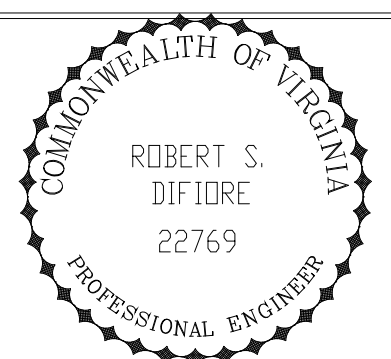
CONTROL JOINT BLOCK
 DETAIL 7
 NTS A-210



DETAIL 43
 1 1/2'-1'-0" A-213

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	

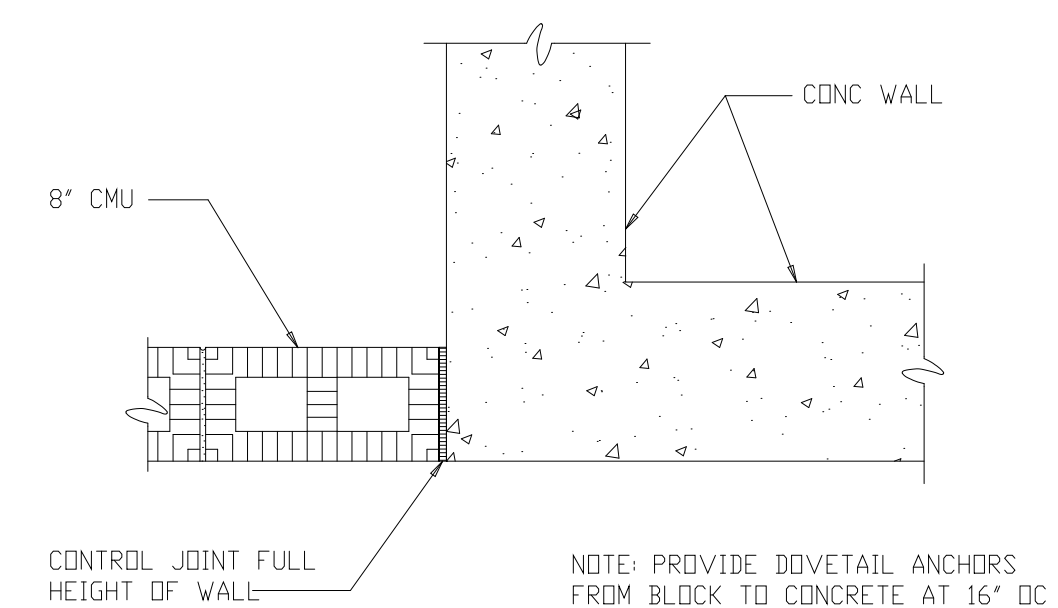
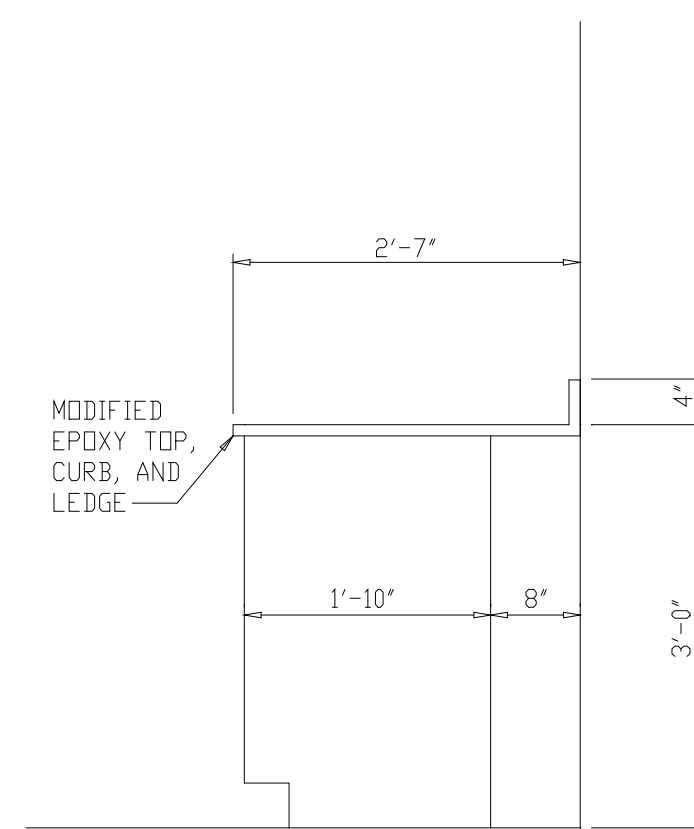
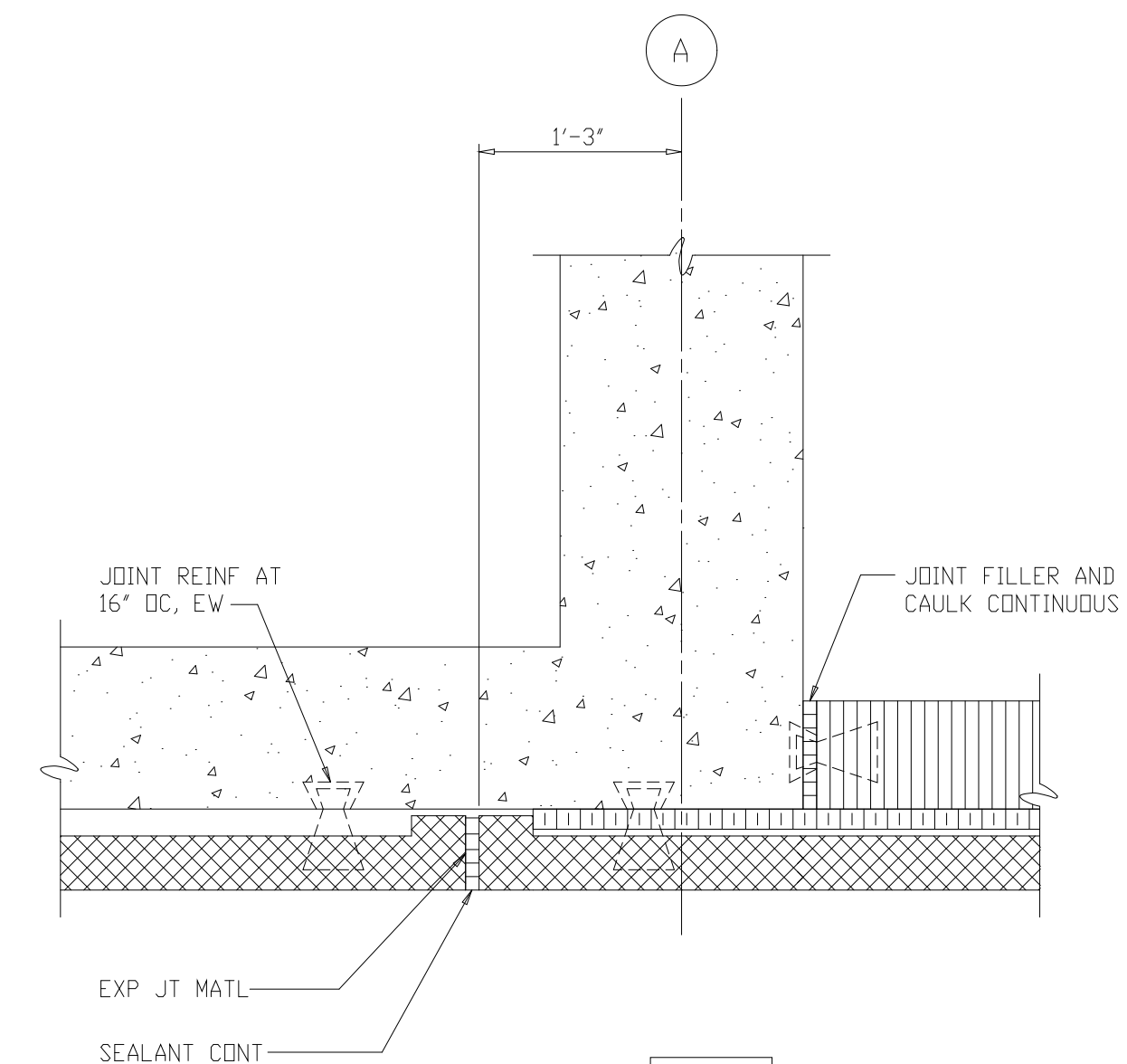
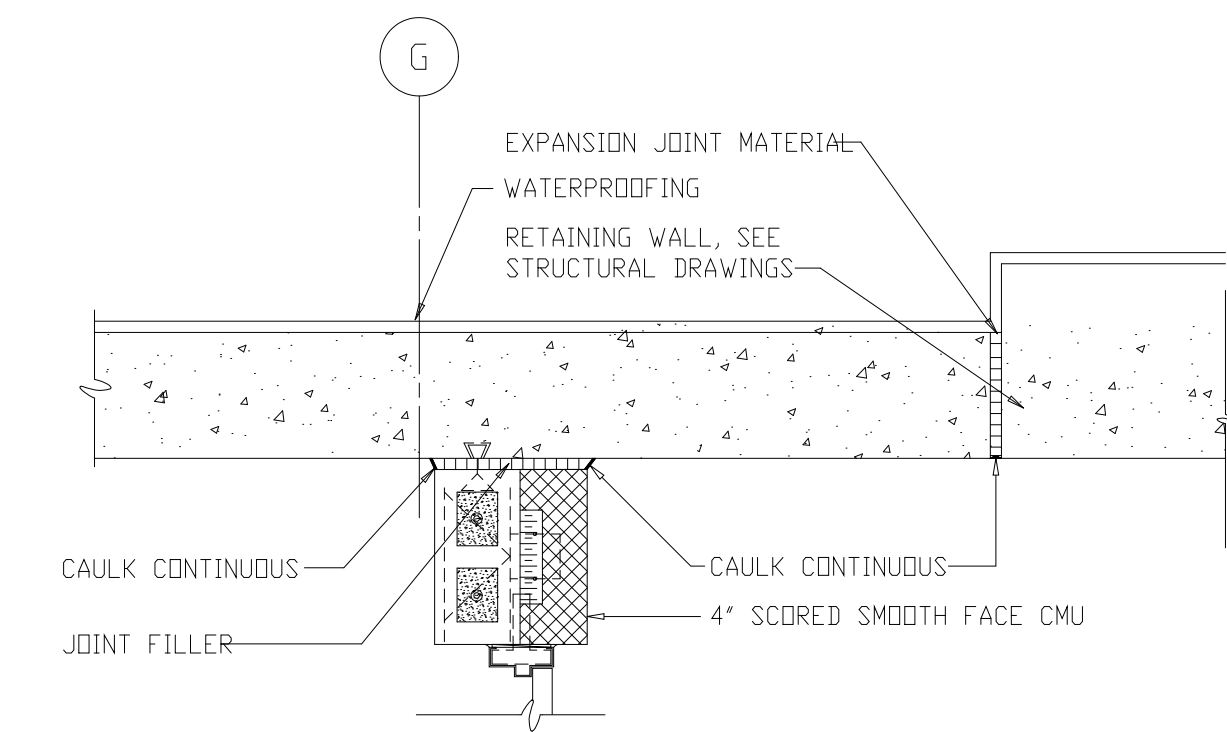
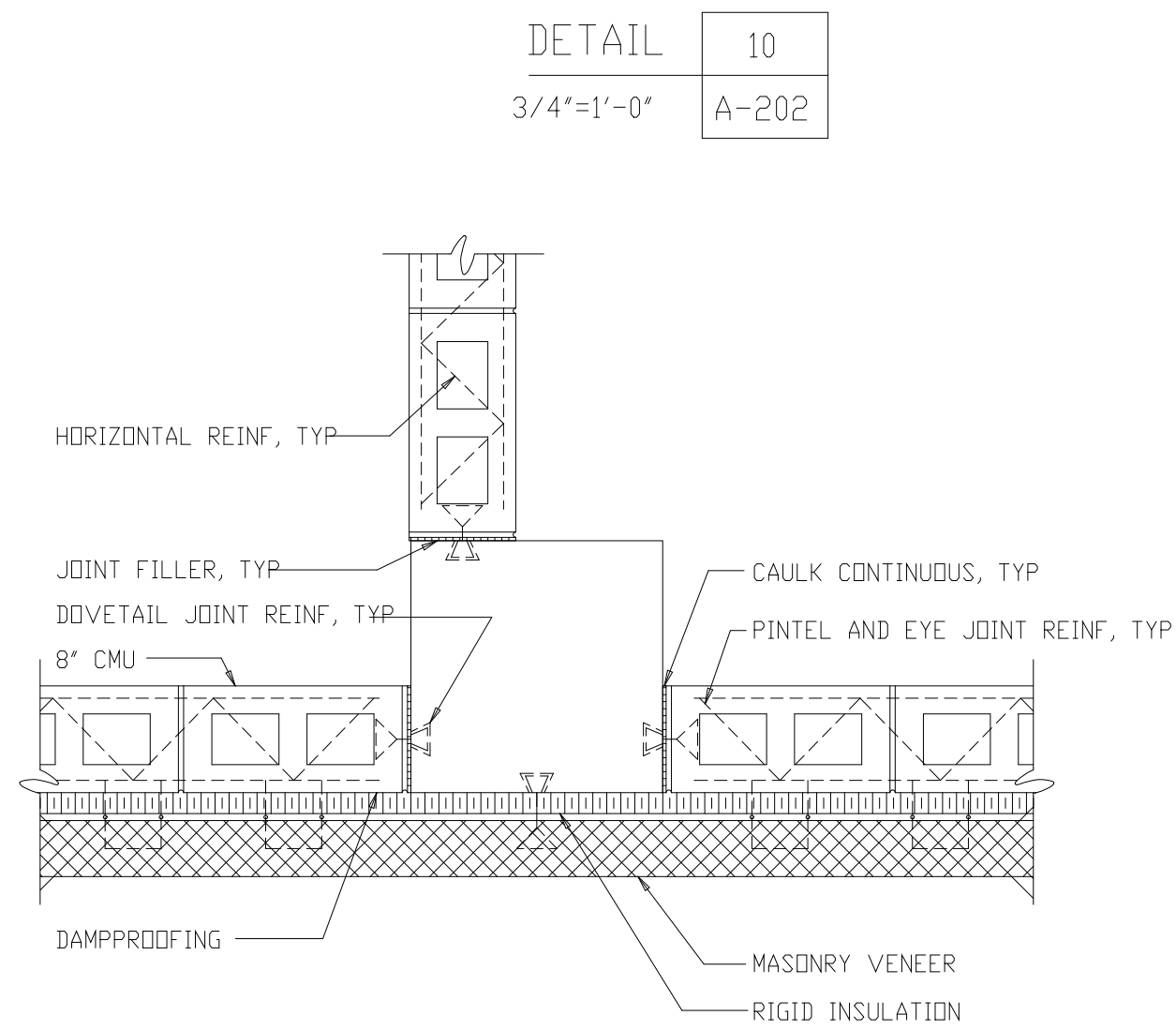
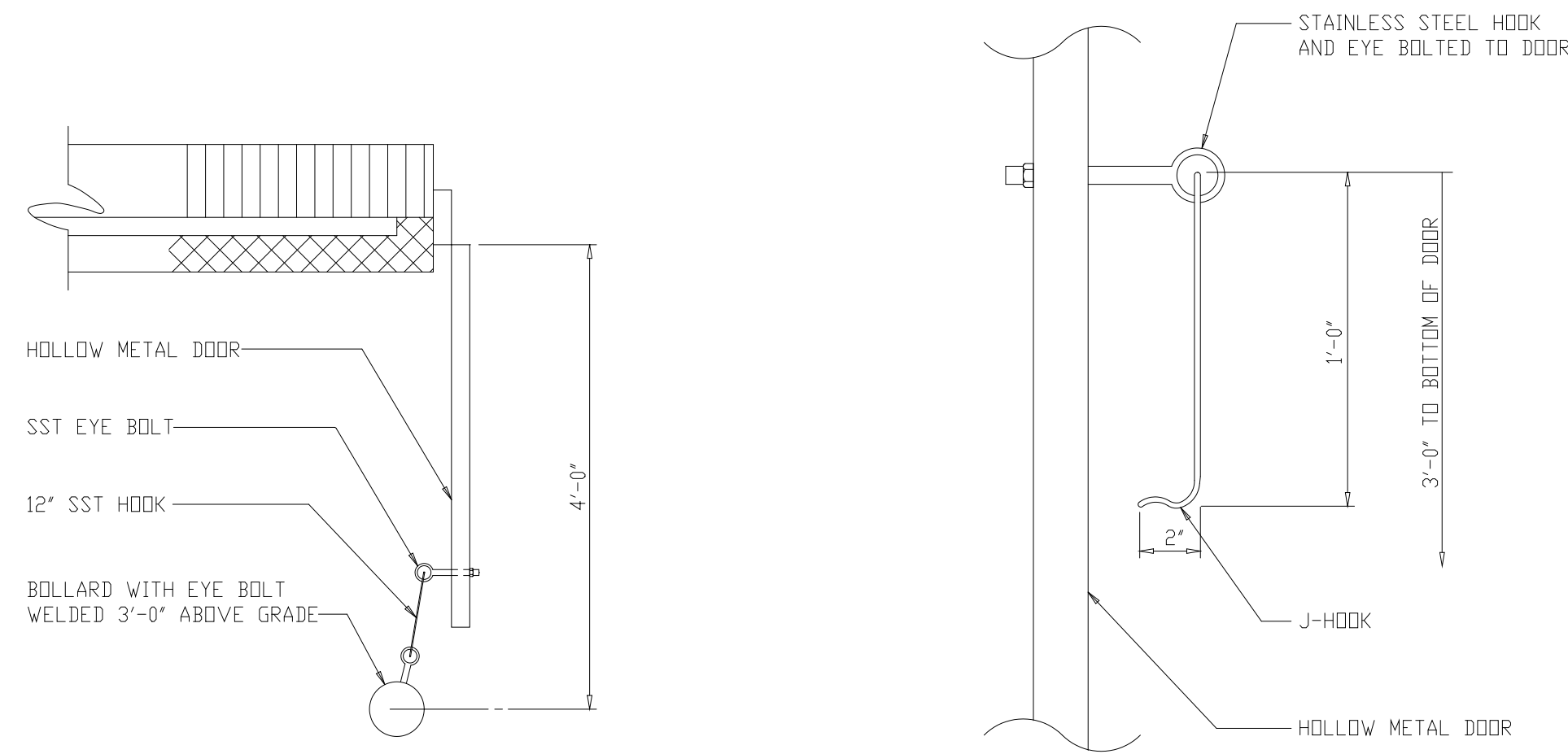
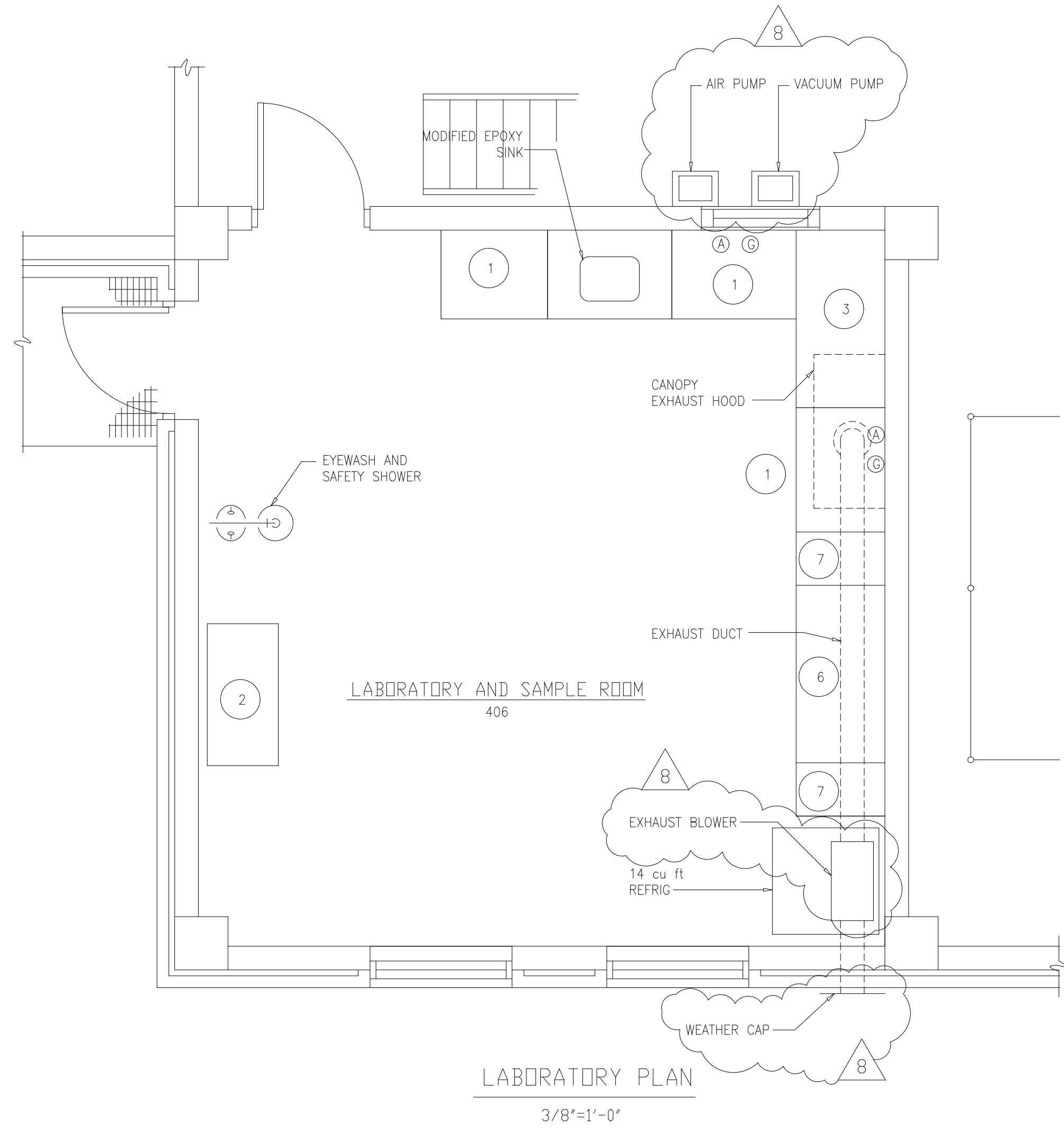


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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 ARCHITECTURAL
 SECTIONS AND DETAILS
 SHEET 3

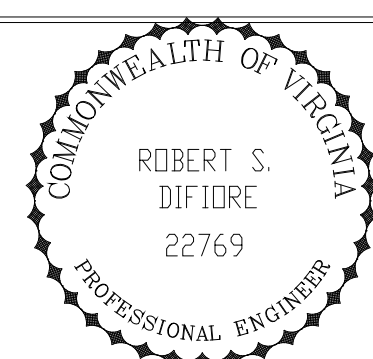
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER A-216
	SHEET 57 OF 199



ITEM	DESCRIPTION	FISHER HAMILTON CATALOG NO.
P-1	KEMRESIN TUB SINK (25"Lx10"Hx15"W)	52L463
P-2	EMERGENCY DRENCH SHOWER ASSEMBLY	32L533
P-3	H&C WATER GOOSENECK DECK MOUNTED FAUCET	32L405

ITEM	DESCRIPTION	FISHER HAMILTON CATALOG NO.
1	BASE WITH 4 DRAWERS, 1 CUPBOARD	380S732
2	BALANCE TABLE	957S118
3	RIGHT CORNER CUPBOARD (1 DOOR)	220S732
4		NOT USED
5	SINK CABINET WITH 2 DOORS	115S632
6	APRON WITH LARGE DRAWER	501S486
7	4 DRAWER BASE (2 FILE DRAWERS)	341S232

NOTE: PROVIDE LABORATORY CASEWORK WITH ALL FILLERS, ACCESSORIES, AND HARDWARE REQUIRED FOR A COMPLETE ASSEMBLY.



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WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ARCHITECTURAL
PARTIAL PLAN, SCHEDULES AND DETAILS

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
8	RECORD DRAWING	4-99	MKS	DESIGNED: WHR
7	WP5,6/7 CONST.-LAND APP. REDES.	4-96	RSD	DRAWN: BRC
6	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD	
5	WP3 CONST.-LAND APP. REDES.	3-96	RSD	CHECKED:
4	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD	PROJ.ENGR: AB/RNC
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD	
2	CONSTRUCTION	9-94	JJB	
1	REGULATORY APPROVAL	9-94	JJB	

DATE	SEPT 94
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	A-217
SHEET	58 OF 199

PLOT DATE: 12/12/00 1:08pm FILE: H:\2000\2843\DWG\2843-001.dwg BY: MHTS SHEET FILE: 0002

FINISH SCHEDULE

ROOM	FLOOR	BASE	WAINSCOT	WALLS				CEILING				REMARKS							
				SUB	FINISH	HEIGHT	SUB	FINISH	HEIGHT	SUB	FINISH		HEIGHT						
B01 STAIR 2	CONC	SEALER	CONC/CMU	---	---	---	---	---	---	---	---	---	---	---	---	VARIES	SEE NOTE 1, PROVIDE RUBBER TREADS AND RISERS		
B02 TUNNEL	CONC	SEALER	CONC	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
101 STAIR 1	CONC	SEALER	CONC/CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
102 TRUCK BAY	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
103 SLUDGE FEED PUMPS	CONC	SEALER	CONC/CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
104 MCC ROOM	CONC	SEALER	CONC/CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
104A TOOL ROOM	CONC	SEALER	CONC/CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
105 POLYMER SOLUTION CONTROL ROOM	CONC	VCT	CMU	VCB	---	---	---	---	---	---	---	---	---	---	---	---	---		
106 VFD ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
107 POLYMER SOLUTION ROOM	CONC	CNT LINER	CONC	CNT LINER	---	---	---	---	---	---	---	---	---	---	---	---	---		
108 STAIR 2	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
109 CORRIDOR	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
110 CAUSTIC STORAGE	CONC	CNT LINER	CMU	CNT LINER	---	---	---	---	---	---	---	---	---	---	---	---	---		
111 ACID STORAGE	CONC	CNT LINER	CMU	CNT LINER	---	---	---	---	---	---	---	---	---	---	---	---	---		
112 SCRUBBER RECIRC PUMPS	CONC	CNT LINER	CMU	CNT LINER	---	---	---	---	---	---	---	---	---	---	---	---	---		
113 OIL STORAGE	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
201 STAIR 1	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
202 SWITCHGEAR ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
203 BOILER ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
204																	NOT USED		
205																		NOT USED	
206 CLOSET	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
207 TOILET	CONC	CT	CMU	CT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
208 CORRIDOR	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
209 TRUCK LOADING ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
210 STAIR 2	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
211 POLYMER MIXING AND AGING TANKS	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
212 DRY POLYMER STORAGE AREA	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
213 DRY POLYMER HOPPER / FEEDER	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
214 LIME STORAGE ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
301 STAIR 1	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
302 ELECTRICAL ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
303 AIR DRYER ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
304 SCRUBBER ROOM	CONC	SEALER	CONC/CMU	CNT LINER	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
305 BLENDED SLUDGE HOPPER ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
306 STAIR 2	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
307 CORRIDOR	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
308 LIME STORAGE ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
309 COMPRESSOR ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
310 LIME BLOWER ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
312 STORAGE	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
401 STAIR 1	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
402 CENTRIFUGE ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
403 STAIR 2	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
404 CORRIDOR	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
405 CENTRIFUGE CONTROL ROOM	CONC	VCT	CMU	VCB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
406 LABORATORY AND SAMPLE ROOM	CONC	VINYL	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
407 STORAGE	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
408																		NOT USED	
409 TOILET	CONC	CT	CMU	CT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
410 HVAC ROOM	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
411 JANITOR CLOSET	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
412																		NOT USED	
501 STAIR 2	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
502 ELEVATOR EQUIPMENT	CONC	SEALER	CMU	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

ABBREVIATIONS

AL	ALUMINUM
ACT	ACOUSTICAL TILE ABOVE FINISH FLOOR
AFF	BOTTOM
BTM	CONTROL ROOM AIR CONDITIONER
CRAC	CONC MASONRY UNIT
CMU	CONCRETE
CONC	CONTAINMENT LINING
CNT LINER	CERAMIC TILE
CT	CUBIC FEET
CUFT	DRAWING ELEVATION
DWG	GAUGE
EL	HEIGHT
GA	HOT AND COLD
H	HORIZONTAL
H&C	JOINT
HOR	MATERIAL
JT	MINIMUM
MATL	MASONRY OPENING
MIN	NOT IN CONTRACT
MO	ON CENTER
NIC	OPPOSITE
DC	REINFORCING
DPP	REQUIRED
REINF	RUBBER
REQD	SUSPENDED GRID
RUB	STAINLESS STEEL
S GRID	STEEL
SST	STL
STL	SUBSTRATE
SUB	VCT
VCT	VINYL COMPOSITE TILE
VINYL	VINYL COMPOSITE TILE
W	CHEMICAL RESISTANT SHEET VINYL
---	WIDTH
---	NO FINISH REQUIRED

- NOTES:
1. CONCRETE WALLS AND CEILINGS SHALL NOT BE PAINTED. WHERE MORE THAN ONE SUBSTRATE IS INDICATED TO BE PAINTED, AND CONC IS A SUBSTRATE, IT SHALL NOT BE PAINTED.
 2. INSTALL 6" BATT INSULATION ABOVE ACT.
 3. CONCRETE FLOOR AT ELEVATION 25.00 SHALL RECEIVE SEALER.
 4. CONTAINMENT AREA SHALL RECEIVE CONTAINMENT LINING. SEE DETAIL 41/A-218. CONTAINMENT LINING SHALL BE AS SPECIFIED IN SECTION 09900.
 5. CONCRETE PADS, PEDESTALS, ECT. WITHIN CONTAINMENT AREAS SHALL BE COMPLETELY COVERED BY LINING MATERIAL.

TOILET ACCESSORY SCHEDULE

NO.	DESCRIPTION	MTD HEIGHT
1	TOILET TISSUE DISPENSER	19" AFF
2	24"x36" MIRROR	BTM 40" AFF
3	SOAP DISPENSER	36" AFF
4	TOWEL DISPENSER AND DISPOSAL	DISPENSER OPENING 40" AFF
5	42" GRAB BAR	34" AFF
6	36" GRAB BAR	34" AFF
7	36" LONG JANITORIAL UTILITY SHELL	66" AFF
8	TOILET SEAT COVER DISPENSER	DISPENSER OPENING 40" AFF

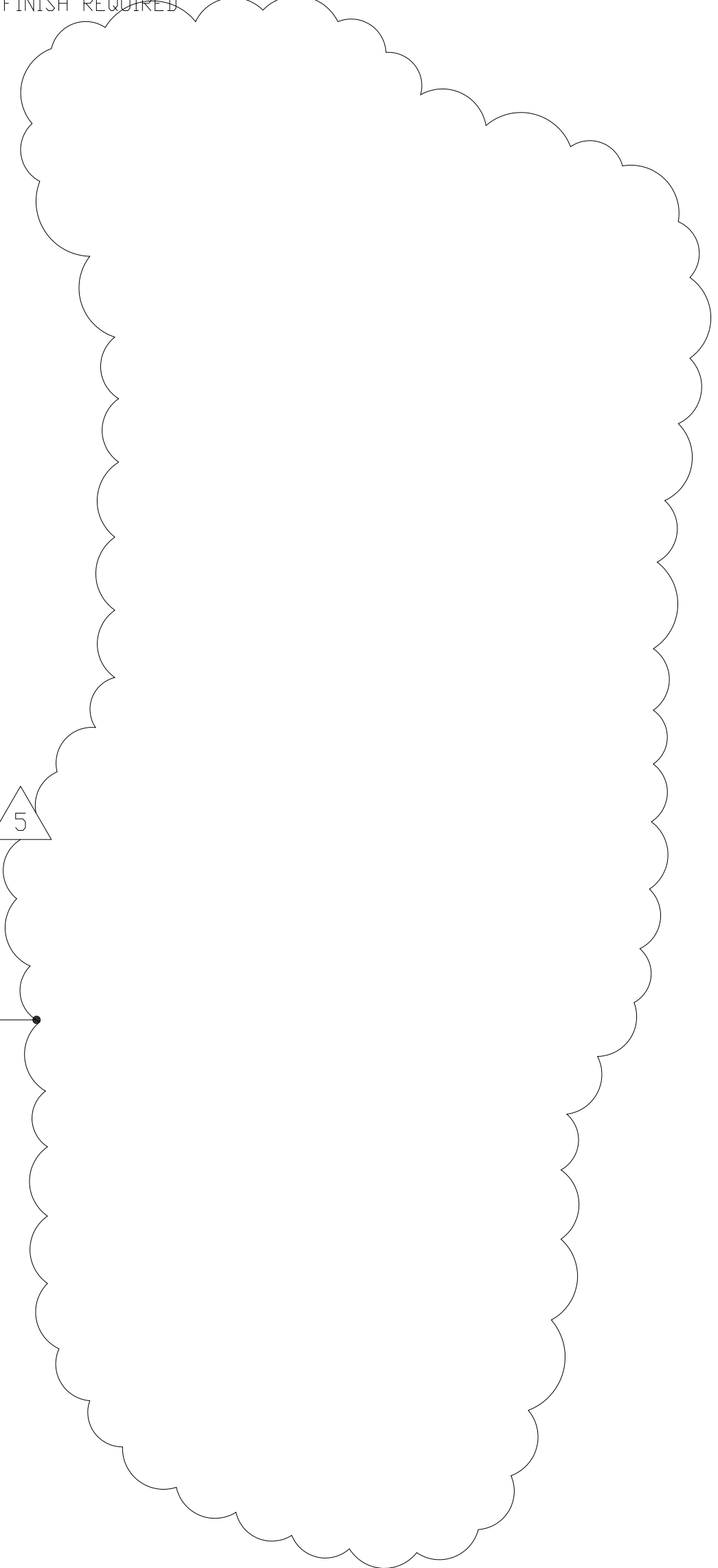
LOUVER SCHEDULE

MARK	WIDTH	HEIGHT	MATERIAL	REMARKS
L-1	64"	80"	AL	
L-2	30"	30"	AL	
L-3	80"	48"	AL	
L-4	40"	40"	AL	
L-5	48"	40"	AL	
L-5A	40"	48"	AL	
L-6	64"	48"	AL	
L-7	64"	48"	AL	
L-8	30"	18"	AL	
L-9	96"	72"	AL	
L-10	96"	96"	AL	SEE NOTE BELOW
L-11	24"	24"	AL	
L-12	36"	36"	AL	
L-13	60"	40"	AL	
L-14	18"	18"	AL	
L-15	16"	16"	AL	

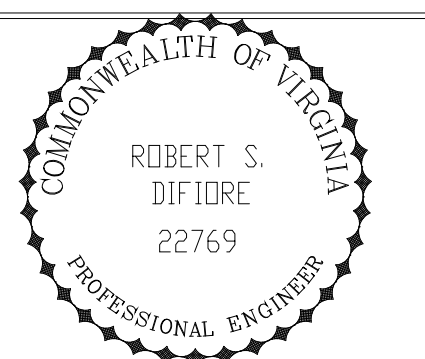
NOTE: ATTACHMENT SHALL ALLOW FOR FUTURE REMOVAL

MATERIAL LEGEND

	GRADE OR EARTH		ROCK
	ASPHALT PAVING		STEEL
	SAND		INSULATION
	GRAVEL		WATER SURFACE
	CONCRETE		GRATING
	CONC. FILL OR GROUT		CHECKERED PLATE
	CONC. MASONRY UNIT		GLASS
	BRICK		WOOD BLOCKING



9	RECORD DRAWING	4-99	MKS	DESIGNED	WHR
8	WP4.5,6,7 CONST.-LAND APP. REDES.	4-96	RSD	DRAWN	BRC
7	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD	CHECKED	
6	WP3 CONST.-LAND APP. REDES.	3-96	RSD	PROJ. ENGR.	AB/RNC
5	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD		
4	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD		
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD		
2	CONSTRUCTION	9-94	JJB		
1	REGULATORY APPROVAL	9-94	JJB		
NO.	ISSUED FOR	DATE	BY	APPROVED	



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WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ARCHITECTURAL
FINISH SCHEDULES AND DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A-218
	SHEET	59 OF 199

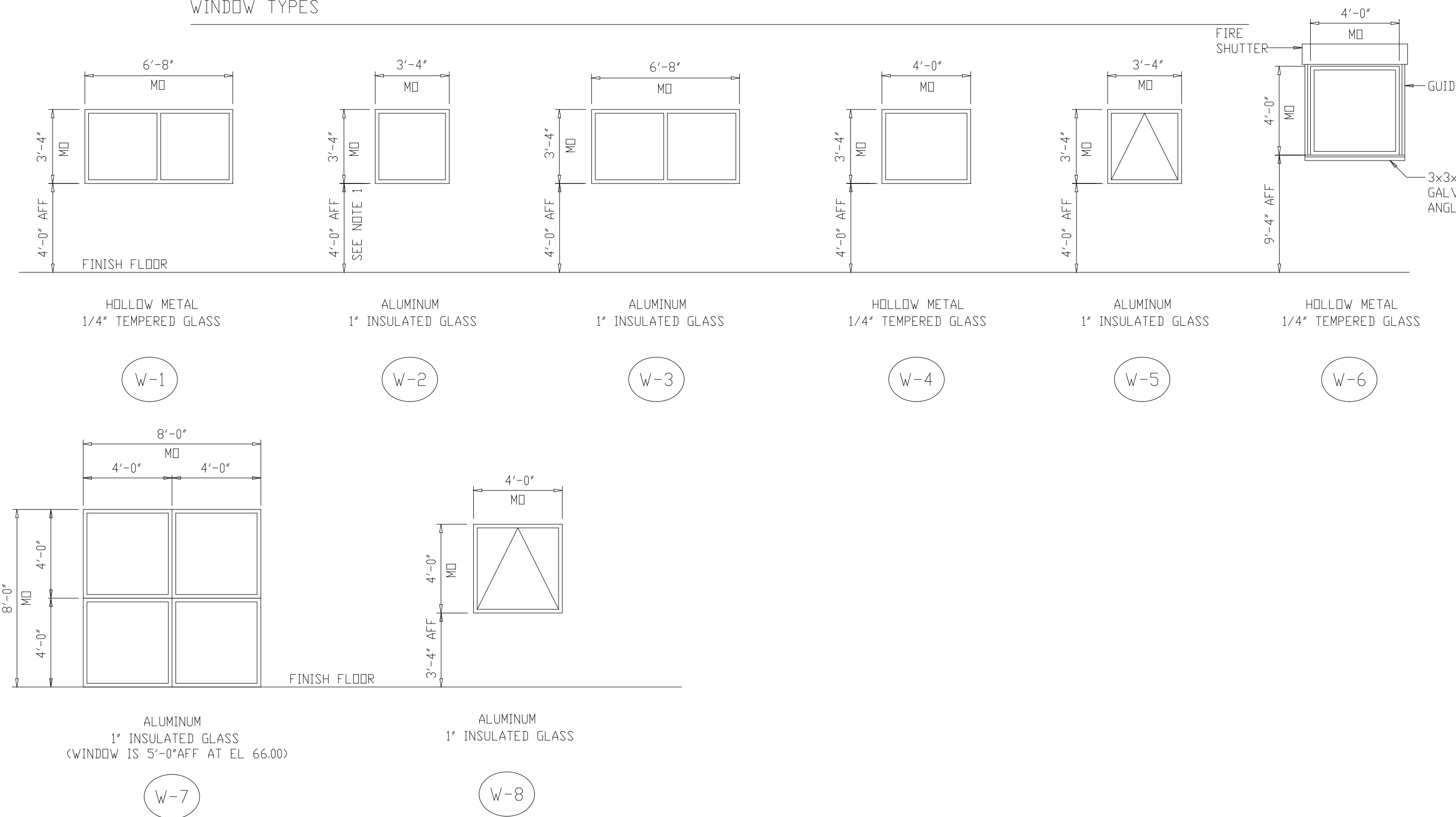
PLT: 10/10/00 12:00 FILE: I:\8203\8203\DWG\02P-02B.dwg BY: MTT: SHEET FILE: 002

NOTES:
 1 W-2 WINDOWS IN CENTRIFUGE ROOM ARE SHOWN ON SHEETS A-210, A-211, AND A-212. TOP OF WINDOWS SHALL BE AT ELEVATION 94.83.

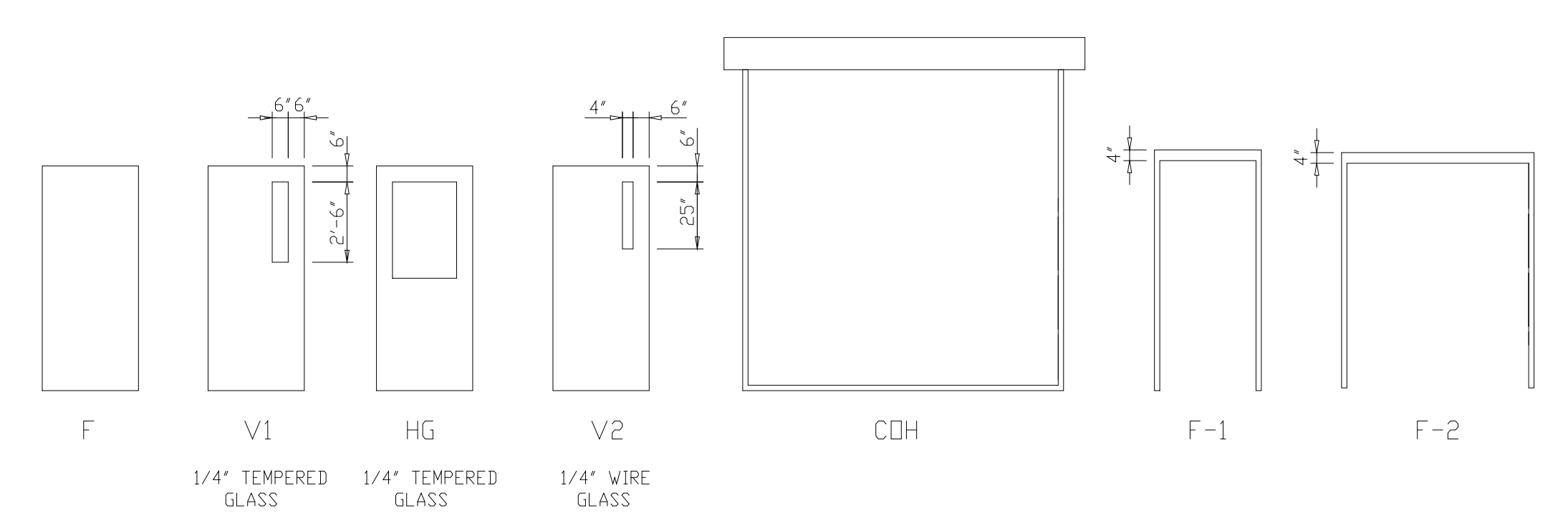
DOOR SCHEDULE

DOOR NUMBER	FRAME		DOOR					FIRE RATE	HDW No.	REMARKS	
	TYPE	MATL	TYPE	MATL	WIDTH	HEIGHT	THICKNESS				DETAILS
B01	F-2	HM	V2	HM	(2) 3'-0"	8'-0"	1 3/4"	23/A502	1 1/2 HR (B)	6	
B02	F-1	HM	V2	HM	3'-0"	7'-0"	1 3/4"	23/A502	1 1/2 HR (B)	1	
101	F-1	HM	V2	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	1	SEE 48/A502 FOR LINTEL AT COLUMN
101A	F-2	HM	HG	HM	(2) 3'-0"	7'-0"	1 3/4"	22/A502	---	13	
102	MNF	STL	CDH	AL	12'-0"	14'-0"	3/4"	20/A502	---	---	
102A	F-1	HM	HG	HM	3'-0"	7'-0"	1 3/4"	24/A502	---	2	
102B	MNF	STL	CDH	AL	12'-0"	14'-0"	3/4"	20/A502	---	---	
103	F-2	HM	V2	HM	(2) 3'-0"	7'-0"	1 3/4"	22/A502	1 1/2 HR (B)	3	
103A	F-1	HM	HG	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	4	
104	F-1	HM	V1	HM	4'-0"	7'-0"	1 3/4"	21/A502	---	4	
104A	F-1	HM	V1	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	4	
104B	F-1	HM	V1	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	4	
105	F-1	HM	HG	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	4	
107	F-1	HM	V1	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	13	
107A	F-1	HM	HG	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	4	
107B	F-1	HM	HG	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	13	
107C	F-2	HM	HG	HM	(2) 3'-0"	7'-0"	1 3/4"	22/A502	---	5	
109	F-2	HM	V2	HM	2'-8"/2'-10"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	15	SEE 48/A502 FOR LINTEL AT COLUMN, 2'-10" LEAF ACTIVE
109A	F-1	HM	V2	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	1	SEE 48/A502 FOR LINTEL AT COLUMN
109B	F-2	HM	V2	HM	(2) 2'-10"	7'-0"	1 3/4"	24/A502	1 1/2 HR (B)	14	
109C	F-1	HM	F	HM	2'-8"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	9	
110	F-2	HM	F	HM	(2) 4'-0"	8'-4"	1 3/4"	24/A502	---	7	SEE 48/A502 FOR LINTEL AT COLUMN
111	F-2	FIBERGLASS	F	FIBERGLASS	(2) 4'-0"	8'-4"	1 3/4"	24/A502	---	7	
113	F-2	HM	F	HM	(2) 3'-0"	7'-0"	1 3/4"	24/A502	1 1/2 HR (B)	14	
201	F-1	HM	V1	HM	3'-0"	7'-0"	1 3/4"	24/A502	---	2	SEE 48/A502 FOR LINTEL AT COLUMN
201A	F-1	HM	V2	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	1	SEE 48/A502 FOR LINTEL AT COLUMN
202	F-2	HM	F	HM	(2) 3'-2"	7'-0"	1 3/4"	24/A502	1 1/2 HR (B)	14	
203	F-2	HM	F	HM	(2) 3'-2"	7'-0"	1 3/4"	24/A502	1 1/2 HR (B)	8	
204	F-2	HM	F	HM	(2) 2'-10"	7'-0"	1 3/4"	24/A502	---	14	
204A	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	24/A502	---	15	
205A	F-2	HM	F	HM	(2) 3'-2"	7'-0"	1 3/4"	22/A502	---	5	
205B	F-2	HM	V1	HM	(2) 3'-0"	7'-0"	1 3/4"	22/A502	---	14	DOOR COORDINATOR NOT REQUIRED
205C	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	9	
207	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	11	
208	F-2	HM	V2	HM	(2) 3'-2"	7'-0"	1 3/4"	22/A502	1 1/2 HR (B)	3	
208A	F-2	HM	V2	HM	(2) 3'-2"	7'-0"	1 3/4"	22/A502	1 1/2 HR (B)	3	
208B	F-2	HM	V2	HM	(2) 3'-2"	7'-0"	1 3/4"	22/A502	1 1/2 HR (B)	3	
208C	F-1	HM	F	HM	2'-8"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	4	
209	F-1	HM	F	HM	3'-0"	7'-10"	1 3/4"	21/A502	1 1/2 HR (B)	1	
210	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	24/A502	---	2	SEE 48/A502 FOR LINTEL AT COLUMN
210A	F-1	HM	V2	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	1	SEE 48/A502 FOR LINTEL AT COLUMN
213	F-1	HM	V1	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	9	
214	F-1	HM	V1	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	4	
301	F-1	HM	V2	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	1	
302	F-2	HM	V1	HM	(2) 3'-0"	7'-0"	1 3/4"	22/A502	---	5	
304	F-1	HM	V1	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	4	
304A	F-2	HM	V2	HM	(2) 2'-10"	7'-0"	1 3/4"	22/A502	1 1/2 HR (B)	5	
304B	F-2	HM	V2	HM	(2) 3'-0"	7'-0"	1 3/4"	22/A502	---	3	
305	F-1	HM	V2	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	3	
305A	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	3	SIGN "RESTRICTED AREA - AUTHORIZED PERSONNEL ONLY"
305B	F-2	HM	V2	HM	(2) 2'-10"	7'-0"	1 3/4"	22/A502	---	14	DOOR COORDINATOR NOT REQUIRED
306	F-1	HM	V2	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	1	
307	F-1	HM	V1	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	9	
307A	F-2	HM	V1	HM	(2) 3'-2"	7'-0"	1 3/4"	22/A502	---	3	
307B	F-1	HM	F	HM	2'-8"	7'-0"	1 3/4"	21/A502	---	9	
307C	F-1	HM	V1	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	9	
310	F-1	HM	V1	HM	(2) 3'-0"	7'-0"	1 3/4"	21/A502	---	3	
401	F-1	HM	V2	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	1	
402	F-2	HM	V2	HM	(2) 2'-10"	7'-0"	1 3/4"	22/A502	---	14	DOOR COORDINATOR NOT REQUIRED
402A											NOT USED
403	F-1	HM	V2	HM	3'-0"	7'-0"	1 3/4"	21/A502	1 1/2 HR (B)	1	
404	F-2	HM	V2	HM	(2) 3'-0"	7'-0"	1 3/4"	22/A502	---	3	
404A	F-2	HM	F	HM	(2) 3'-0"	7'-0"	1 3/4"	22/A502	---	3	
406	F-1	HM	HG	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	9	
406A	F-1	HM	HG	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	9	
408	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	24/A502	---	2	
408A	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	24/A502	---	2	
408B	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	24/A502	---	2	
408C	F-1	HM	HG	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	2	
409	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	11	
410	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	9	
411	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	4	
412	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	21/A502	---	9	
501	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	24/A502	1 1/2 HR (B)	2	
501A	F-1	HM	F	HM	3'-0"	7'-0"	1 3/4"	24/A502	1 1/2 HR (B)	2	
501B											NOT USED

WINDOW TYPES



DOOR / FRAME TYPES



RECORD DRAWING

9	RECORD DRAWING	4-99	MKS	DESIGNED	WHR
8	WP4.5.6/7 CONST-LAND APP REDES	4-96	RSD	DRAWN	BRC
7	WP6/7 APPROVAL-LAND APP. REDES	3-96	RSD	CHECKED	
6	WP3 CONST-LAND APP. REDES	3-96	RSD	PROJ ENGR	AB/RNC
5	WP5 APPROVAL-LAND APP. REDES	2-96	RSD	APPROVED	
4	WP4 APPROVAL-LAND APP. REDES	1-96	RSD		
3	WP3 APPROVAL-LAND APP. REDES	1-96	RSD		
2	CONSTRUCTION	9-94	JJB		
1	REGULATORY APPROVAL	9-94	JJB		
NO.	ISSUED FOR	DATE	BY	APPROVED	

COMMONWEALTH OF VIRGINIA

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22769

PROFESSIONAL ENGINEER

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ARLINGTON COUNTY

WATER POLLUTION CONTROL PLANT

UPGRADE AND EXPANSION - PHASE III A

SOLIDS PROCESSING FACILITIES

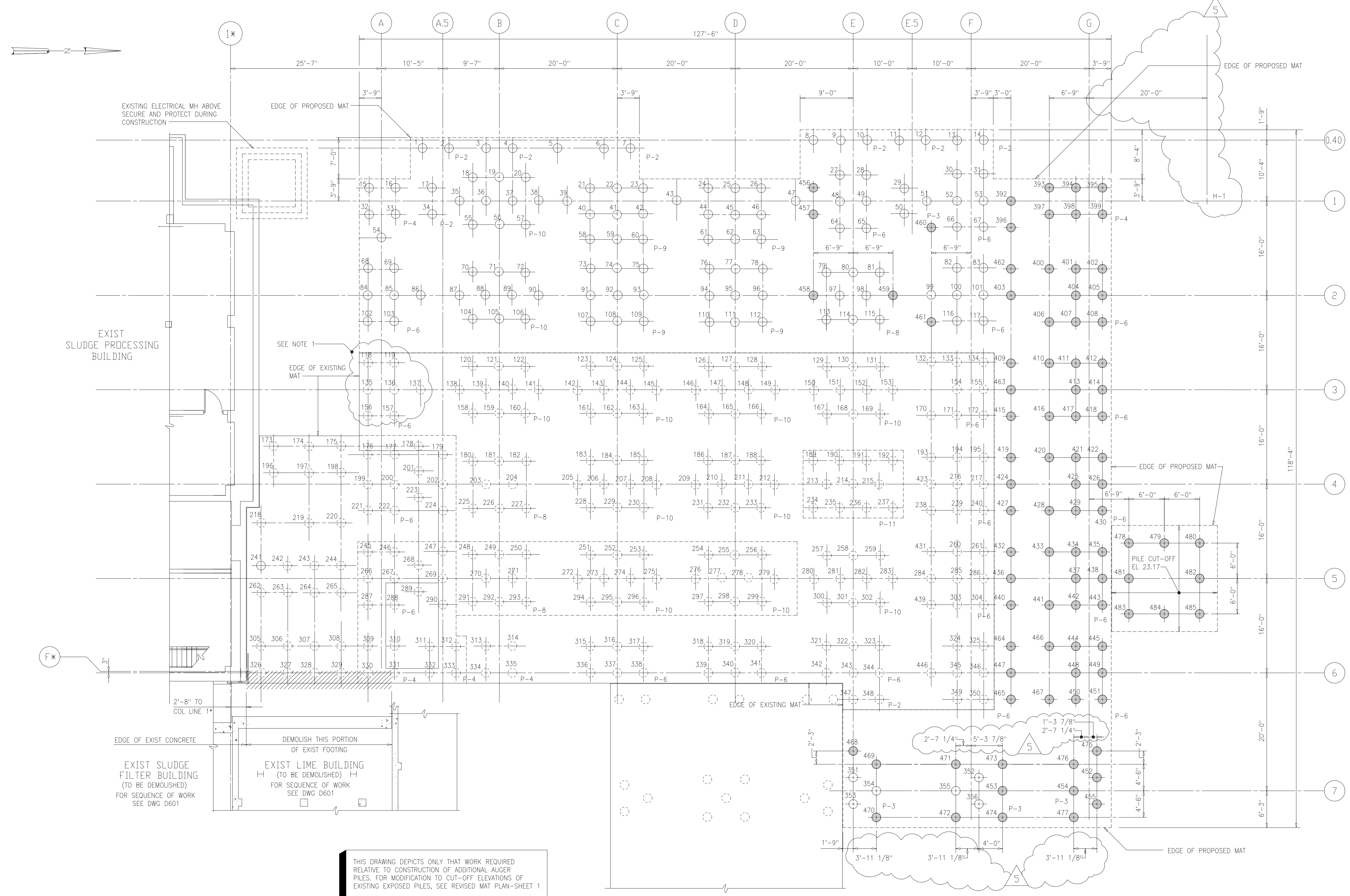
CENTRIFUGE DEWATERING BUILDING

ARCHITECTURAL

DOOR SCHEDULE AND WINDOW ELEVATIONS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
H & S JOB NUMBER	2843
CONTRACT NUMBER	DRAWING NUMBER
93-02-WPC	A-219
SHEET 60	OF 199

- NOTES:**
- PER RFI #2 - CUT OFF ELEVATION FOR SELECTED PILES SHALL BE 18.83.
 - PER RFI #19
 - PILE 178 IS 6'-6" WEST OF ? 4
 - PILE 1 IS 3'-6" SOUTH OF A.5
 - PILE 2 IS 1'-0" NORTH OF A.5
 - PILES 21,22, AND 23 ARE 2'-3" WEST OF ? 3
 - PILES 40,41, AND 42 ARE 2'-3" EAST OF ? 1
 - PER RFI #18
 - PILES 176, 177, AND 179 ARE 4'-6" WEST OF ? 4
 - PILE 201 IS 2'-3" WEST OF ? 4
 - PILE 223 IS 2'-3" EAST OF ? 4
 - PER CHANGE ORDER #3, (4) ADDITIONAL PILES WILL BE INSTALLED WITHIN THE BOUNDARIES OF THE DEWATERING BUILDING (PILE NOS. 423, 431, 439, AND 446).



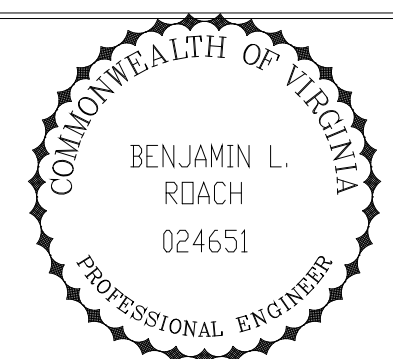
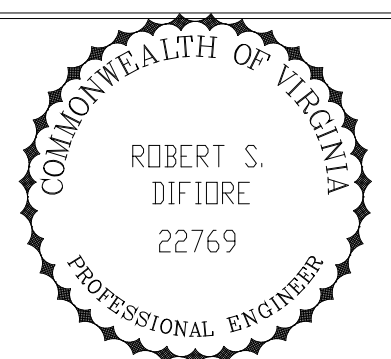
THIS DRAWING DEPICTS ONLY THAT WORK REQUIRED RELATIVE TO CONSTRUCTION OF ADDITIONAL AUGER PILES. FOR MODIFICATION TO CUT-OFF ELEVATIONS OF EXISTING EXPOSED PILES, SEE REVISED MAT PLAN-SHEET 1

PILE PLAN
1/8"=1'-0"
(FOR CONTINUATION SEE DWG S-202)

- LEGEND**
- EXISTING PILE COVERED BY EXISTING MAT
 - EXISTING EXPOSED PILE
 - PROPOSED ADDITIONAL PILE, CUT-OFF EL. 21.83 U.N.O.

PLOT DATE: 09/21/99 12:00 PM FILE: H:\2002\Arlington\Phase III\DWG\S-202.dwg BY: JMTS REF: FILE = NONE

DESIGNED	ETM		
DRAWN	BRC		
CHECKED			
PROJ.ENGR.	AB/RNC		
NO.	DATE	BY	APPROVED
5	RECORD DRAWING	4-99	MKS
4	WP1. CONST.-LAND APP. REDES.	1-96	RSD
3	WP1. APPROVAL-LAND APP. REDES.	12-95	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
	ISSUED FOR		



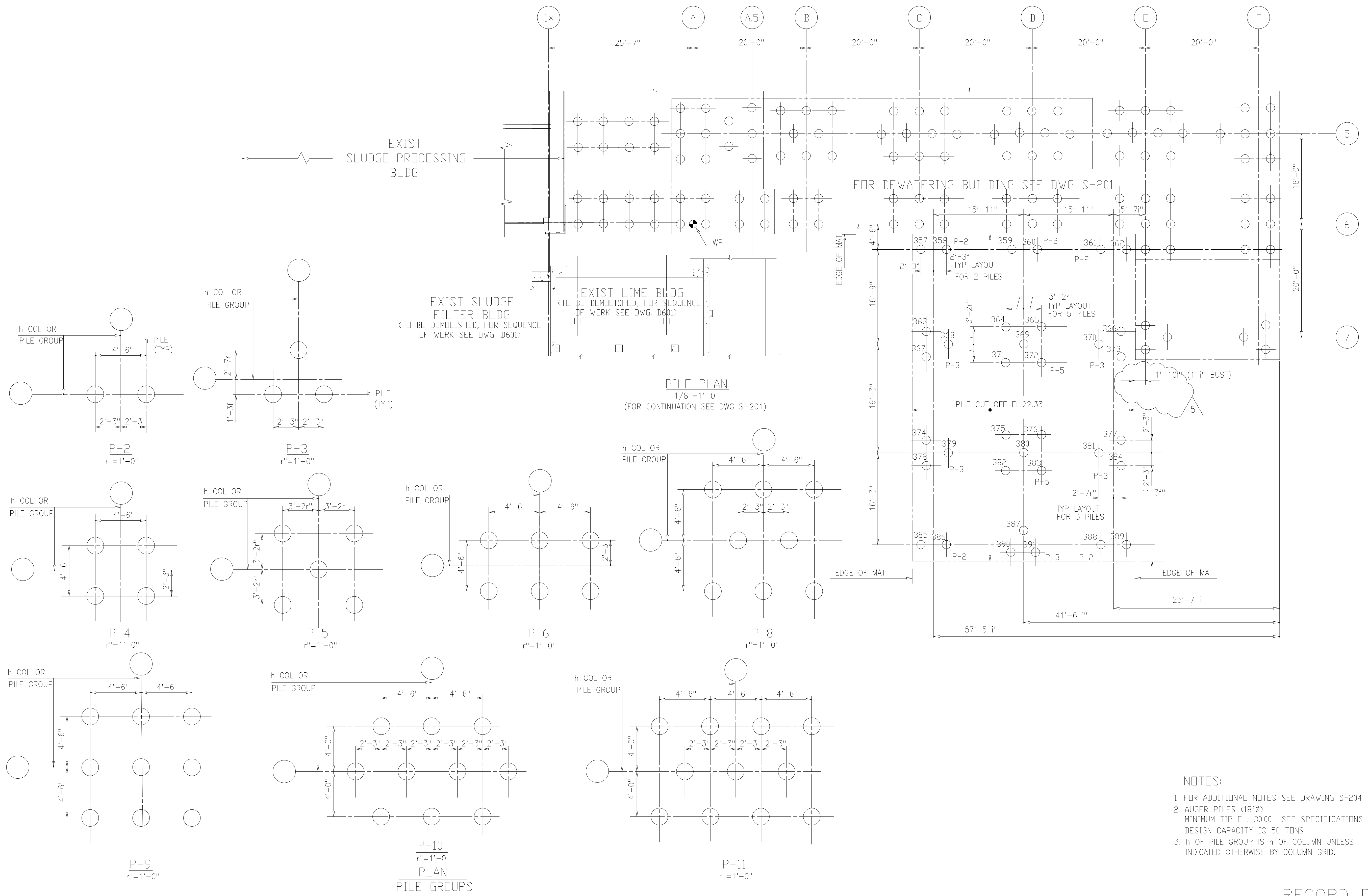
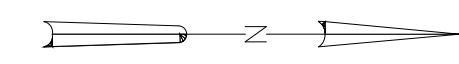
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PILE PLAN - SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 1994
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-201
	SHEET	61 OF 199

RECORD DRAWING



PILE PLAN
1/8"=1'-0"
(FOR CONTINUATION SEE DWG S-201)

P-10 PLAN
r"¹=1'-0"
PILE GROUPS

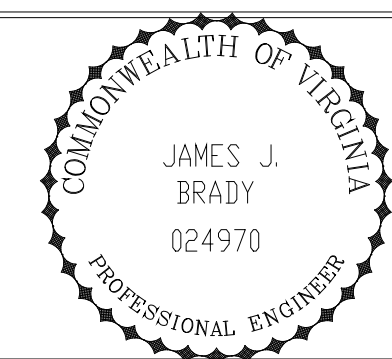
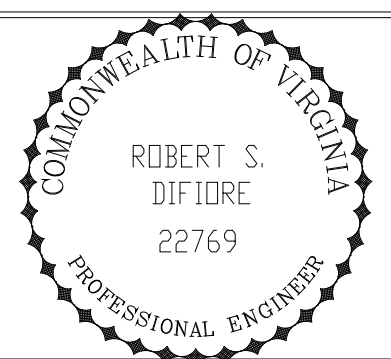
- NOTES:**
- FOR ADDITIONAL NOTES SEE DRAWING S-204.
 - AUGER PILES (18"Ø)
MINIMUM TIP EL.-30.00 SEE SPECIFICATIONS
DESIGN CAPACITY IS 50 TONS
 - h OF PILE GROUP IS h OF COLUMN UNLESS INDICATED OTHERWISE BY COLUMN GRID.

RECORD DRAWING

PLOT DATE: 10/10/03
 FILE: H:\2003\DWG\194-2843-202-02.dwg
 USER: JMB
 PLOT FILE: NONE

NO.	DESCRIPTION	DATE	BY	APPROVED
3	RECORD DRAWING	4-99	MKS	
2	CONSTRUCTION	9-94	JJB	
1	COUNTY REGULATORY APPROVAL	9-94	JJB	
	ISSUED FOR			

DESIGNED	M.Y.
DRAWN	C.W.S.
CHECKED	W.E.G.
PROJ. ENGR.	M.Y.
	J.J.B.



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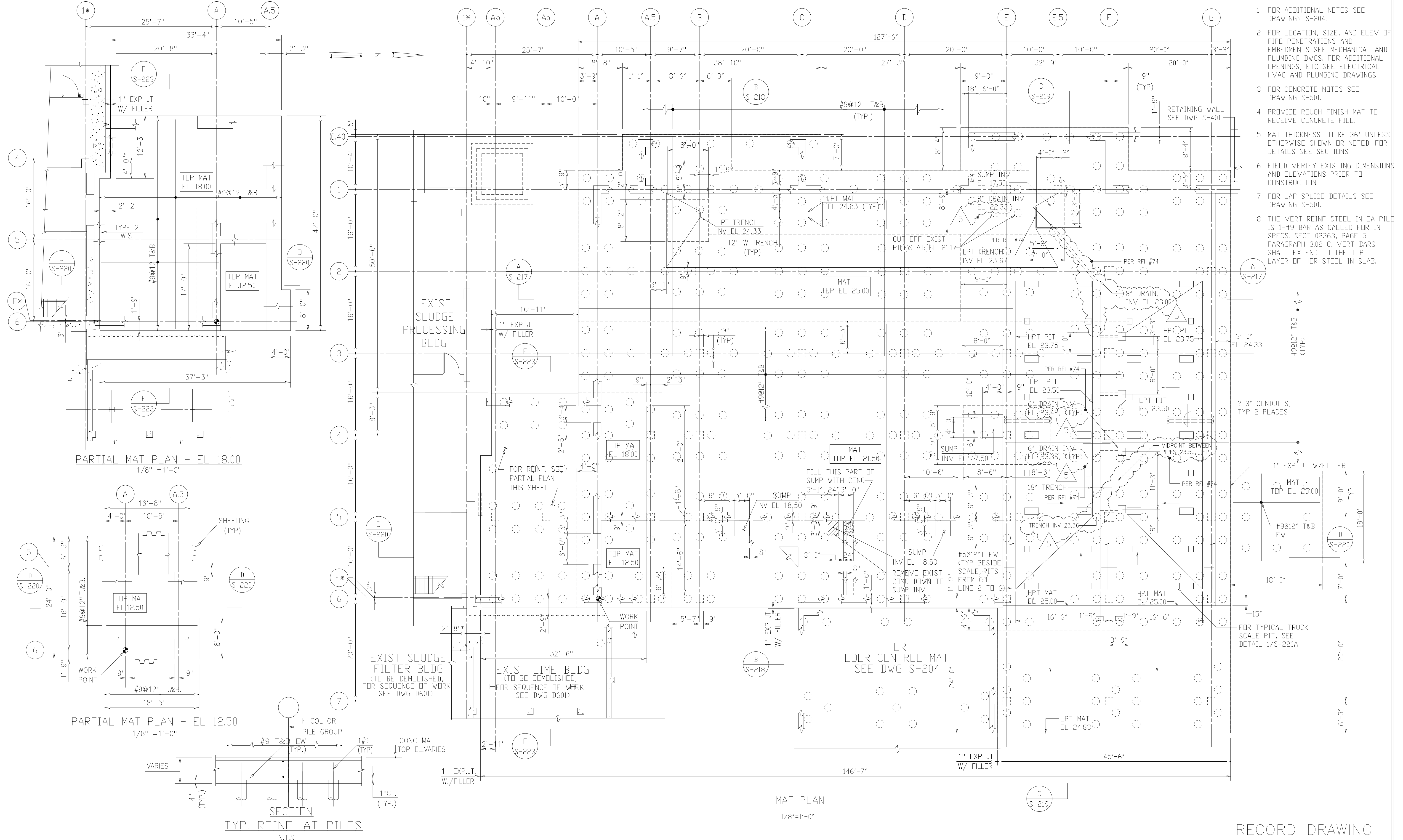
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PILE PLAN - SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER S-202
	SHEET 62 OF 199

NOTES:

- 1 FOR ADDITIONAL NOTES SEE DRAWINGS S-204.
- 2 FOR LOCATION, SIZE, AND ELEV OF PIPE PENETRATIONS AND EMBEDMENTS SEE MECHANICAL AND PLUMBING DWGS. FOR ADDITIONAL OPENINGS, ETC SEE ELECTRICAL HVAC AND PLUMBING DRAWINGS.
- 3 FOR CONCRETE NOTES SEE DRAWING S-501.
- 4 PROVIDE ROUGH FINISH MAT TO RECEIVE CONCRETE FILL.
- 5 MAT THICKNESS TO BE 36" UNLESS OTHERWISE SHOWN OR NOTED. FOR DETAILS SEE SECTIONS.
- 6 FIELD VERIFY EXISTING DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- 7 FOR LAP SPlice DETAILS SEE DRAWING S-501.
- 8 THE VERT REINF STEEL IN EA PILE IS 1-#9 BAR AS CALLED FOR IN SPECS. SECT 02363, PAGE 5 PARAGRAPH 3.02-C. VERT BARS SHALL EXTEND TO THE TOP LAYER OF HOR STEEL IN SLAB.



RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

COMMONWEALTH OF VIRGINIA
 ROBERT S. DIFIORE
 22769
 PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA
 BENJAMIN L. ROACH
 024651
 PROFESSIONAL ENGINEER


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 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

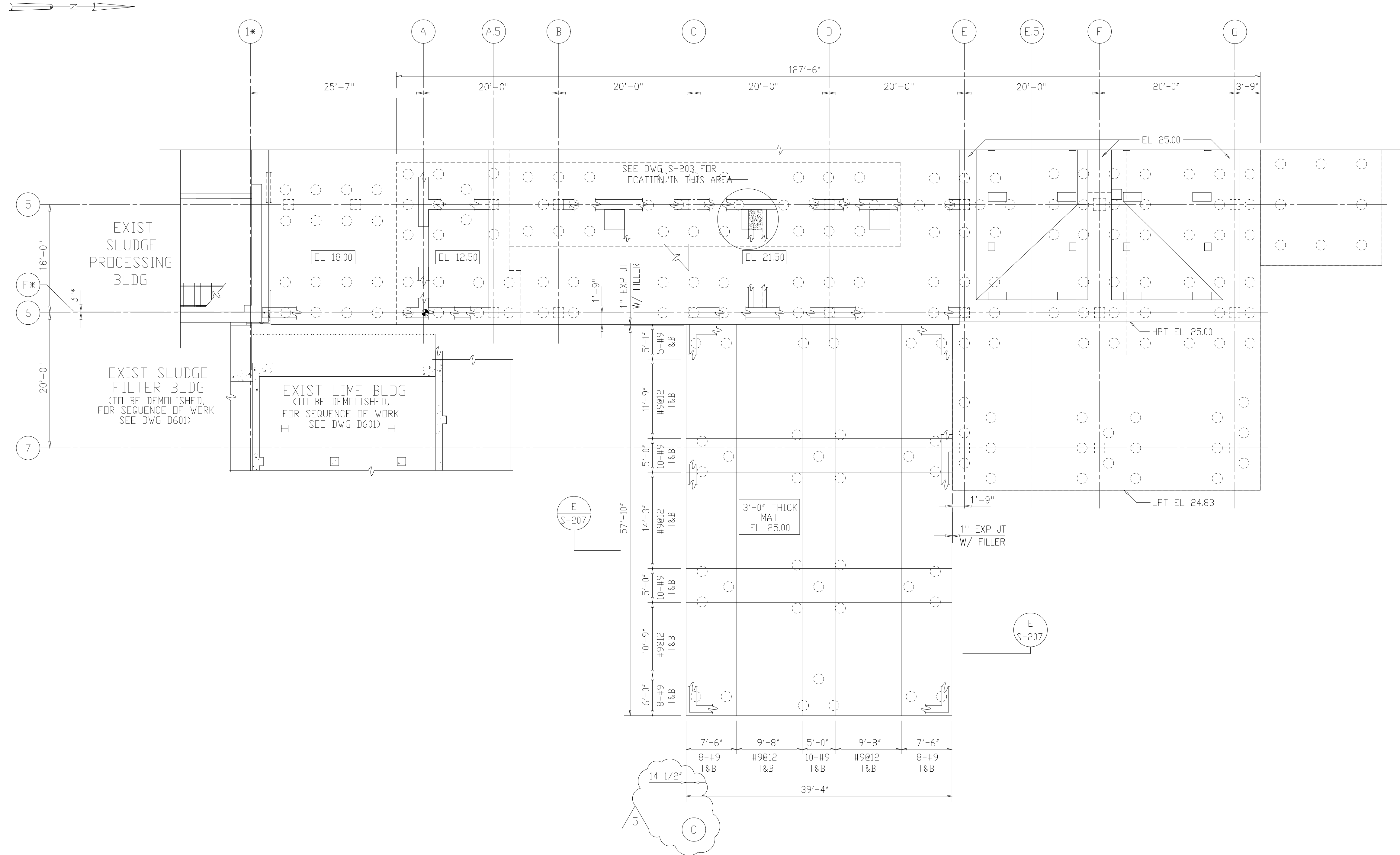
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 STRUCTURAL
 MAT PLAN - SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER S-203
	SHEET 63 OF 199

NOTES:

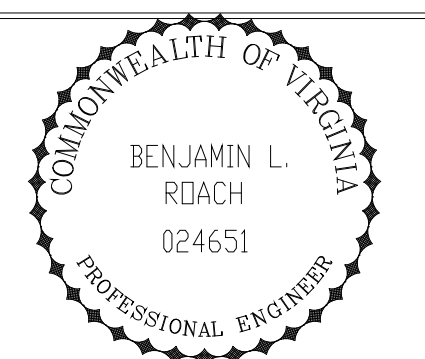
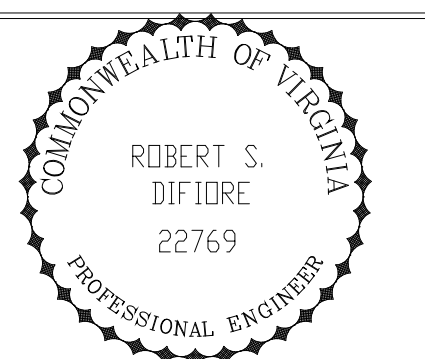
- 1 FOR GENERAL CONCRETE NOTES SEE DRAWING S-501
- 2 FOR COLUMN SCHEDULE SEE DRAWING S-229
- 3 FOR BEAM SCHEDULE SEE DRAWINGS S-227 AND S-228
- 4 FOR STANDARD DETAILS SEE DRAWINGS S-501 AND S502
- 5  INDICATES EXISTING COLUMN LINE DESIGNATION
- 6 ALL CONCRETE BLOCKS SHALL BE LIGHTWEIGHT, SEE SPECIFICATIONS
- 7 FOR ADDITIONAL DETAILS OF ALL PIPE PENETRATIONS IN MAT, SLAB AND WALLS AT ALL FLOOR LEVELS, SEE MECHANICAL, HVAC, PLUMBING AND ELECTRICAL DRAWINGS.
- 8 FOR LAP SPLICE DETAILS SEE DRAWING S-501



MAT PLAN
1/8"=1'-0"
(FOR CONTINUATION SEE DWG S-203)

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
DATE	BY
APPROVED	



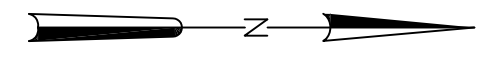
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

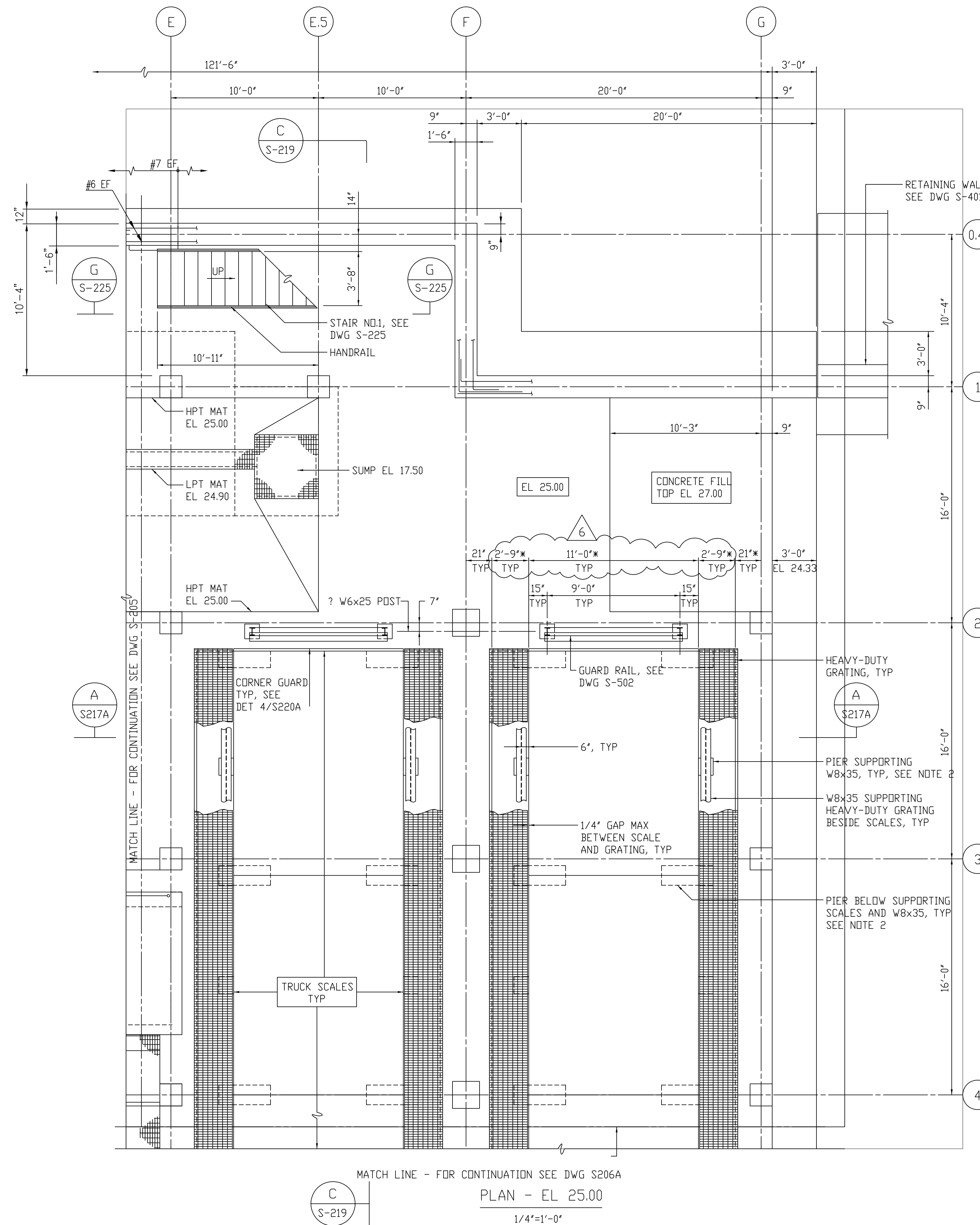
CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
MAT PLAN - SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER S-204
	SHEET 64 OF 199

PLOT DATE: 09/21/99 13:00 FILE: H:\2843\DWG\MAT\WPC\2843-024651.dwg BY: MTTJ REF: FILE = NONE



- NOTES:
- SEE DRAWING S-205 FOR ADDITIONAL NOTES.
 - SEE DWG S220A FOR SCALE PIT AND PIER DETAILS.
 - PER RFI #304, NO INSERTS TO BE CAST INTO THE TRUCK SCALE.



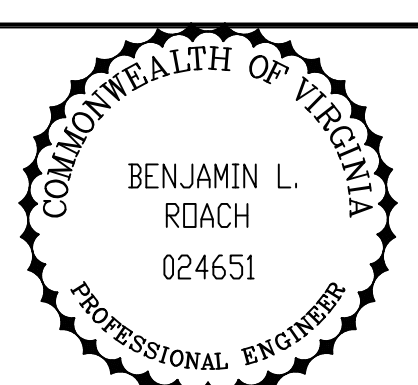
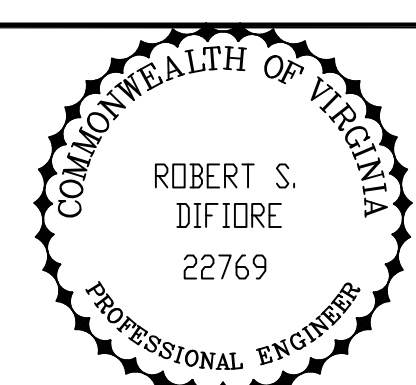
MATCH LINE - FOR CONTINUATION SEE DWG S206A

PLAN - EL 25.00

1/4"=1'-0"

RECORD DRAWING

DESIGNED	ETM		
DRAWN	BRC		
CHECKED			
PROJ. ENGR.	AB/RNC		
APPROVED			
NO.	ISSUED FOR	DATE	BY
6	RECORD DRAWING	4-99	MKS
5	ISD EGRESS REQUIREMENTS	10-96	RSD
4	WP3 CONST.-LAND APP. REDES.	3-96	RSD
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB

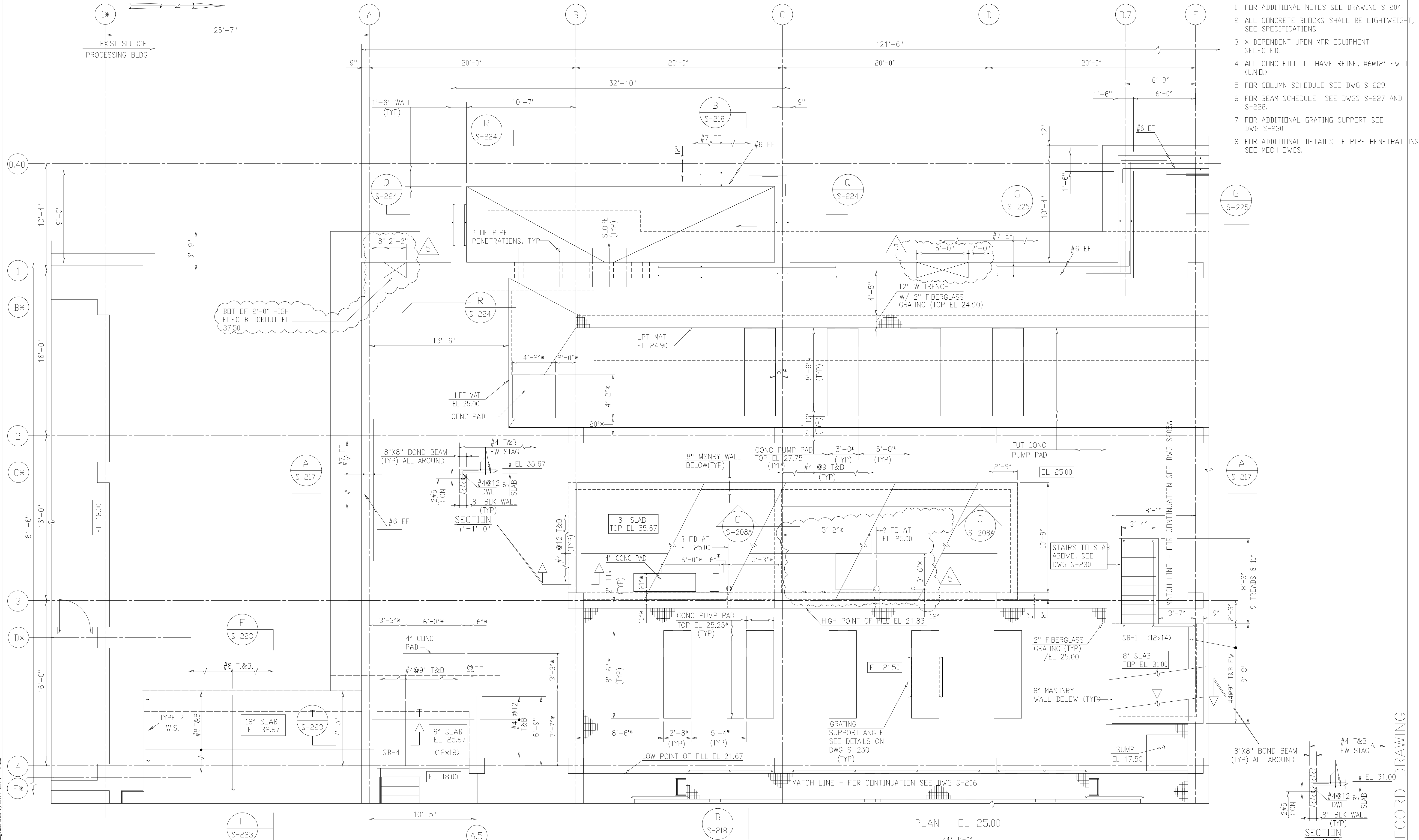


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

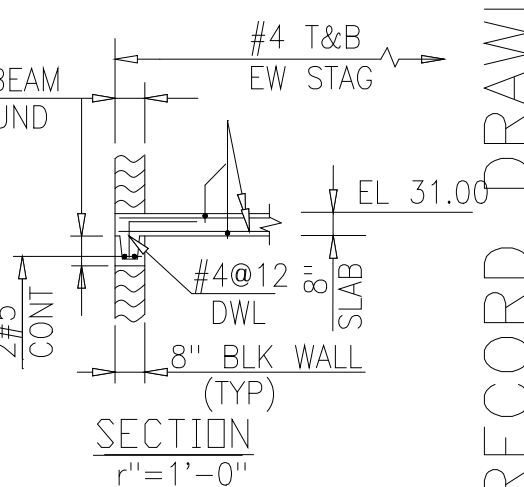
CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PLAN AT ELEVATION 25.00
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S205A
	SHEET 65A OF 199	



- NOTES:
- 1 FOR ADDITIONAL NOTES SEE DRAWING S-204.
 - 2 ALL CONCRETE BLOCKS SHALL BE LIGHTWEIGHT, SEE SPECIFICATIONS.
 - 3 * DEPENDENT UPON MFR EQUIPMENT SELECTED.
 - 4 ALL CONC FILL TO HAVE REINF, #6@12" EW (UNQ).
 - 5 FOR COLUMN SCHEDULE SEE DWG S-229.
 - 6 FOR BEAM SCHEDULE SEE DWGS S-227 AND S-228.
 - 7 FOR ADDITIONAL GRATING SUPPORT SEE DWG S-230.
 - 8 FOR ADDITIONAL DETAILS OF PIPE PENETRATIONS SEE MECH DWGS.

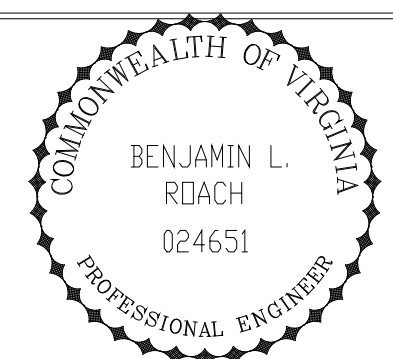
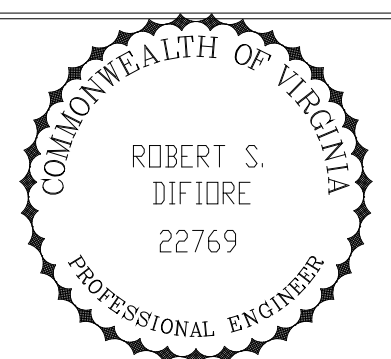
PLAN - EL 25.00
1/4"=1'-0"



RECORD DRAWING

5	RECORD DRAWINGS	6-99	F.X.P.
4	WP3 CONST-LAND APP. REDES.	3-96	RSD
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
NO.	ISSUED FOR	DATE	BY

DESIGNED: ETM
DRAWN: BRC
CHECKED: _____
PROJ.ENGR: AB/RNC
APPROVED: _____

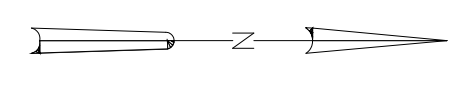


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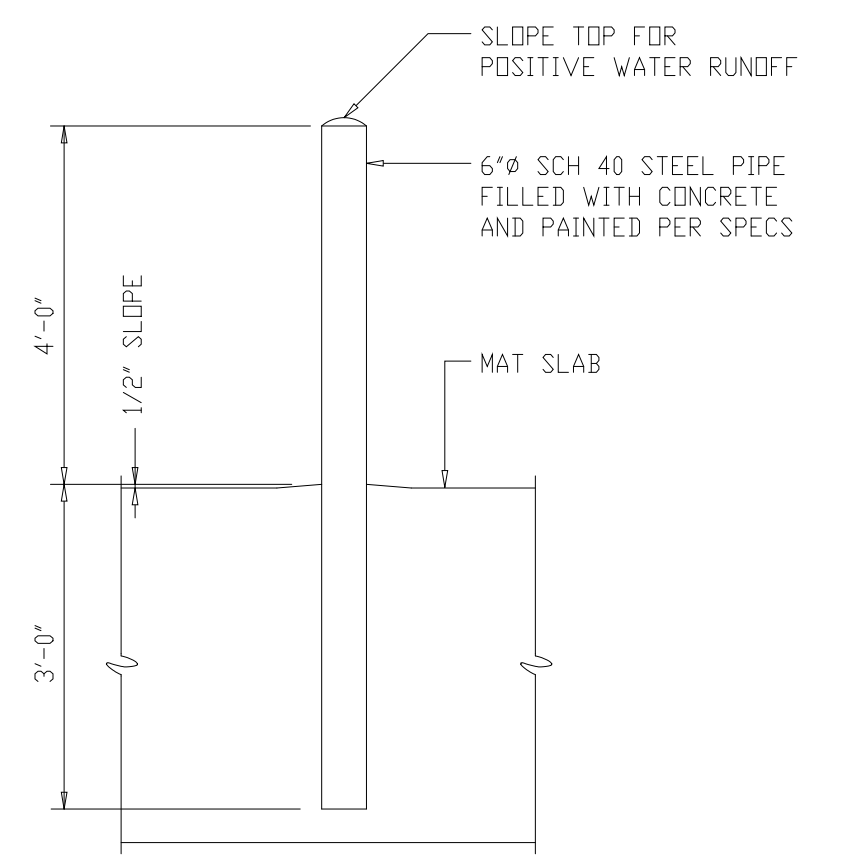
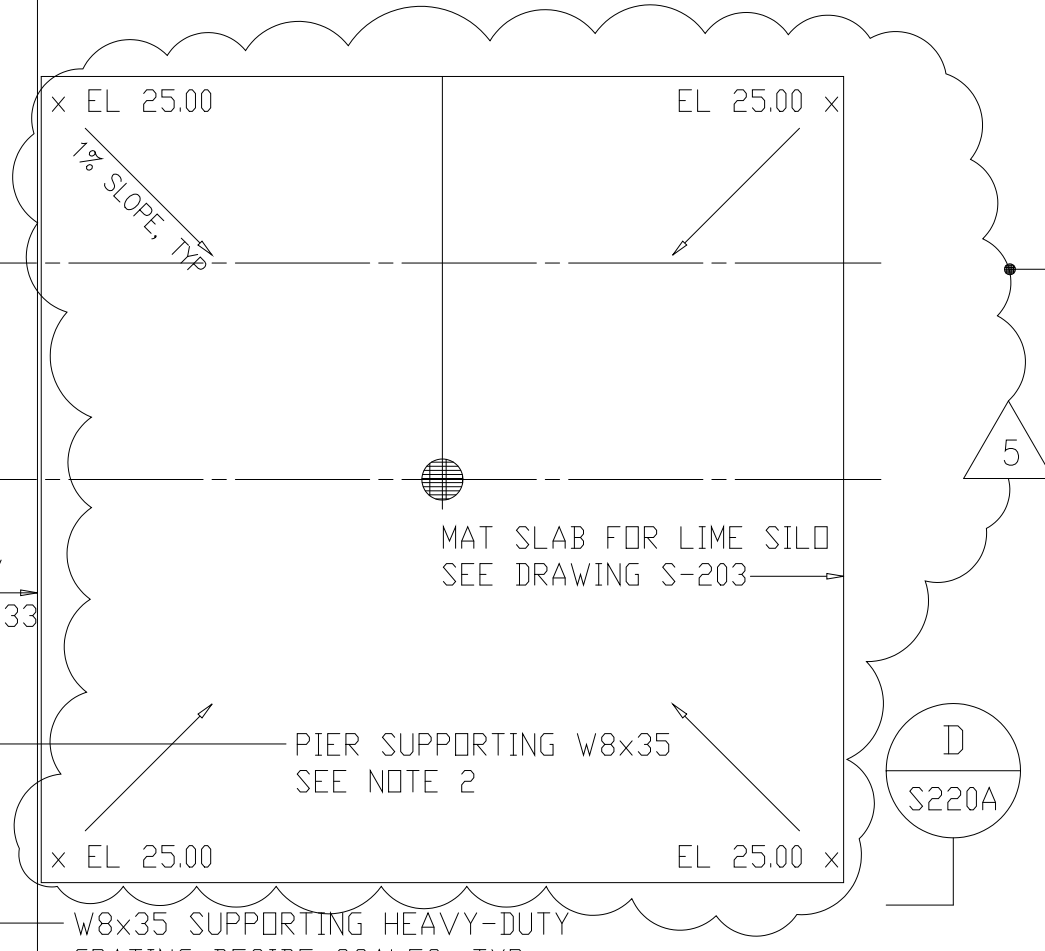
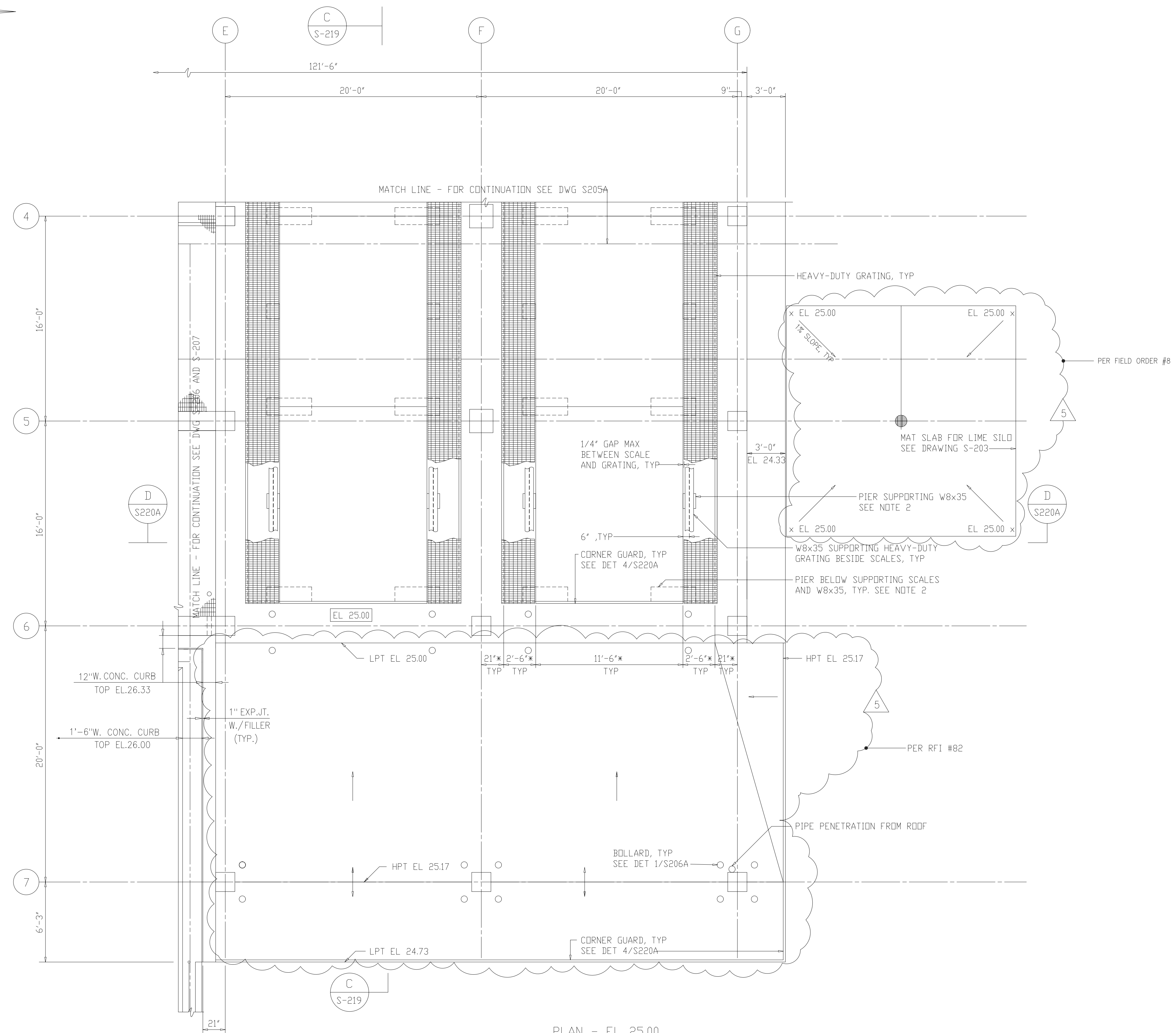
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PLAN AT ELEVATION 25.00
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
H & S JOB NUMBER 2843	DRAWING NUMBER S-205
CONTRACT NUMBER 93-02-WPC	SHEET 65 OF 199



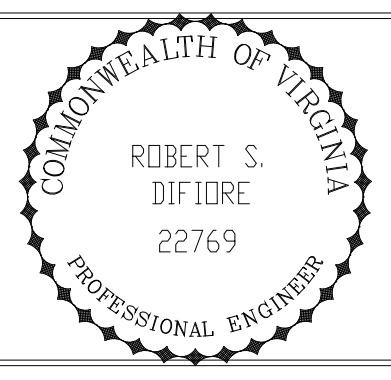
- NOTES:
- 1 SEE DWG S-206 FOR ADDITIONAL NOTES.
 - 2 SEE DWG S220A FOR SCALE PIT AND PIER DETAILS.



PLAN - EL 25.00
1/4"=1'-0"

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



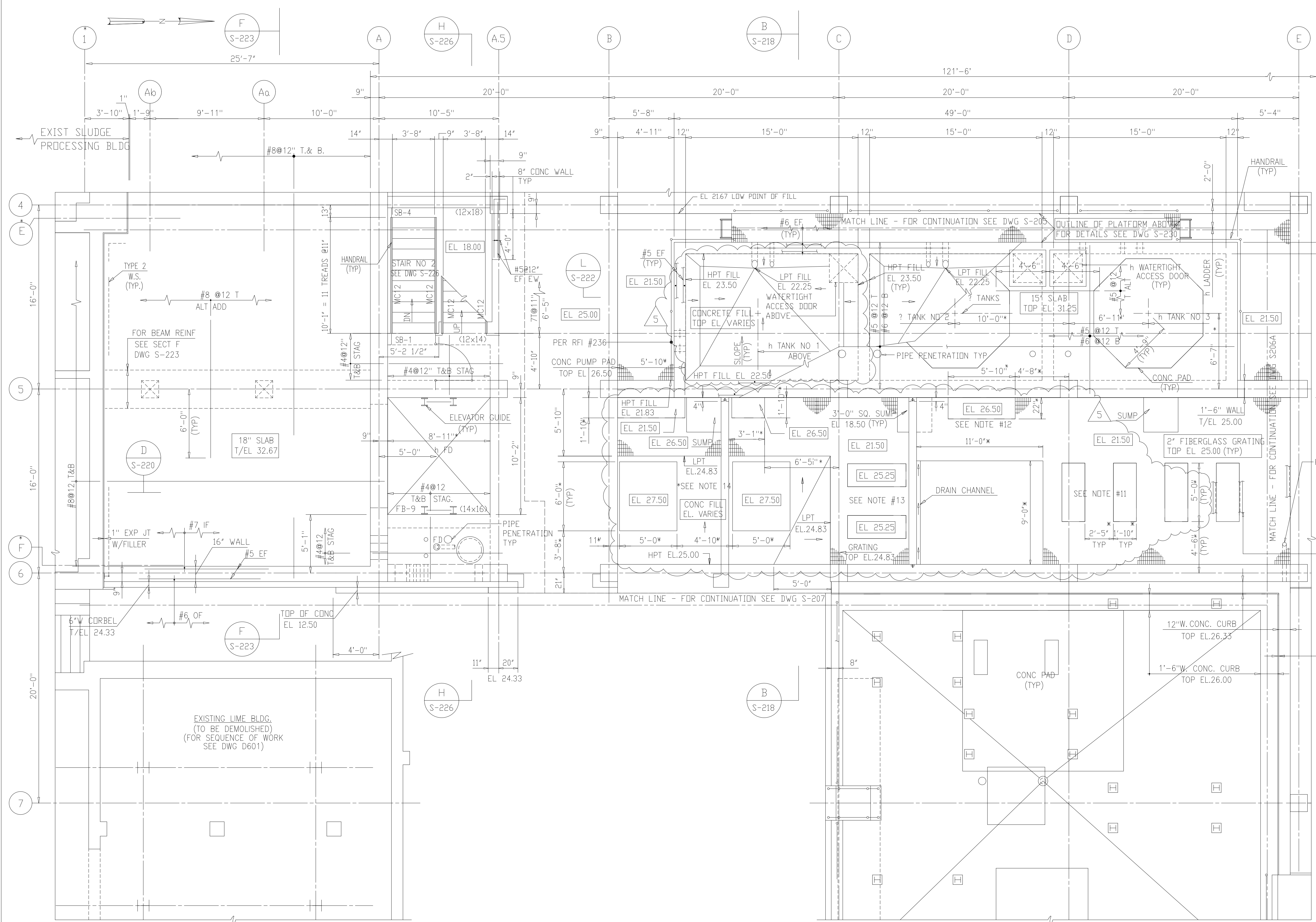
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PLAN AT ELEVATION 25.00
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S206A
	SHEET	66A OF 199

PLOT DATE: 09/20/94 14:40 FILE: H:\2002\Drawings\206A-220.dwg BY: MTT: XREF FILE: NONE



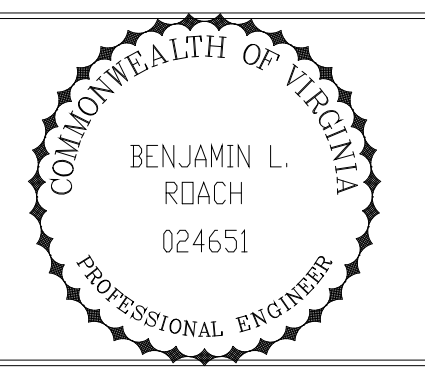
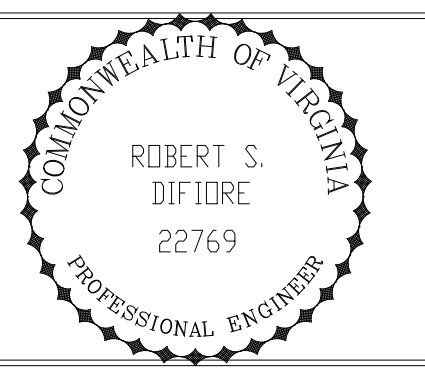
- NOTES:
- 1 FOR ADDITIONAL NOTES SEE DRAWING S-204.
 - 2 ALL CONCRETE BLOCKS SHALL BE LIGHTWEIGHT, SEE SPECIFICATIONS.
 - 3 * DEPENDENT UPON MANUFACTURERS EQUIPMENT SELECTED.
 - 4 ALL CONC FILL TO HAVE #6@12" T, EW (U.N.D.).
 - 5 FOR COLUMN SCHEDULE SEE DWG S-229.
 - 6 FOR BEAM SCHEDULE SEE DWG S-227 AND S-228.
 - 7 FIELD VERIFY EXISTING DIMENSIONS.
 - 8 FOR ADDITIONAL DETAILS OF CASTINGS IN VAULT ROOF AND WALLS, SEE DWG M-202 AND M-216.
 - 9 FOR ADDITIONAL GRATING SUPPORT SEE DWG S-230.
 - 10 FOR DETAILS OF PIPE PENETRATIONS SEE MECHANICAL DRAWINGS.

- 11 PER RFI #231, SHIFT PUMP PADS 2'-1" TO THE NORTH, PLACING SOUTHERN PAD 1'-5" OFF COLUMN LINE 'D', TOP PAD EL. TO BE 25.71'. (TYP 4)
- 12 PAD TO BE 1'-10" x 5'-10" AND TO BE LOCATED 2'-8" OFF COLUMN LINE 'D', TOP EL TO BE 26.50' (RFI #231)
- 13 PADS TO BE 1'-4 1/2" OFF COLUMN LINE 'C' AND 3'-7" OFF COLUMN LINE 'D'. 6 PADS ARE 4'-4" x 1'-8", POURED 2' APART TO AN EL OF 25.25'. (RFI #231)
- 14 ACID METER PUMP PAD LOCATED IN SOUTHWEST CORNER ADJACENT TO 8" BLOCK WALL INSTALLED 9'-7" OFF COLUMN LINE C IS TO BE 3'-10" x 1'-10". GAS METER PAD IS TO BE 5'-10" x 1'-10". (PER RFI #231)

PLAN - EL 25.00
1/4"=1'-0"

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



Hazenand Sawyer
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

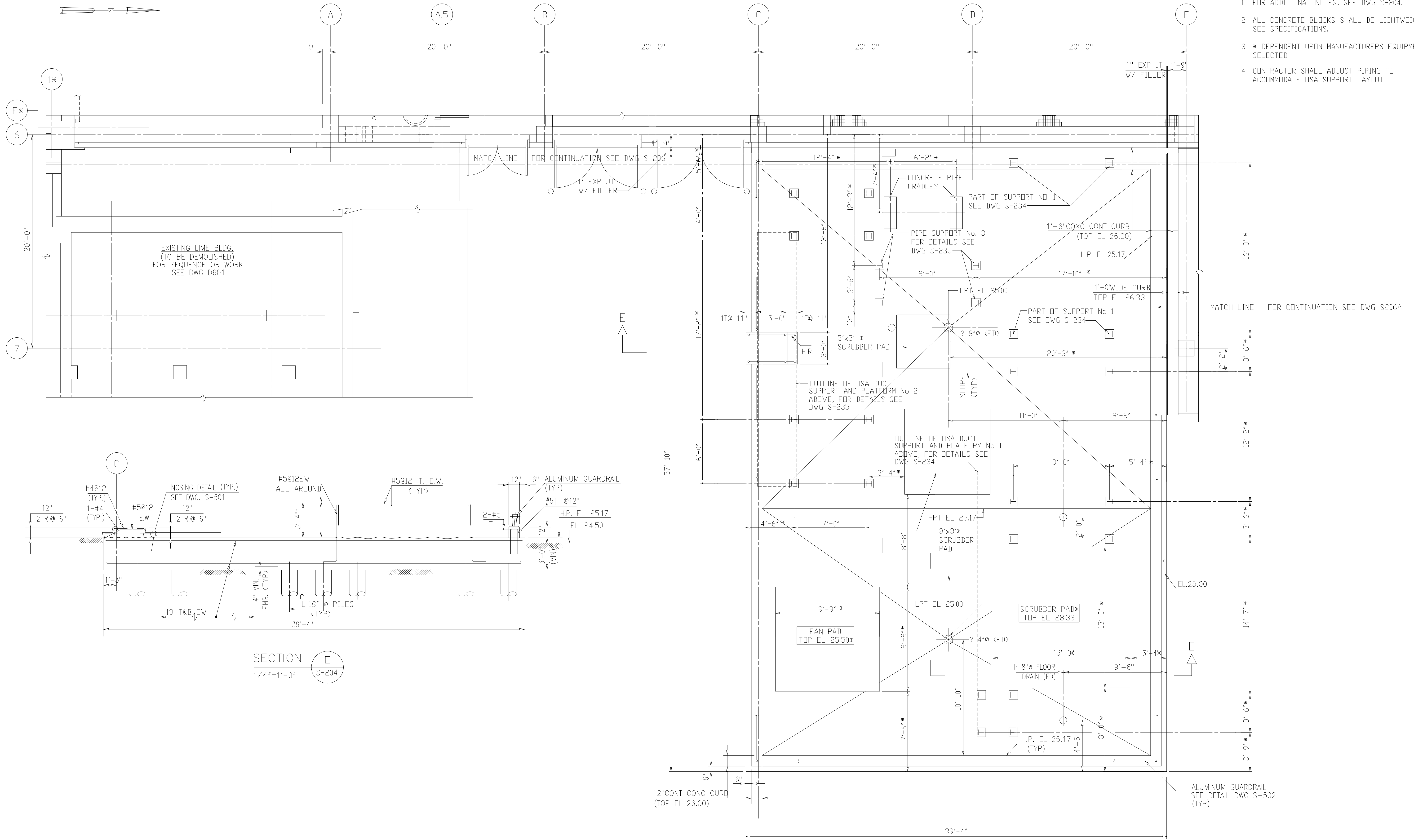
CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PLAN AT ELEVATION 25.00
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-206
	SHEET	66 OF 199

PLOT DATE: 09/20/94 1:50pm FILE: H:\ARL\DWG\WPC\WPC206.SHP BY: MTT: REF: FILE = INE

NOTES:

- 1 FOR ADDITIONAL NOTES, SEE DWG S-204.
- 2 ALL CONCRETE BLOCKS SHALL BE LIGHTWEIGHT, SEE SPECIFICATIONS.
- 3 * DEPENDENT UPON MANUFACTURERS EQUIPMENT SELECTED.
- 4 CONTRACTOR SHALL ADJUST PIPING TO ACCOMMODATE OSA SUPPORT LAYOUT

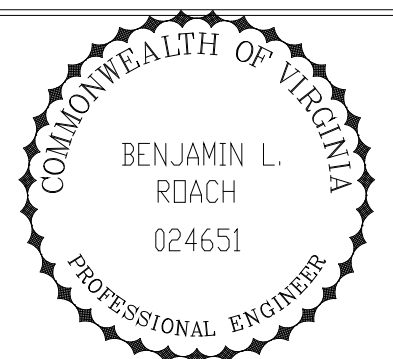
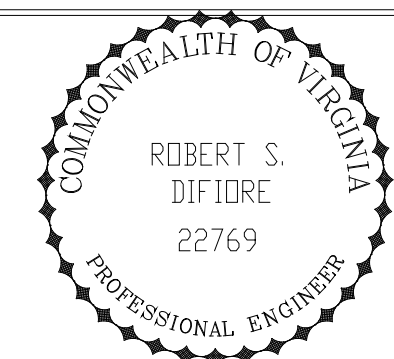


SECTION E
1/4"=1'-0"

PLAN - EL 25.00
1/4"=1'-0"

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ ENGR	AB/RNC
REGULATORY APPROVAL	
ISSUED FOR	
DATE	
BY	
APPROVED	



HAZENAND SAWYER
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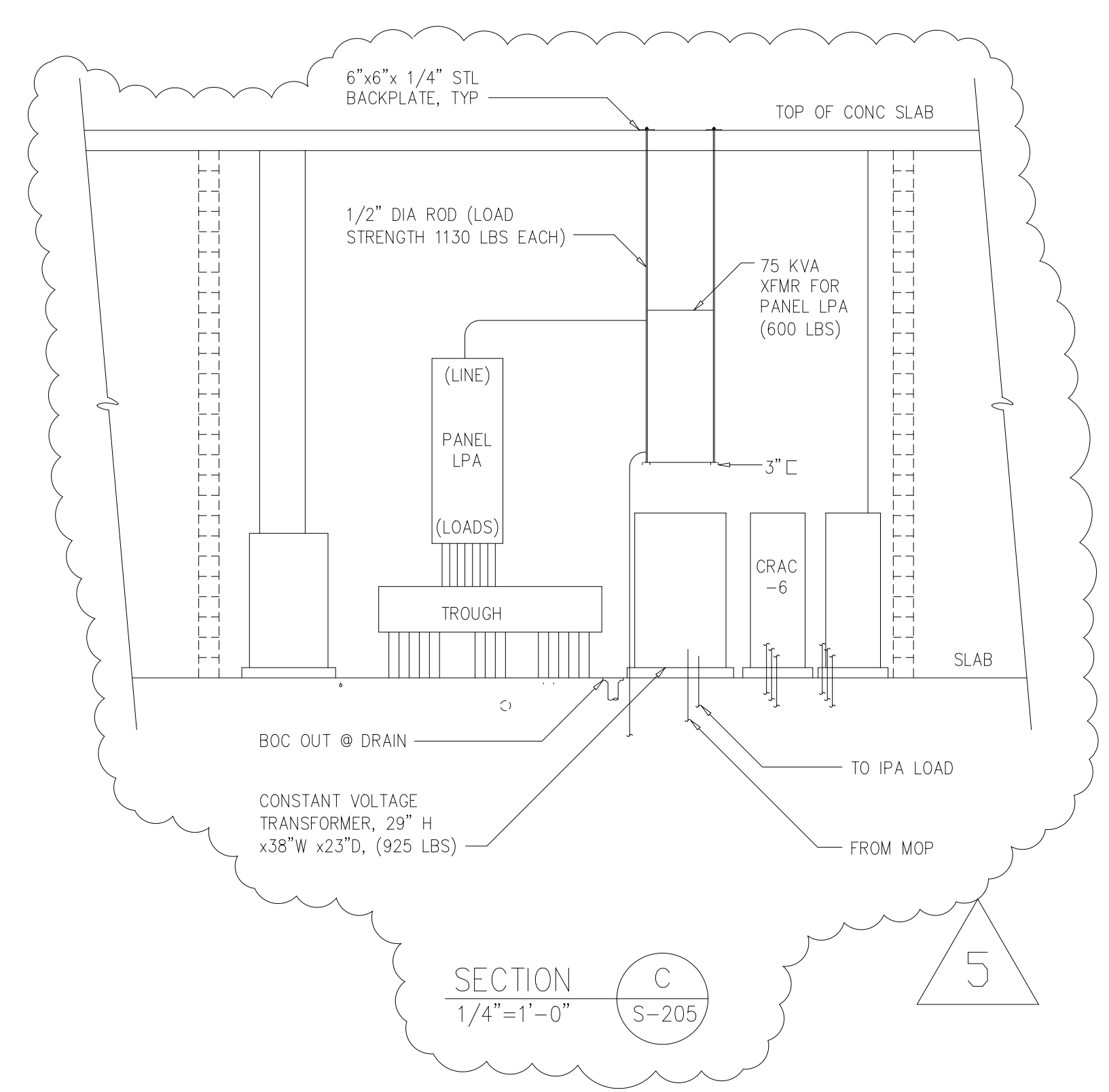
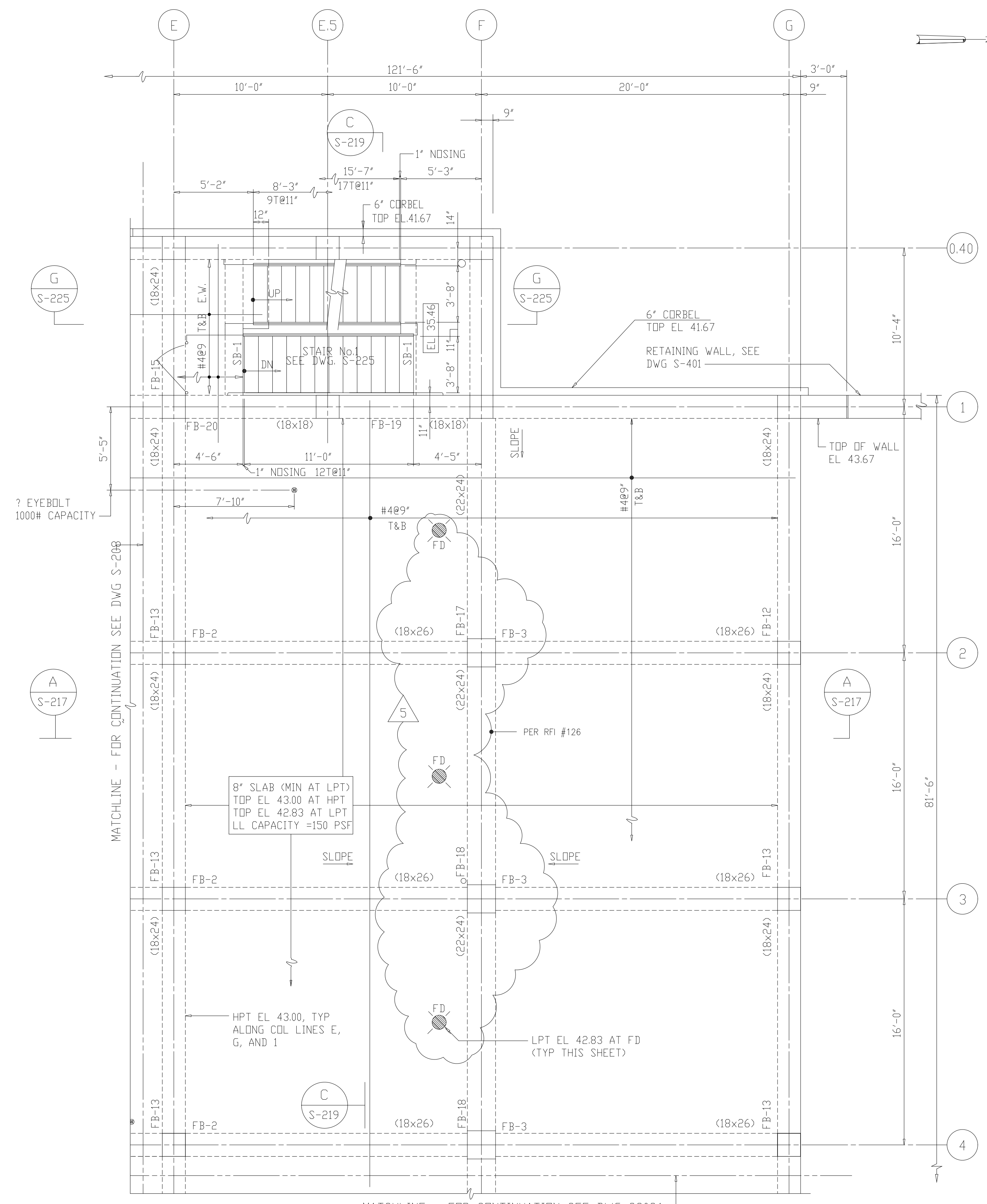
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PLAN AT ELEVATION 25.00
SHEET 3

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER S-207
	SHEET 67 OF 199

PLOT DATE: 10/10/94 14:00 FILE: H:\S\207\DWG\S-207.DWG BY: MITS MSF FILE: *NDG

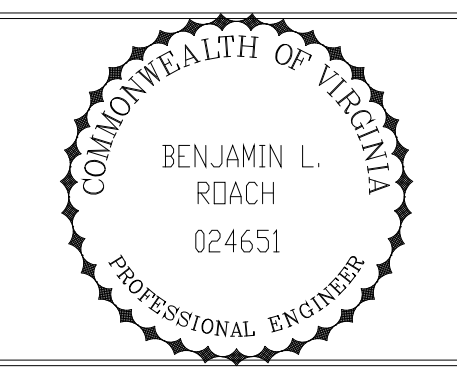
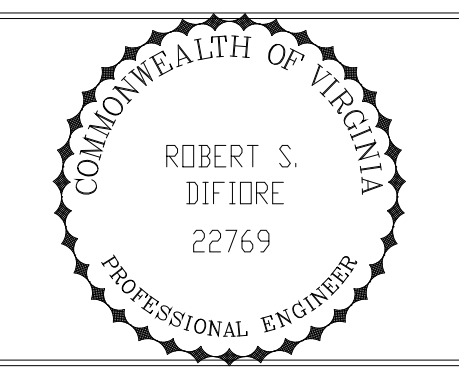
NOTES:
1 SEE DRAWING S-208 FOR NOTES.



PLAN - EL 43.00
1/4"=1'-0"

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
DATE	BY
APPROVED	



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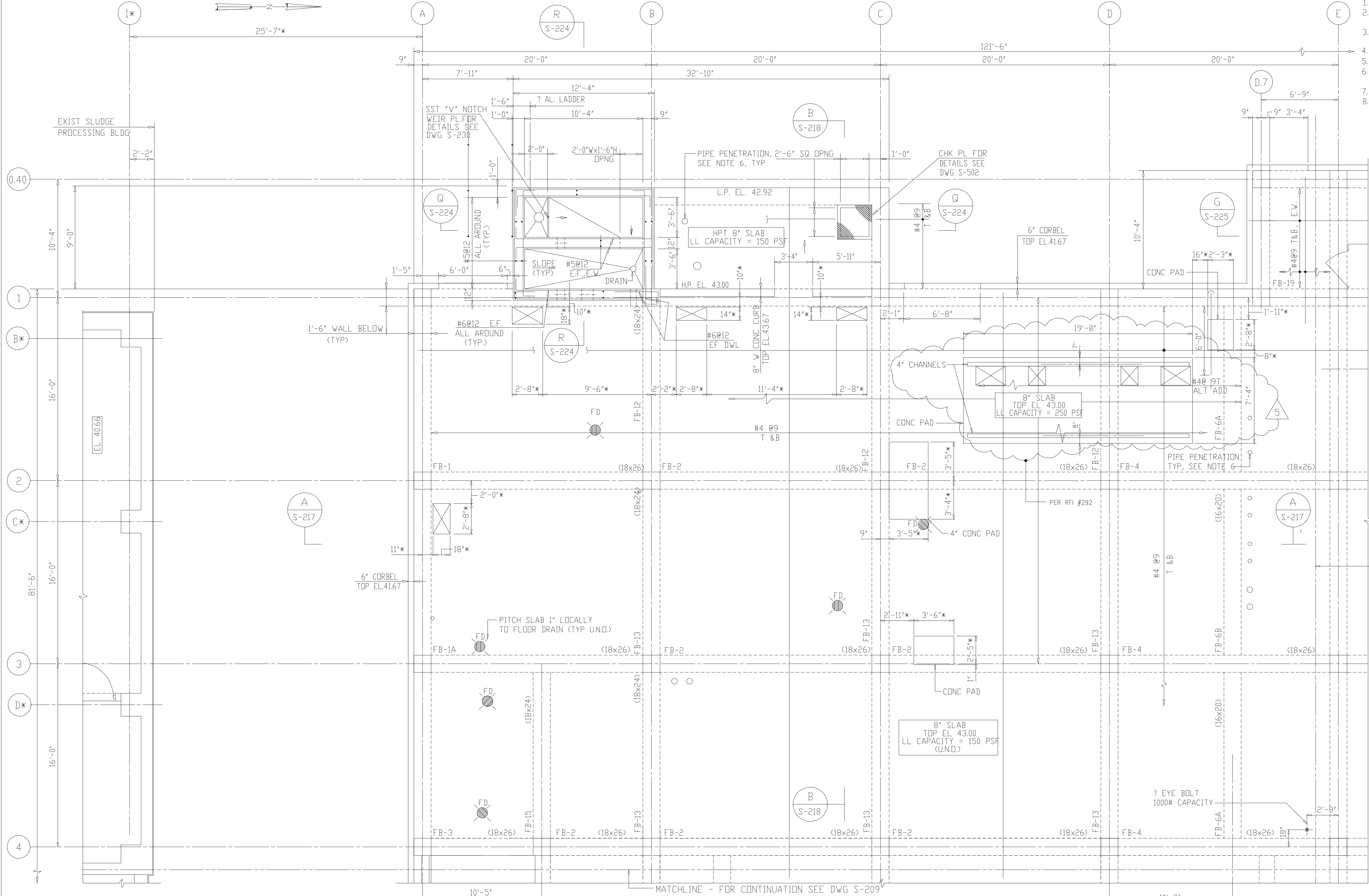
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PLAN AT ELEVATION 43.00
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S208A
	SHEET	68A OF 199

PLOT DATE: 09/24/94 10:00 AM FILE: H:\2002\Phase3\208a-209a.dwg BY: MTT: XREF FILE: NONE

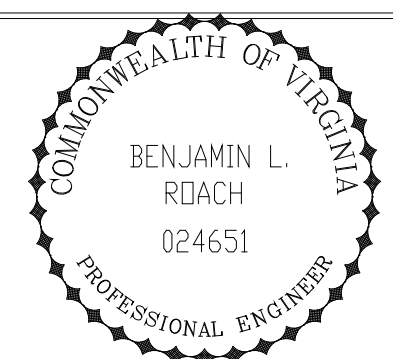
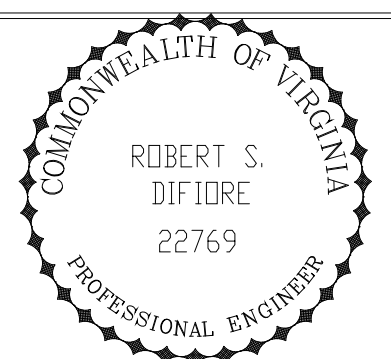
- NOTES:
- FOR ADDITIONAL NOTES SEE DRAWING S-204.
 - ALL CONCRETE BLOCKS SHALL BE LIGHTWEIGHT, SEE SPECIFICATIONS.
 - * DEPENDENT UPON MANUFACTURERS EQUIPMENT SELECTED.
 - FOR BEAM SCHEDULE SEE DWG. S-227 & S-228.
 - FOR COLUMN SCHEDULE SEE DWG. S-229.
 - FOR ADDITIONAL DETAILS OF PIPE PENETRATIONS AND EQUIPMENT PADS SEE MECH DWGS.
 - FOR LAP SPLICE DETAILS SEE DWG S-501.
 - SLAB SHALL HAVE MINIMUM #4@9 CONTINUOUS, TOP AND BOTTOM, EACH WAY, UNLESS SHOWN OR NOTED OTHERWISE.



PLAN - EL 43.00
1/4"=1'-0"

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

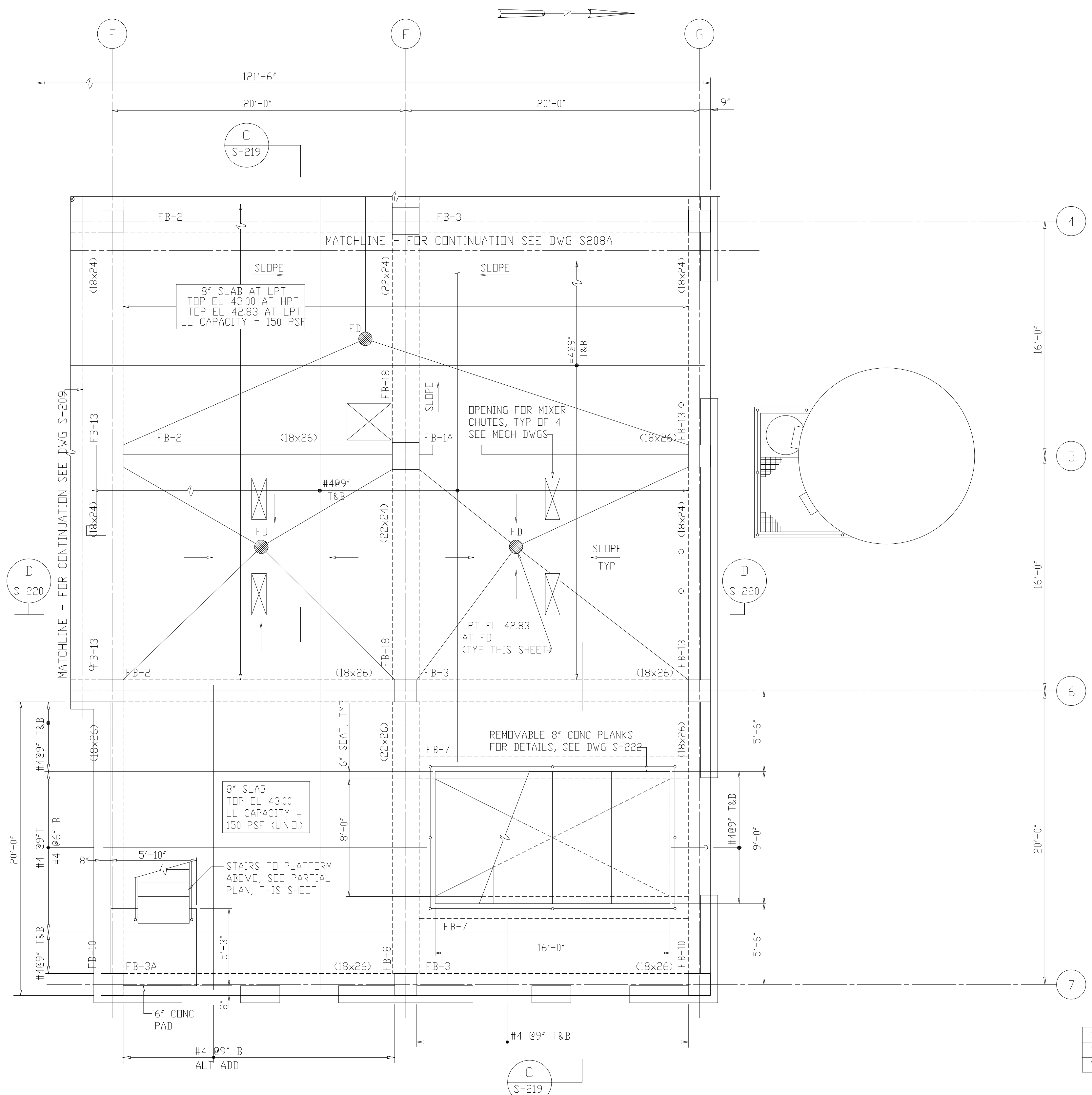
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PLAN AT ELEVATION 43.00
SHEET 1

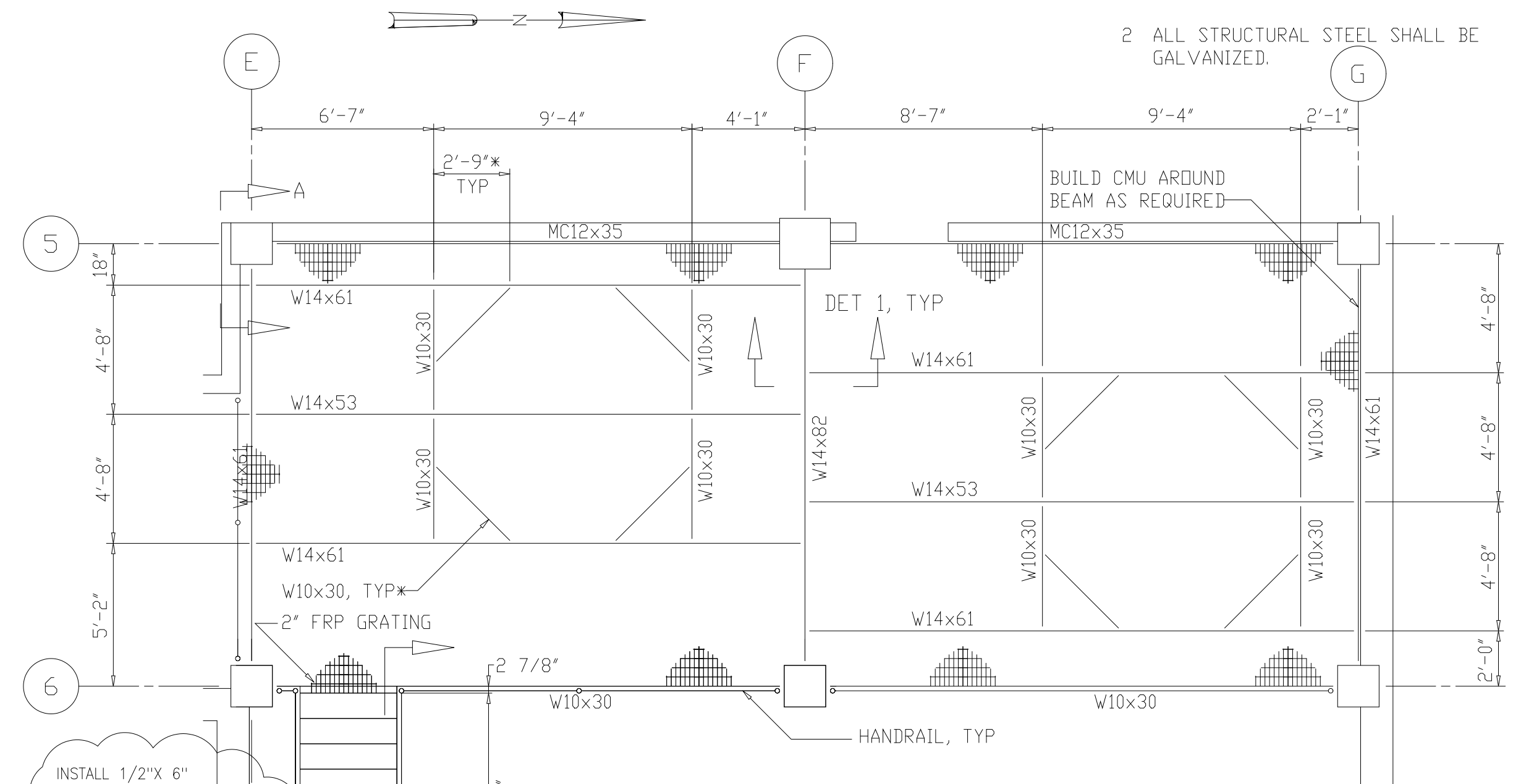
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-208
	SHEET	68 OF 199

PLOT DATE: 09/20/94 10:58am FILE: H:\2092\Drawings\WB-208.dwg by: MITS REF: FILE = NONE

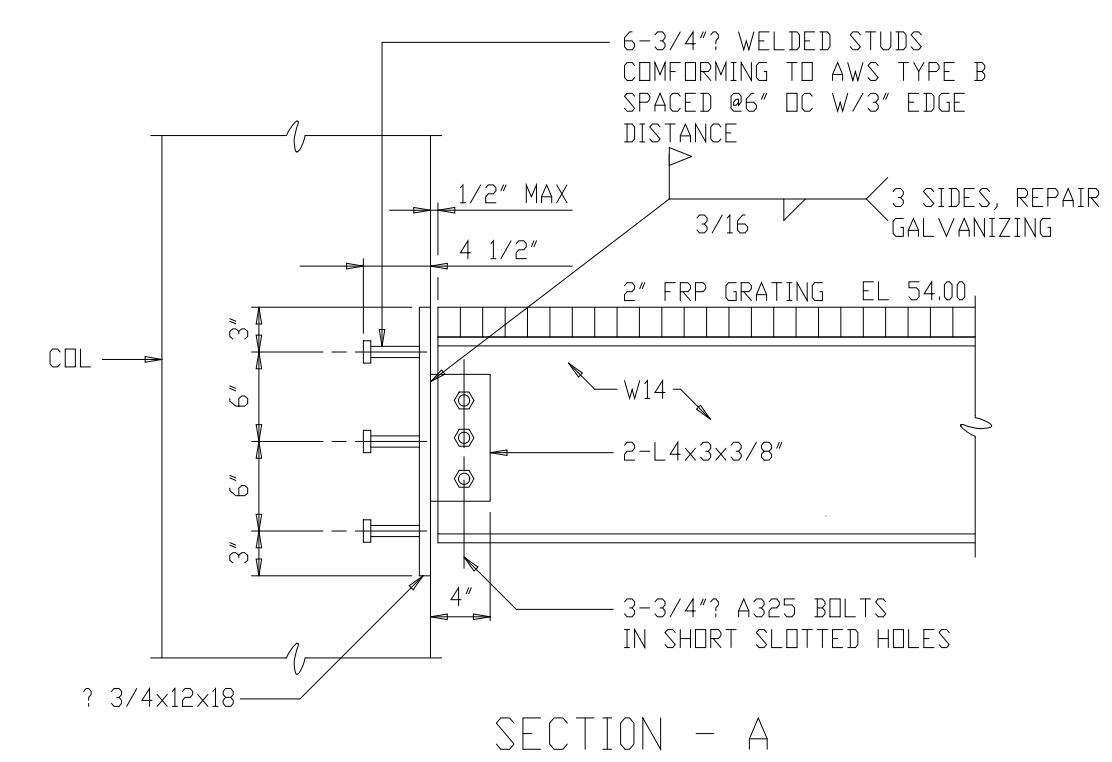
NOTES:
 1 FOR NOTES SEE DRAWING S-209.
 2 ALL STRUCTURAL STEEL SHALL BE GALVANIZED.



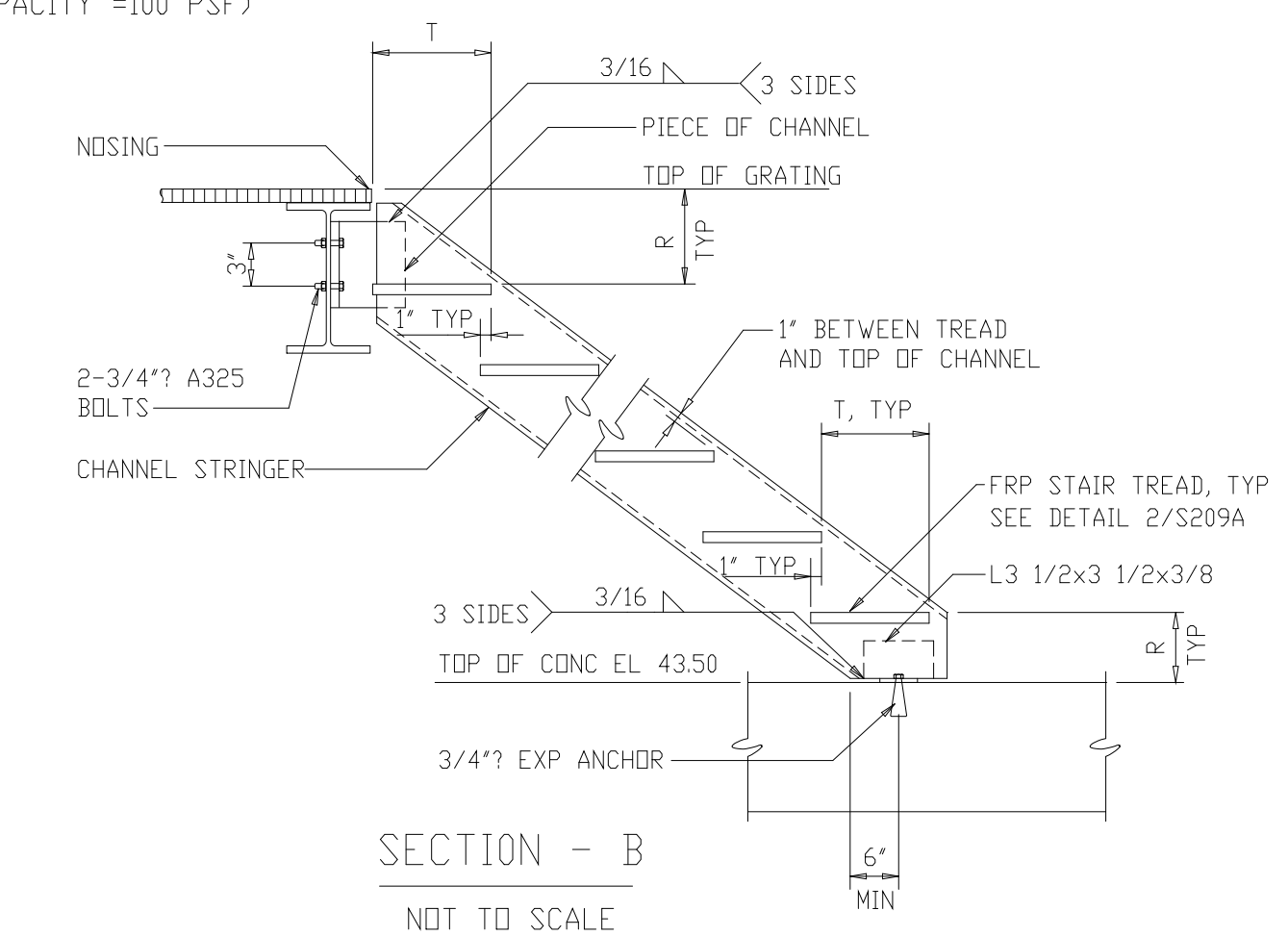
PLAN - EL 43.00
 1/4"=1'-0"



PARTIAL PLAN - EL 54.00
 1/4"=1'-0"
 (T.O.S. -2' FROM EL 54.00)
 (LL CAPACITY =100 PSF)



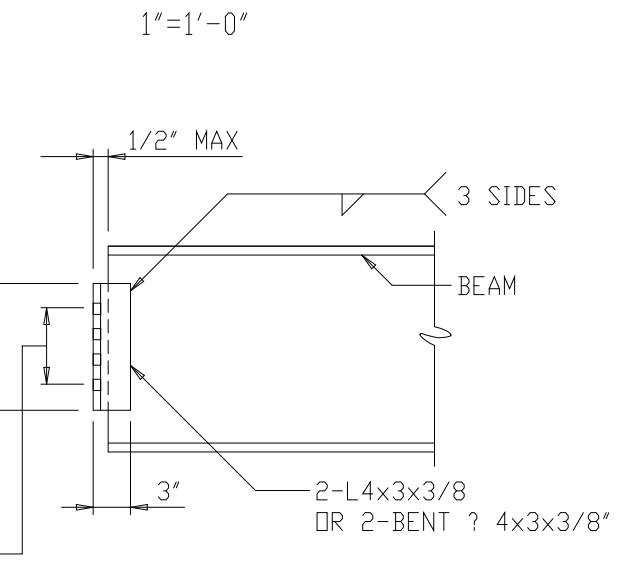
SECTION - A
 1"=1'-0"



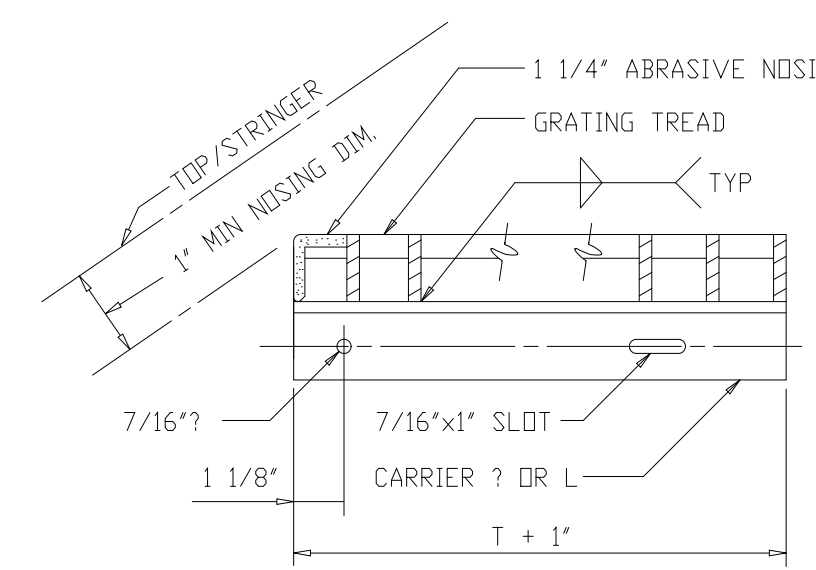
SECTION - B
 NOT TO SCALE

BEAM	L	n	WELD
W10	5 1/2'	2	3/16
W14	8 1/2'	3	3/16

*n ROWS 3/4" A325 BOLTS #3 OR 3/4" ADHESIVE ANCHORS #3 1/4"



DETAIL - 1
 1"=1'-0"

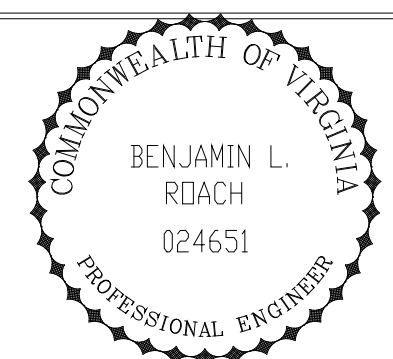
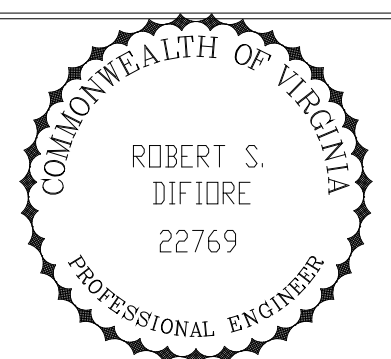


DETAIL - 2
 NOT TO SCALE

RECORD DRAWING

FILED: 10/20/10 10:00 AM AT THE OFFICE OF THE COUNTY ENGINEER, ARLINGTON COUNTY, VIRGINIA.

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



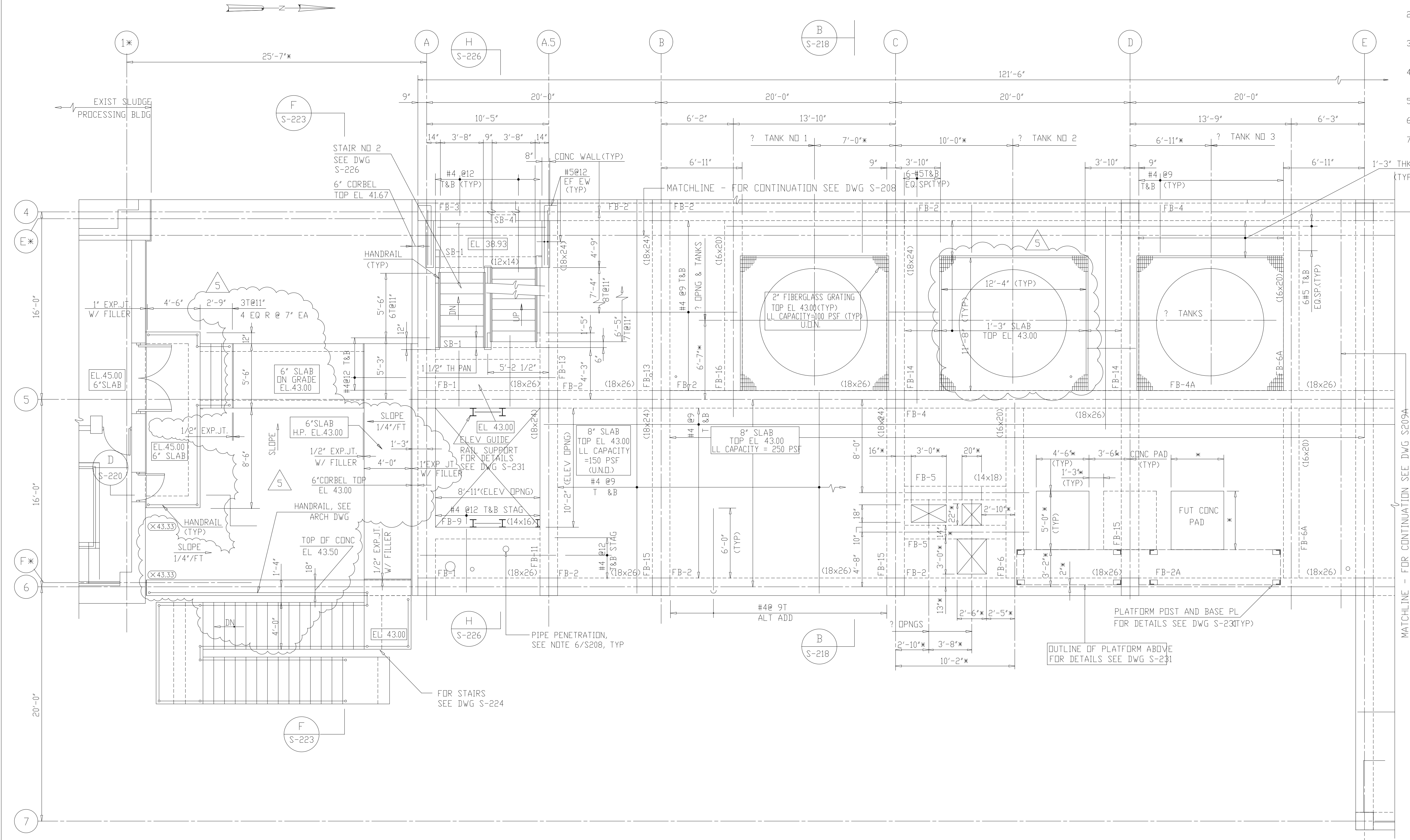
HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 STRUCTURAL
 PLAN AT ELEVATIONS 43.00/54.00
 SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S209A
	SHEET	69A OF 199

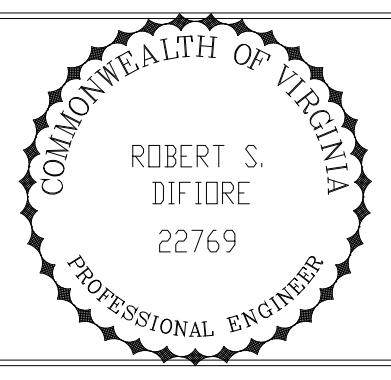
- NOTES:
- 1 FOR ADDITIONAL NOTES SEE DRAWING S-204.
 - 2 ALL CONCRETE BLOCKS SHALL BE LIGHTWEIGHT, SEE SPECIFICATIONS.
 - 3 * DEPENDENT UPON MANUFACTURERS EQUIPMENT SELECTED.
 - 4 FOR BEAM SCHEDULE SEE DWG S-227 AND S-228.
 - 5 FOR COLUMN SCHEDULE SEE DWG S-229.
 - 6 FOR LAP SPLICE DETAILS SEE DWG S-501.
 - 7 SLAB SHALL HAVE MINIMUM #4@9" CONT, TOP AND BOTTOM, EA WAY, UN.D.



PLAN - EL 43.00
1/4"=1'-0"

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

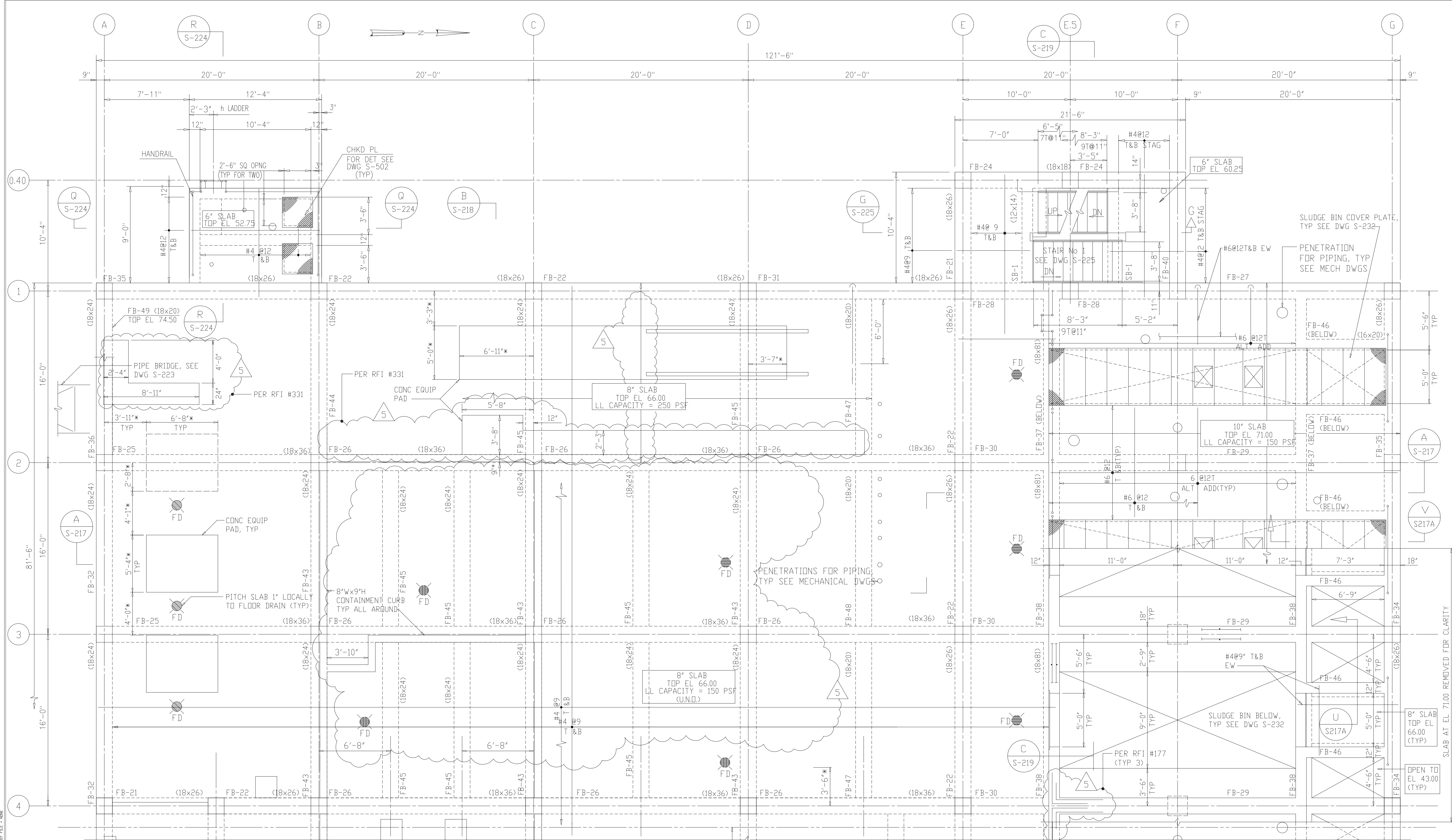


HAZENAND SAWYER
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PLAN AT ELEVATION 43.00
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-209
	SHEET	69 OF 199



PLAN - EL 66.00
1/4"=1'-0"

NOTES:
 1. FOR ADDITIONAL NOTES SEE DRAWING S-204.
 2. ALL CONCRETE BLOCKS SHALL BE LIGHTWEIGHT. SEE SPECIFICATIONS.
 3. * DEPENDENT UPON MANUFACTURERS EQUIPMENT SELECTED.
 4. FOR BEAM SCHEDULE SEE DWG S-227 AND S-228.
 5. FOR COLUMN SCHEDULE SEE DWG S-229.
 6. **VERIFY IN FIELD.
 7. FOR LAP SPICE DETAILS SEE DWG S-501.
 8. SLAB SHALL HAVE MINIMUM #409 CONTINUOUS, TOP AND BOTTOM, EACH WAY, UNLESS SHOWN OR NOTED OTHERWISE.

RECORD DRAWING

5	RECORD DRAWING	8-99	FXP
4	WPS CONST-LAND APP. REDES.	4-96	RSD
3	WPS APPROVAL-LAND APP. REDES.	2-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
NO.	ISSUED FOR	DATE	BY

DESIGNED: ETM		
DRAWN: BRC		
CHECKED:		
PROJ. ENGR. AB/RNC		

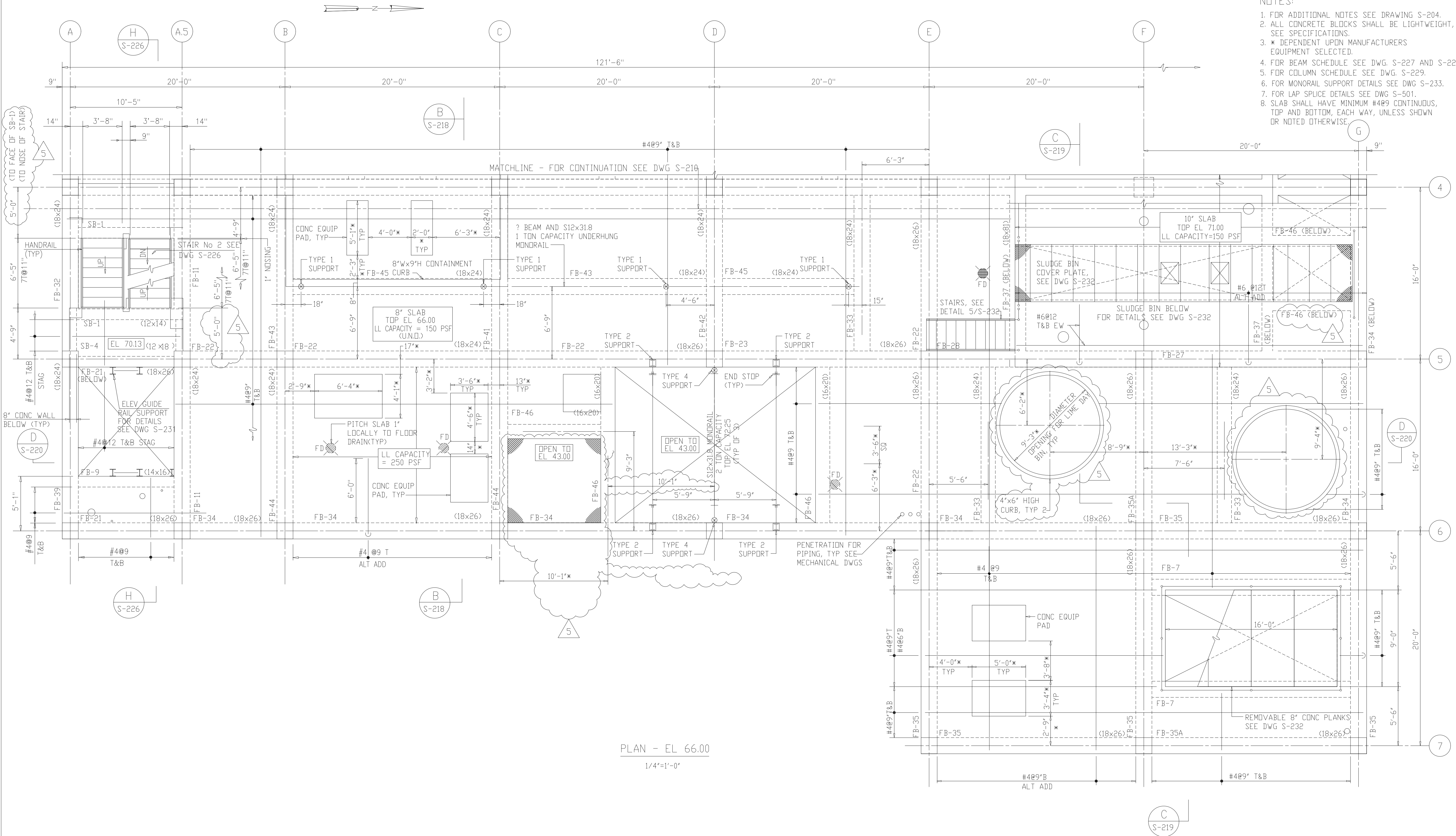
HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 STRUCTURAL
 PLAN AT ELEVATION 66.00
 SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
H & S JOB NUMBER 2843	CONTRACT NUMBER 93-02-WPC
DRAWING NUMBER S-210	SHEET 70 OF 199

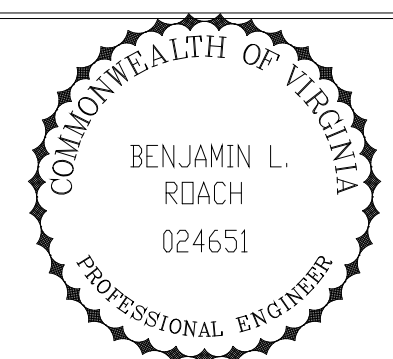
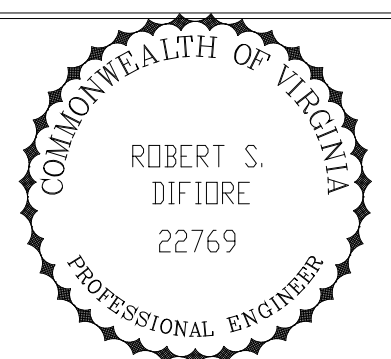
- NOTES:
- FOR ADDITIONAL NOTES SEE DRAWING S-204.
 - ALL CONCRETE BLOCKS SHALL BE LIGHTWEIGHT, SEE SPECIFICATIONS.
 - * DEPENDENT UPON MANUFACTURERS EQUIPMENT SELECTED.
 - FOR BEAM SCHEDULE SEE DWG. S-227 AND S-228.
 - FOR COLUMN SCHEDULE SEE DWG. S-229.
 - FOR MONORAIL SUPPORT DETAILS SEE DWG S-233.
 - FOR LAP SPLICE DETAILS SEE DWG S-501.
 - SLAB SHALL HAVE MINIMUM #4@9 CONTINUOUS, TOP AND BOTTOM, EACH WAY, UNLESS SHOWN OR NOTED OTHERWISE.



PLAN - EL 66.00
1/4"=1'-0"

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



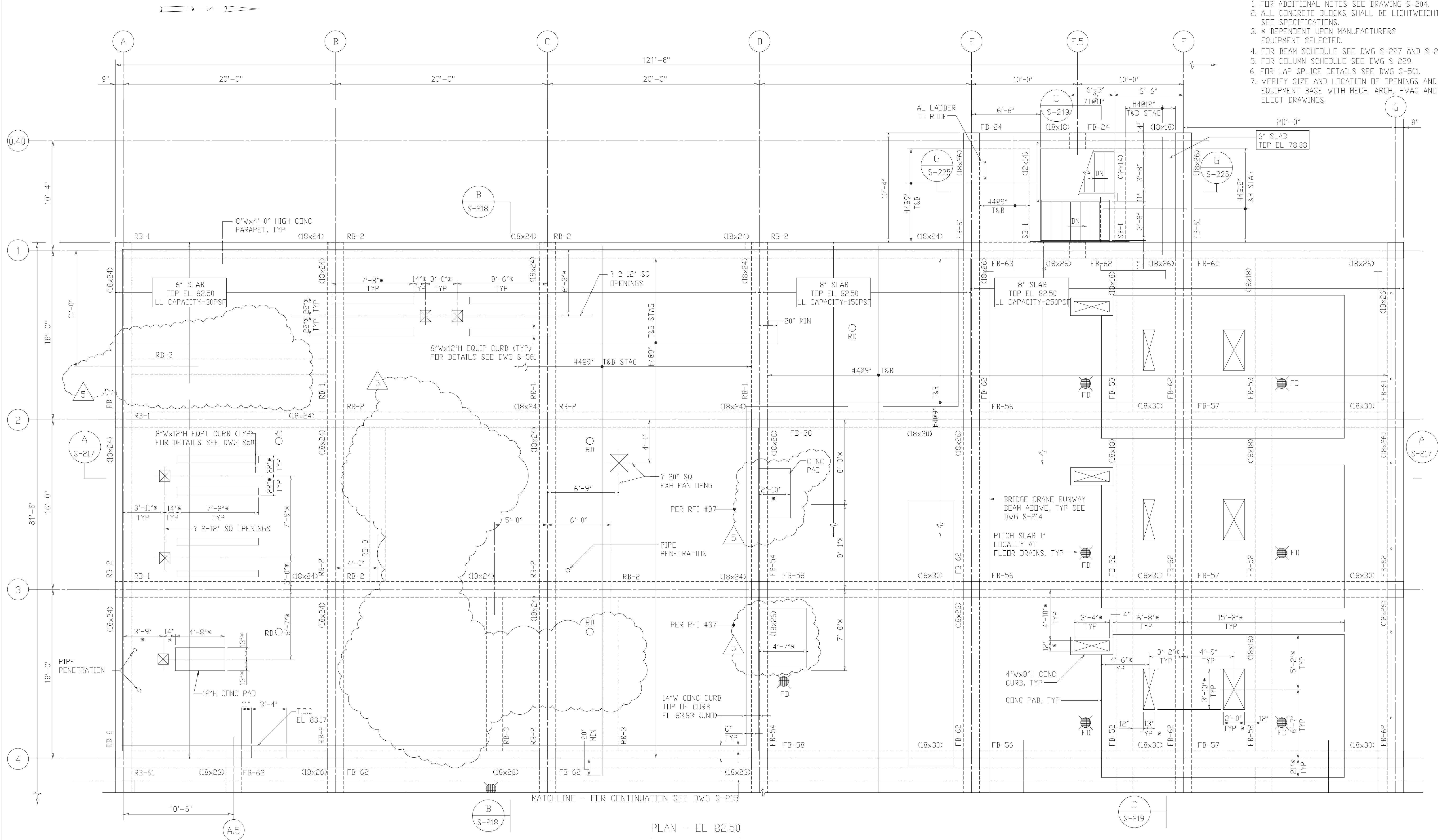
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PLAN AT ELEVATION 66.00
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-211
	SHEET	71 OF 199

- NOTES:
- FOR ADDITIONAL NOTES SEE DRAWING S-204.
 - ALL CONCRETE BLOCKS SHALL BE LIGHTWEIGHT, SEE SPECIFICATIONS.
 - * DEPENDENT UPON MANUFACTURERS EQUIPMENT SELECTED.
 - FOR BEAM SCHEDULE SEE DWG S-227 AND S-228.
 - FOR COLUMN SCHEDULE SEE DWG S-229.
 - FOR LAP SPLICE DETAILS SEE DWG S-501.
 - VERIFY SIZE AND LOCATION OF OPENINGS AND EQUIPMENT BASE WITH MECH, ARCH, HVAC AND ELECT DRAWINGS.

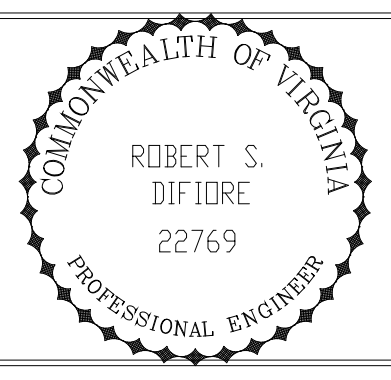


PLAN - EL 82.50
1/4"=1'-0"

RECORD DRAWING

5	RECORD DRAWING	8-99	FYP
4	WP6/7 CONST.-LAND APP. REDES.	4-96	RSD
3	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
NO.	ISSUED FOR	DATE	BY

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	



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Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

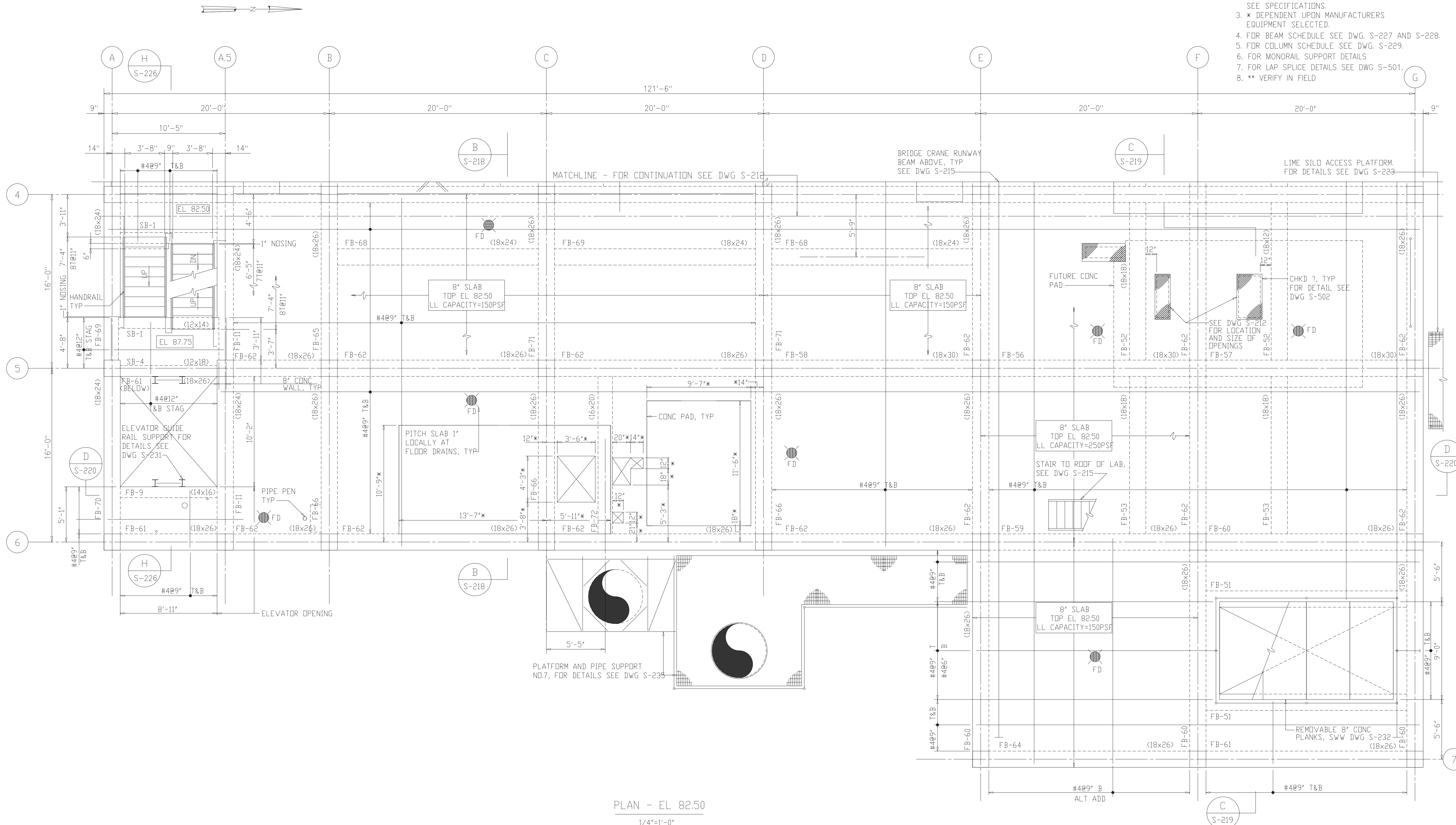
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PLAN AT ELEVATION 82.50
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-212
	SHEET	72 OF 199

NOTES:

1. FOR ADDITIONAL NOTES SEE DRAWING S-204.
2. ALL CONCRETE BLOCKS SHALL BE LIGHTWEIGHT, SEE SPECIFICATIONS.
3. * DEPENDENT UPON MANUFACTURERS EQUIPMENT SELECTED.
4. FOR BEAM SCHEDULE SEE DWG. S-227 AND S-228.
5. FOR COLUMN SCHEDULE SEE DWG. S-229.
6. FOR MONORAIL SUPPORT DETAILS
7. FOR LAP SPLICE DETAILS SEE DWG S-501.
8. ** VERIFY IN FIELD

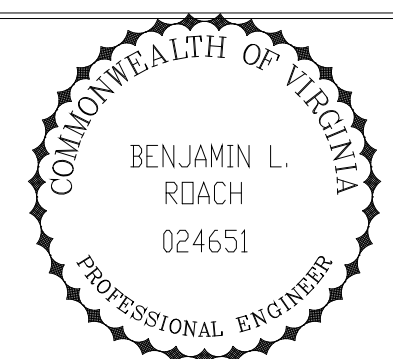
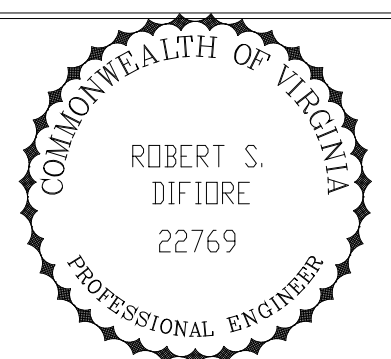


PLAN - EL 82.50
1/4"=1'-0"

RECORD DRAWING

5	RECORD DRAWING	8-99	FXP
4	WP6/7 CONST.-LAND APP. REDES.	4-96	RSD
3	WP6/7 APPROVAL.-LAND APP. REDES.	3-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
NO.	ISSUED FOR	DATE	BY

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	



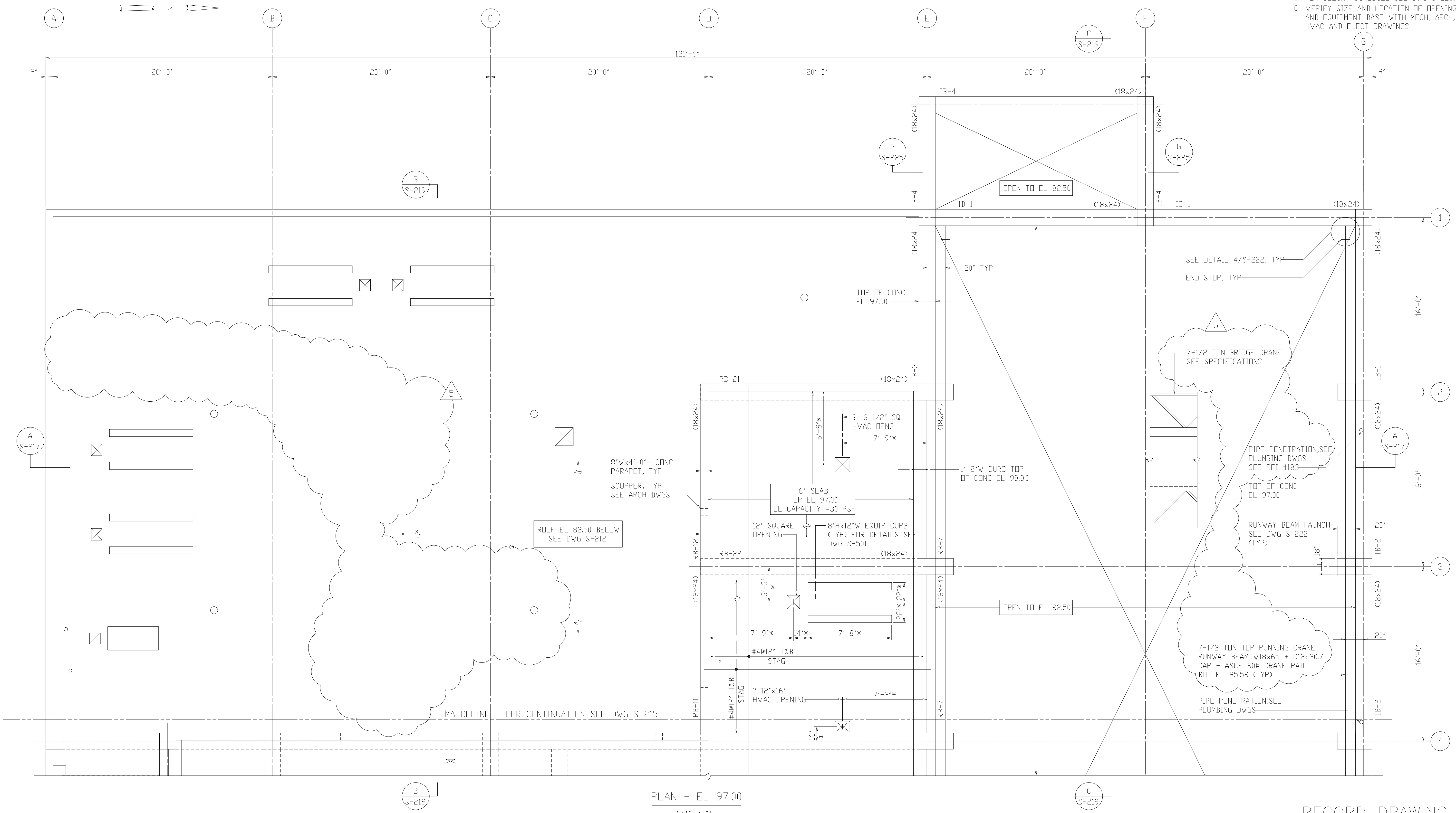
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
PLAN AT ELEVATION 82.50
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-213
	SHEET	73 OF 199

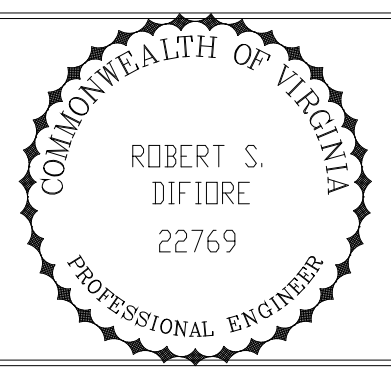
- NOTES:
- 1 FOR ADDITIONAL NOTES SEE DWG S-204.
 - 2 ALL CONCRETE BLOCKS SHALL BE LIGHT-WEIGHT, SEE SPECIFICATIONS.
 - 3 * DEPENDENT UPON MANUFACTURERS EQUIP SELECTED.
 - 4 FOR BEAM SCHEDULE SEE DWG S-227 AND S-228.
 - 5 FOR COLUMN SCHEDULE SEE DWG S-229.
 - 6 VERIFY SIZE AND LOCATION OF OPENINGS AND EQUIPMENT BASE WITH MECH, ARCH, HVAC AND ELECT DRAWINGS.



PLAN - EL 97.00
1/4"=1'-0"

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	
NO.	ISSUED FOR
	DATE
	BY



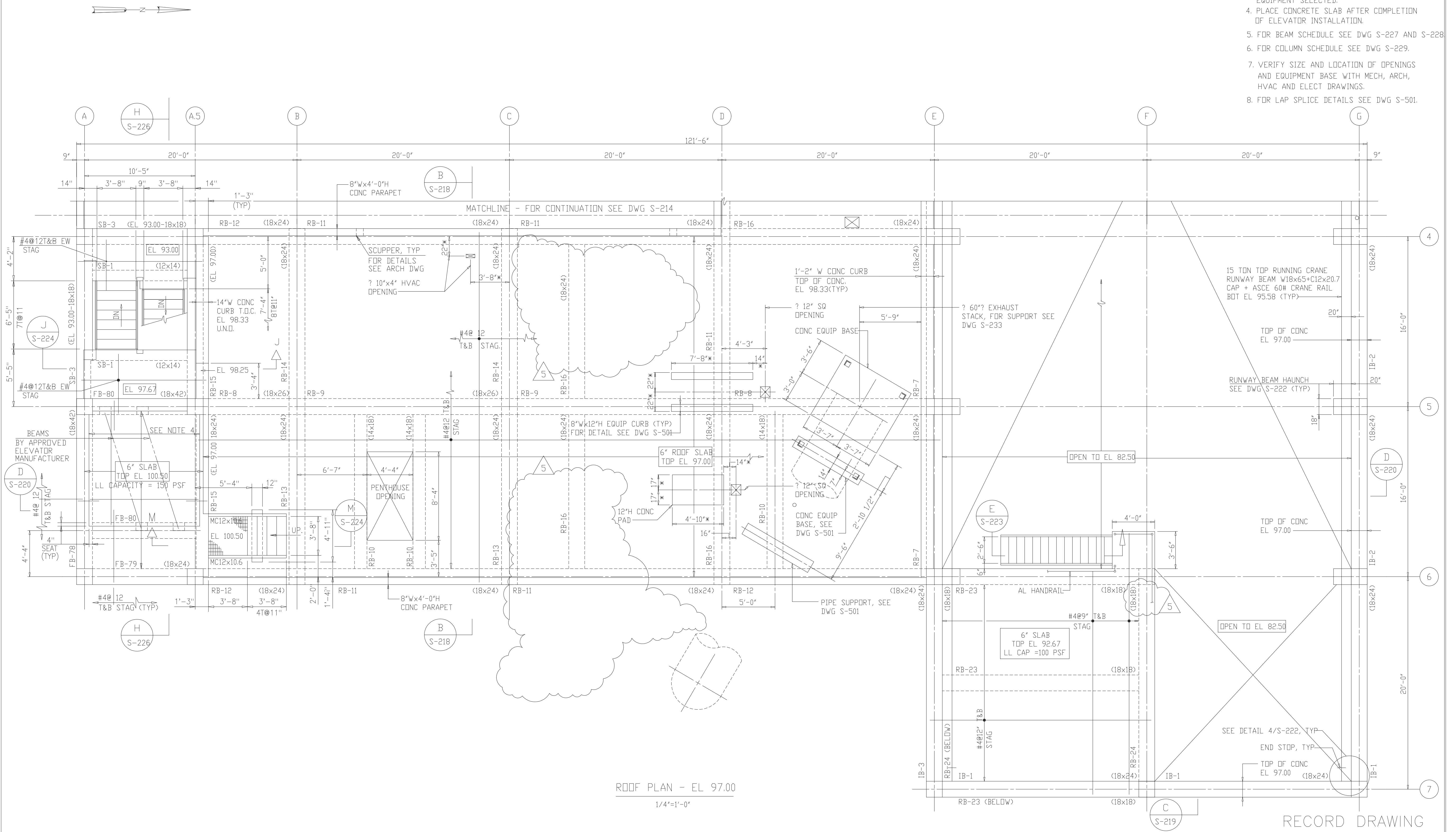
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
INTERMEDIATE PLAN AND LOW ROOF PLAN
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-214
	SHEET	74 OF 199

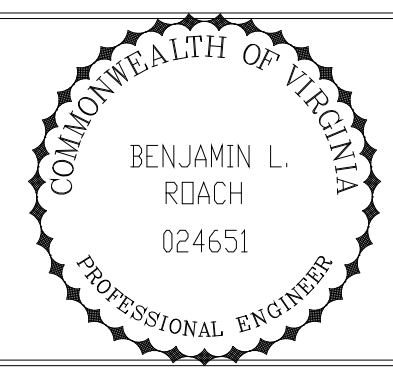
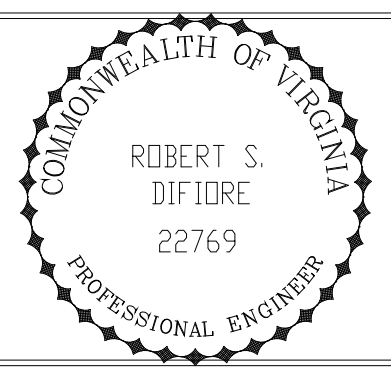
- NOTES:
1. FOR ADDITIONAL NOTES SEE DRAWING S-204.
 2. ALL CONCRETE BLOCKS SHALL BE LIGHTWEIGHT, SEE SPECIFICATIONS.
 3. * DEPENDENT UPON MANUFACTURERS EQUIPMENT SELECTED.
 4. PLACE CONCRETE SLAB AFTER COMPLETION OF ELEVATOR INSTALLATION.
 5. FOR BEAM SCHEDULE SEE DWG S-227 AND S-228.
 6. FOR COLUMN SCHEDULE SEE DWG S-229.
 7. VERIFY SIZE AND LOCATION OF OPENINGS AND EQUIPMENT BASE WITH MECH, ARCH, HVAC AND ELECT DRAWINGS.
 8. FOR LAP SPLICE DETAILS SEE DWG S-501.



ROOF PLAN - EL 97.00
1/4"=1'-0"

RECORD DRAWING

DESIGNED	ETM		
DRAWN	BRC		
CHECKED			
PROJ. ENGR.	AB/RNC		
APPROVED			
NO.	ISSUED FOR	DATE	BY
5	RECORD DRAWING	8-99	FXP
4	WP6/7 CONST.-LAND APP. REDES.	4-96	RSD
3	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB



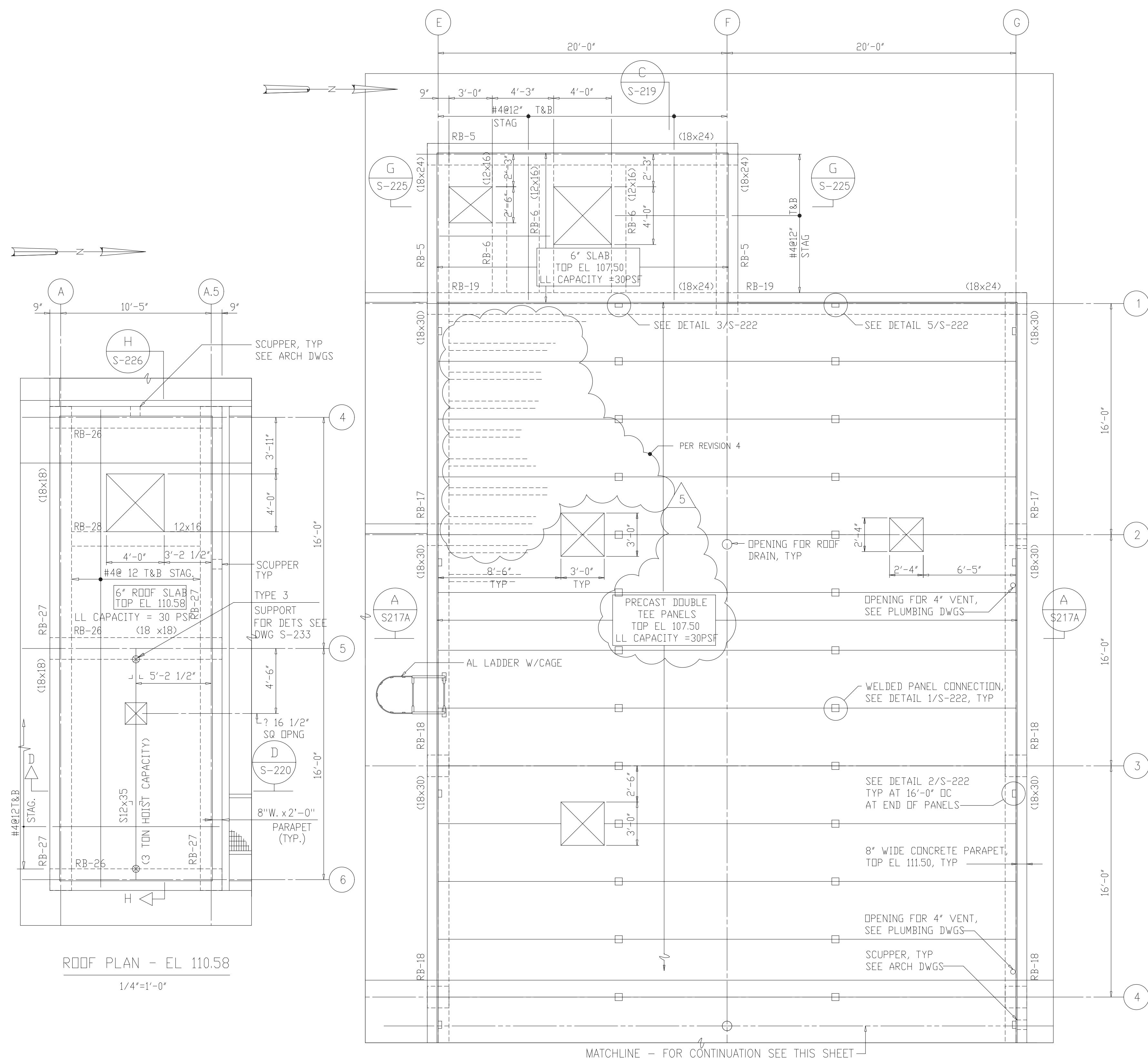
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

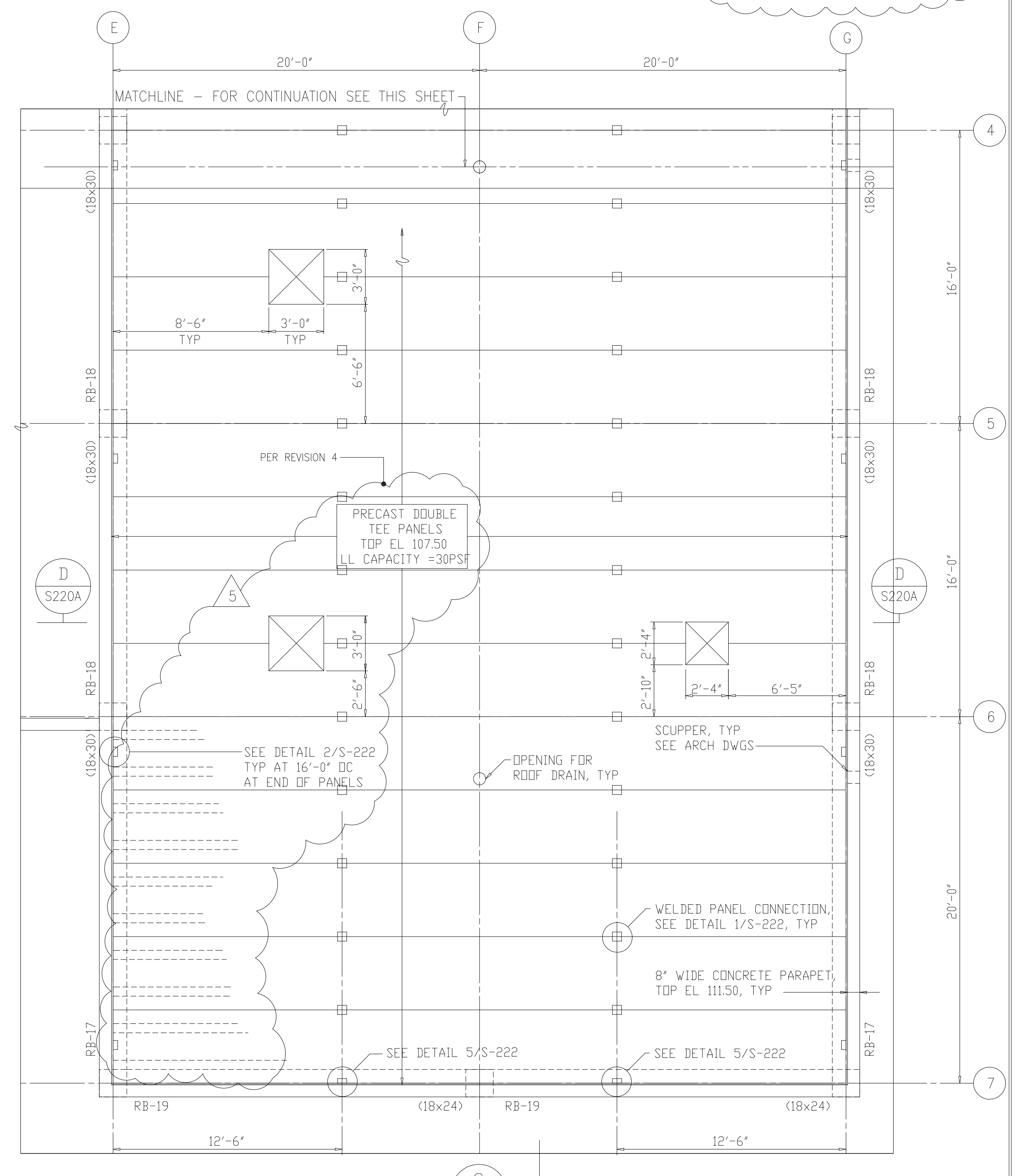
CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
INTERMEDIATE PLAN AND LOW ROOF PLAN
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-215
	SHEET	75 OF 199

- NOTES:
- 1 FOR ADDITIONAL NOTES SEE DWG S-204.
 - 2 LAYOUT FOR 4'-0" WIDE PRESTRESSED PANELS SHOWN. OTHER PANEL WIDTHS MAY BE SUBMITTED FOR APPROVAL.
 - 3 VERIFY LOCATION AND SIZE OF ALL ROOF OPENINGS WITH HVAC, MECH, AND ARCH DWGS.
 - 4 FOR BEAM SCHEDULE SEE DWG S-227 AND S-228.
 - 5 FOR COLUMN SCHEDULE SEE DWG S-229.
 - 6 FOR LAP SPLICE DETAILS SEE DWG S-501.
 - 7 THE CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES NECESSARY TO ACCOMMODATE SUBSTITUTING DOUBLE TEE CONSTRUCTION FOR HOLLOW CORE PLANKS.



ROOF PLAN - EL 110.58
1/4"=1'-0"



ROOF PLAN - EL 107.50
1/4"=1'-0"

RECORD DRAWING

PLOT DATE: 09/24/2019 10:00 AM
 FILE: \\S0140\Drawings\09\2843\190924\190924-2843-STRUC-HIGH ROOF PLAN.dwg
 PLOT FILE: NONE

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

ROBERT S. DIFIORE
22769

BENJAMIN L. ROACH
024651

HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

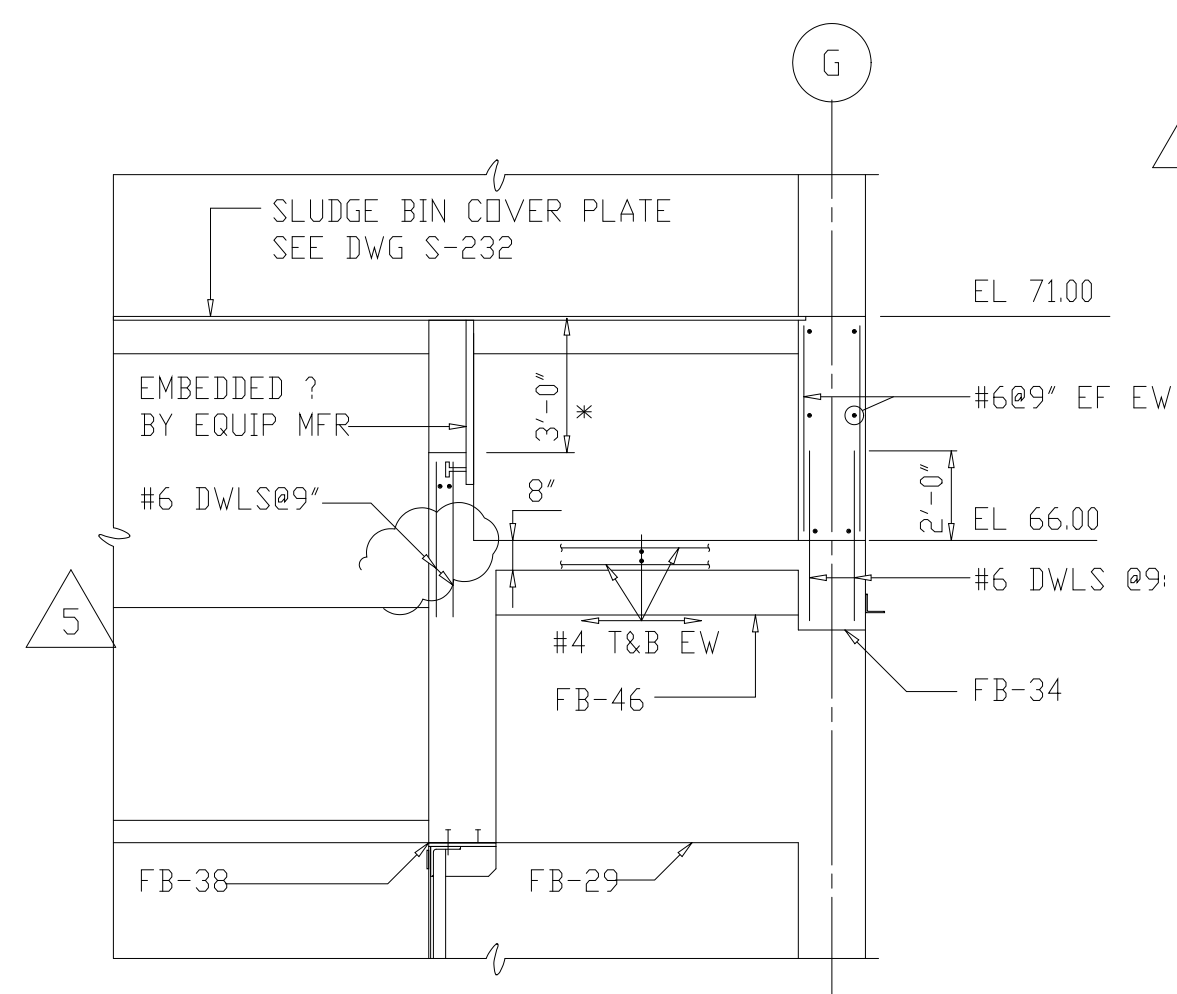
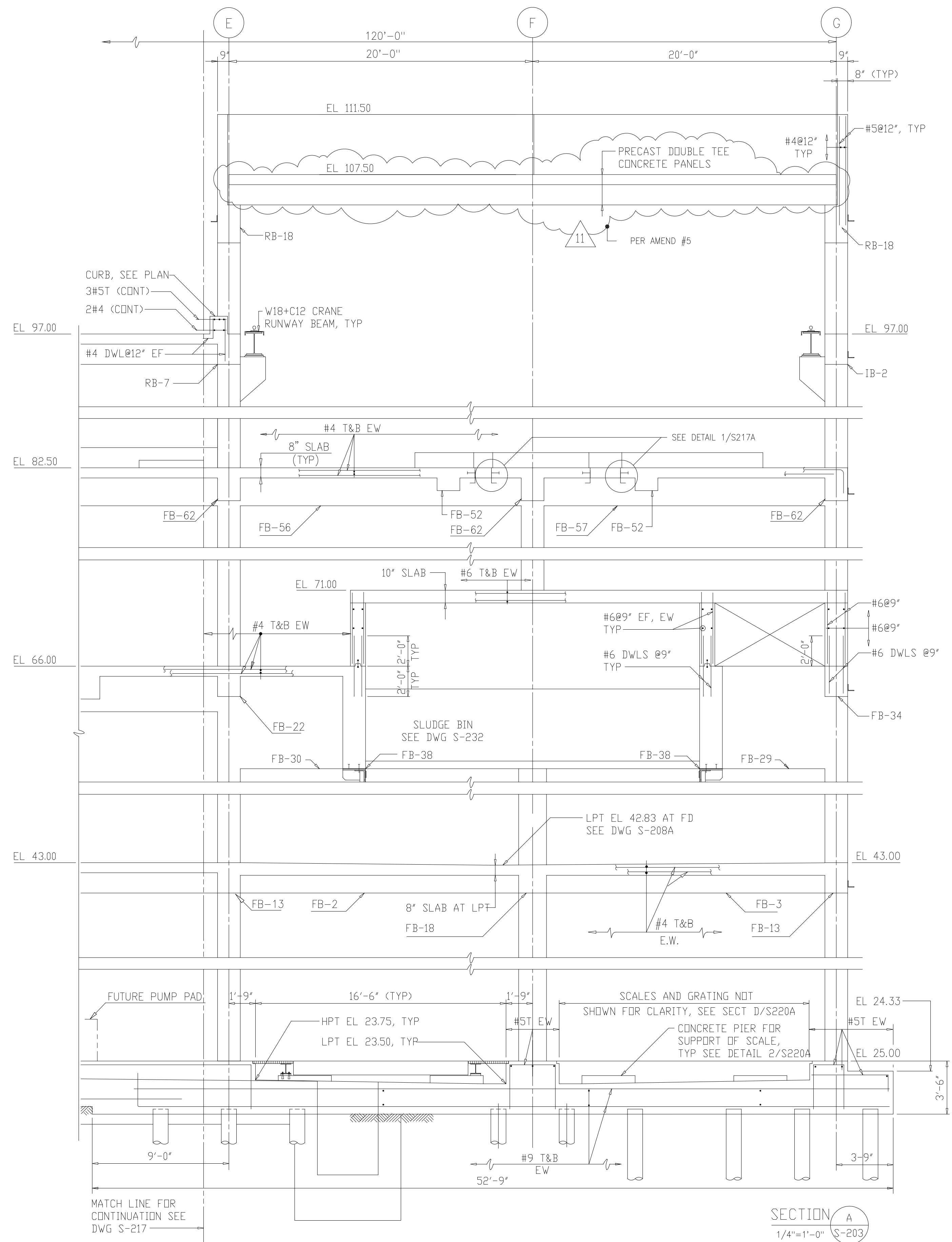
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 STRUCTURAL
 HIGH ROOF PLAN

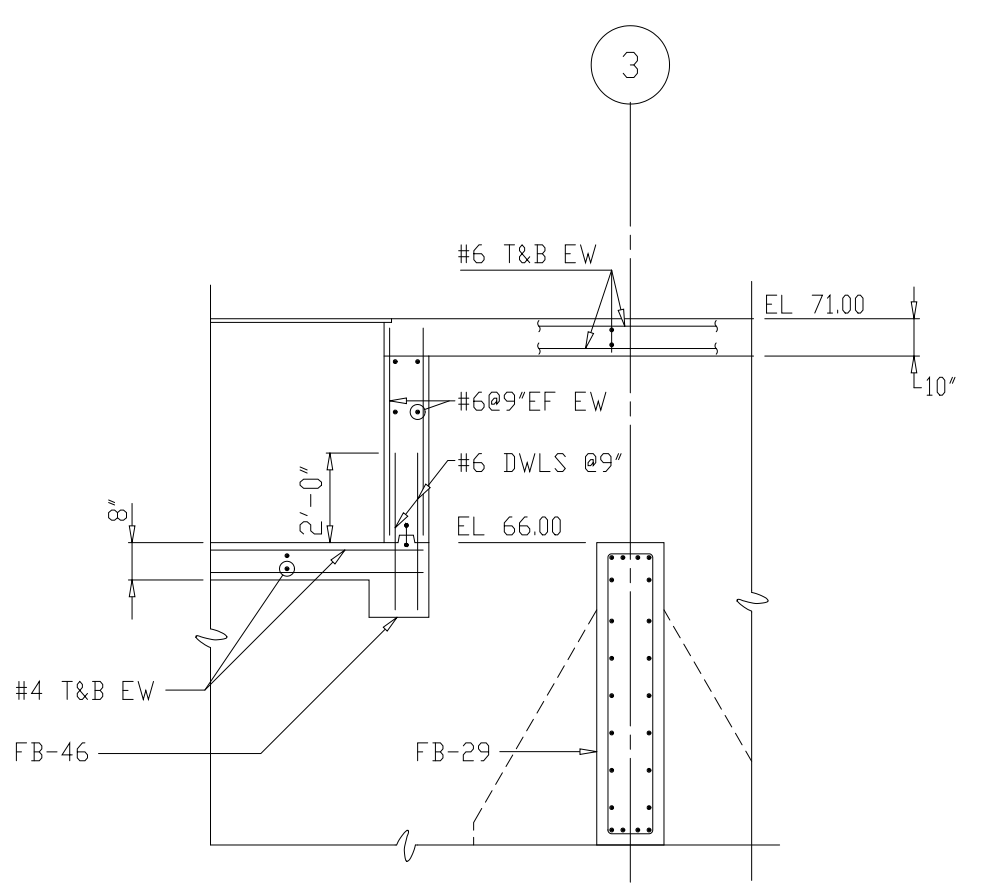
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-216
	SHEET	76 OF 199

NOTES:

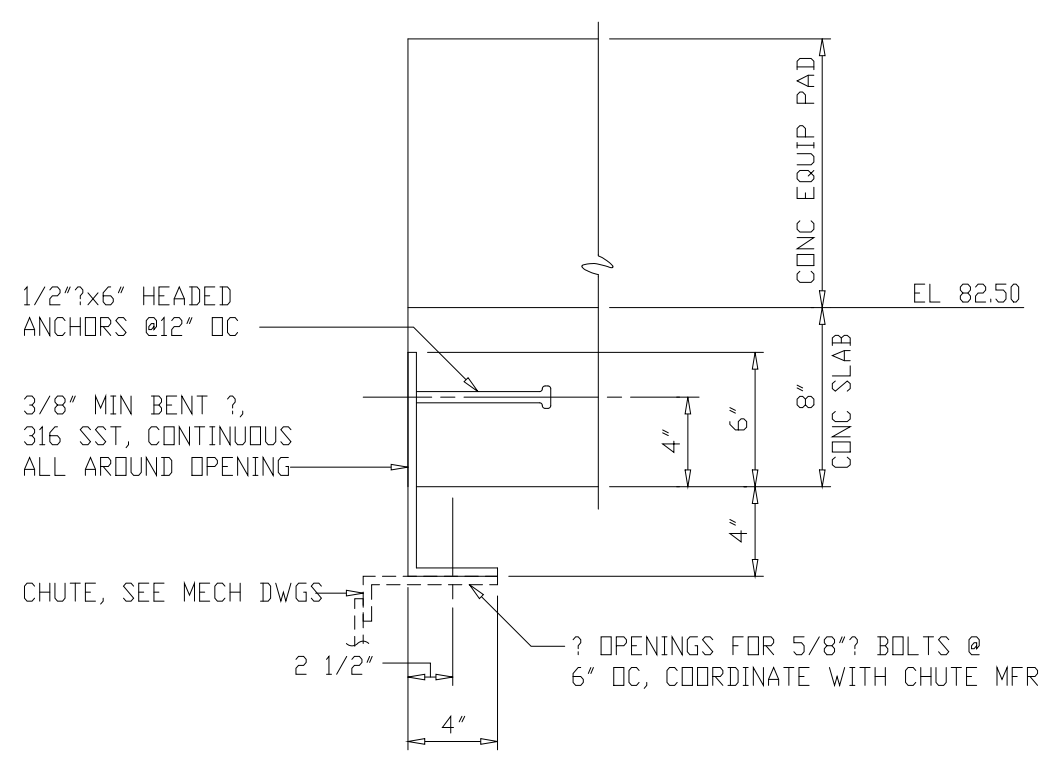
1 THE CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES NECESSARY TO ACCOMMODATE SUBSTITUTING DOUBLE TEE CONSTRUCTION FOR HOLLOW CORE PLANKS.
PER AMEND #5



SECTION V
1/4\"=1'-0\" S-210



SECTION U
1/4\"=1'-0\" S-210

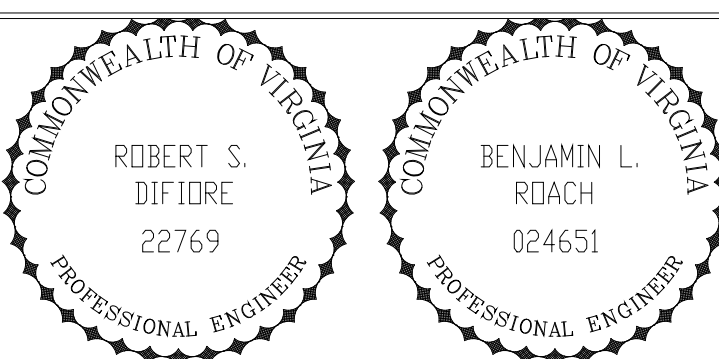


DETAIL 1
1/2\"=1'-0\" S217A

RECORD DRAWING

9	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD						
8	WP3 CONST.-LAND APP. REDES.	3-96	RSD						
7	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD						
6	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD						
5	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD						
4	WP2 CONST.-LAND APP. REDES.	1-96	RSD						
3	WP2 APPROVAL-LAND APP. REDES.	12-95	RSD						
2	CONSTRUCTION	9-94	JJB	11	RECORD DRAWING	4-99	MKS		
1	REGULATORY APPROVAL	9-94	JJB	10	WP4,5,6/7 CONST.-LAND APP. REDES.	4-96	RSD		
ND.	ISSUED FOR	DATE	BY	ND.	ISSUED FOR	DATE	BY	APPROVED	

DESIGNED: ETM
DRAWN: BRC
CHECKED:
PRJ.J.ENGR. AB/RNC



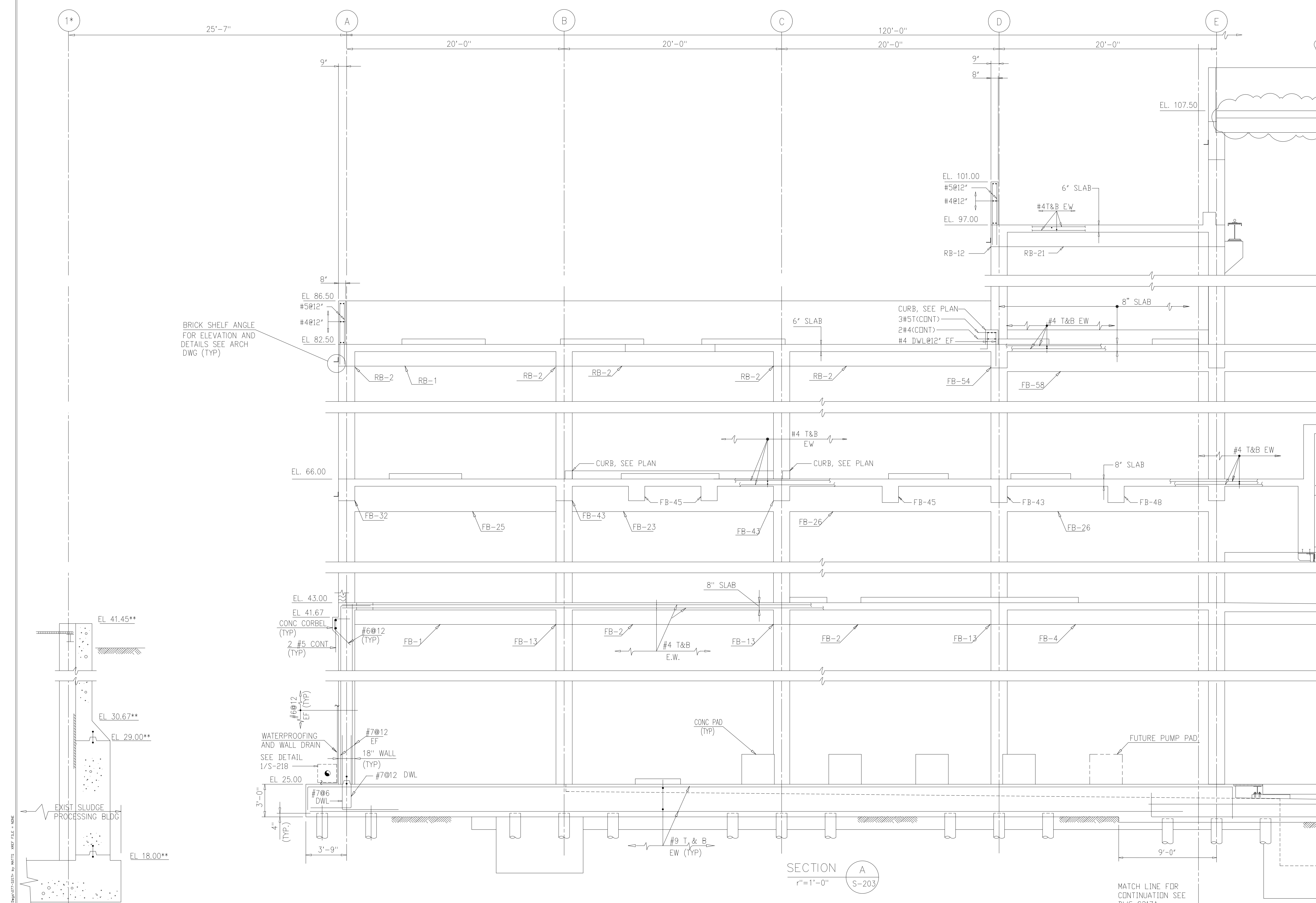
Hazenand Sawyer
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
SECTIONS - SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER S217A
	SHEET 77A OF 199

NOTES:
 1. FOR LAP SPLICE DETAILS SEE DWG S-501.
 2. THE CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES NECESSARY TO ACCOMMODATE SUBSTITUTING DOUBLE TEE CONSTRUCTION FOR HOLLOW CORE PLANKS.



AMEND #5

BRICK SHELF ANGLE FOR ELEVATION AND DETAILS SEE ARCH DWG (TYP)

SECTION A
 1"=1'-0" S-203

MATCH LINE FOR CONTINUATION SEE DWG S217A

RECORD DRAWING

9	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD						
8	WP3 CONST.-LAND APP. REDES.	3-96	RSD						
7	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD						
6	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD						
5	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD						
4	WP2 CONST.-LAND APP. REDES.	1-96	RSD						
3	WP2 APPROVAL-LAND APP. REDES.	12-95	RSD						
2	CONSTRUCTION	9-94	JJB	11	RECORD DRAWING	4-99	MKS		
1	REGULATORY APPROVAL	9-94	JJB	10	WP4,5,6/7 CONST.-LAND APP. REDES.	4-96	RSD		
ND.	ISSUED FOR	DATE	BY	ND.	ISSUED FOR	DATE	BY	APPROVED	

DESIGNED: ETM
 DRAWN: BRC
 CHECKED:
 PRD.J.ENGR. AB/RNC

APPROVED:

COMMONWEALTH OF VIRGINIA
 ROBERT S. DIFIORE
 22769
 PROFESSIONAL ENGINEER

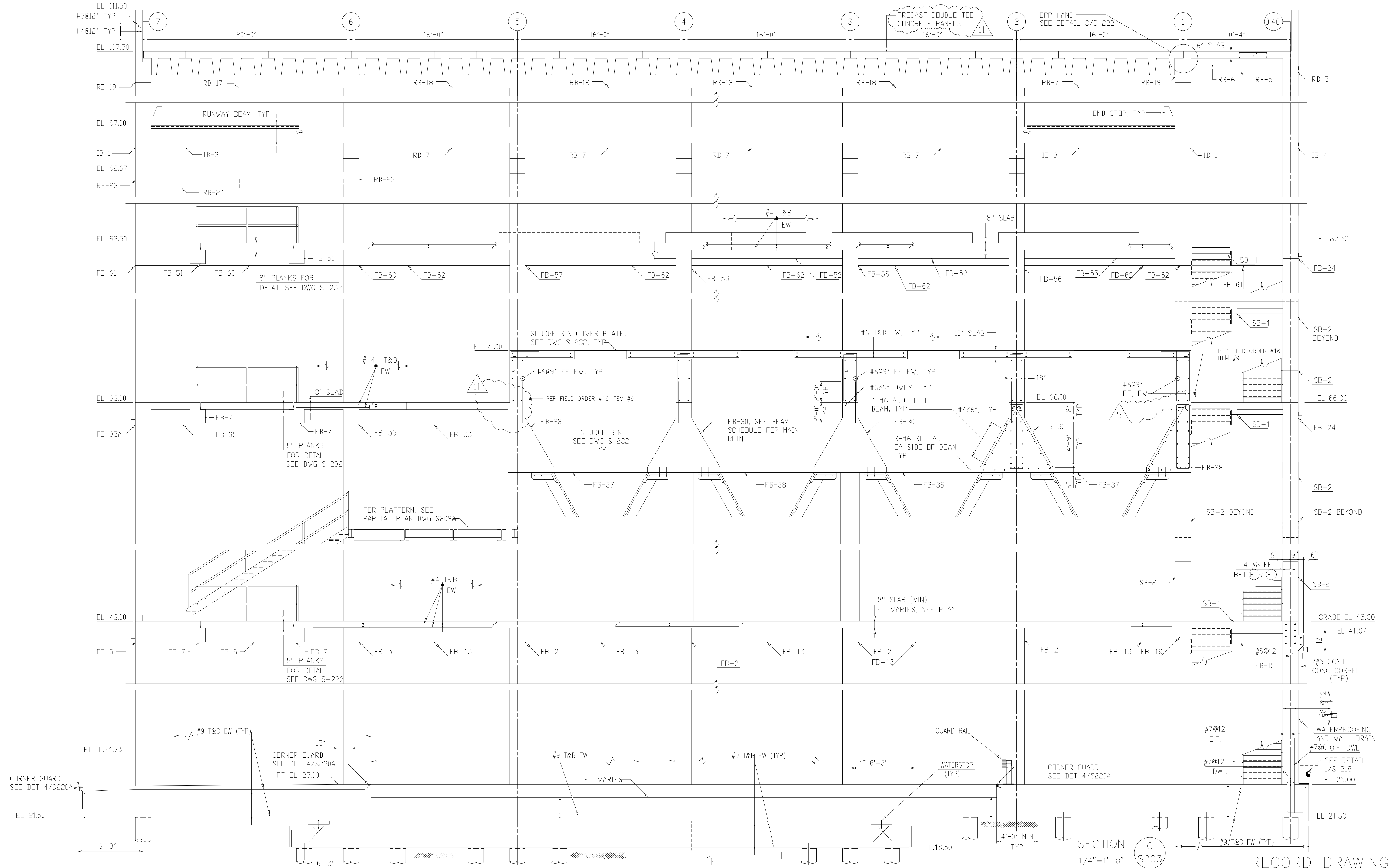
COMMONWEALTH OF VIRGINIA
 BENJAMIN L. RDACH
 024651
 PROFESSIONAL ENGINEER

Hazenand Sawyer
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 STRUCTURAL
 SECTIONS - SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
H & S JOB NUMBER	2843
CONTRACT NUMBER	DRAWING NUMBER
93-02-WPC	S-217
SHEET 77	OF 199



SECTION C
1/4"=1'-0" S203
RECORD DRAWING

9	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD								
8	WP3 CONST.-LAND APP. REDES.	3-96	RSD								
7	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD								
6	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD								
5	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD								
4	WP2 CONST.-LAND APP. REDES.	1-96	RSD								
3	WP2 APPROVAL-LAND APP. REDES.	12-95	RSD								
2	CONSTRUCTION	9-94	JUB	11	RECORD DRAWING	4-99	MKS				
1	REGULATORY APPROVAL	9-94	JUB	10	WP4,5,6/7 CONST.-LAND APP. REDES.	4-96	RSD				
ND.	ISSUED FOR	DATE	BY	ND.	ISSUED FOR	DATE	BY	APPROVED			

DESIGNED: ETM
DRAWN: BRC
CHECKED:
PRD.J.ENGR. AB/RNC

APPROVED:

HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

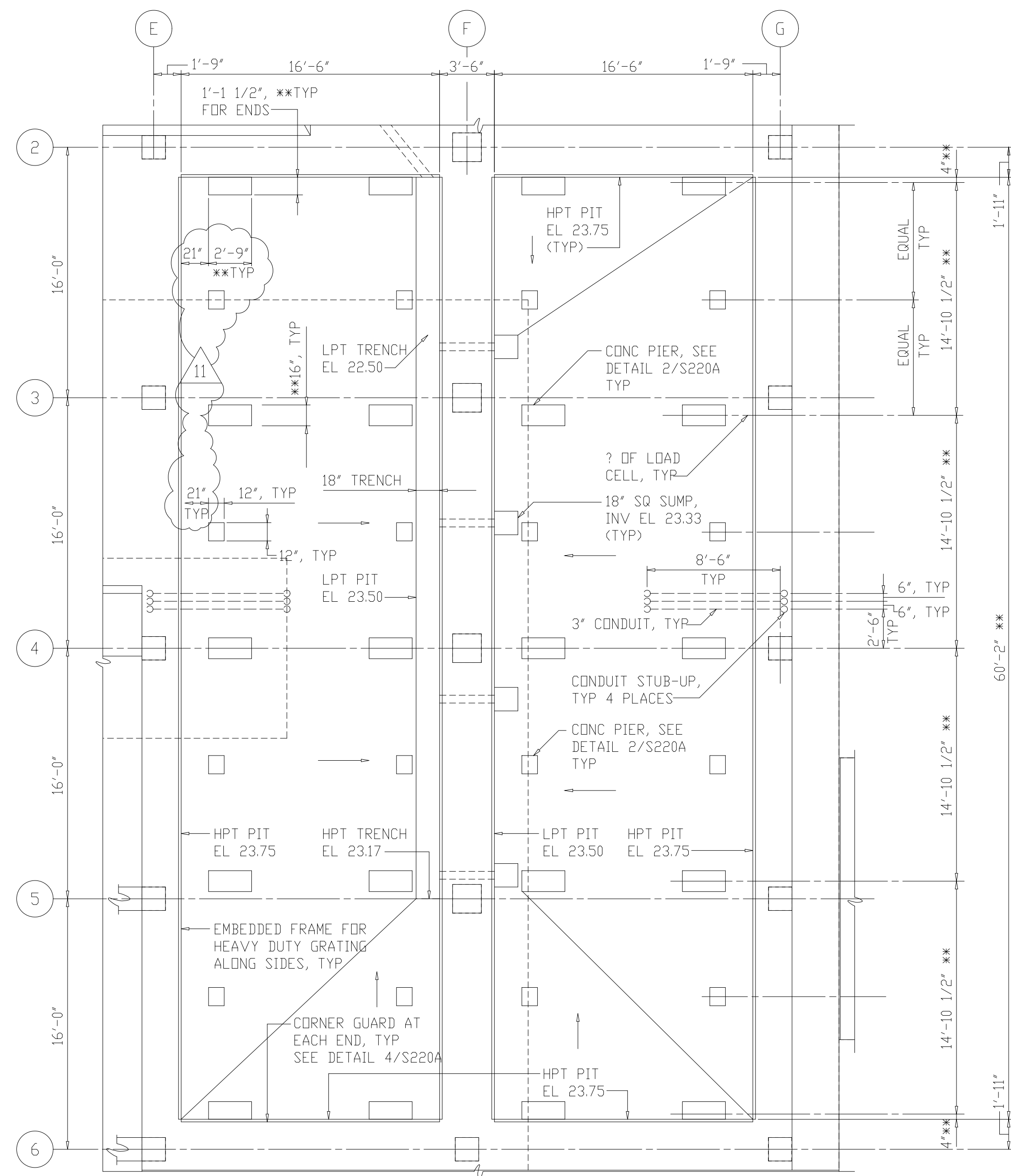
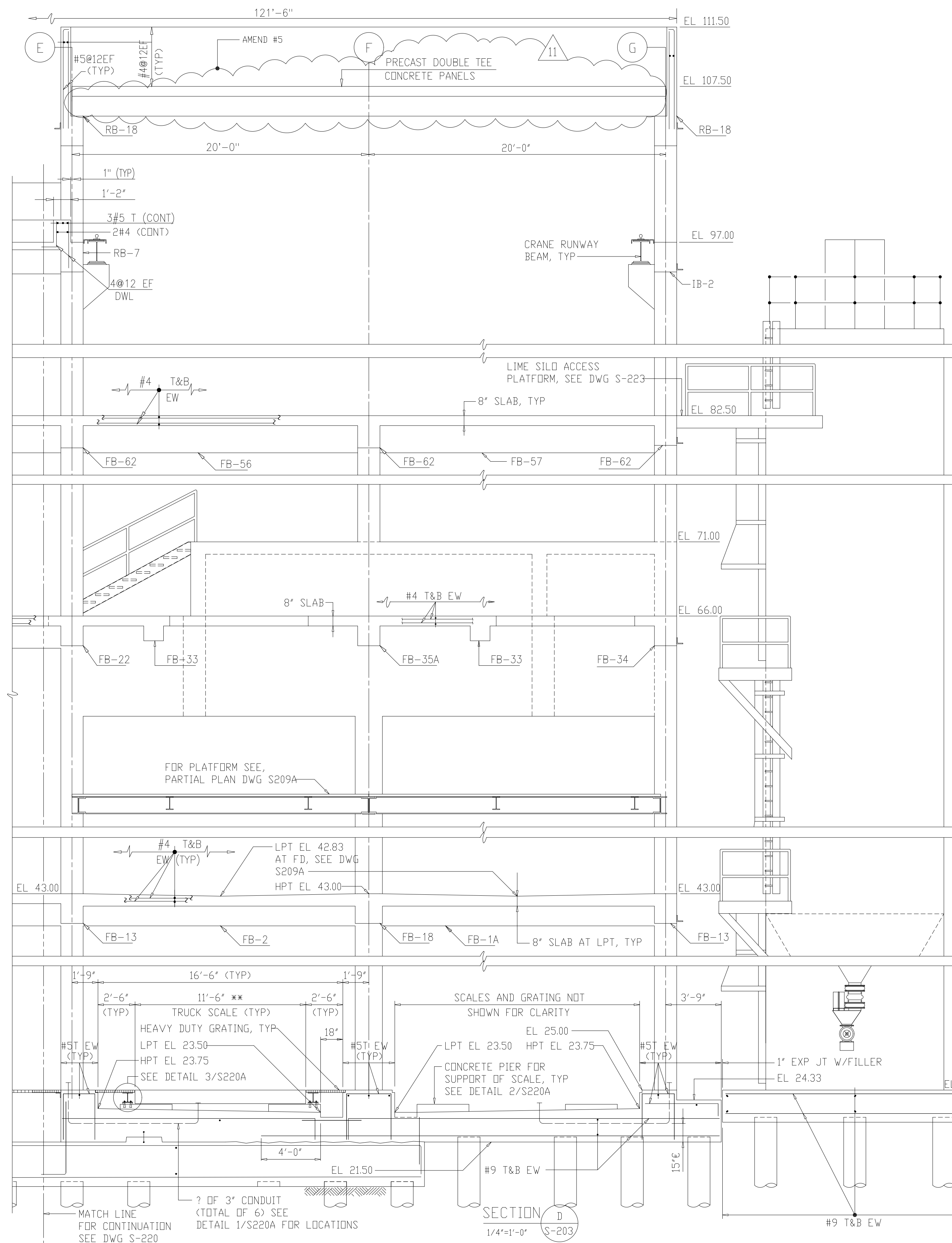
ROBERT S. DIFIORE
22769
PROFESSIONAL ENGINEER

BENJAMIN L. RDACH
024651
PROFESSIONAL ENGINEER

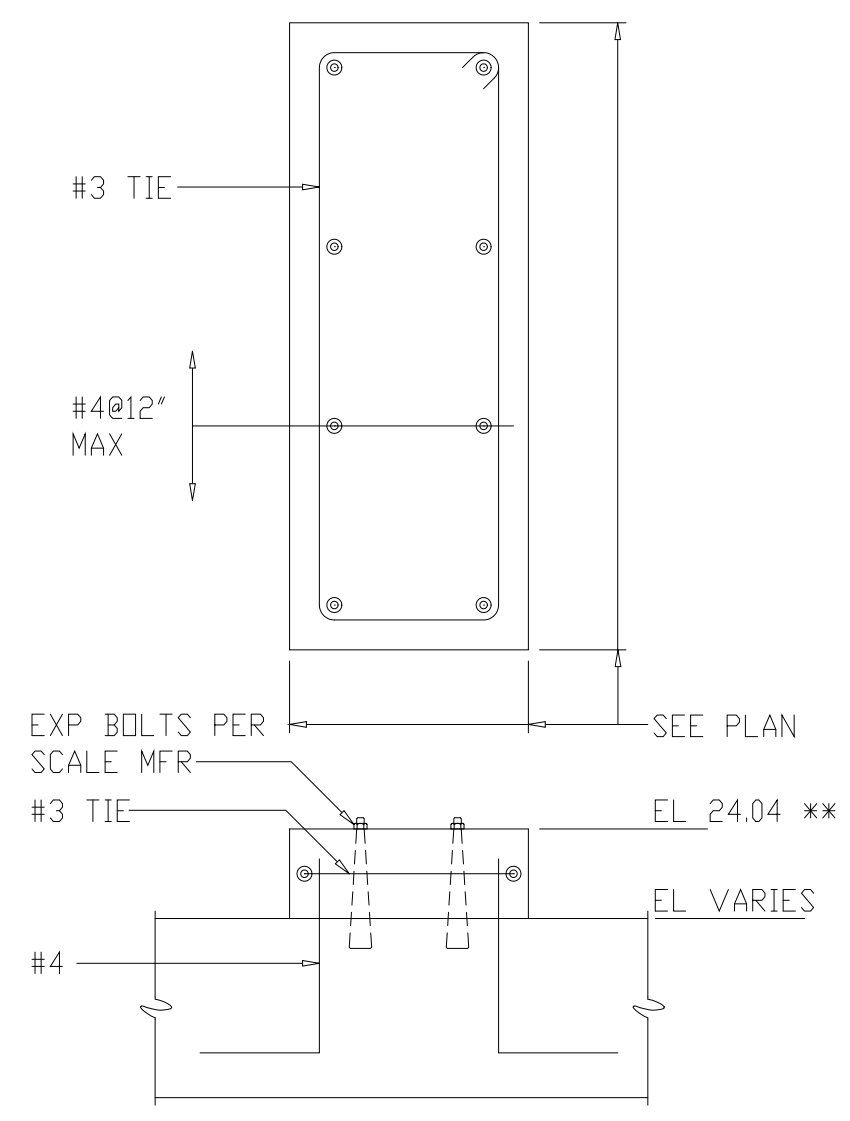
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
SECTIONS - SHEET 3

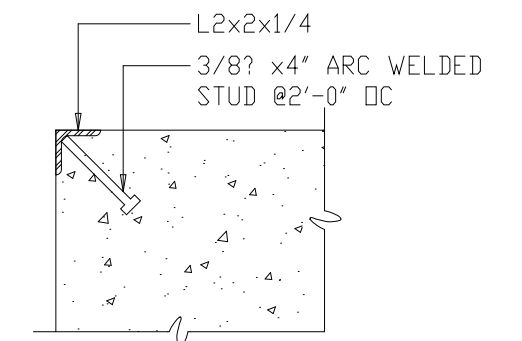
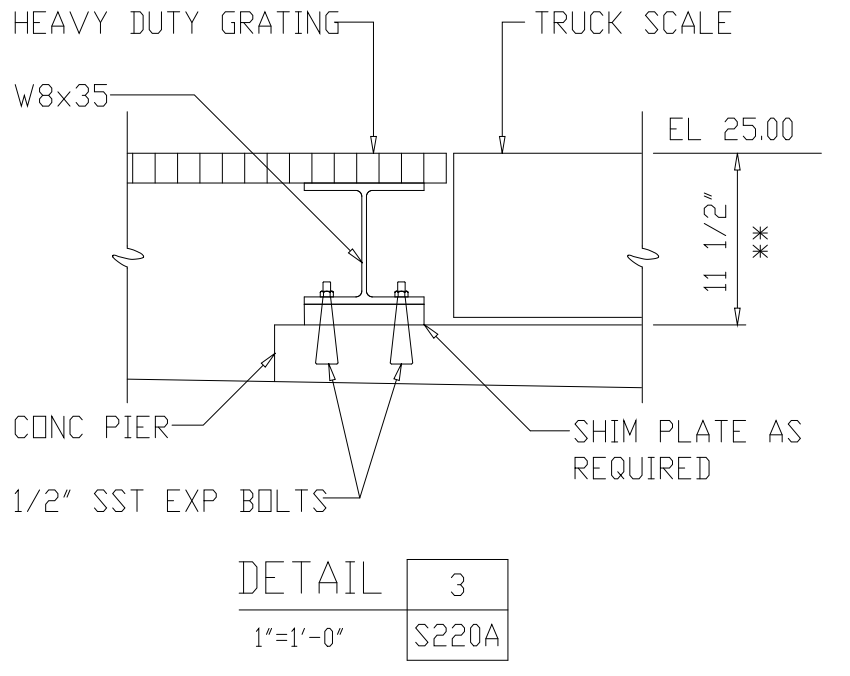
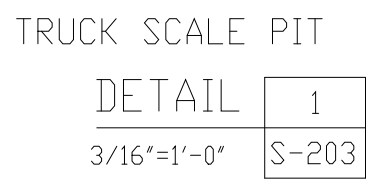
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC	DRAWING NUMBER S-219
	SHEET 79	OF 199



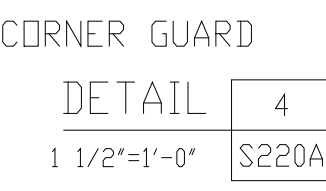
NOTES:
 1 ** DEPENDS UPON EQUIPMENT FURNISHED, VERIFY WITH MFR.



NOTE: SCALES AND GRATING NOT SHOWN FOR CLARITY



NOTE: CORNER IS REQUIRED ONLY WHERE SHOWN ON PLANS



9	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD						
8	WP3 CONST-LAND APP. REDES.	3-96	RSD						
7	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD						
6	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD						
5	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD						
4	WP2 CONST-LAND APP. REDES.	1-96	RSD						
3	WP2 APPROVAL-LAND APP. REDES.	12-95	RSD						
2	CONSTRUCTION	9-94	JJB	11	RECORD DRAWING	4-99	MKS		
1	REGULATORY APPROVAL	9-94	JJB	10	WP4,5,6/7 CONST-LAND APP. REDES.	4-96	RSD		
ND.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	APPROVED	

DESIGNED: ETM
 DRAWN: BRC
 CHECKED:
 PROJ. ENGR.: AB/RNC

ROBERT S. DIPIORE
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 22769

BENJAMIN L. RDACH
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 024651

HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

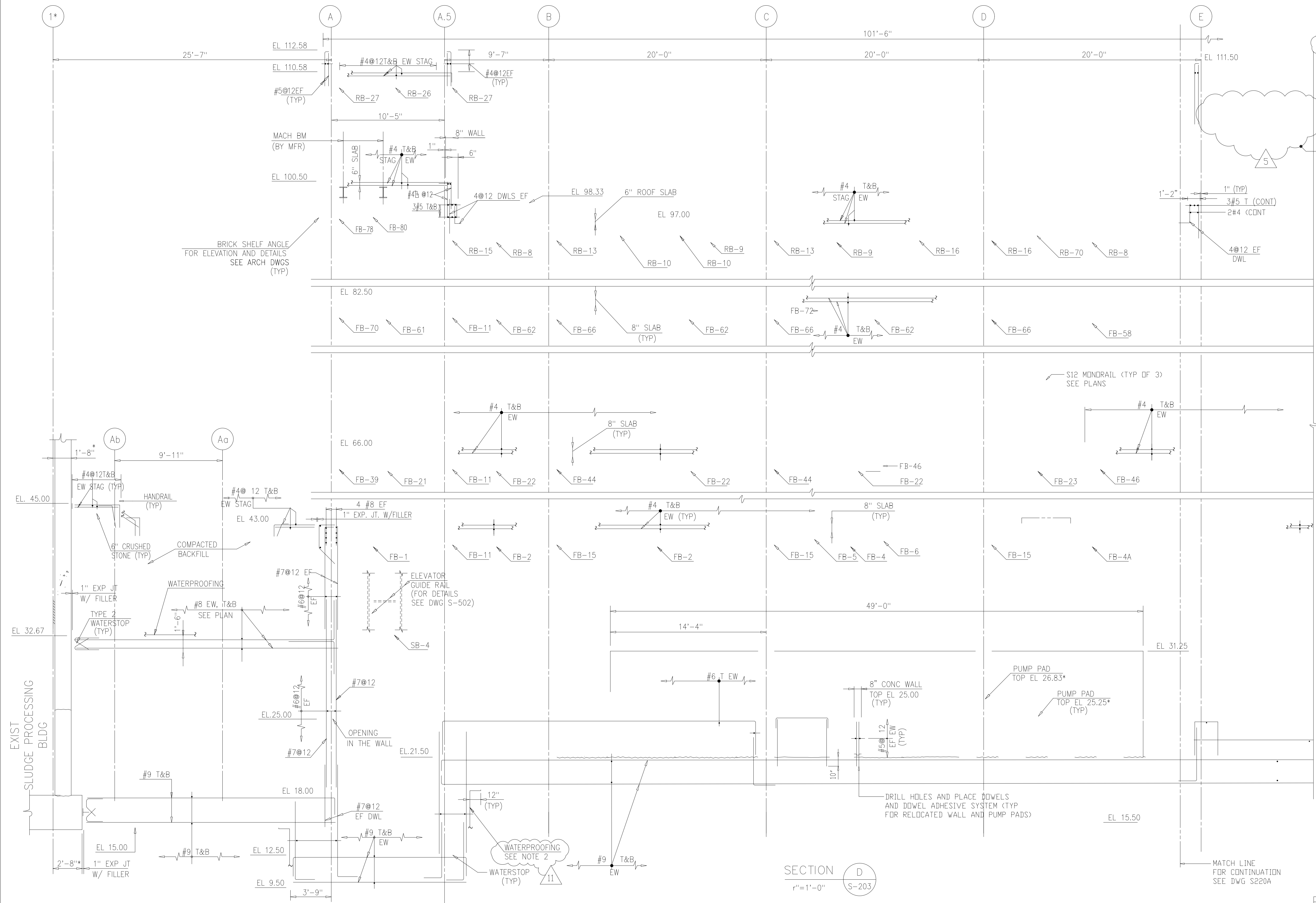
CENTRIFUGE DEWATERING BUILDING
 STRUCTURAL
 SECTIONS AND DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

DATE	SEPT 94
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	S220A
SHEET	80A OF 199

RECORD DRAWING

NOTES:
 1 FOR LAP SPLICE DETAILS SEE DWG S-501.
 2 AS PER RFT #1 CAPILLARY WATERPROOFING USED IN LIEU OF BENTONITE ON THE INTERIOR AND EXTERIOR OF THE ELEVATOR PIT.



AMEND #5
 5
 11

SECTION D
 r=1'-0" S-203

RECORD DRAWING

9	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD						
8	WP3 CONST-LAND APP. REDES.	3-96	RSD						
7	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD						
6	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD						
5	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD						
4	WP2 CONST-LAND APP. REDES.	1-96	RSD						
3	WP2 APPROVAL-LAND APP. REDES.	12-95	RSD						
2	CONSTRUCTION REGULATORY APPROVAL	9-94	JUB	11	RECORD DRAWING	4-99	MKS		
1	ISSUED FOR	9-94	JUB	10	WP4,5,6/7 CONST.-LAND APP.REDES.	4-96	RSD		
NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	APPROVED	

DESIGNED: ETM
 DRAWN: BRC
 CHECKED: AB/RNC
 PROJ. ENGR.: AB/RNC

APPROVED: [Signature]

COMMONWEALTH OF VIRGINIA
 ROBERT S. DIFIORE
 22769
 PROFESSIONAL ENGINEER

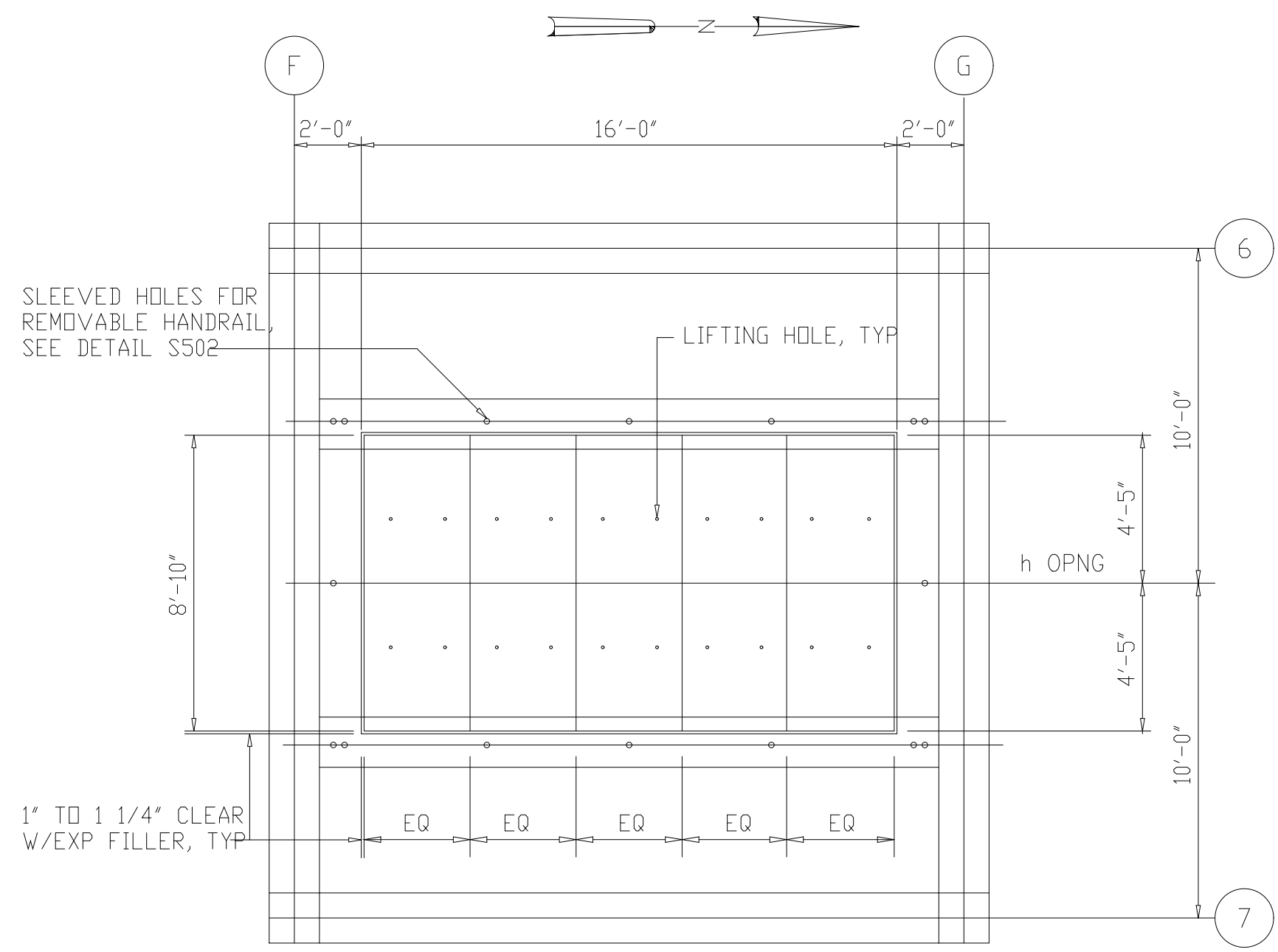
COMMONWEALTH OF VIRGINIA
 BENJAMIN L. RDACH
 024651
 PROFESSIONAL ENGINEER

Hazenand Sawyer
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

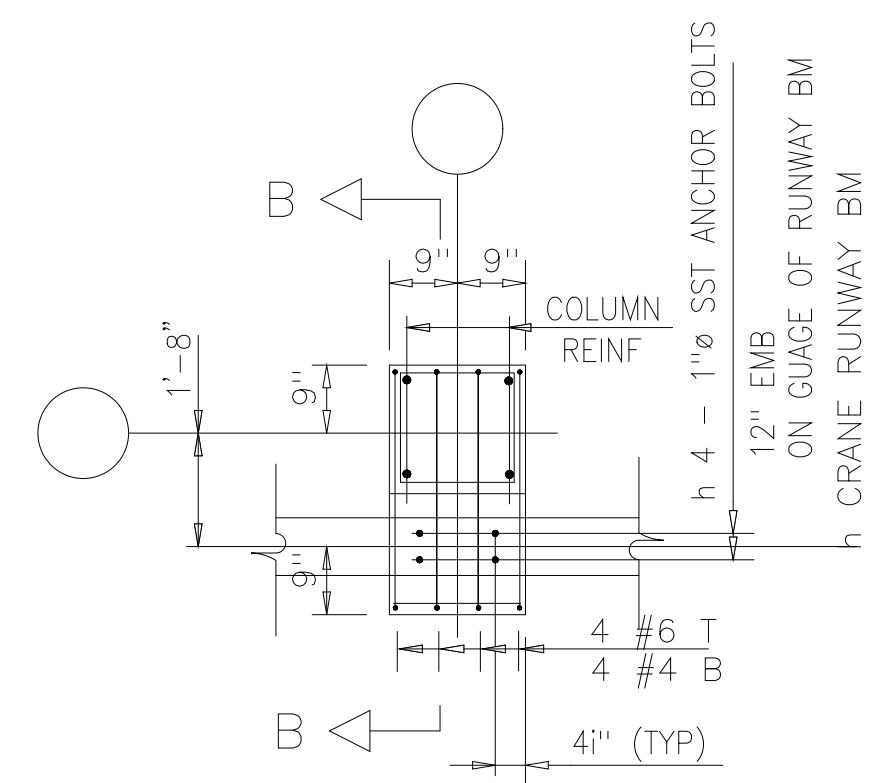
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 STRUCTURAL
 SECTIONS - SHEET 4

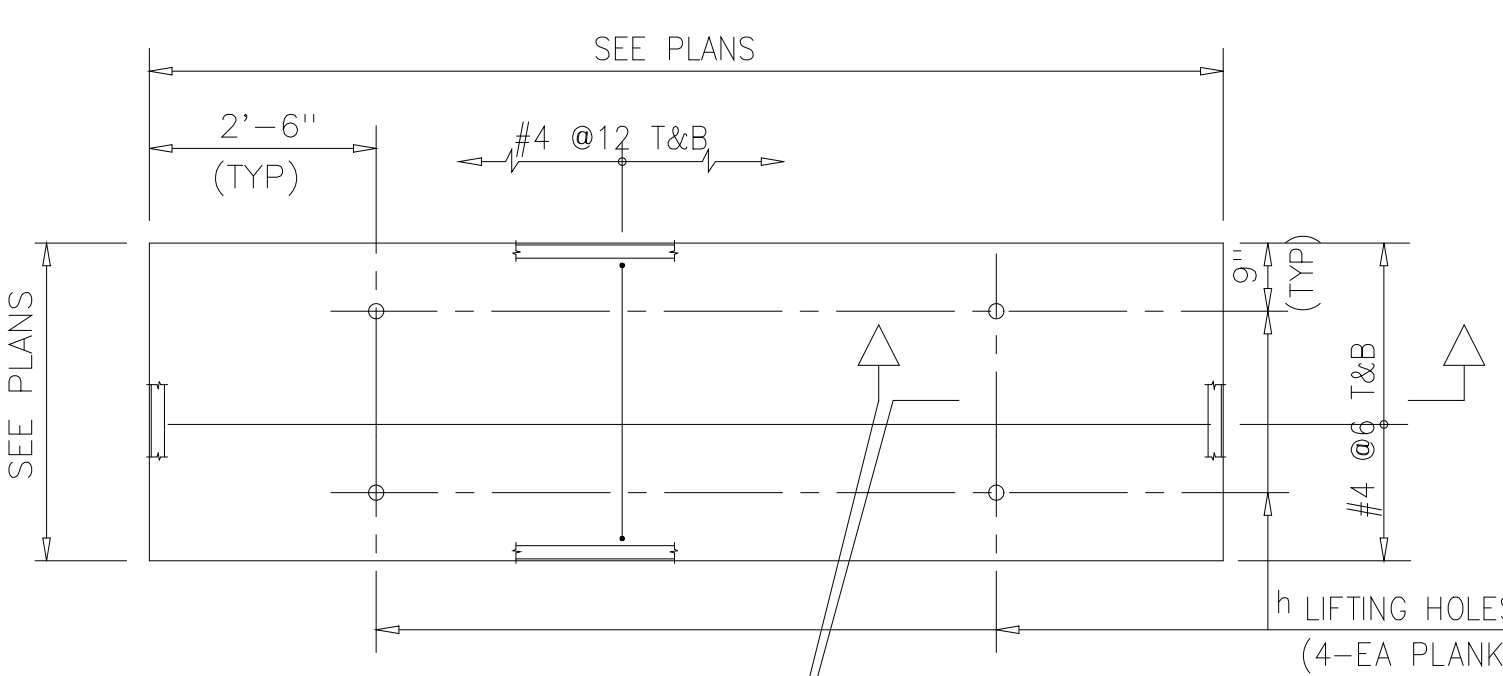
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC	DRAWING NUMBER S-220
	SHEET 80	OF 199



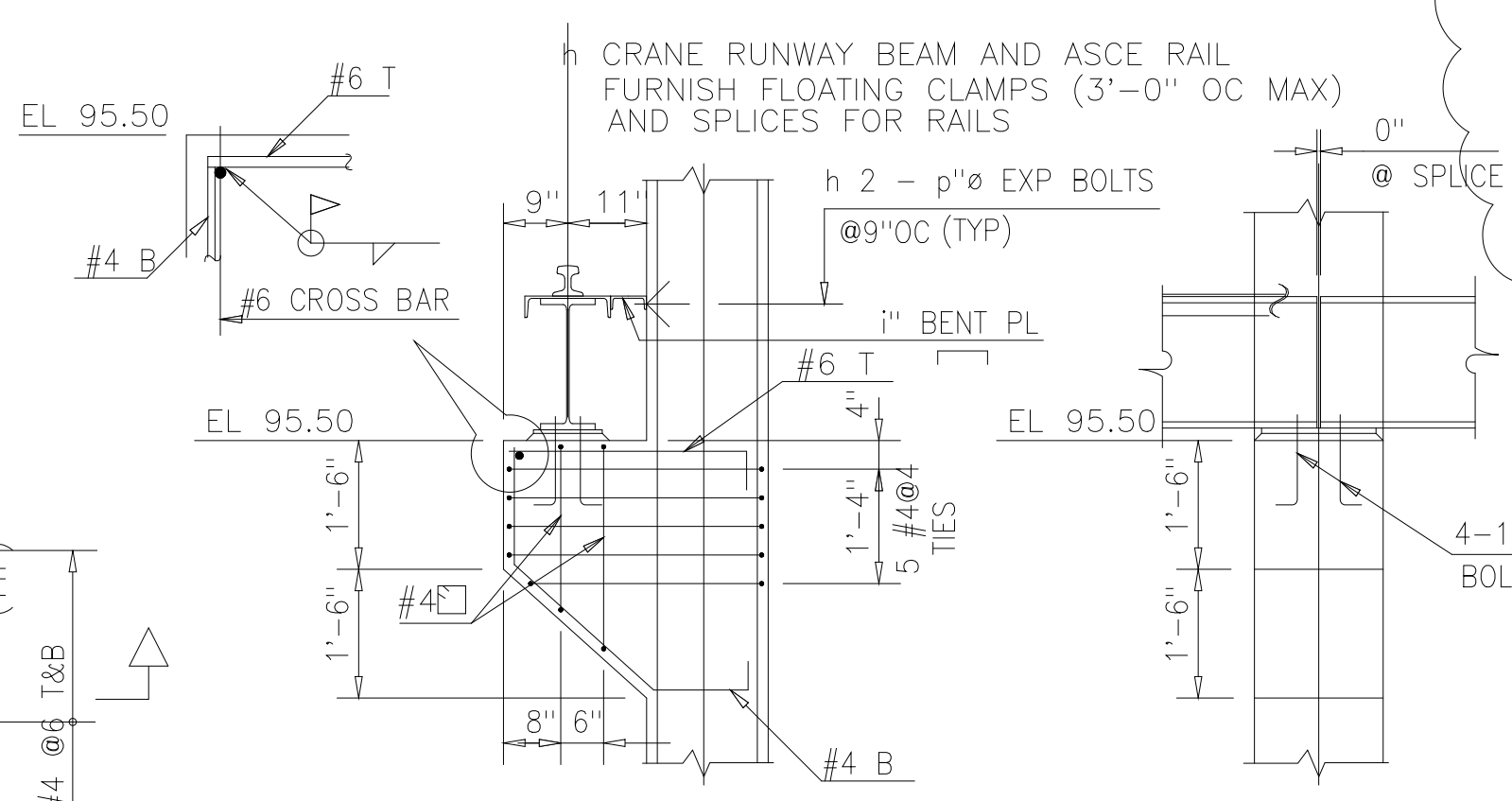
LAYOUT PLAN
1/4"=1'-0"
(EL 43.00, 66.00, AND 82.50)



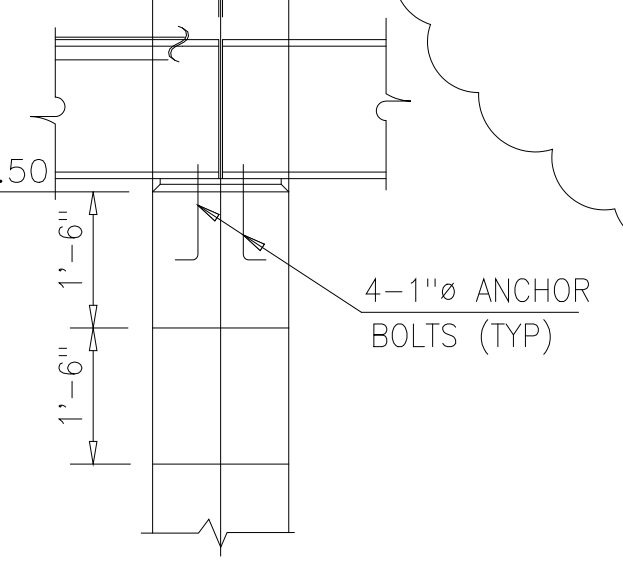
TYP PLAN AT INTERIOR COL



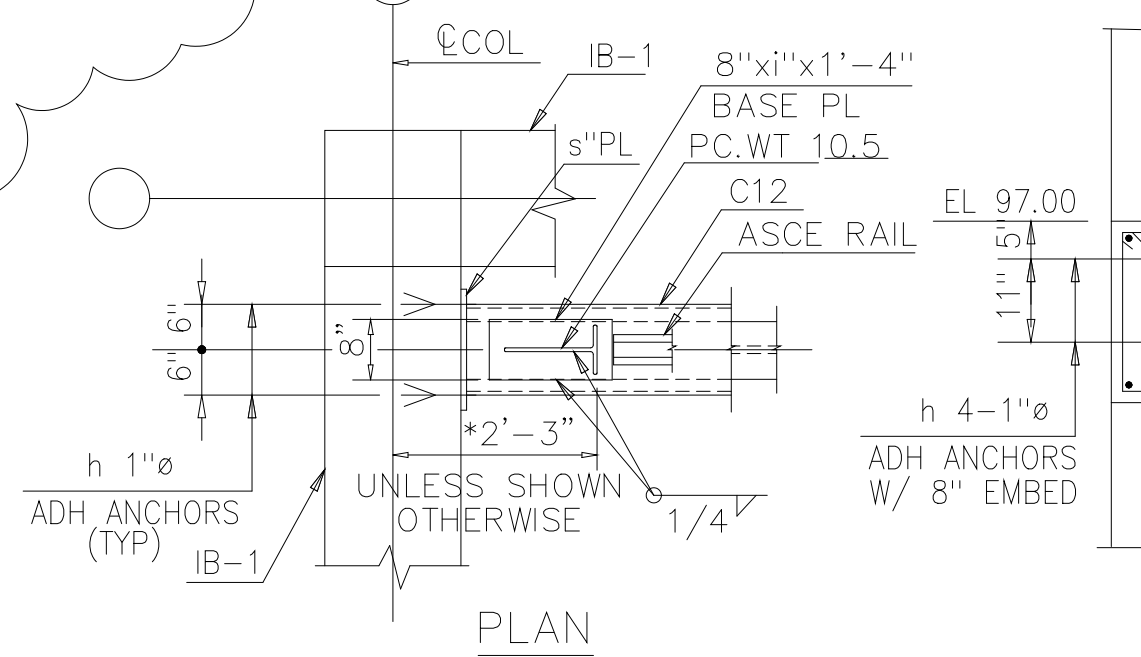
LAYOUT PLAN
1/2"=1'-0"



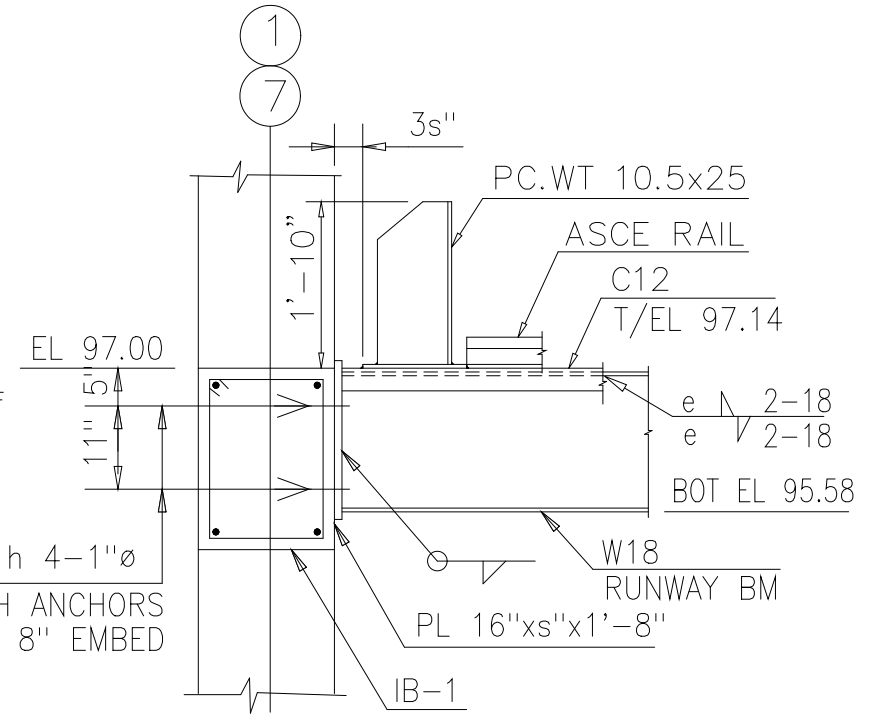
SECTION B-B
RUNWAY BEAM SUPPORT COLUMN BRACKET DETAIL
1/2"=1'-0"



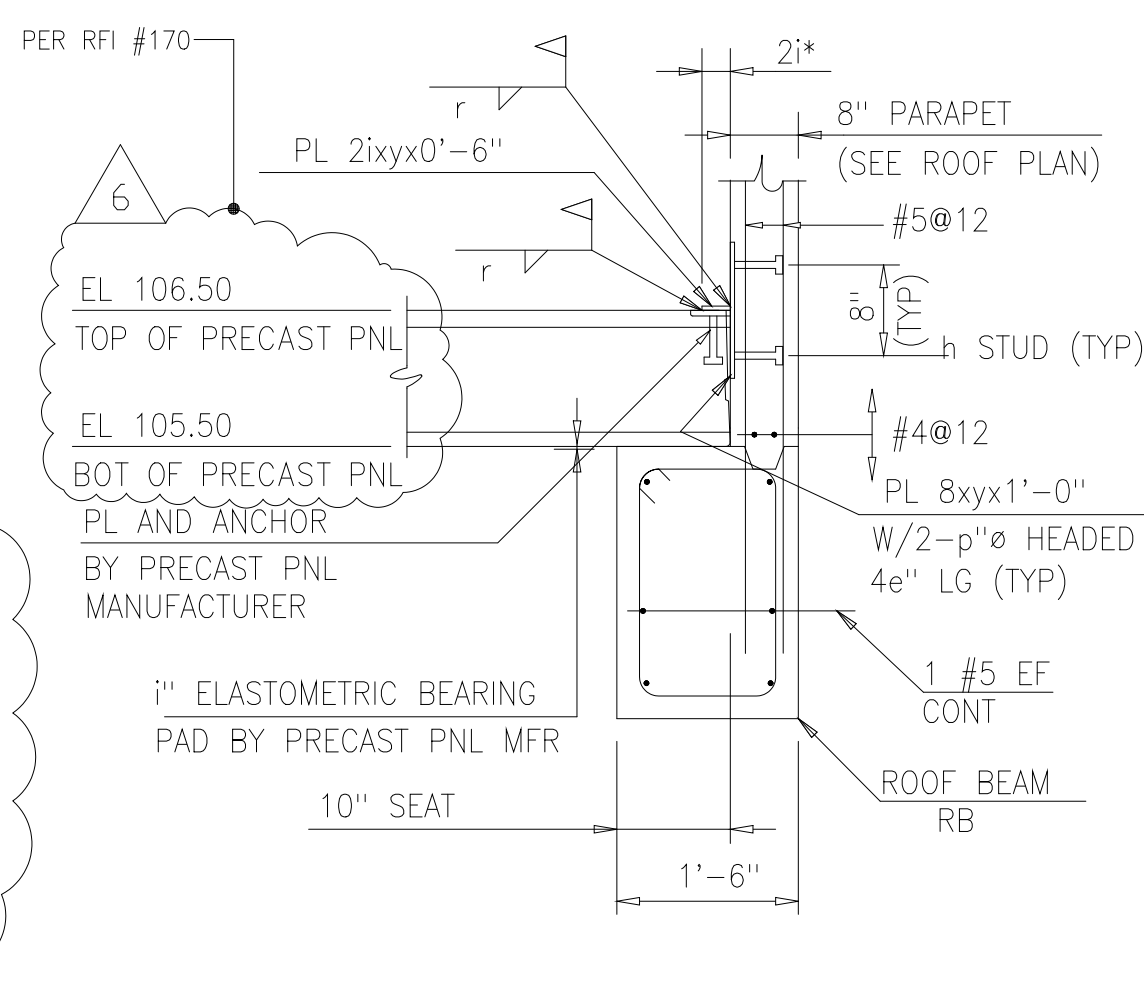
ELEVATION



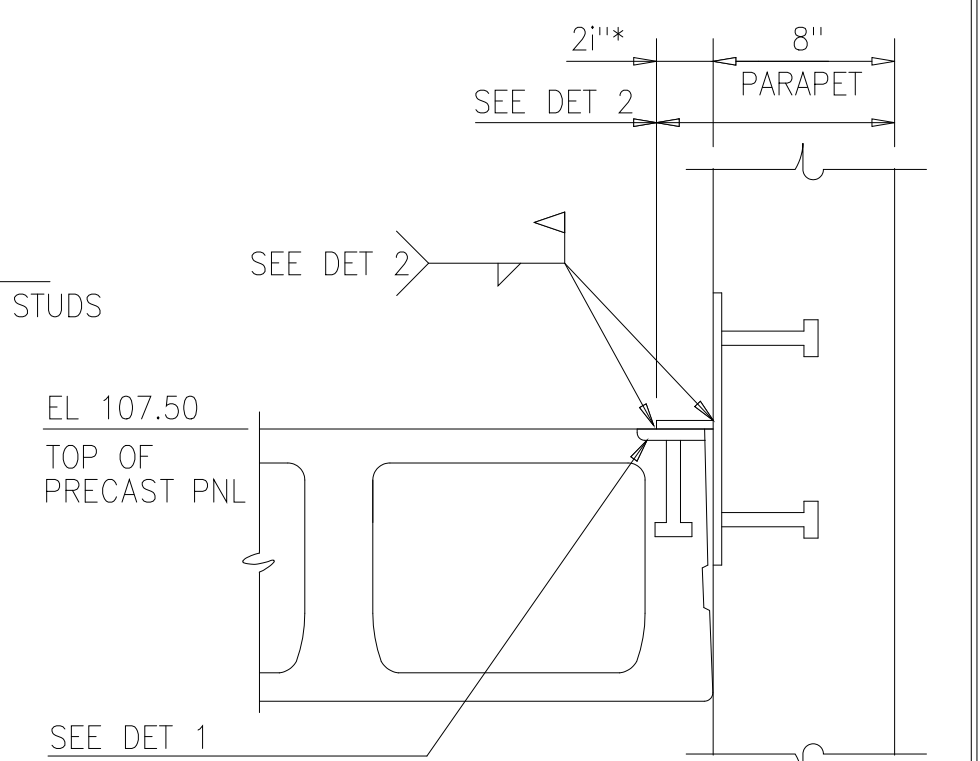
PLAN
RUNWAY BEAM AND END STOP
DETAIL 4
1/2"=1'-0" S-214



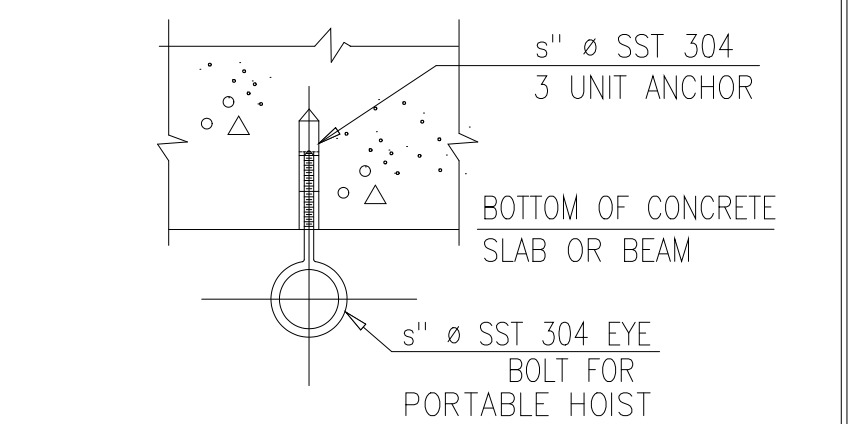
ELEVATION



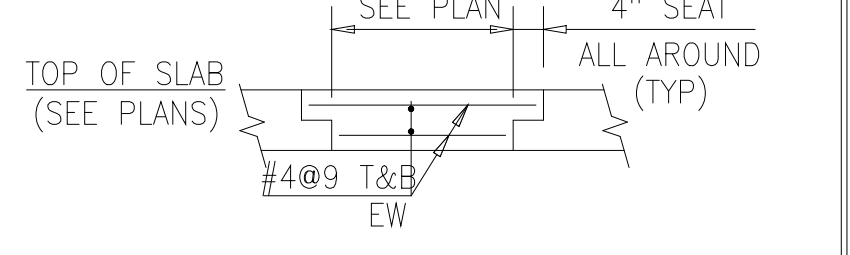
DETAIL 2
3/4"=1'-0" S-216



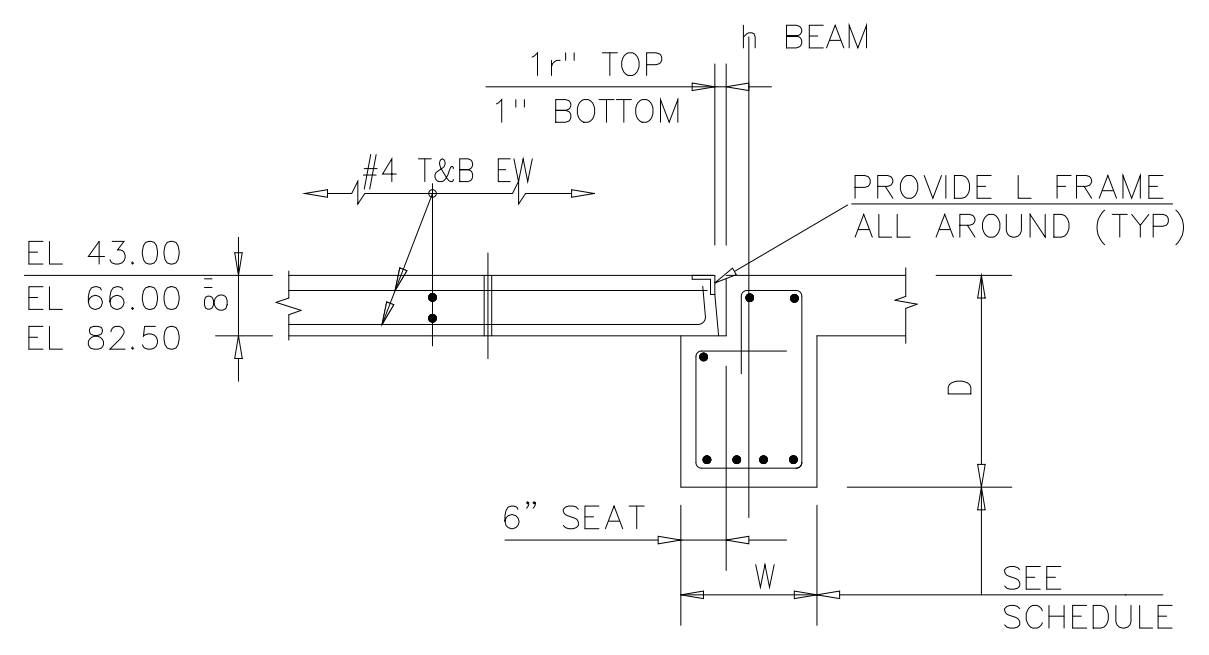
DETAIL 5
1 1/2"=1'-0" S-216



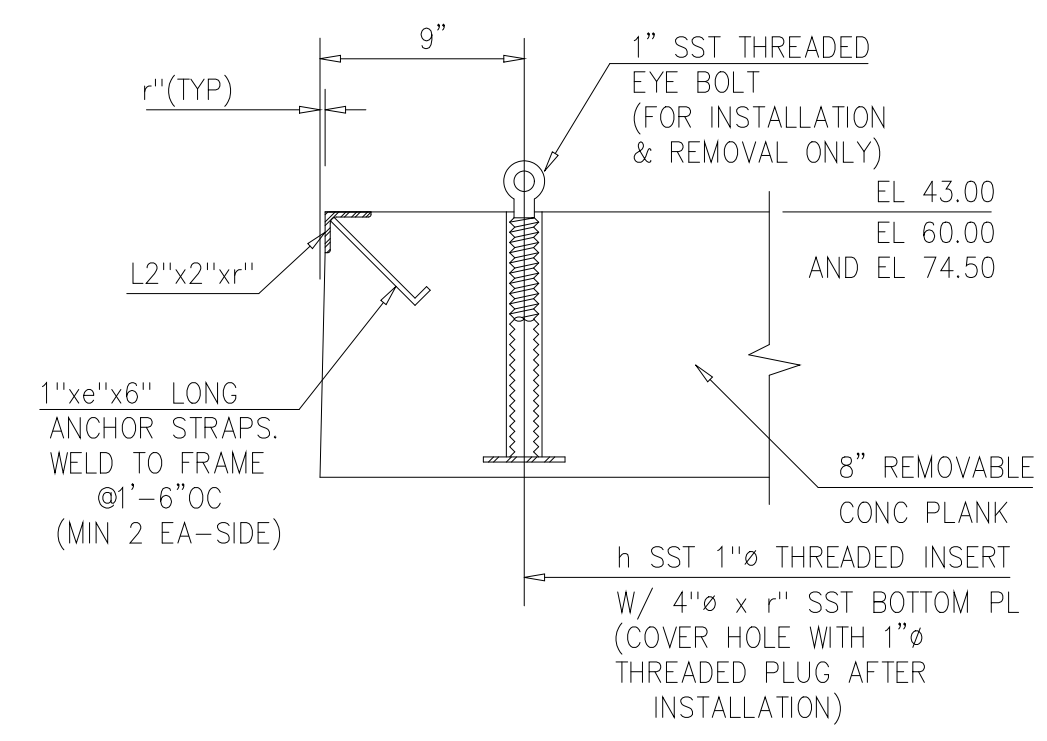
ELEVATION
TYP CEILING EYE BOLT
MAX SAFE WORKING CAPACITY = 1500 LBS
N.T.S.



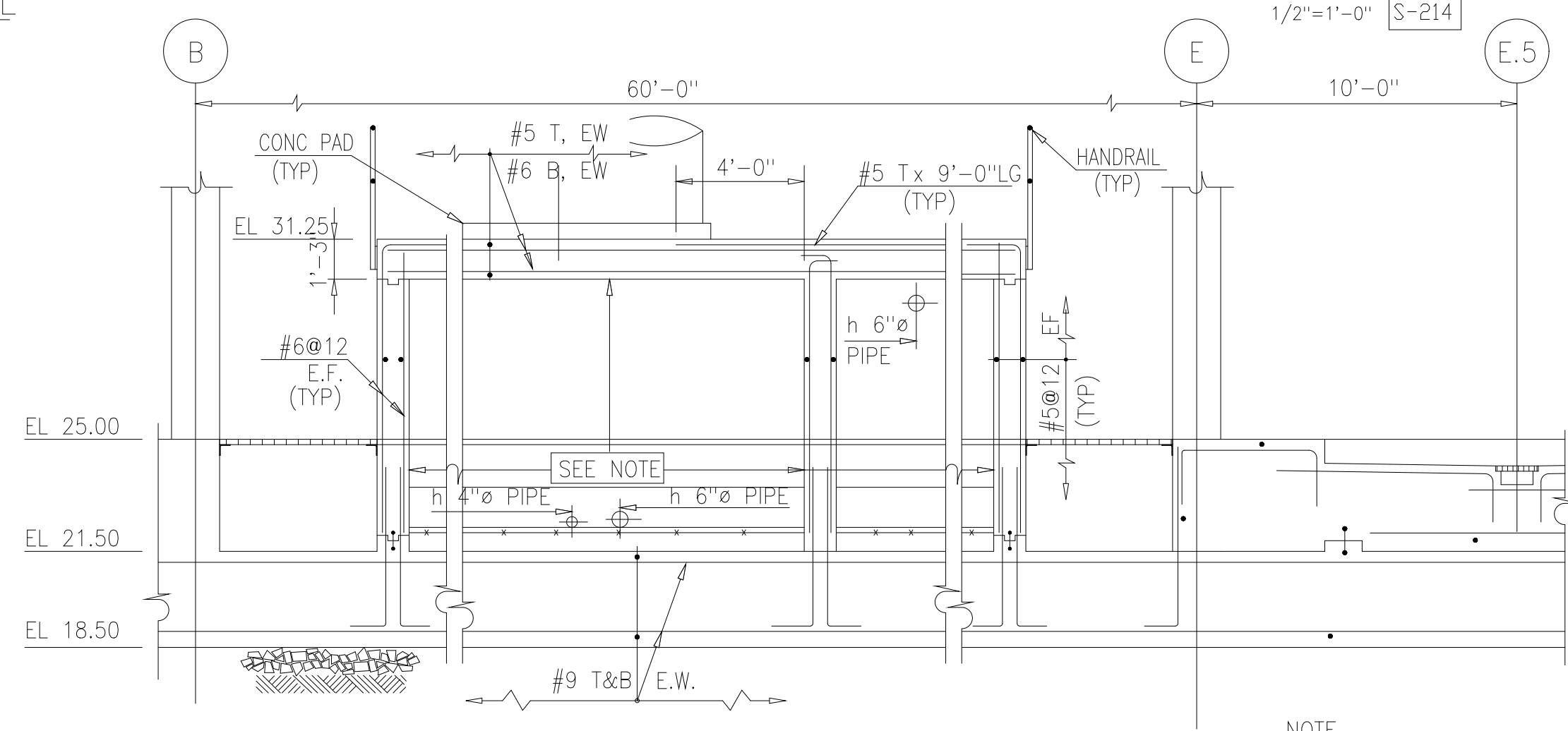
CLOSURE SLAB DETAIL
1/2"=1'-0"



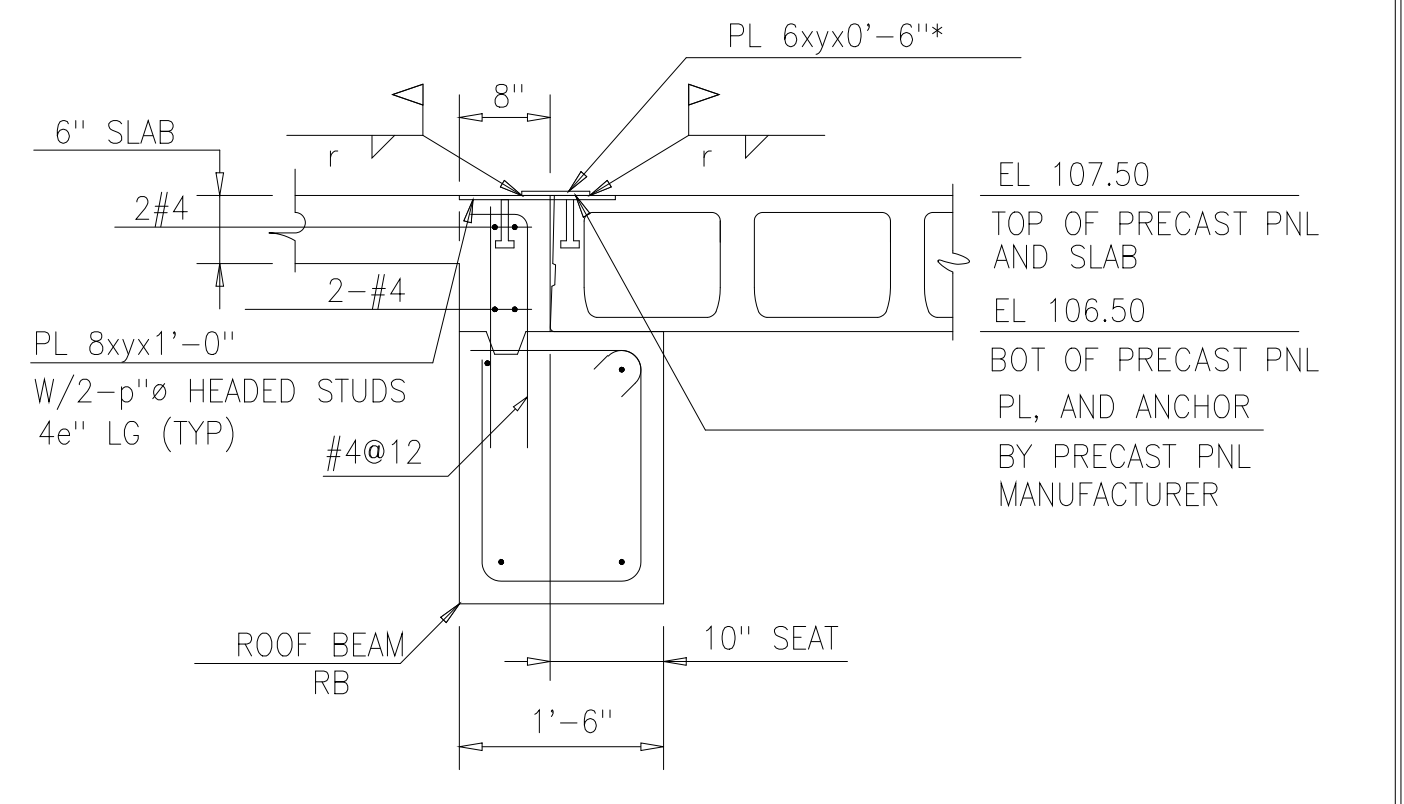
SECTION AT SUPPORT
TYPICAL PLANK DETAIL
1/2"=1'-0"



TYPICAL LIFTING HOLE AND ANGLE FRAME DETAIL
1 1/2"=1'-0"



SECTION L
1/4"=1'-0" S-206



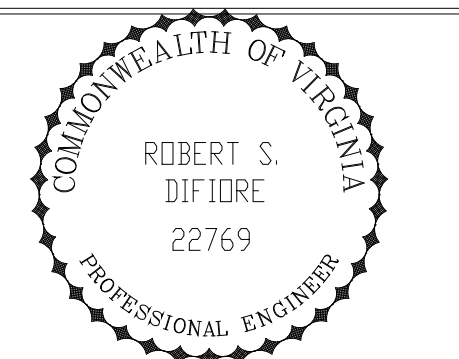
DETAIL 3
3/4"=1'-0" S-216

NOTE
ALL INTERIOR SURFACES SHALL BE SEALED WITH CAPILLARY WATERPROOFING

RECORD DRAWING

PLOT DATE: 09/20/2018 FILE: H:\2018\2018-09-20-2269-22769.dwg BY: MHTS AEC FILE - 1/20

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

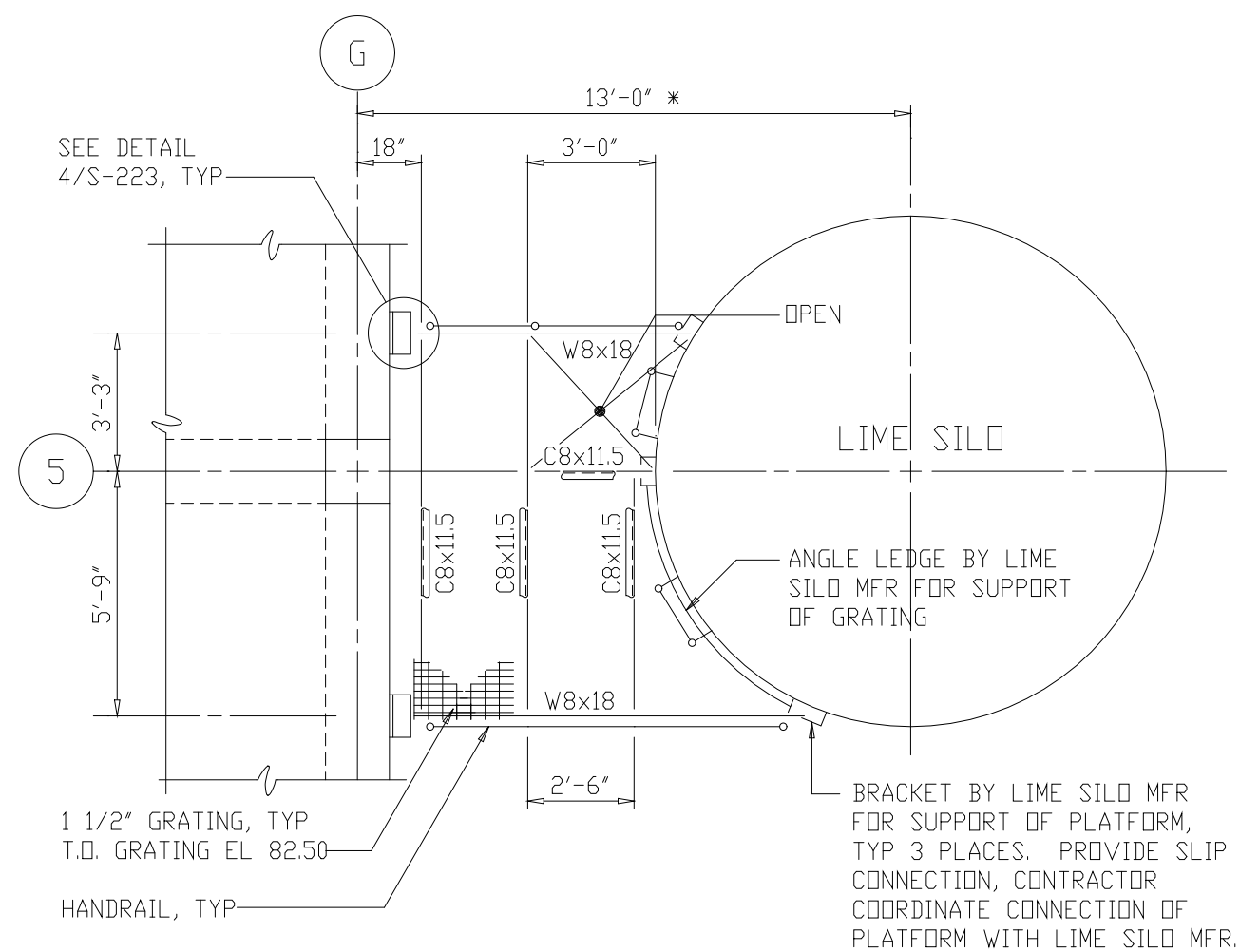


HAZENAND SAWYER
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

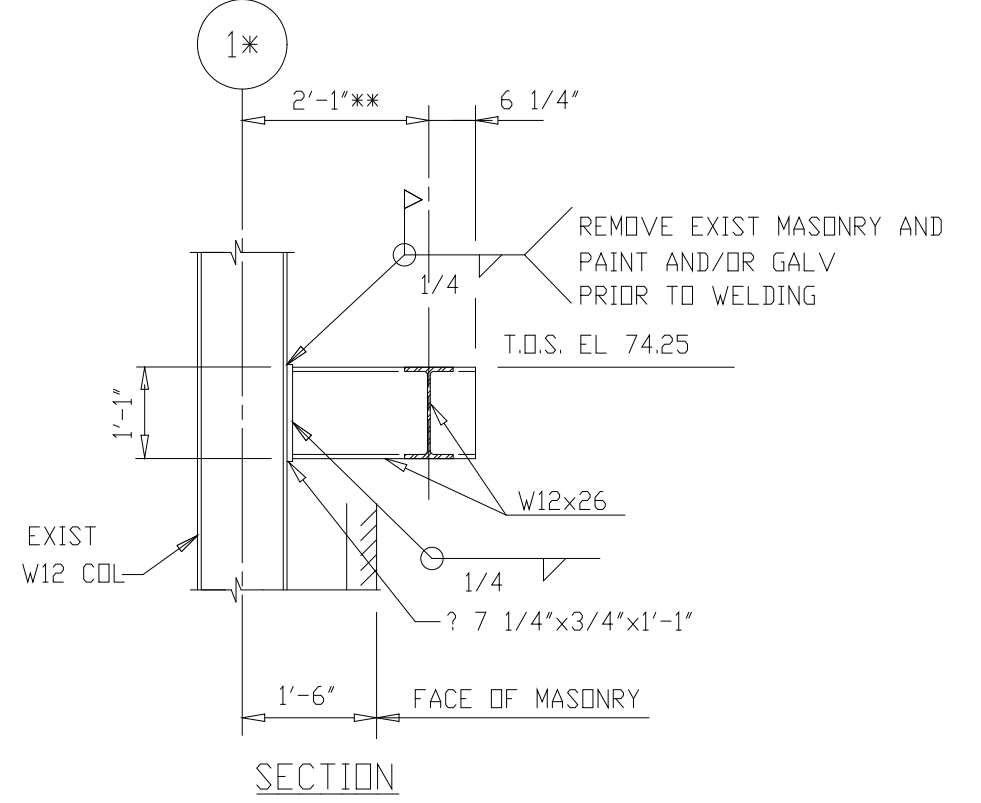
CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
MISCELLANEOUS SECTIONS AND DETAILS
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-222
	SHEET	82 OF 199

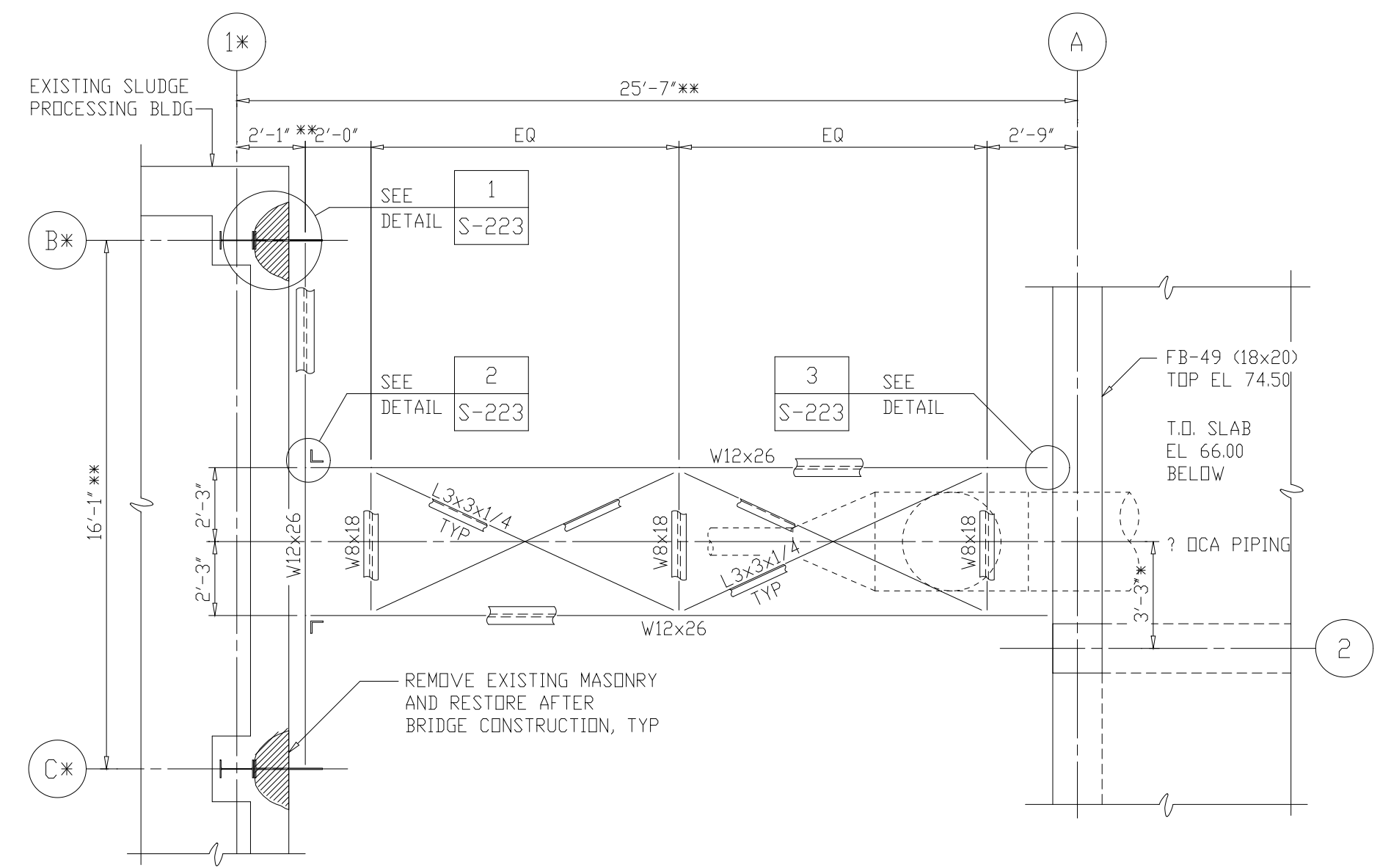


LIME SILO ACCESS PLATFORM - PLAN

TOP OF STEEL EL 82.38'
LL CAPACITY = 100 PSF
1/4"=1'-0"

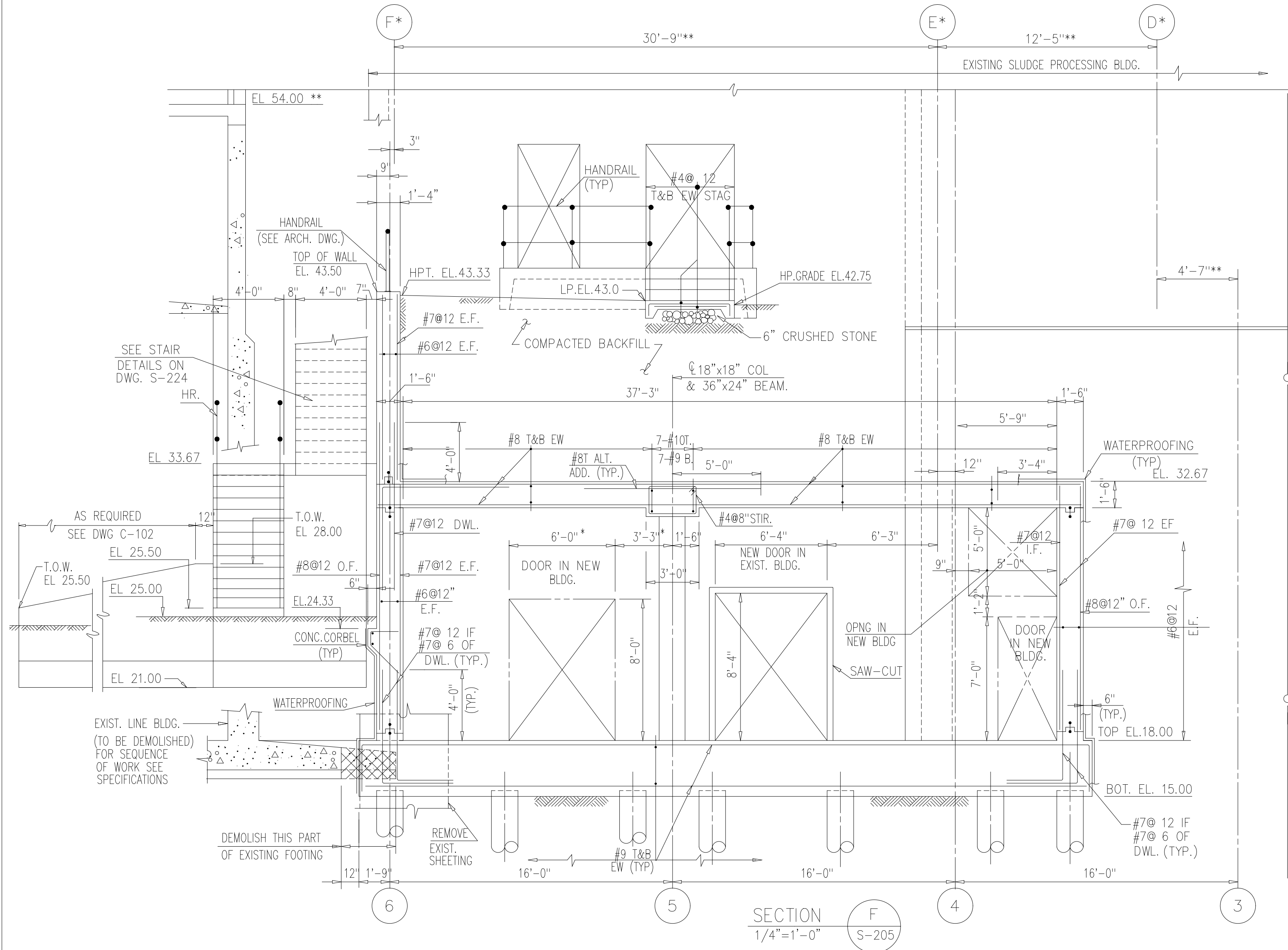


SECTION 1
1/2"=1'-0" S-223

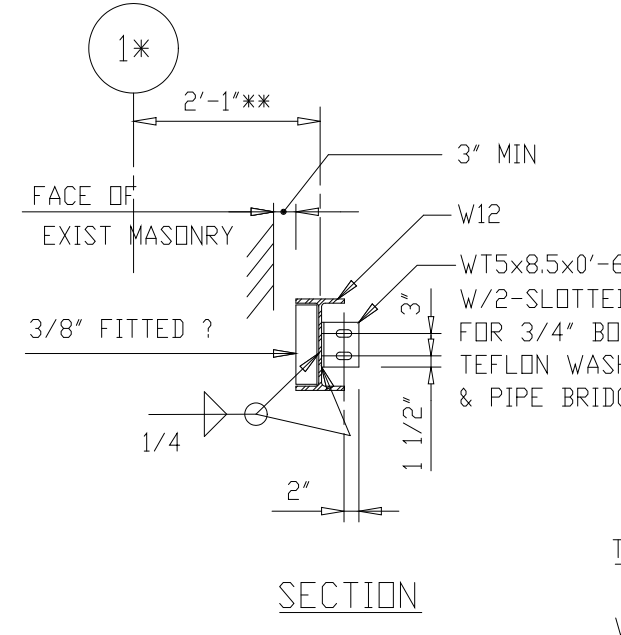


PIPE BRIDGE - PLAN

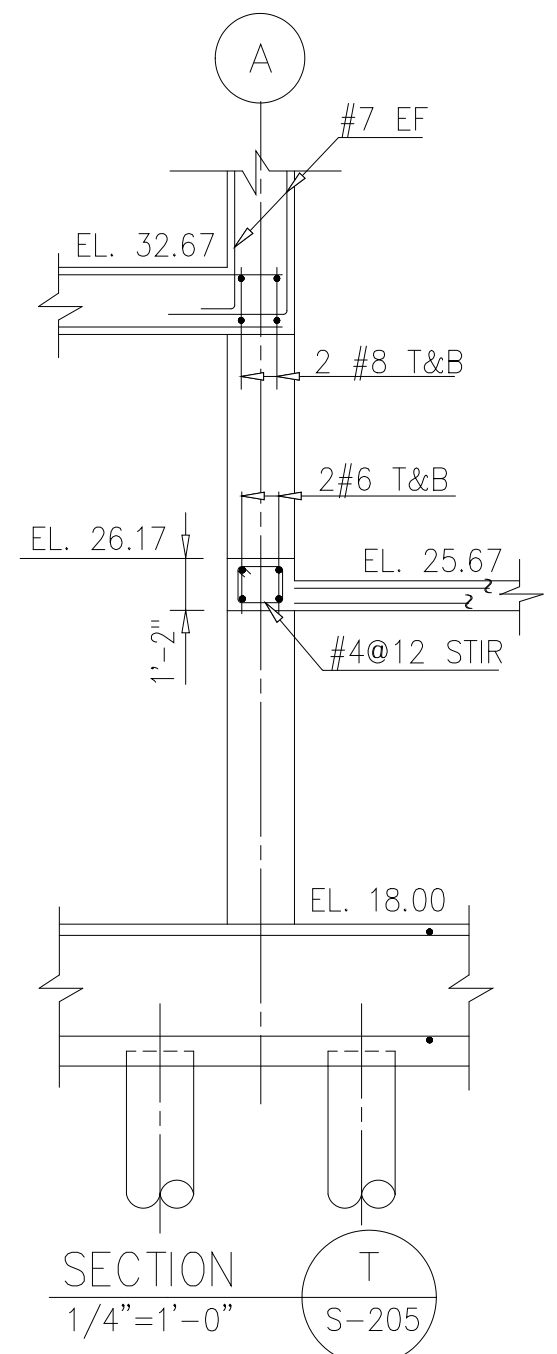
TOP OF STEEL EL 74.25'
1/4"=1'-0"



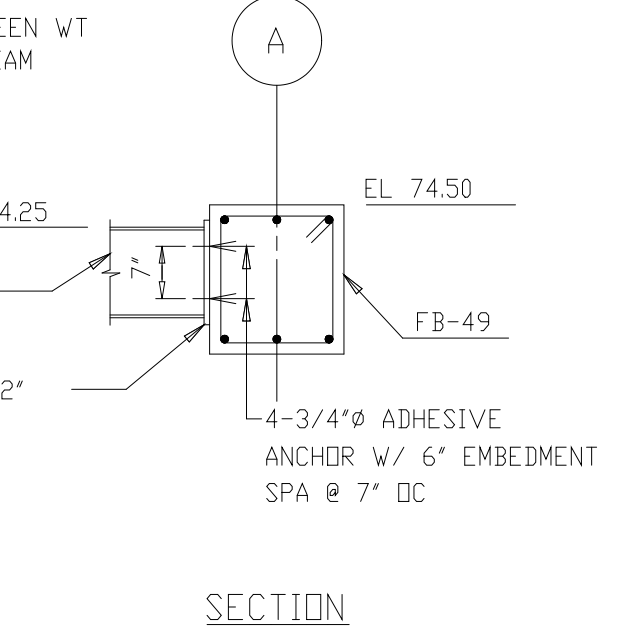
SECTION F
1/4"=1'-0" S-205



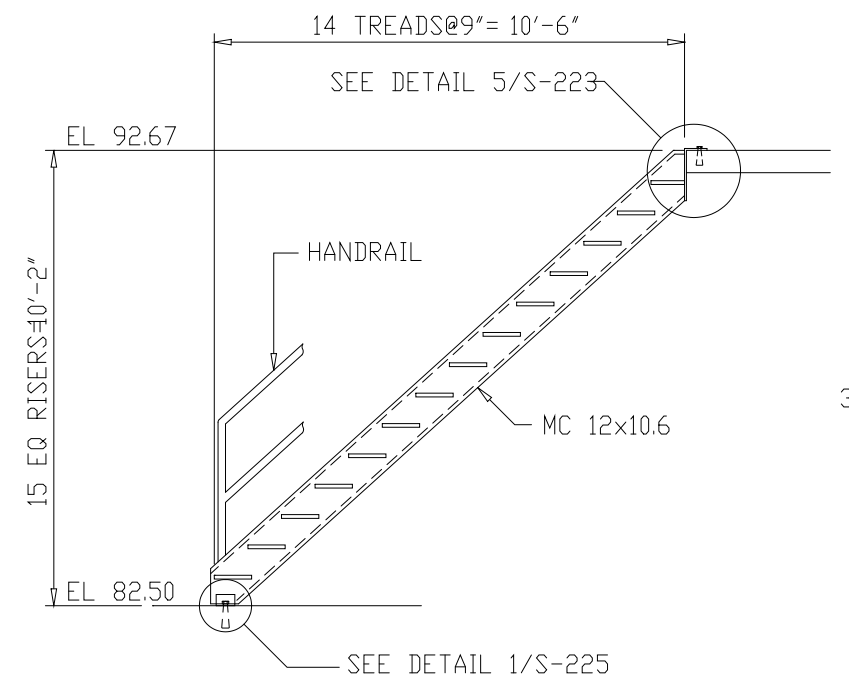
SECTION 2
1/2"=1'-0" S-223



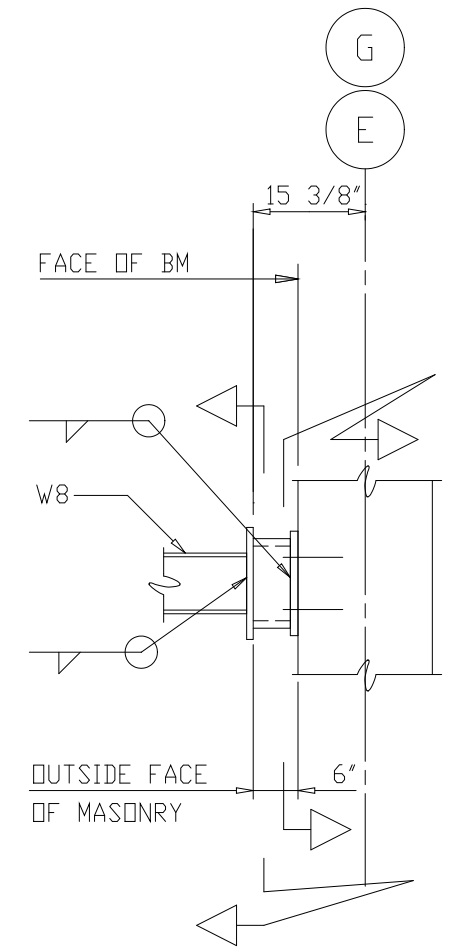
SECTION T
1/4"=1'-0" S-205



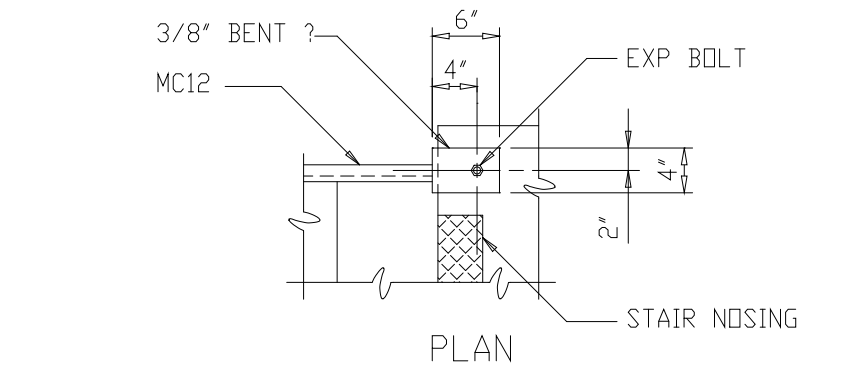
SECTION 3
1/2"=1'-0" S-223



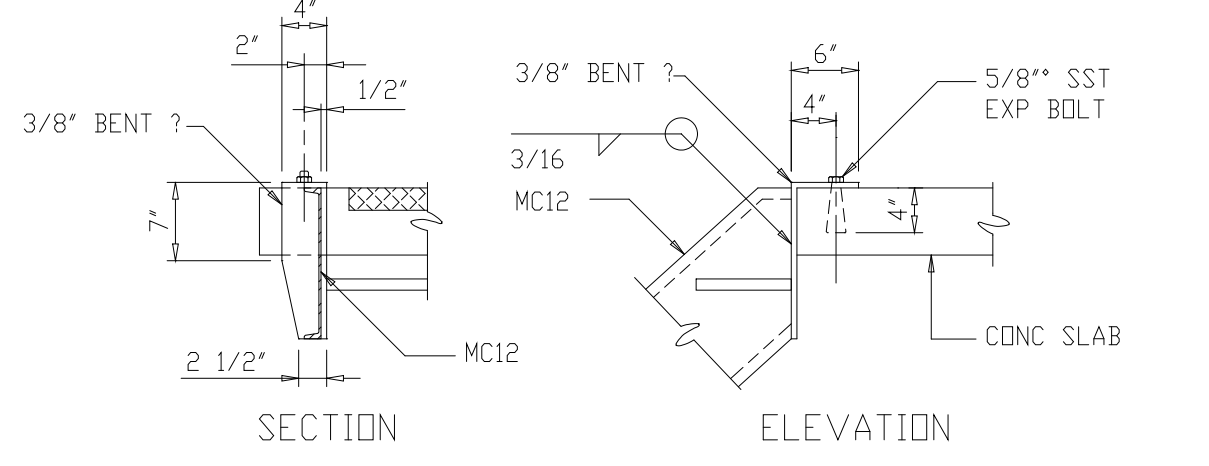
SECTION E
1/4"=1'-0" S-215



SECTION G
1/2"=1'-0" S-223



DETAIL 4
1/2"=1'-0" S-223



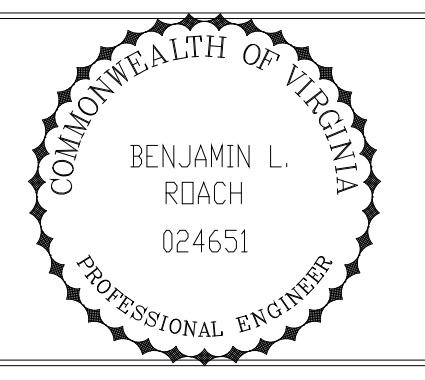
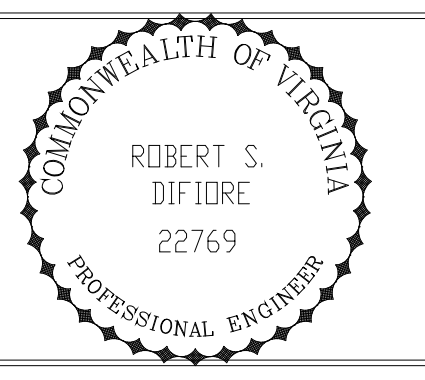
DETAIL 5
3/4"=1'-0" S-223

- NOTES:
- 1 FOR ADDITIONAL NOTES, SEE DWG S-204.
 - 2 FOR STRUCTURAL STEEL NOTES SEE DWG S-502.
 - 3 ALL STEEL FRAMING SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION UNLESS OTHERWISE NOTED.
 - 4 PIPING TO BE CRADLED AND SECURED TO SUPPORTS AS DESIGNED BY PIPE MANUFACTURER AND APPROVED BY ENGINEER.
 - 5 * DEPENDENT UPON MANUFACTURERS EQUIPMENT SELECTED.
 - 6 VERIFY SIZE AND LOCATION OF PIPE, WITH MECHANICAL DRAWINGS.
 - 7 ** FIELD VERIFY EXISTING DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
 - 8 RFI #81 - DANIS WILL INSTALL A WATERSTOP ON F* LINE AT UNDERSIDE OF TUNNEL SLAB STARTING AT BIOSOLIDS BUILDING AND RUNNING NORTH 10' WHERE THE WALL IS ABOVE FINISHED GRADE.

RECORD DRAWING

PLOT DATE: 09/20/00 8:00am FILE: H:\ARL\02\Phase3\03\SDP-3\DWG\STRUC\WPC-223.DWG BY: MATTI MSF FILE = NONE

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



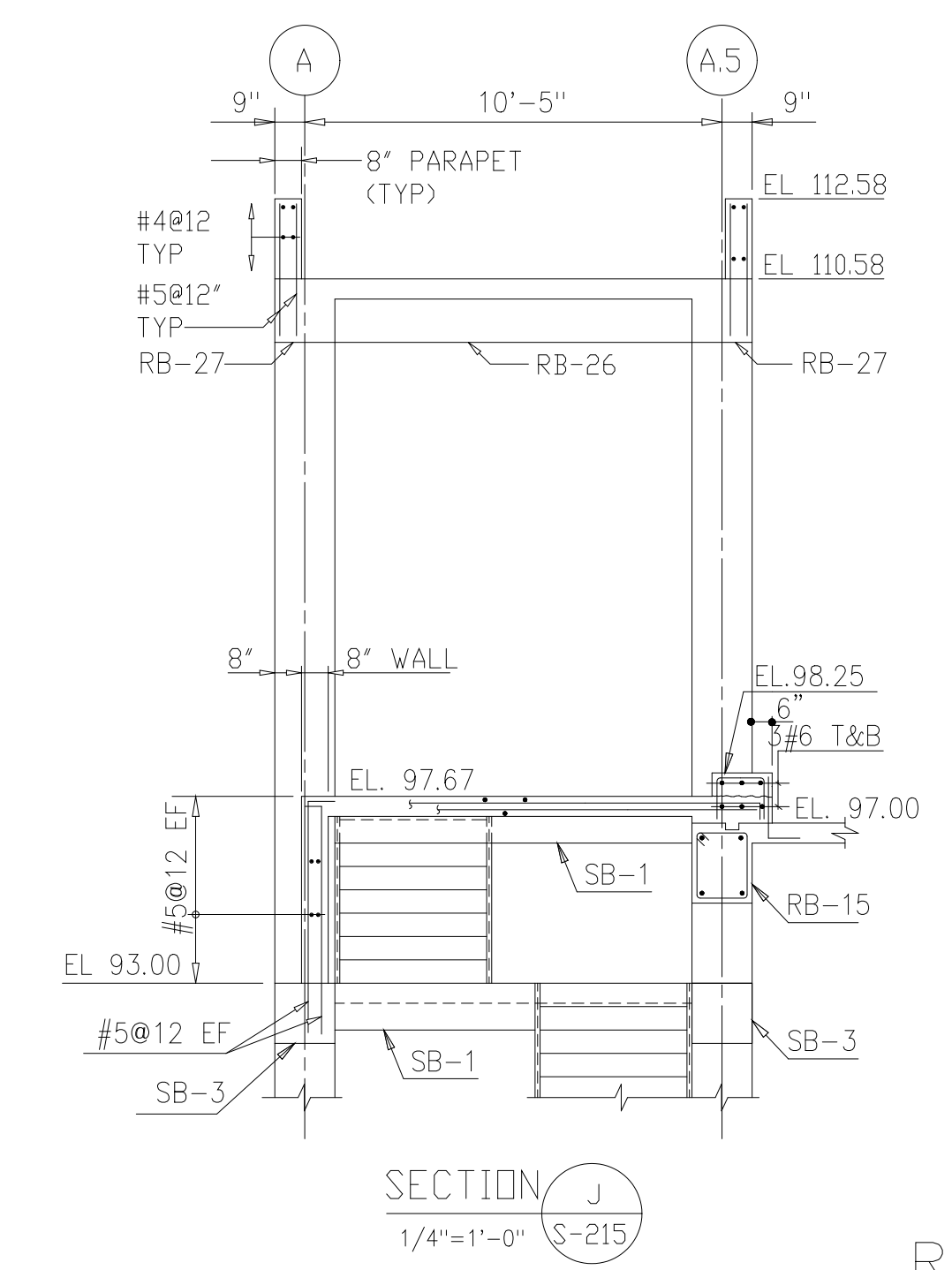
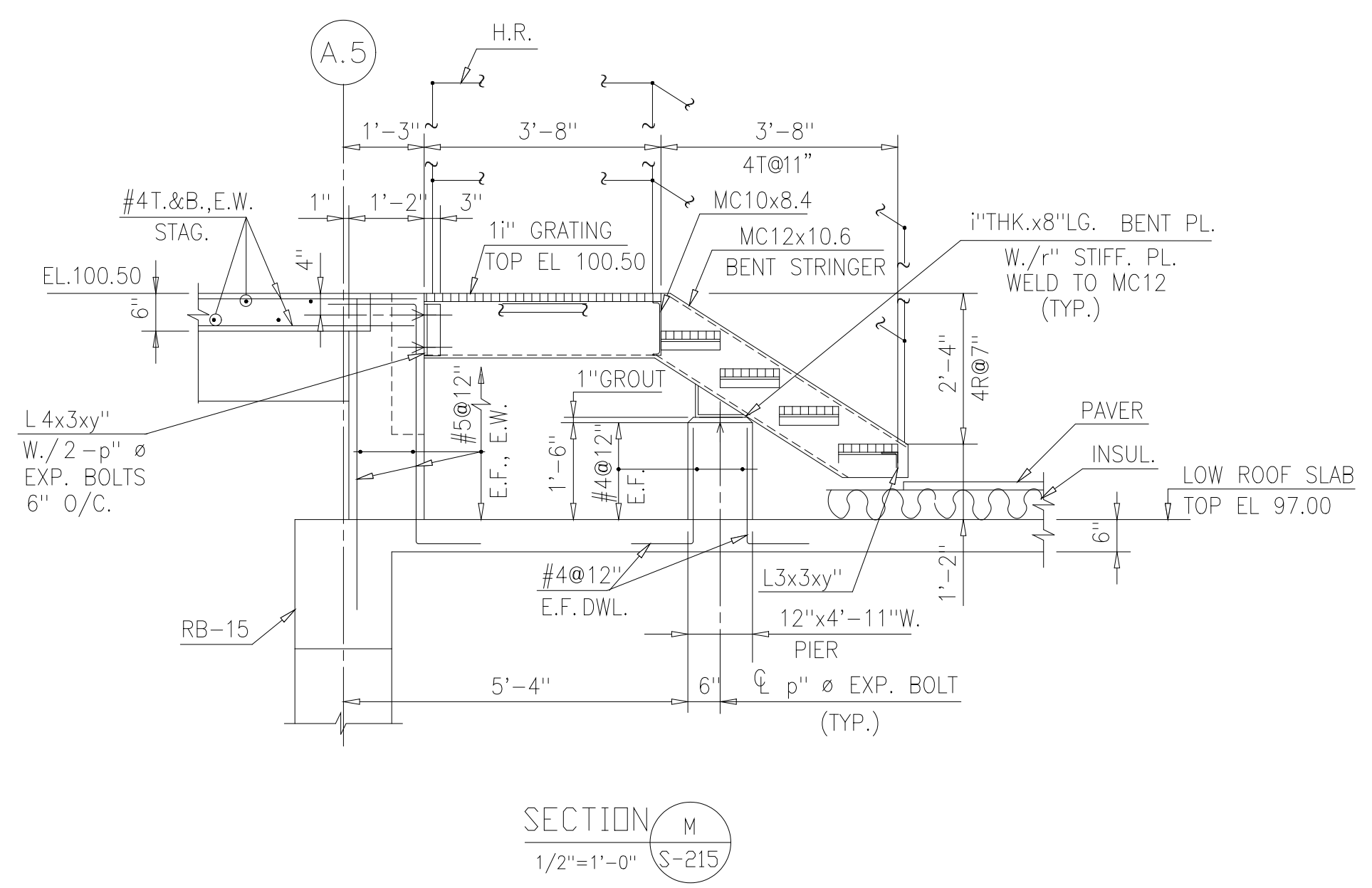
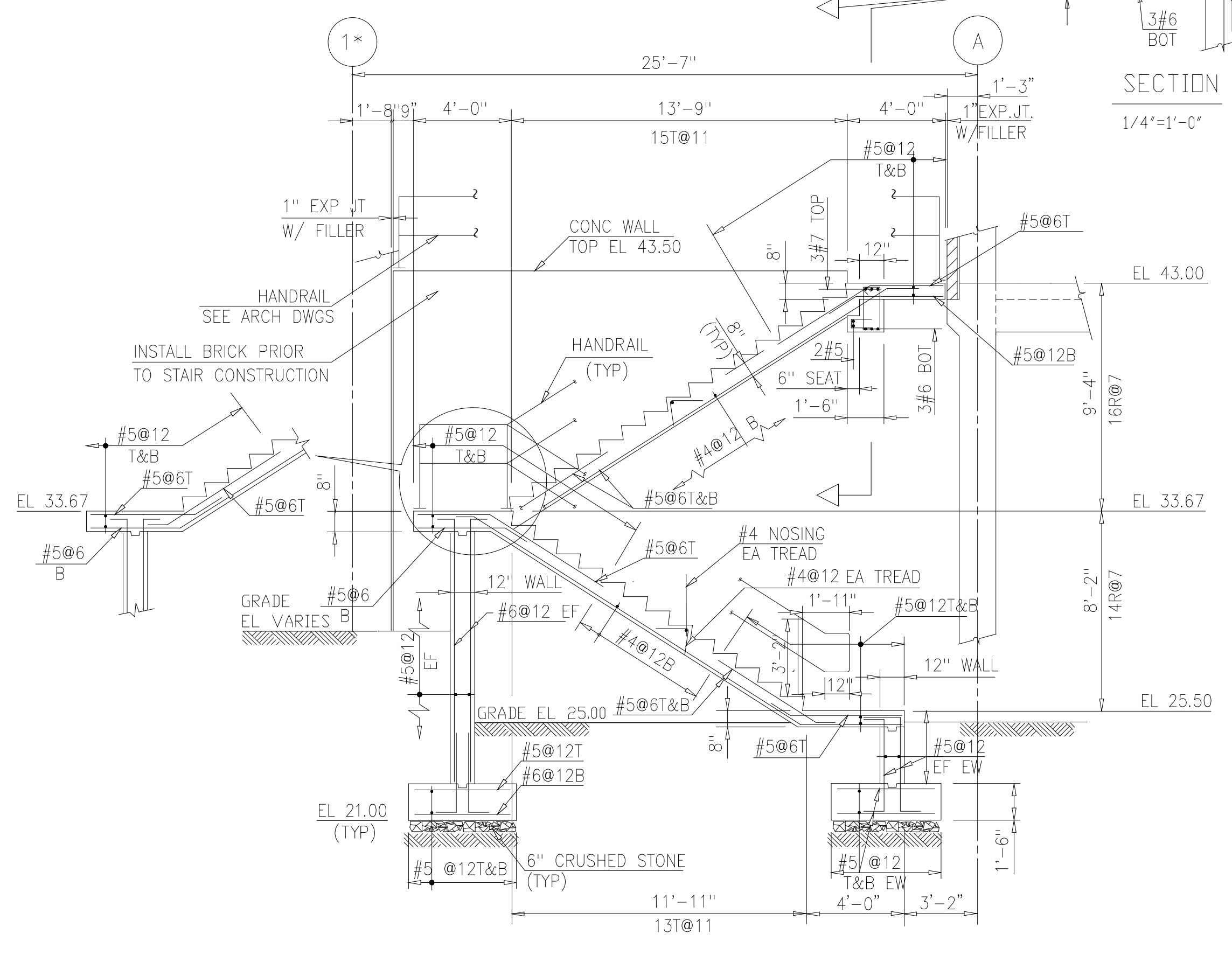
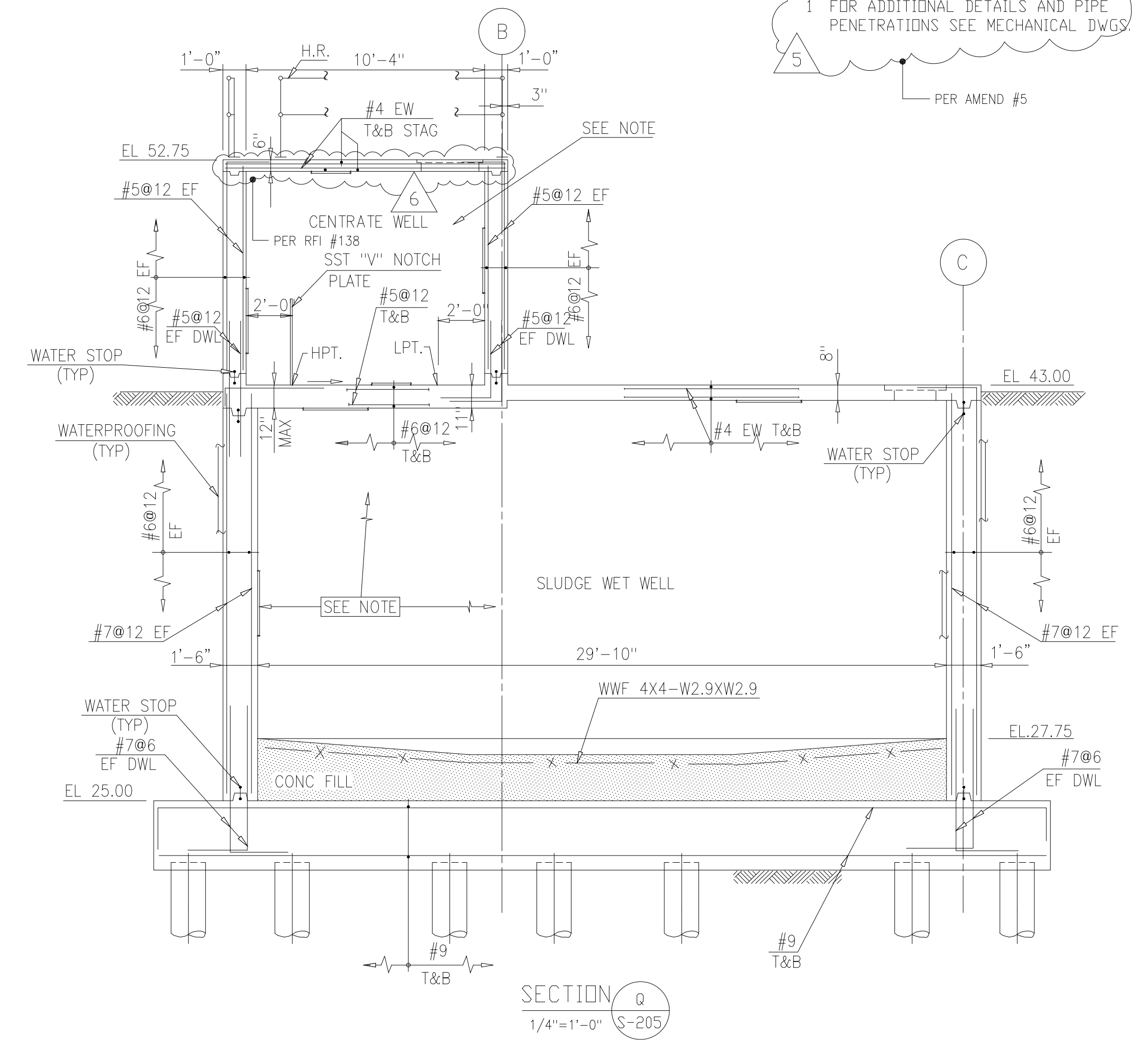
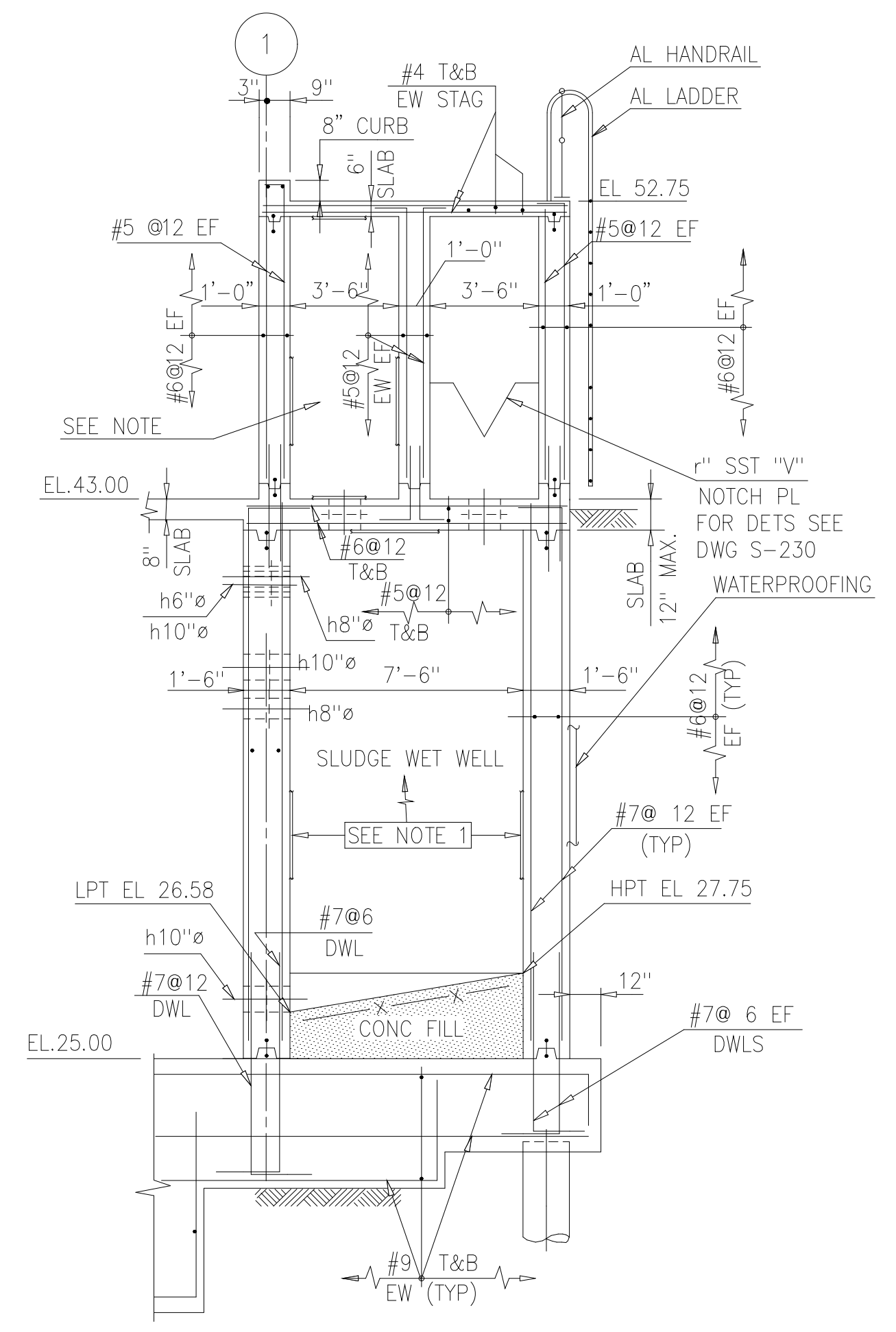
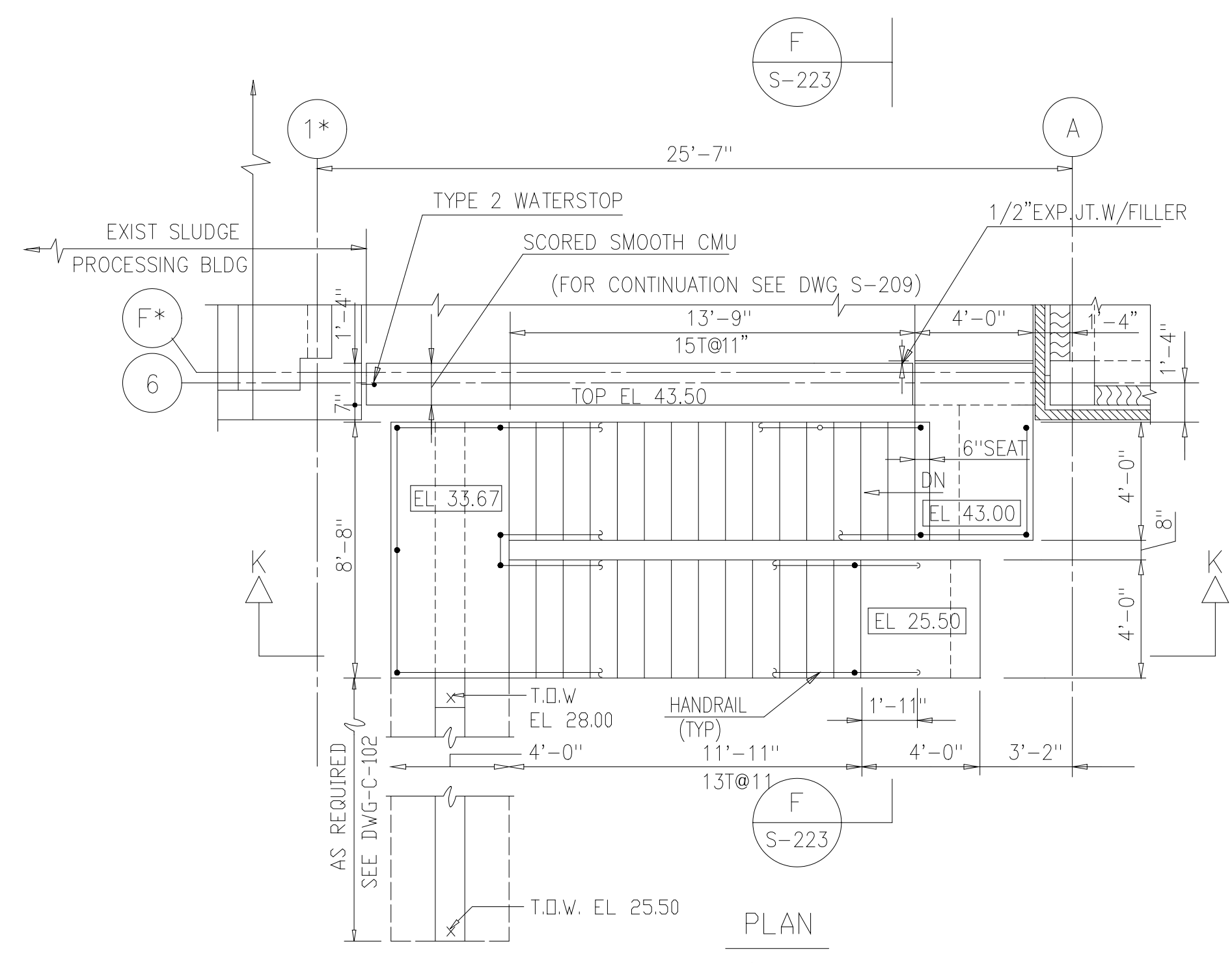
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
MISCELLANEOUS SECTIONS AND DETAILS
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-223
	SHEET	83 OF 199

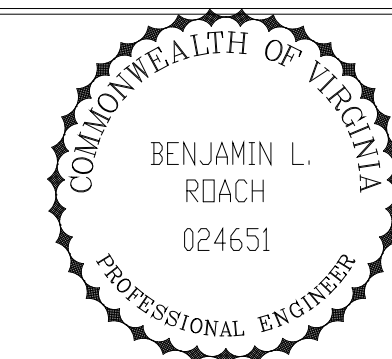
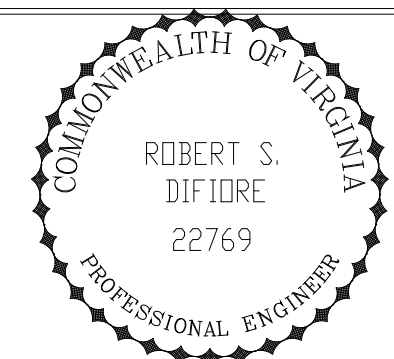
NOTES:
 1 FOR ADDITIONAL DETAILS AND PIPE PENETRATIONS SEE MECHANICAL DWGS.
 5 PER AMEND #5



RECORD DRAWING

FILE: H:\PROJECTS\2004-2005\2004-2005-004-004.dwg BY: MATS DATE: 08/11/04

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

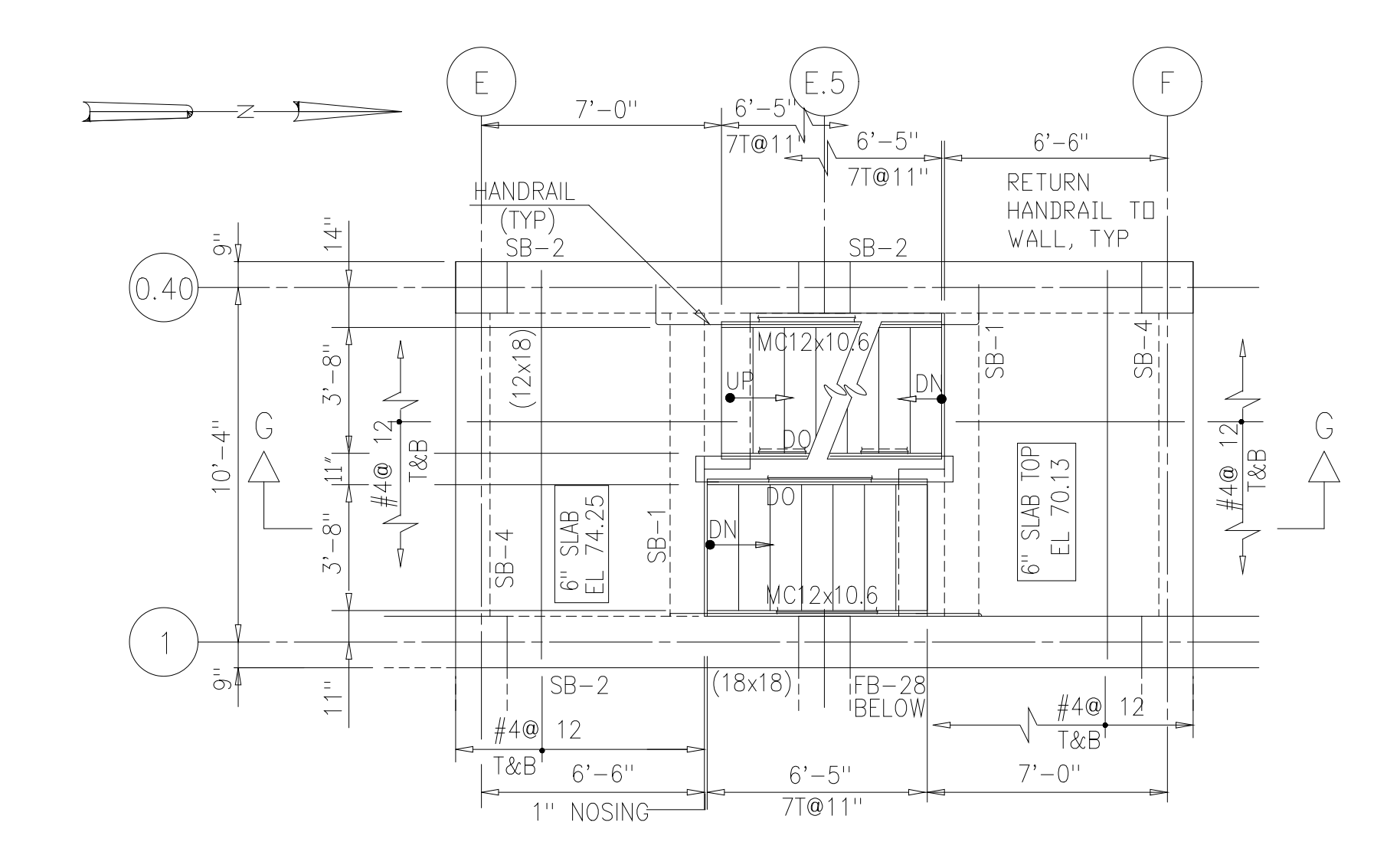


HAZENAND SAWYER
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 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

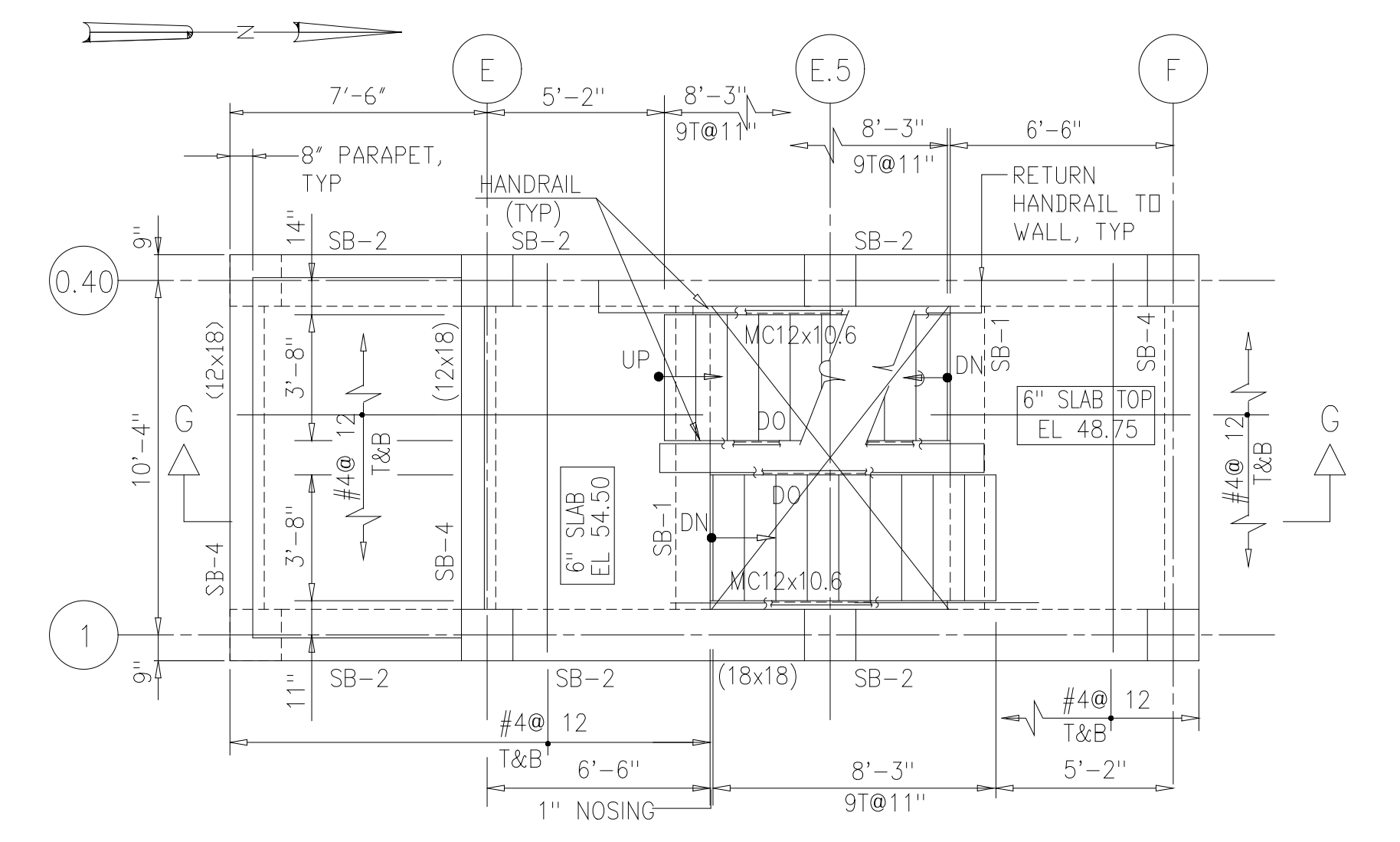
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 STRUCTURAL
 MISCELLANEOUS SECTIONS AND DETAILS
 SHEET 3

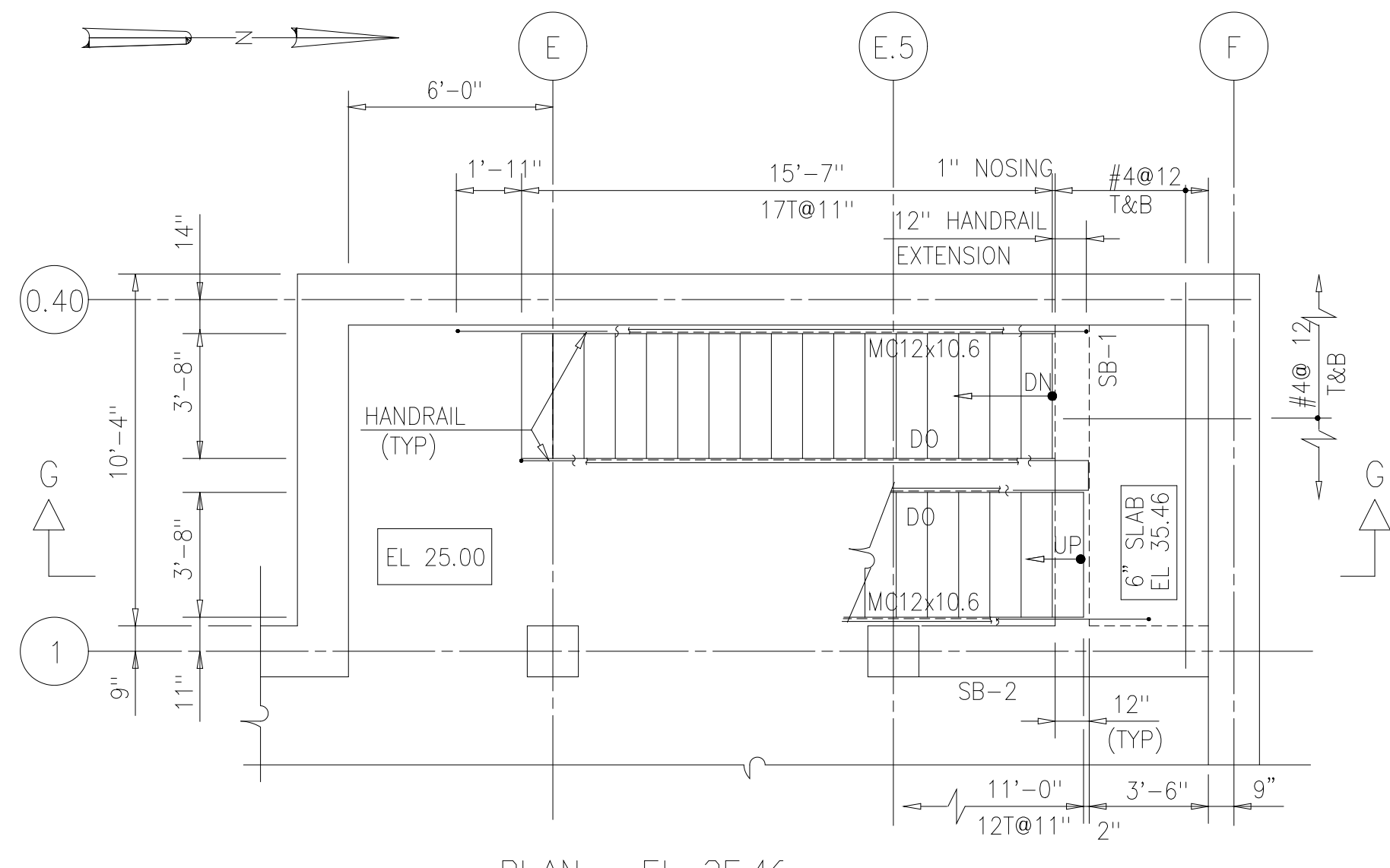
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-224
	SHEET	84 OF 199



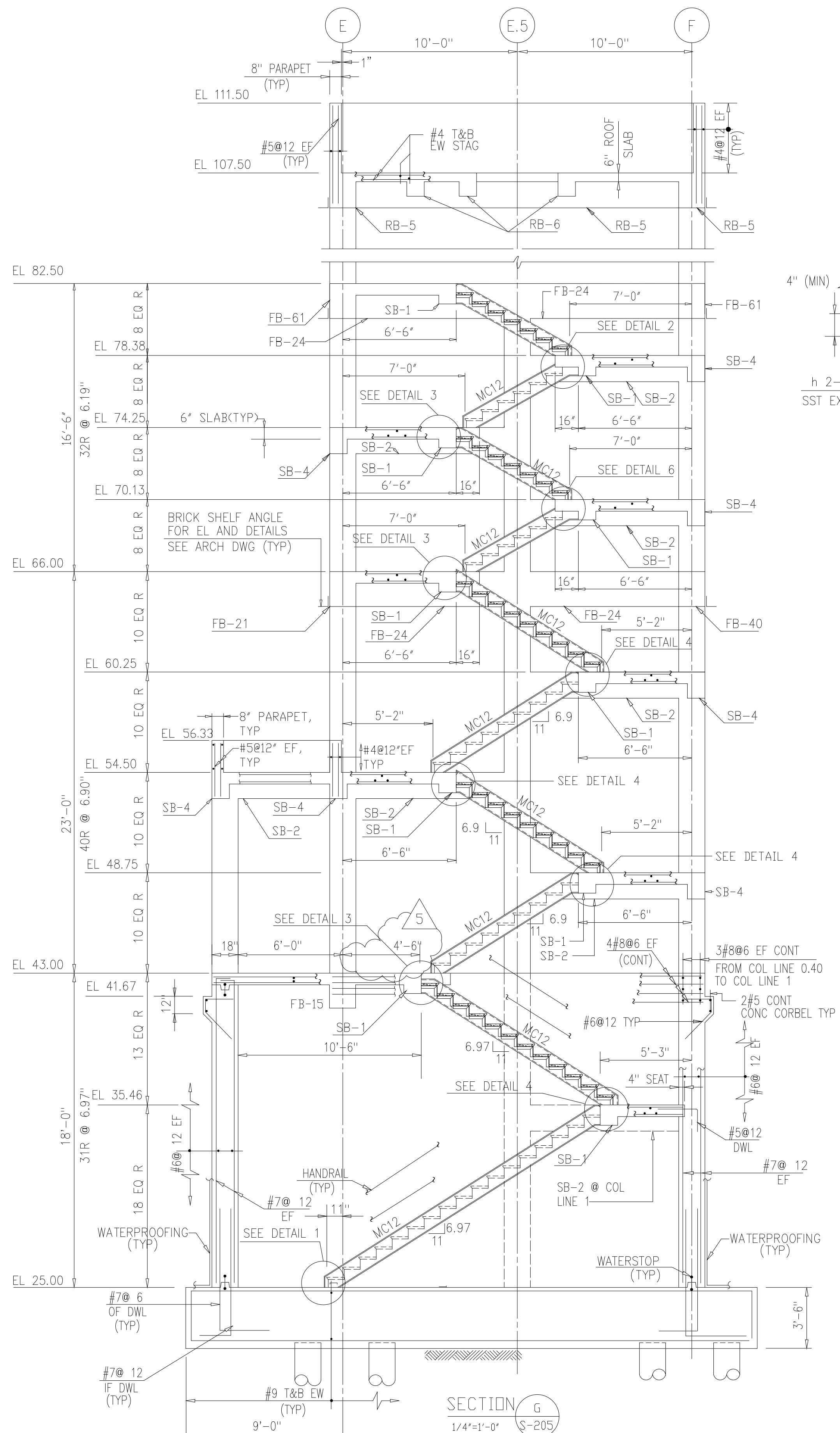
PLAN - EL 74.25
1/4"=1'-0"



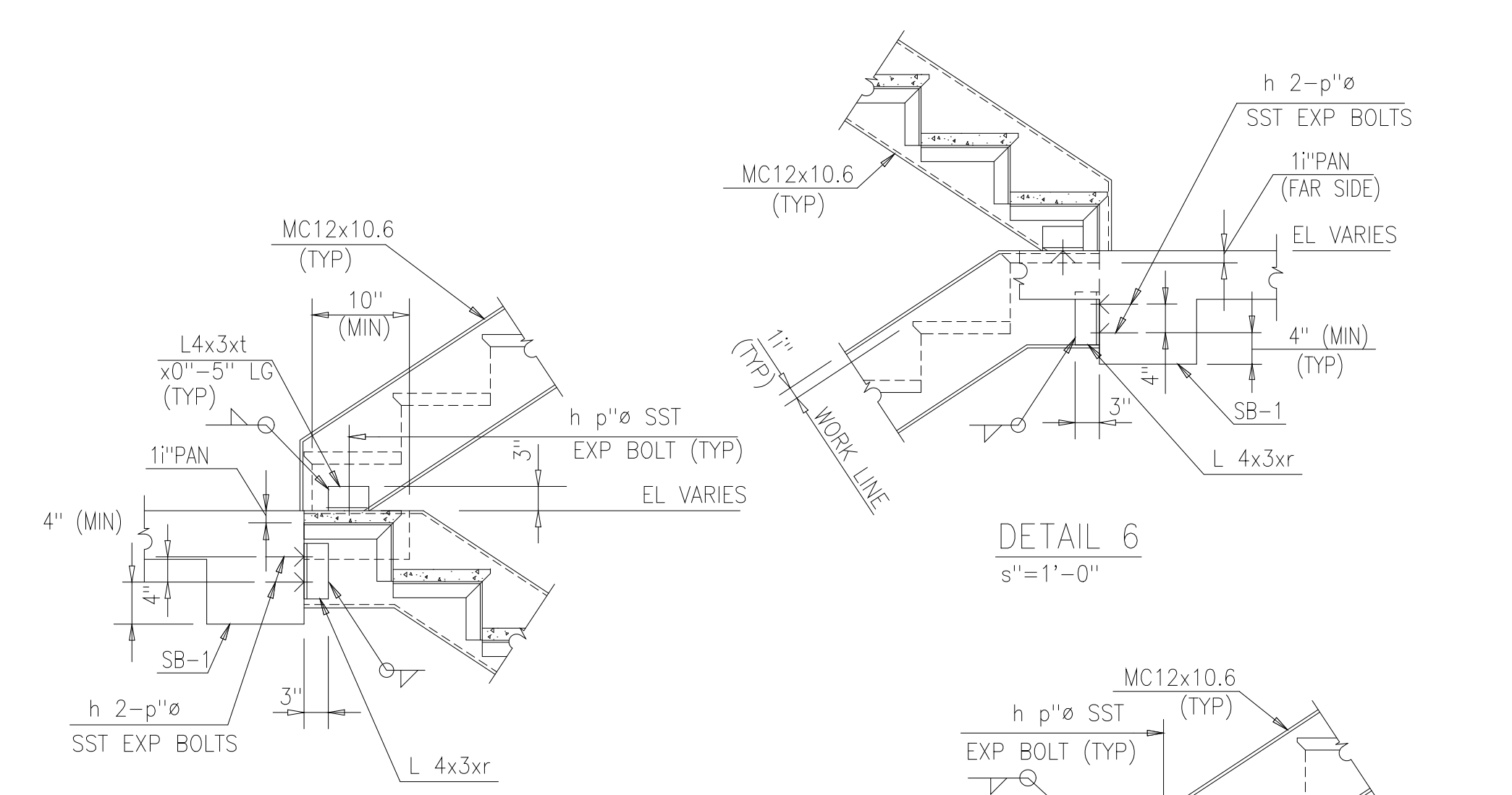
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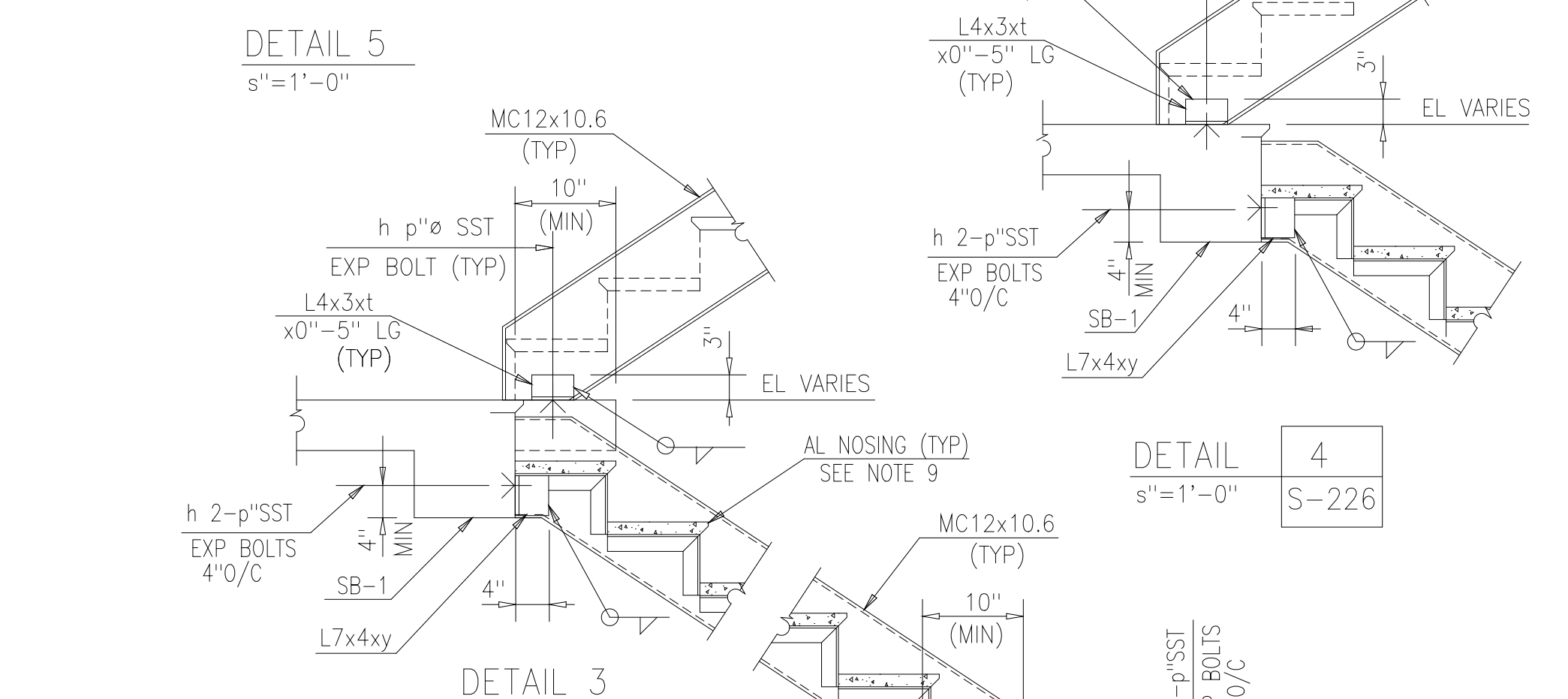
PLAN - EL 35.46
1/4"=1'-0"



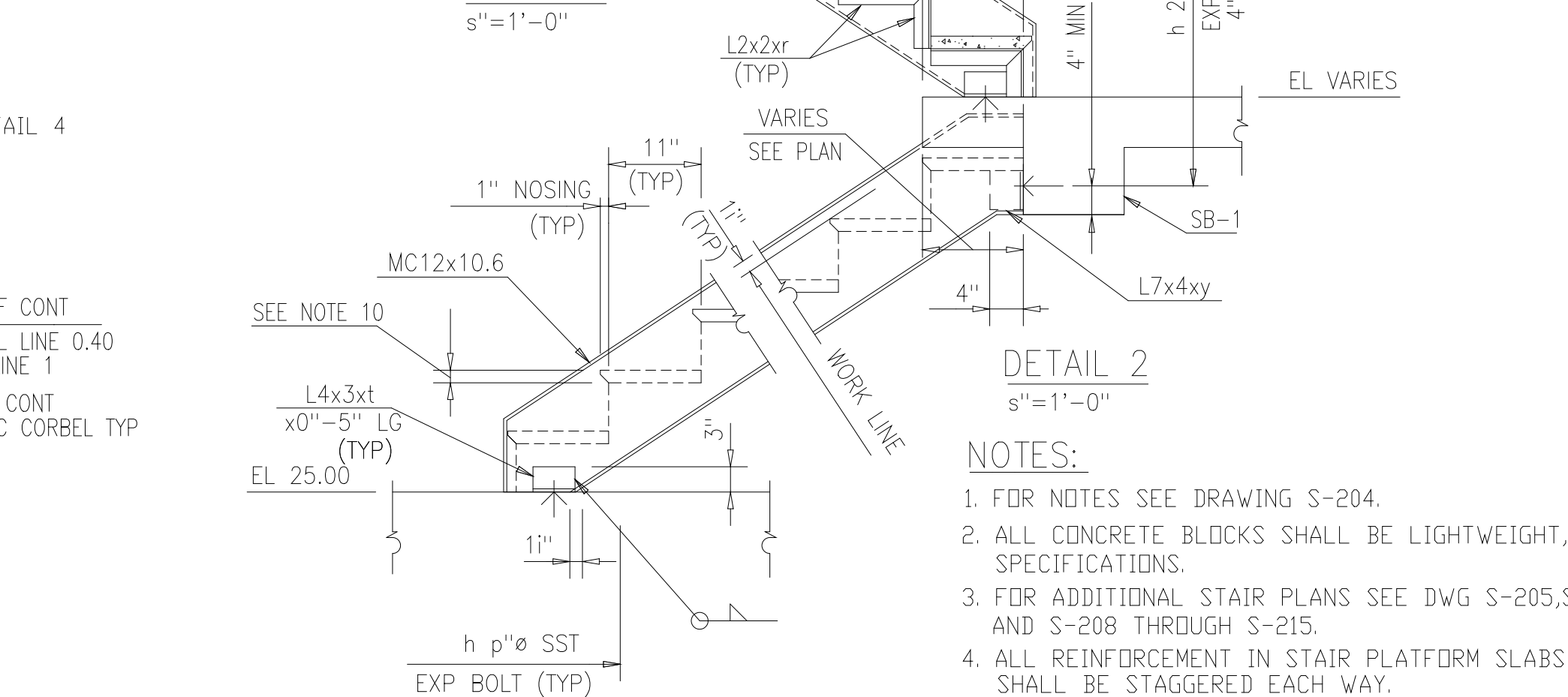
SECTION G
1/4"=1'-0"



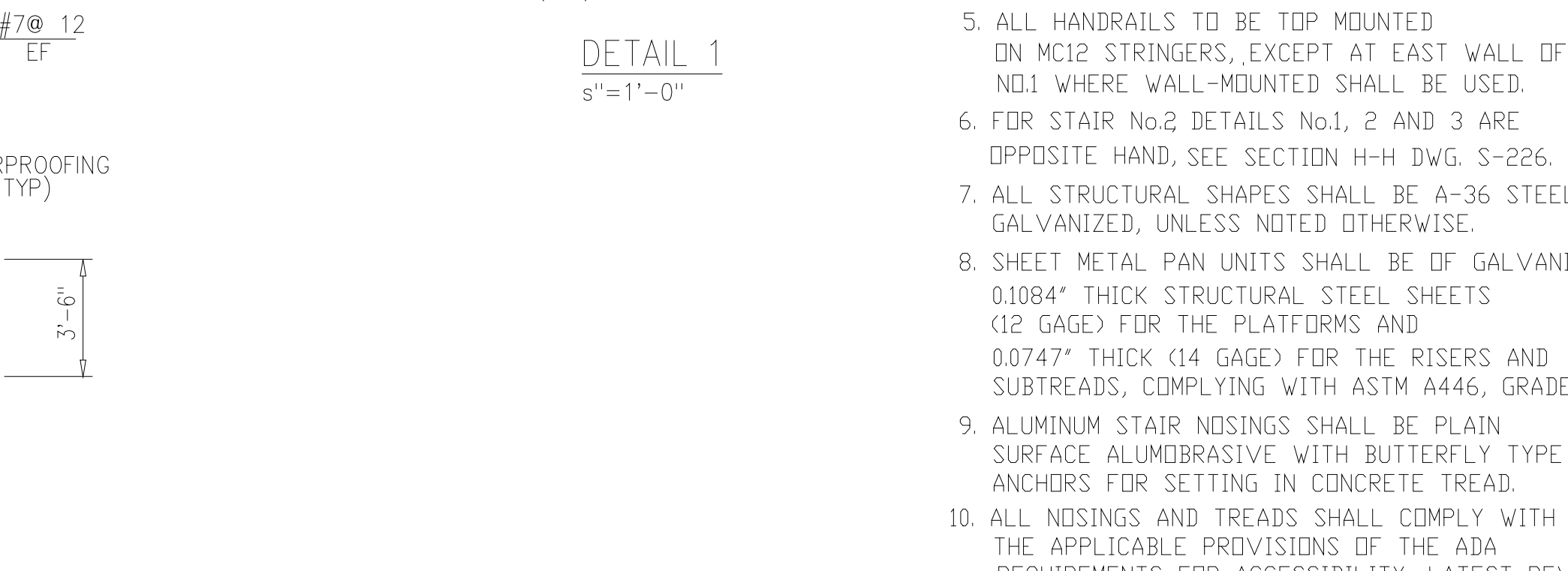
DETAIL 6
s"=1'-0"



DETAIL 5
s"=1'-0"



DETAIL 3
s"=1'-0"



DETAIL 2
s"=1'-0"

- NOTES:**
- FOR NOTES SEE DRAWING S-204.
 - ALL CONCRETE BLOCKS SHALL BE LIGHTWEIGHT, SEE SPECIFICATIONS.
 - FOR ADDITIONAL STAIR PLANS SEE DWG S-205, S-206, AND S-208 THROUGH S-215.
 - ALL REINFORCEMENT IN STAIR PLATFORM SLABS SHALL BE STAGGERED EACH WAY.
 - ALL HANDRAILS TO BE TOP MOUNTED ON MC12 STRINGERS, EXCEPT AT EAST WALL OF STAIR NO.1 WHERE WALL-MOUNTED SHALL BE USED.
 - FOR STAIR NO.2 DETAILS NO.1, 2 AND 3 ARE OPPOSITE HAND, SEE SECTION H-H DWG. S-226.
 - ALL STRUCTURAL SHAPES SHALL BE A-36 STEEL, GALVANIZED, UNLESS NOTED OTHERWISE.
 - SHEET METAL PAN UNITS SHALL BE OF GALVANIZED 0.1084" THICK STRUCTURAL STEEL SHEETS (12 GAGE) FOR THE PLATFORMS AND 0.0747" THICK (14 GAGE) FOR THE RISERS AND SUBTREADS, COMPLYING WITH ASTM A446, GRADE A.
 - ALUMINUM STAIR NOSINGS SHALL BE PLAIN SURFACE ALUMBRASIVE WITH BUTTERFLY TYPE ANCHORS FOR SETTING IN CONCRETE TREAD.
 - ALL NOSINGS AND TREADS SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE ADA REQUIREMENTS FOR ACCESSIBILITY, LATEST REVISION.

NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	APPROVED
3	REGULATORY APPROVAL	9-94	JJB					
2	CONSTRUCTION	9-94	JJB					
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD					
4	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD					
5	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD					
6	WP3 CONST.-LAND APP. REDES.	3-96	RSD					
7	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD					
8	WP4.5, 6, 7 CONST.-LAND APP. REDES.	4-96	RSD					
9	RECORD DRAWINGS	6-99	F.X.P.					

DESIGNED: E.T.M.
DRAWN: B.R.C.
CHECKED:
PRJ. ENGR.: A.B./R.N.C.

ROBERT S. DIPIORE
22769
PROFESSIONAL ENGINEER

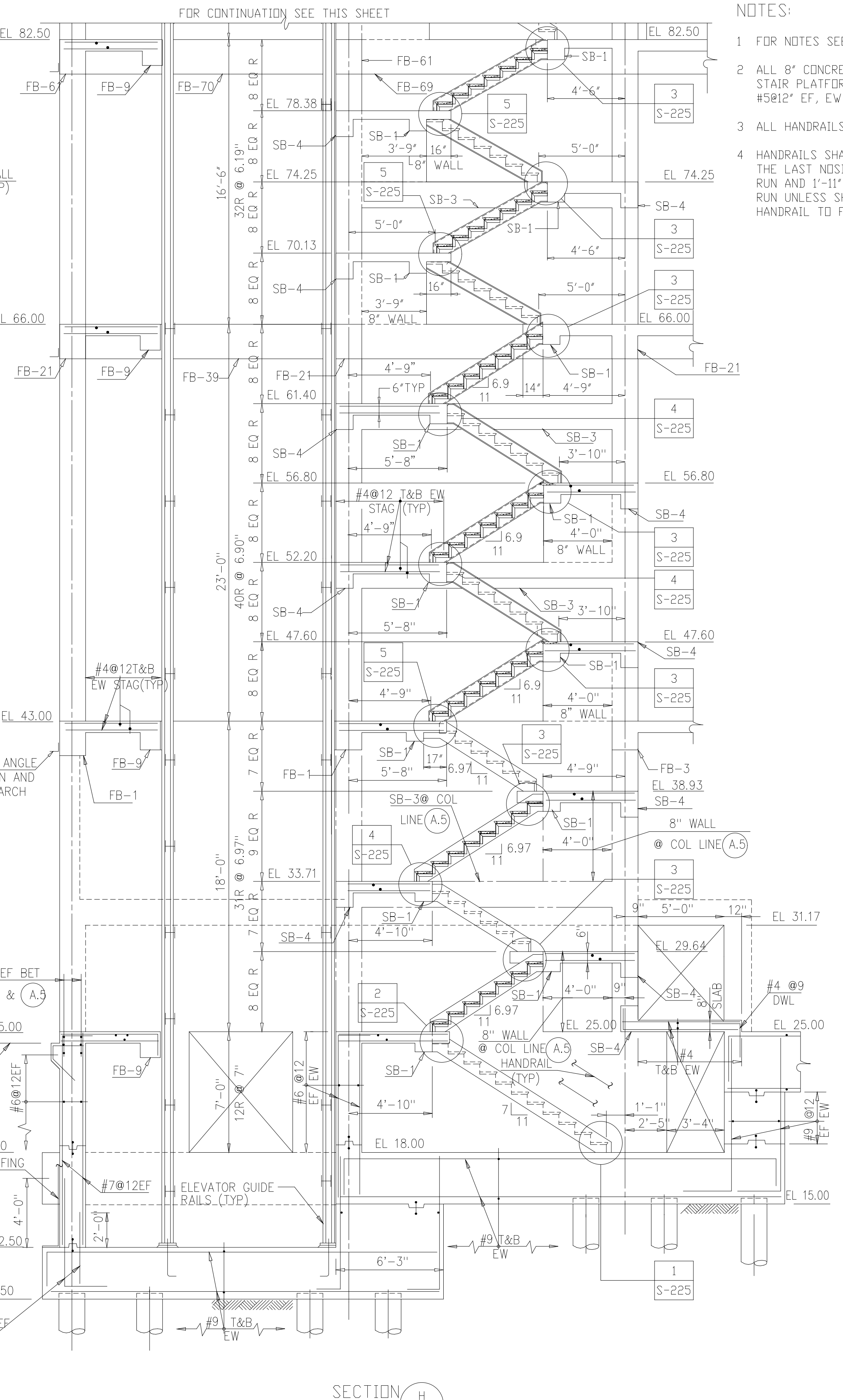
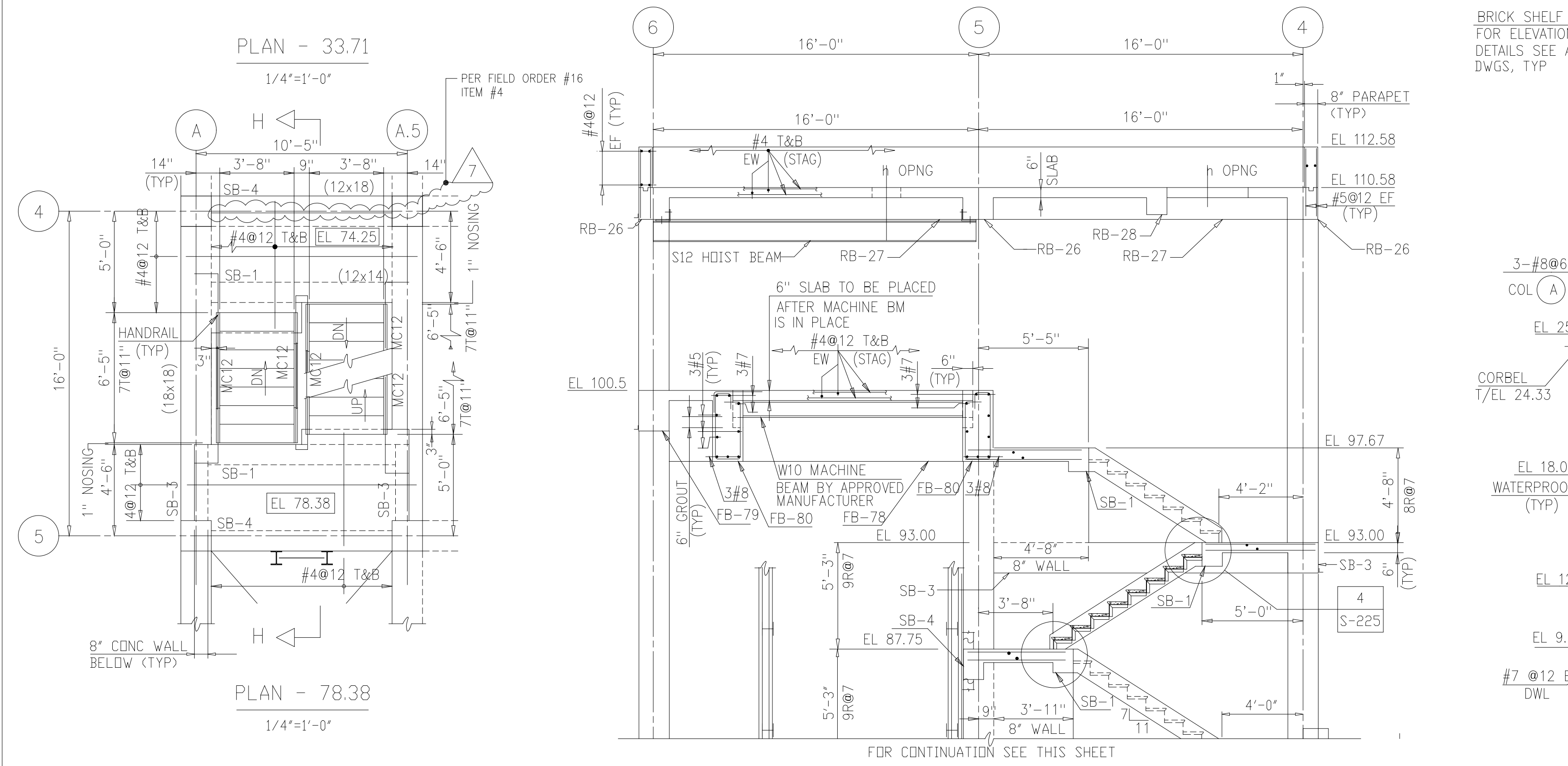
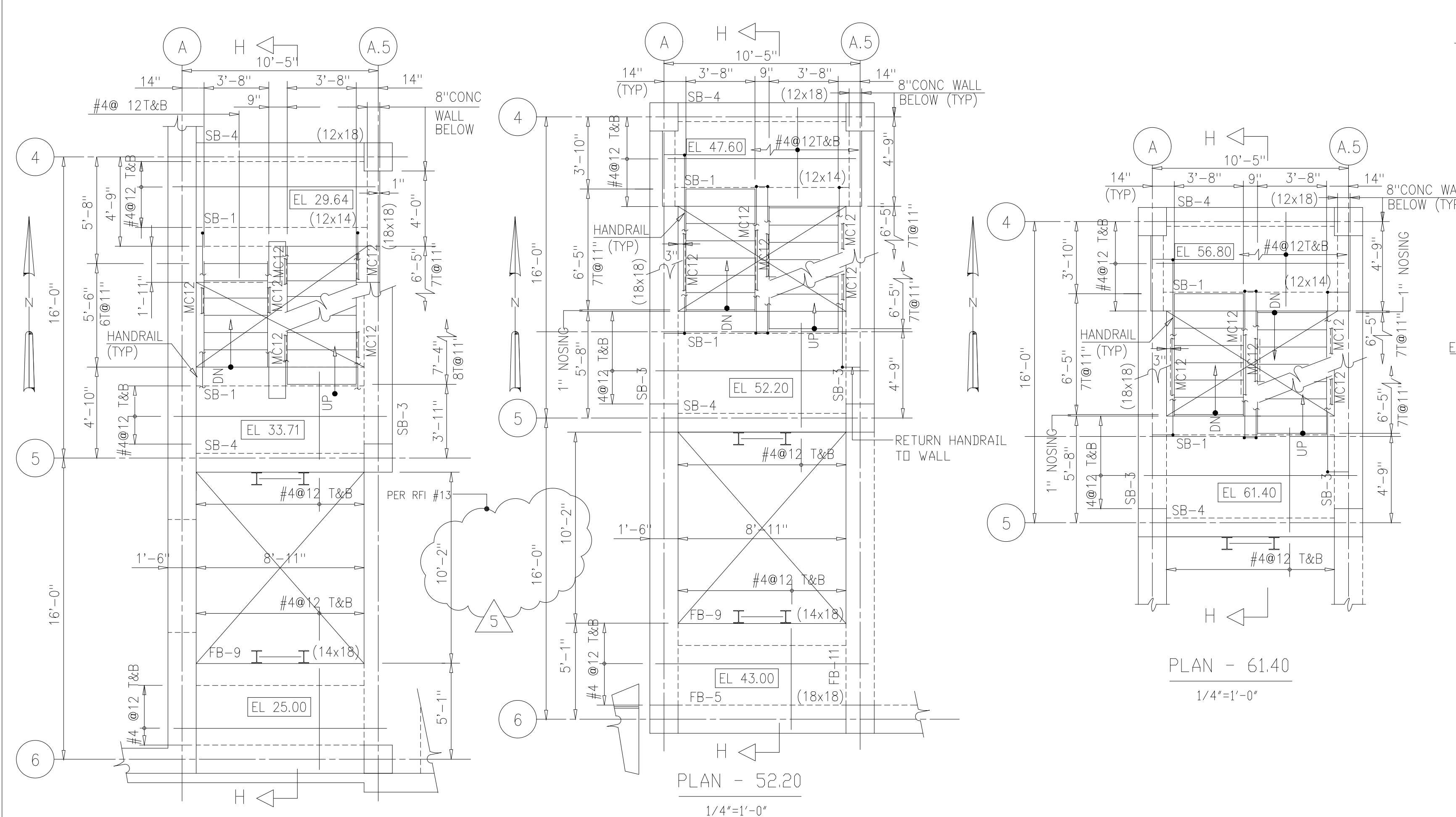
BENJAMIN L. RDACH
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PROFESSIONAL ENGINEER

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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
STAIR NO.1 - PLANS,
SECTIONS AND DETAILS

DATE: SEPT 94
H & S JOB NUMBER: 2843
CONTRACT NUMBER: 93-02-WPC
DRAWING NUMBER: S-225
SHEET 85 OF 199



- NOTES:
- FOR NOTES SEE DWG S-225.
 - ALL 8" CONCRETE WALLS SUPPORTING STAIR PLATFORMS SHALL BE REINF WITH #5@12" EF, EW UNLESS SHOWN OTHERWISE.
 - ALL HANDRAILS TO BE TOP MOUNTED.
 - HANDRAILS SHALL EXTEND 1'-0" BEYOND THE LAST NOSING AT THE TOP OF EACH RUN AND 1'-11" AT THE BOTTOM OF EACH RUN UNLESS SHOWN OTHERWISE RETURN HANDRAIL TO FACE OF WALL.

NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	APPROVED
7	RECORD DRAWING	4-99	MKS					
6	WP4,5,6,7 CONST.-LAND APP. REDES.	4-96	RSD					
5	WP6,7 APPROVAL-LAND APP. REDES.	3-96	RSD					
4	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD					
3	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD					
2	CONSTRUCTION	9-94	JJB					
1	REGULATORY APPROVAL	9-94	JJB					

DESIGNED: E.T.M.
 DRAWN: B.R.C.
 CHECKED:
 PRJ. ENGR.: AB/RNC

COMMONWEALTH OF VIRGINIA
 ROBERT S. DIFIORE
 22769
 PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA
 BENJAMIN L. RDACH
 024651
 PROFESSIONAL ENGINEER

Hazenand Sawyer
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 STRUCTURAL
 STAIR NO.2-PLANS, SECTIONS & DETAILS

RECORD DRAWING

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
CONTRACT NUMBER 93-02-WPC	H & S JOB NUMBER 2843
DRAWING NUMBER S-226	
SHEET 86	OF 199

NOTES:

1. THE FOLLOWING APPLY TO BEAMS FB-27, FB-28, FB-29, FB-30, FB-37, AND FB-38:

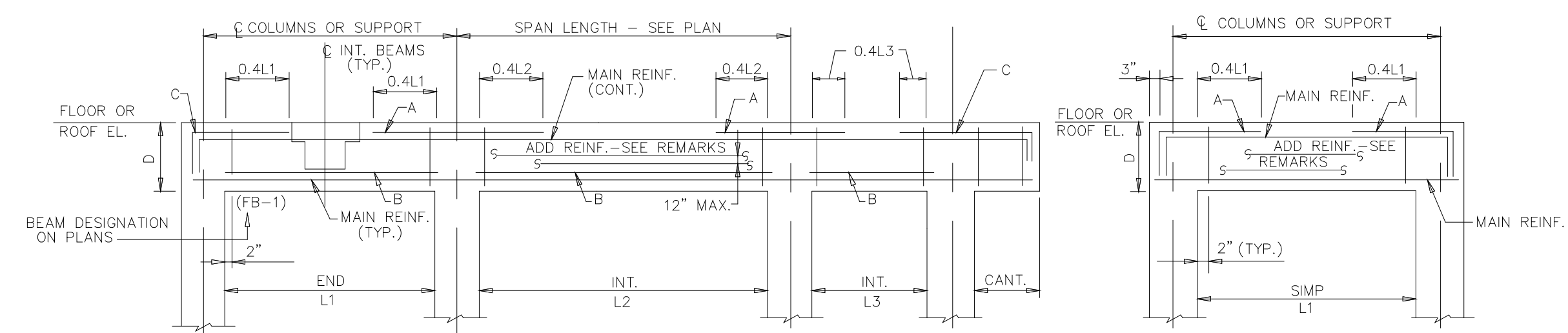
- A. PLACE 2 MAIN BARS IN 2ND LAYER T&B,
- B. PROVIDE #6@9" HOR CONT EF ADDL
- C. FOR EMB PL AND STUD, SEE DWG S-232

BEAM SCHEDULE

MARK	SPAN TYPE	SIZE		TOP ELEV.	NO REQ'D	MAIN REINF.			ADD REINF.			STIRRUP		REMARKS
		W"	D"			TOP	BOT.	A	B	C	SIZE	SPACING(IN.)		
FB-1	END	18	26	43.00	3	3 #8	3 #8	1 #8	-	1 #8	#3	□	10	
FB-1A	END	18	26	43.00	2	3 #8	3 #8	2 #8	1 #8	1 #8	#4	□	10	
FB-2	INT	18	26	43.00	17	3 #8	3 #8	-	-	-	#3	□	10	
FB-2A	INT	18	26	43.00	1	3 #8	3 #8	1 #8	-	-	#3	□	10	"A" BARS TYP AT EA END OF SPAN
FB-3	END	18	26	43.00	6	3 #8	3 #8	-	-	-	#3	□	10	
FB-3A	END	18	26	43.00	1	3 #8	3 #8	1 #8	-	-	#3	□	10	
FB-4	INT	18	26	43.00	4	3 #8	3 #8	2 #8	2 #8	-	#4	□	10	"A" BARS TYP AT EA END OF SPAN
FB-4A	INT	18	26	43.00	1	3 #8	3 #8	2 #8	2 #8	-	#4	□	10	SPACE STIRRUPS @6" BETWEEN FB-6A AND COL LINE E
FB-5	SIMP	14	18	43.00	2	2 #6	3 #6	-	-	-	#3	□	8	
FB-6	SIMP	16	20	43.00	1	3 #6	3 #6	-	-	-	#3	□	8	
FB-6A	END	16	20	43.00	4	3 #7	3 #7	-	-	-	#3	□	8	
FB-6B	INT	16	20	43.00	1	3 #7	3 #7	1 #7	-	-	#3	□	8	"A" BARS TYP AT EA END OF SPAN
FB-7	SIMP	16/22	14/22	VARIES	4	3 #6	3 #6	-	-	-	#3	□	10	FOR "W","D" & REINF., SEE DETAIL S-228
FB-8	END	22	26	43.00	1	3 #7	3 #8	2 #7	-	-	#3	□	10	
FB-9	SIMP	14	16	VARIES	3	3 #5	3 #5	-	-	-	#3	□	8	AT ELEVATOR SHAFT
FB-10	END	18	26	43.00	2	3 #7	3 #8	2 #7	-	-	#3	□	10	
FB-11	END	18	24	VARIES	5	3 #7	3 #7	-	-	-	#3	□	10	AT ELEVATOR SHAFT
FB-12	END	18	24	43.00	4	3 #7	3 #7	1 #7	-	1 #7	#3	□	10	
FB-13	INT	18	24	43.00	17	3 #7	3 #7	-	-	-	#3	□	10	
FB-14	INT	18	24	43.00	2	3 #7	3 #7	-	-	-	#3	□	10	FOR "W","D" & REINF., SEE DETAIL S-228
FB-15	END	18	24	43.00	5	3 #7	3 #7	1 #7	1 #7	-	#3	□	10	
FB-16	SIMP	16	20	43.00	1	3 #6	3 #7	-	-	-	#3	□	8	FOR "W","D" & REINF., SEE DETAIL S-228
FB-17	END	22	24	42.83	1	3 #7	3 #7	-	-	-	#3	□	10	
FB-18	INT	22	24	42.83	4	3 #7	3 #7	-	-	-	#3	□	10	
FB-19	END	18	18	43.00	2	3 #6	3 #6	-	-	-	#3	□	8	
FB-20	INT	18	18	43.00	1	3 #6	3 #6	-	-	-	#3	□	8	
FB-21	END	18	26	66.00	4	3 #8	3 #8	-	-	-	#3	□	10	
FB-22	INT	18	26	66.00	11	3 #8	3 #8	-	-	-	#3	□	10	
FB-23	INT	18	26	66.00	1	3 #8	3 #8	1 #8	-	-	#3	□	6	
FB-24	END	18	18	VARIES	4	3 #7	3 #6	-	-	-	#3	□	8	
FB-25	END	18	36	66.00	2	4 #9	4 #9	-	-	-	#4	□	8	2#5 HOR CONT EF ADDL
FB-26	INT	18	36	66.00	9	4 #9	4 #9	-	-	-	#4	□	8	2#5 HOR CONT EF ADDL
FB-27	END	18*	81	66.00	2	6 #9	6 #9	-	-	-	#4	□	6	* WIDTH VARIES WITHIN SLUDGE BINS SEE SECTION C/S-219 AND NOTE 1
FB-28	INT	18*	81	66.00	3	6 #9	6 #9	-	-	-	#4	□	6	* WIDTH VARIES WITHIN SLUDGE BINS SEE SECTION C/S-219 AND NOTE 1
FB-29	END	18*	81	66.00	3	6 #9	6 #9	-	-	-	#4	□	6	* WIDTH VARIES WITHIN SLUDGE BINS SEE SECTION C/S-219 AND NOTE 1
FB-30	INT	18*	81	66.00	3	6 #9	6 #9	-	-	-	#4	□	6	* WIDTH VARIES WITHIN SLUDGE BINS SEE SECTION C/S-219 AND NOTE 1
FB-31	INT	18	26	66.00	1	3 #8	3 #8	1 #8	1 #8	-	#3	□	6	
FB-32	INT	18	24	66.00	3	3 #7	3 #7	-	1 #8	-	#4	□	8	
FB-33	SIMP	18	24	66.00	3	3 #7	3 #7	-	1 #8	-	#4	□	8	
FB-34	INT	18	26	66.00	9	3 #8	3 #8	-	-	-	#3	□	6	
FB-35	END	18	26	66.00	7	3 #8	3 #8	1 #8	1 #8	-	#3	□	6	
FB-35A	END	18	26	66.00	2	3 #8	3 #8	-	1 #8	-	#3	□	6	
FB-36	END	18	24	66.00	1	3 #7	3 #7	1 #8	1 #8	1 #7	#4	□	8	
FB-37	END	18	81	66.00	4	6 #9	6 #9	-	-	-	#4	□	6	SEE NOTE 1
FB-38	INT	18	81	66.00	4	6 #9	6 #9	-	-	-	#4	□	6	SEE NOTE 1
FB-39	END	18	24	66.00	1	3 #7	3 #7	1 #8	-	-	#4	□	8	
FB-40	SIMP	18	26	66.00	1	3 #7	3 #7	-	-	-	#3	□	10	
FB-41	INT	18	24	66.00	1	3 #8	3 #7	-	2 #6	-	#4	□	8	"b" BARS IN 2nd LAYER
FB-42	END	18	24	66.00	1	3 #8	3 #7	2 #6	2 #6	-	#4	□	8	"A&B" BARS IN 2nd LAYER
FB-43	INT	18	24	66.00	8	3 #8	3 #7	-	-	-	#3	□	10	
FB-44	END	18	24	66.00	3	3 #8	3 #7	2 #6	-	-	#3	□	10	"A" BARS IN 2nd LAYER

BEAM SCHEDULE

MARK	SPAN TYPE	SIZE		TOP ELEV.	NO REQ'D	MAIN REINF.			ADD REINF.			STIRRUP		REMARKS
		W"	D"			TOP	BOT.	A	B	C	SIZE	SPACING(IN.)		
FB-45	END	18	24	66.00	10	3 #8	3 #7	-	-	-	#3	□	10	
FB-46	SIMP	16	20	66.00	11	3 #6	3 #8	-	-	-	#3	□	8	
FB-47	END	18	20	66.00	2	3 #7	3 #7	1 #7	-	-	#3	□	8	
FB-48	SIMP	18	20	66.00	1	3 #7	3 #7	-	-	-	#3	□	8	
FB-49	SIMP	18	20	74.50	1	3 #7	3 #7	-	-	-	#3	□	8	
FB-51	SIMP	16/22	16/24	82.50	2	3 #6	3 #8	-	-	-	#3	□	10	FOR "W","D" & REINF., SEE DETAIL S-228
FB-52	SIMP	18	18	82.50	6	4 #8	4 #8	-	-	-	#4	□	8	
FB-53	END	18	18	82.50	4	4 #8	4 #8	2 #7	-	-	#4	□	8	BARS "A" AT SECOND LAYER
FB-54	INT	18	26	82.50	2	3 #7	3 #7	-	-	-	#3	□	10	
FB-56	INT	18	30	82.50	4	4 #9	4 #9	-	-	-	#4	□	6	
FB-57	END	18	30	82.50	4	4 #9	4 #9	2 #7	-	2 #7	#4	□	6	BARS "A" & "C" AT SECOND LAYER
FB-58	INT	18	30	82.50	4	4 #9	4 #9	-	-	-	#3	□	10	FOR TOP REINF. SEE DETAIL S-228
FB-59	INT	18	26	82.50	1	3 #8	3 #7	-	2 #8	-	#4	□	8	BARS "B" AT SECOND LAYER
FB-60	END	18	26	82.50	5	3 #8	3 #7	2 #8	2 #8	-	#4	□	8	BARS "A" & "B" AT SECOND LAYER
FB-61	END	18	26	82.50	7	3 #8	3 #7	-	-	-	#3	□	10	
FB-62	INT	18	26	82.50	25	3 #8	3 #7	-	-	-	#3	□	10	
FB-63	INT	18	26	82.50	1	3 #8	3 #7	-	-	-	#3	□	10	FOR TOP REINF. SEE DETAIL S-228
FB-64	END	18	26	82.50	1	3 #8	3 #7	1 #8	-	-	#3	□	10	BARS "A" AT SECOND LAYER
FB-65	INT	18	26	82.50	1	3 #7	3 #7	1 #7	-	-	#3	□	10	BARS "A" AT SECOND LAYER
FB-66	END	18	26	82.50	3	3 #7	3 #7	1 #7	-	-	#3	□	10	BARS "A" AT SECOND LAYER
FB-68	END	18	24	82.50	2	3 #7	3 #7	1 #7	-	-	#3	□	10	BARS "A" AT SECOND LAYER
FB-69	INT	18	24	82.50	2	3 #7	3 #7	-	-	-	#3	□	10	
FB-70	INT	18	24	82.50	1	3 #7	3 #7	-	-	-	#3	□	10	
FB-71	INT	18	26	82.50	2	3 #7	3 #7	1 #7	1 #8	-	#4	□	12	BARS "A" & "B" AT SECOND LAYER
FB-72	SIMP	16	20	82.50	1	3 #6	3 #8	-	-	-	#3	□	10	
FB-78	SIMP	18	42	100.50	1	3 #7	4 #7	-	-	-	#3	□	10	" " "
FB-79	SIMP	18	24	100.50	1	3 #7	3 #7	-	-	-	#3	□	10	" " "
FB-80	SIMP	18	42	100.50	2	3 #7	3 #8	-	-	-	#3	□	10	" " "

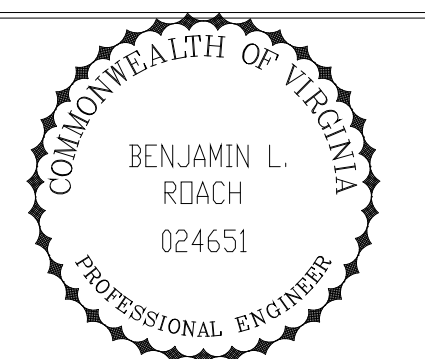
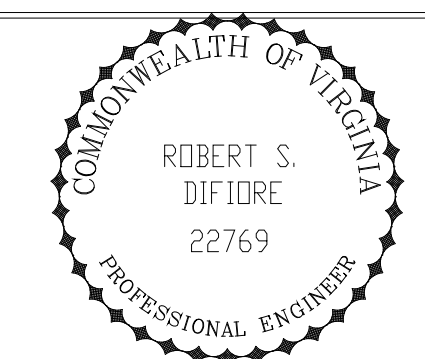


*A BARS ARE ADDITIVE WHEN CALLED FOR ON ADJACENT SPANS
IF BAR SPLICES ARE REQUIRED LOCATE SPLICES FOR TOP BARS IN THE CENTER OF SPAN AND FOR BOTTOM BARS OVER THE SUPPORT

RECORD DRAWING

7	RECORD DRAWING	4-99	MKS
6	WP4.5,6,7/7 CONST.-LAND APP. REDES.	4-96	RSD
5	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD
4	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD
3	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
ND.	ISSUED FOR	DATE	BY

DESIGNED: ETM
DRAWN: BRC
CHECKED:
PROJ. ENGR. AB/RNC
APPROVED:



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Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

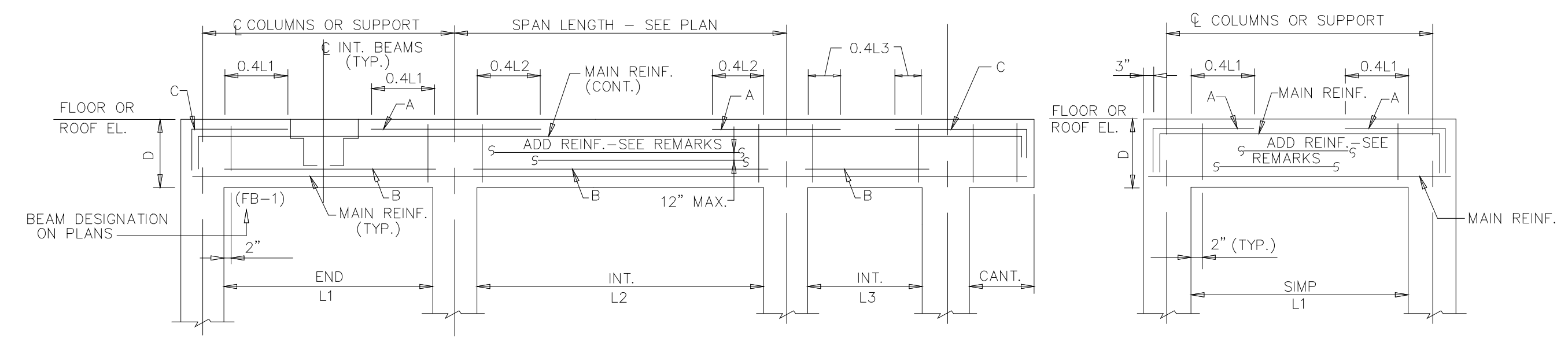
CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
BEAM SCHEDULE AND DETAILS
SHEET - 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-227
	SHEET	87 OF 199

NOTES:
 1 FOR GENERAL NOTES AND STANDARD DETAILS SEE DWGS S-501 AND S-502.

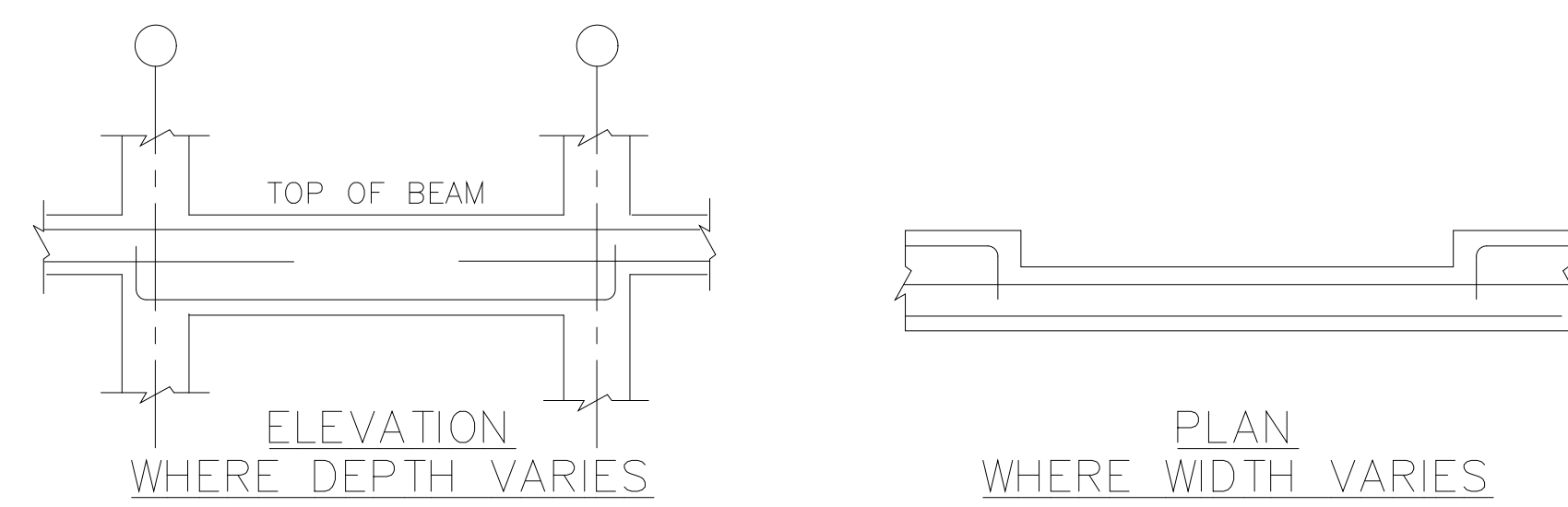
BEAM SCHEDULE

MARK	SPAN TYPE	SIZE		TOP ELEV.	NO REQ'D	MAIN REINF.			ADD REINF.			STIRRUP		REMARKS
		W"	D"			TOP	BOT.	A	B	C	SIZE	SPACING(IN.)		
RB1	END	18	24	82.50	7	3 #7	3 #7	-	-	-	#3	10		
RB2	INT	18	24	82.50	13	3 #7	3 #7	-	-	-	#3	10		
RB3	SIMP	18	24	82.50	4	3 #7	3 #7	-	-	-	#3	10		
RB5	SIMP	18	24	107.50	3	3 #7	3 #7	-	-	-	#3	10	FOR DWLS SEE SECTION C-C,DWG.S-219	
RB6	SIMP	12	16	107.50	3	3 #6	3 #6	-	-	-	#3	6		
RB7	INT	18	24	97.00	4	3 #7	3 #7	-	-	-	#3	10	FOR DWLS SEE SECTION D-D,DWG.S-220	
RB8	END	18	26	97.00	2	3 #7	3 #7	-	-	-	#3	10		
RB9	INT	18	26	97.00	2	3 #7	3 #7	-	-	-	#3	10		
RB10	SIMP	14	18	97.00	3	3 #6	3 #7	-	-	-	#3	8		
RB11	INT	18	24	97.00	6	3 #7	3 #7	-	-	-	#3	10	FOR DWLS SEE SECTION B-B,DWG.S-218	
RB12	END	18	24	97.00	4	3 #7	3 #7	-	-	-	#3	8	FOR DWLS SEE SECTION B-B,DWG.S-218	
RB13	END	18	24	97.00	2	3 #6	3 #6	-	-	-	#3	10		
RB14	END	18	24	97.00	2	3 #6	3 #6	1 #7	-	-	#3	10		
RB15	END	18	24	97.00	2	3 #7	3 #6	-	-	-	#3	10	FOR DWLS SEE SECTION D-D,DWG.S-220	
RB16	END	18	24	97.00	4	3 #7	3 #7	-	-	-	#3	8		
RB17	END	18	30	106.46	4	3 #7	3 #7	1 #8	-	1 #8	#3	10	1#5 HOR.CONT.E.F.ADDL,SEE DET.2.DWG.S-222	
RB18	INT	18	30	106.46	8	3 #7	3 #7	-	1 #8	-	#3	10	1#5 HOR.CONT.E.F.ADDL,SEE DET.2.DWG.S-222	
RB19	END	18	24	106.46	4	3 #6	3 #6	-	-	-	#3	10		
RB21	SIMP	18	24	97.00	1	3 #7	3 #7	-	-	-	#3	10		
RB22	SIMP	18	24	97.00	1	3 #7	3 #7	-	-	-	#3	10		
RB23	SIMP	18	18	92.67	3	3 #7	4 #8	-	-	-	#3	6		
RB24	SIMP	18	18	92.67	2	3 #7	4 #9	-	-	-	#3	6		
RB26	SIMP	18	18	110.58	3	3 #6	3 #6	-	-	-	#3	8		
RB27	END	18	18	110.58	4	3 #6	3 #6	-	-	-	#3	8		
RB28	SIMP	12	16	110.58	1	3 #6	3 #6	-	-	-	#3	6		
IB-1	END	18	24	97.00	6	3 #7	3 #6	-	-	-	#3	8		
IB-2	INT	18	24	97.00	4	3 #7	3 #6	-	-	-	#3	8		
IB-3	END	18	24	97.00	2	3 #7	3 #7	-	-	-	#3	10		
IB-4	SIMP	18	24	97.00	3	3 #7	3 #7	-	-	-	#3	8		
SB-1	SIMP	12	14	VARIES	28	2#6	2#7	-	-	-	#3	6	AT STAIR No 1 AND STAIR No 2	
SB-2	SIMP	18	18	VARIES	13	2#6	2#7	-	-	-	#3	8	AT STAIR No 1	
SB-3	SIMP	18	18	VARIES	10	3#6	3#7	-	-	-	#3	8	AT STAIR No 2	
SB-4	SIMP	12	18	VARIES	19	2#6	2#7	-	-	-	#3	8	AT STAIR No 1 AND STAIR No 2	

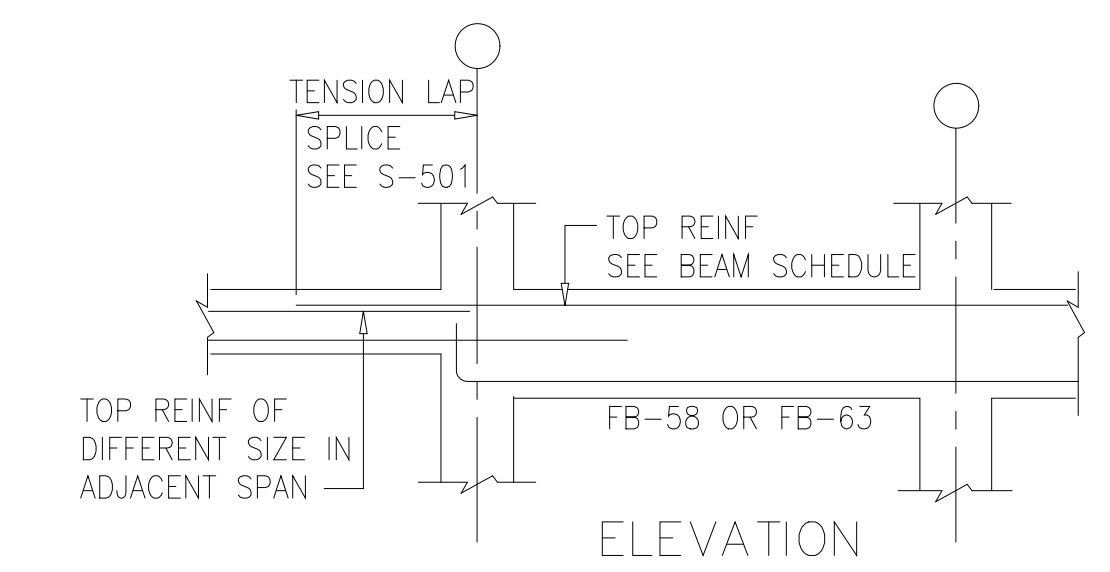


TYPICAL BEAM ELEVATION
N.T.S.

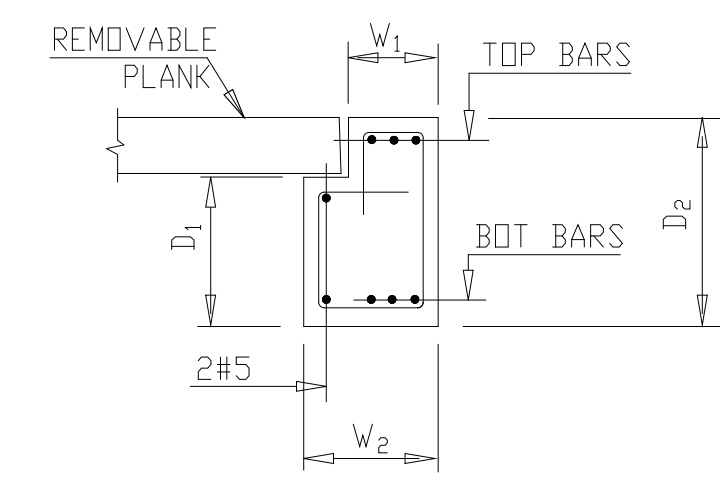
'A' BARS ARE ADDITIVE WHEN CALLED FOR ON ADJACENT SPANS IF BAR SPLICES ARE REQUIRED LOCATE SPLICES FOR TOP BARS IN THE CENTER OF SPAN AND FOR BOTTOM BARS OVER THE SUPPORT



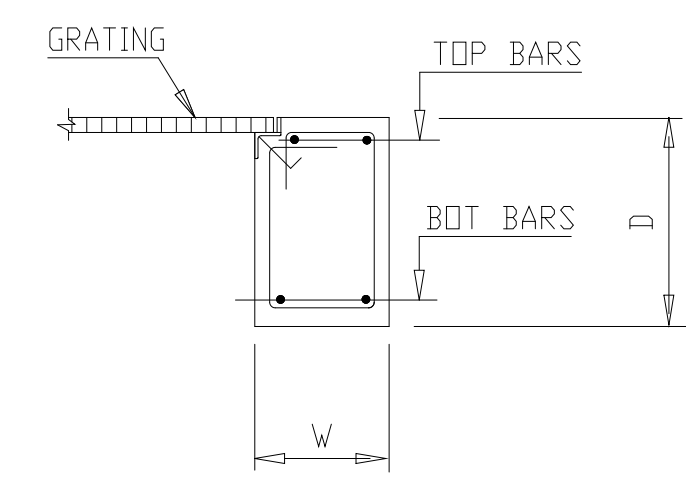
REINFORCEMENT FOR BEAM WITH VARIED WIDTH AND/OR DEPTH
N.T.S.



REINFORCEMENT FOR BEAMS WITH VARIED TOP REINFORCING
N.T.S.



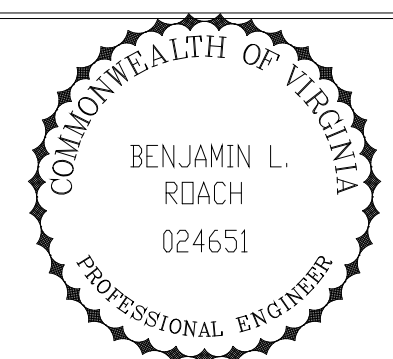
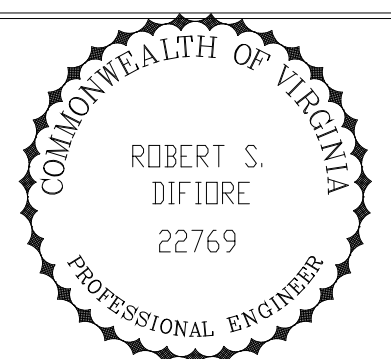
BEAM W/ SEAT FOR PLANKS
N.T.S.



BEAM W/ GRATING SUPPORT
N.T.S.

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	



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 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

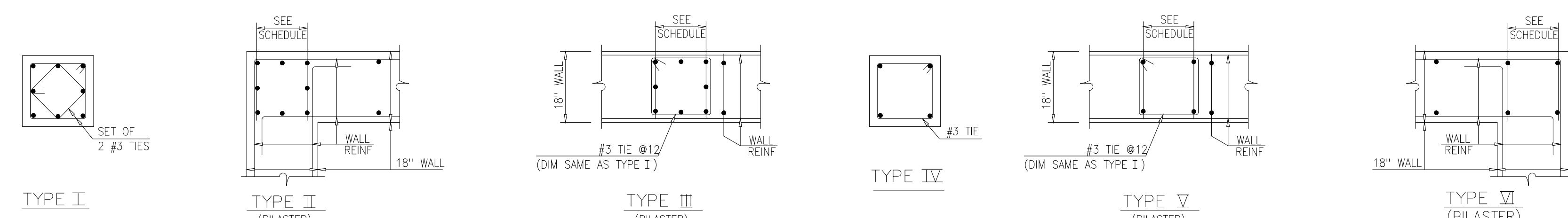
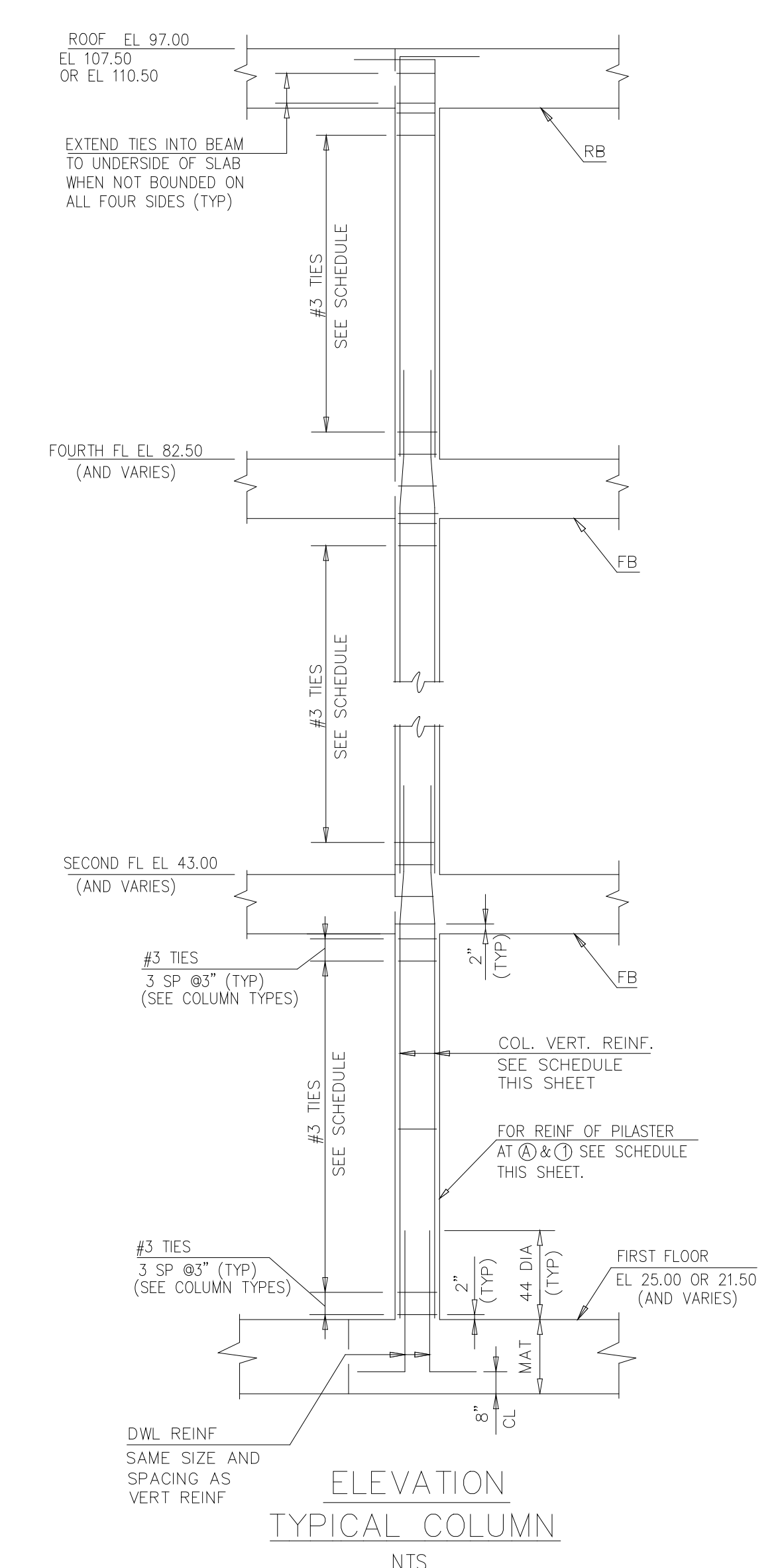
DEWATERING BUILDING
 STRUCTURAL
 BEAM SCHEDULE AND DETAILS
 SHEET - 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-228
	SHEET	88 OF 199

PLOT DATE: 09/24/94 09:28 AM FILE: H:\ARL\DWG\08B-228B.DWG BY: MITS JEST FILE: NINE

COLUMN SCHEDULE

COLUMN LOC.	ELEVATION	DESIGN	A-1 A-2 A-3	A-4 A-5	A-6	B-1 C-1 D-1	B-2 C-2	D-2	E-2	B-3 C-3	B-4 C-5 B-5 C-4 D-5 B-6 D-4 C-6 D-3 D-6	E-0.4 F-0.4 E.5-0.4 E.5-1	E-3 E-4 E-5 E-6	E-7 E-1 G-3 F-7 F-1 G-4 G-7 G-1 G-5 G-2 G-6	F-6	A.5-4 A.5-5 A.5-6	Ao-5 Ab-5	F-3 F-4 F-5	F-2	D.7-0.4 D.7-1
ROOF OR FLOOR																				
ELEVATOR ROOF	EL 110.58																			
HIGH ROOF	EL 106.50	SIZE: BxD VERT. BARS TIES TYPE		18x18 8#8 #3@12 I	18x18 8#8 #3@12 I											18x18 8#8 #3@12 I				
ELEVATOR MACHINE ROOM FLOOR	EL 100.50	SIZE: BxD VERT. BARS TIES TYPE							18x18 8#9 #3@12 I				18x18 4#9 #3@12 IV	18x18 8#9 #3@12 I	18x18 8#9 #3@12 I					
LOW ROOF	EL 97.00	SIZE: BxD VERT. BARS TIES TYPE		18x18 8#8 #3@12 I	18x18 8#8 #3@12 I															
FOURTH FLOOR	EL 82.50	SIZE: BxD VERT. BARS TIES TYPE						18x18 8#9 #3@12 I				18x18 8#9 #3@12 I		18x18 8#9 #3@12 I						
THIRD FLOOR	EL 66.00	SIZE: BxD VERT. BARS TIES TYPE	18x18 8#9 #3@12 I	18x18 8#9 #3@12 I	18x18 8#9 #3@12 I	18x18 8#9 #3@12 I	18x18 8#9 #3@12 I	18x18 8#10 #3@12 I	18x18 8#10 #3@12 I	18x18 8#9 #3@12 I	18x18 8#10 #3@12 I	18x18 8#9 #3@12 I	18x18 8#10 #3@12 I	18x18 8#10 #3@12 I	18x18 8#10 #3@12 I	18x18 8#9 #3@12 I	18x18 8#10 #3@12 I	18x18 8#10 #3@12 I	18x18 8#10 #3@12 I	
SECOND FLOOR	EL 43.00	SIZE: BxD VERT. BARS TIES TYPE	18x18 8#9 #3@12 I	18x18 8#9 #3@12 I	18x18 8#9 #3@12 I	18x18 8#10 #3@12 I	18x18 8#9 #3@12 I	18x18 8#11 #3@12 I	18x18 8#11 #3@12 I	18x18 8#9 #3@12 I	18x18 8#11 #3@12 I	18x18 8#9 #3@12 I	18x18 8#11 #3@12 I	18x18 8#10 #3@12 I	18x18 8#10 #3@12 I	18x18 8#9 #3@12 I	22x22 8#10 #3@12 I	22x22 8#10 #3@12 I	18x18 4#9 #3@12 IV	
GROUND FLOOR	EL 25.00 (U.N.O.)	SIZE: BxD VERT. BARS DOWELS TIES TYPE	18x18 8#9 #3@12 *	18x18 8#9 #3@12 III	18x18 8#9 #3@12 III	18x18 8#10 #3@12 III	18x18 8#11 #3@12 I	18x18 8#11 #3@12 I	18x18 8#11 #3@12 I	18x18 8#11 #3@12 I	18x18 8#11 #3@12 I	18x18 8#9 #3@12 *	18x18 8#11 #3@12 I	18x18 8#10 #3@12 *	18x18 8#10 #3@12 I	18x18 8#9 #3@12 I	EL 32.67 22x22 8#10 #3@12 I	22x22 8#10 #3@12 I	18x18 4#9 #3@12 IV	
	EL 22.00 (U.N.O.)	DOWELS																		
	EL 18.00 (U.N.O.)	REMARKS	*A-1 TYPE II *A-2,3, TYPE III																	
	EL 15.00 (U.N.O.)	REMARKS																		
			SEE COLUMN TYPE BELOW																	



RECORD DRAWING

9	RECORD DRAWING	4-99	MKS				
8	WP4.5,6,7 CONST.-LAND APP. REDES.	4-96	RSD				
7	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD				
6	WP3 CONST.-LAND APP. REDES.	3-96	RSD				
5	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD				
4	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD				
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD				
2	CONSTRUCTION	9-94	JJB				
1	REGULATORY APPROVAL	9-94	JJB				
NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY

DESIGNED: ETM
DRAWN: BRC
CHECKED:
PRJ. ENGR.: AB/RNC

APPROVED:

COMMONWEALTH OF VIRGINIA
ROBERT S. DIFIORE
22769
PROFESSIONAL ENGINEER

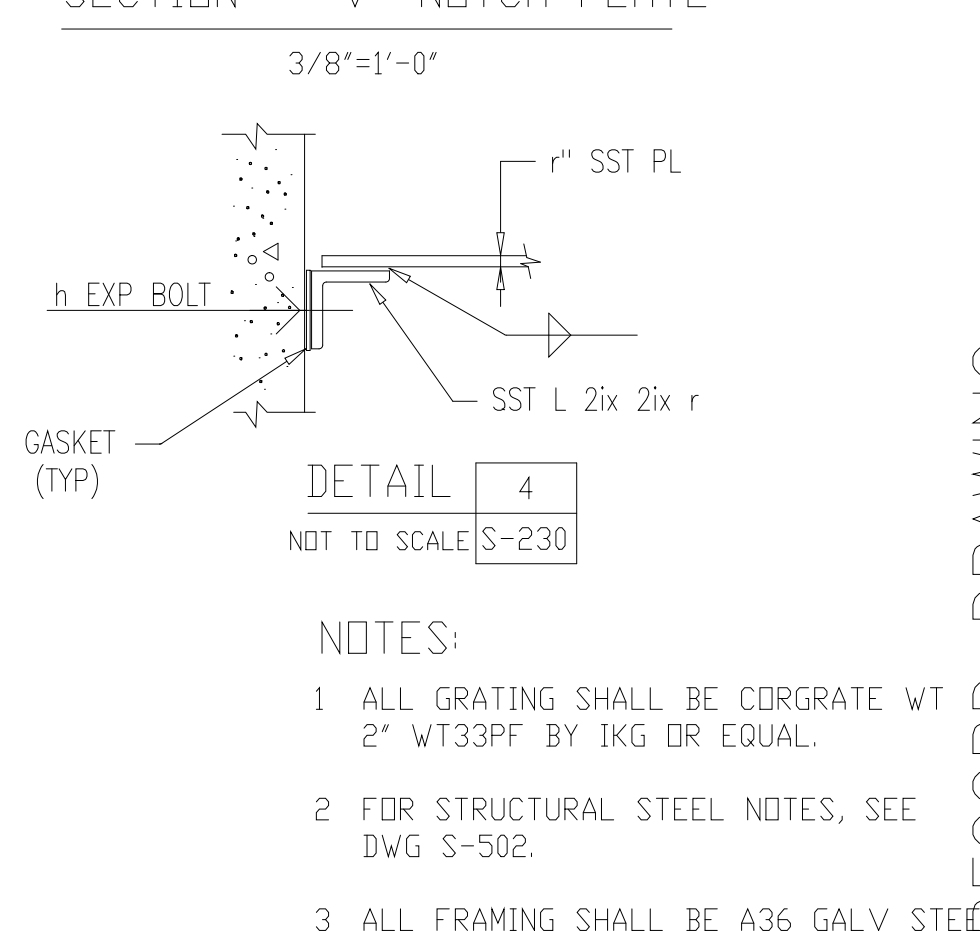
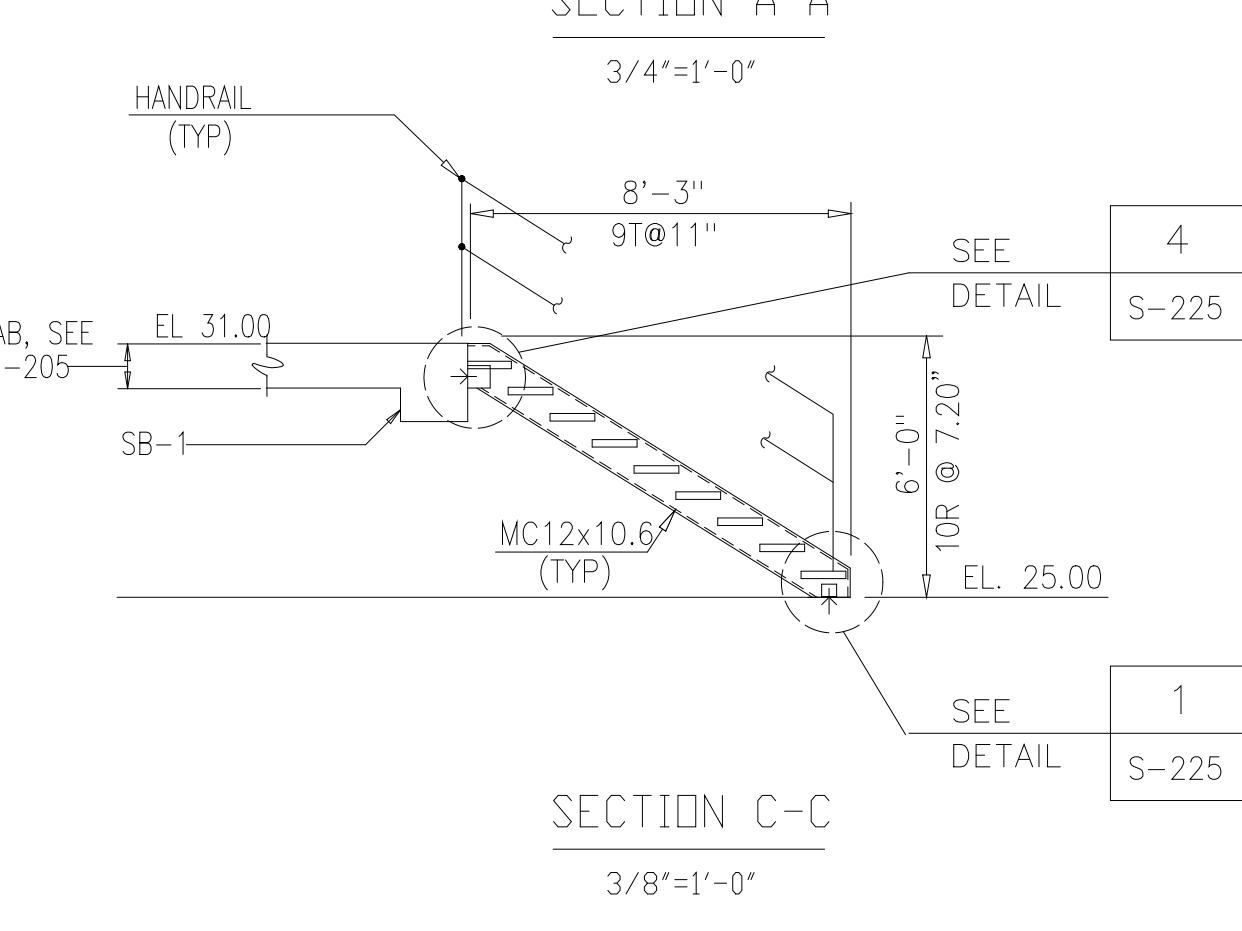
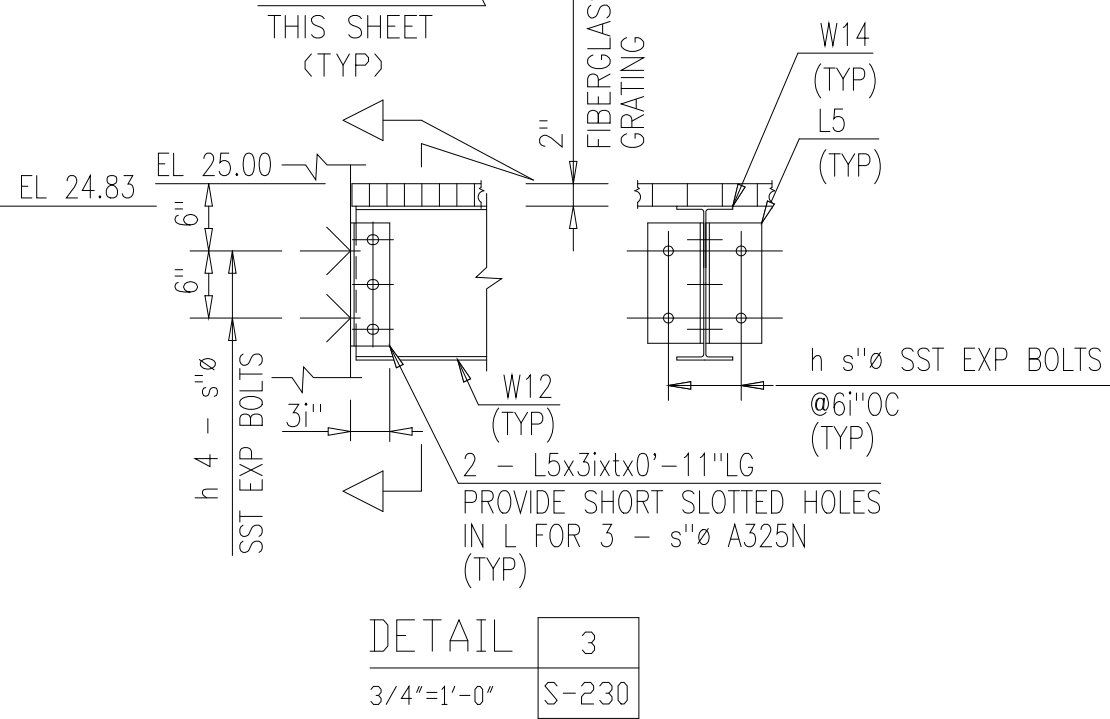
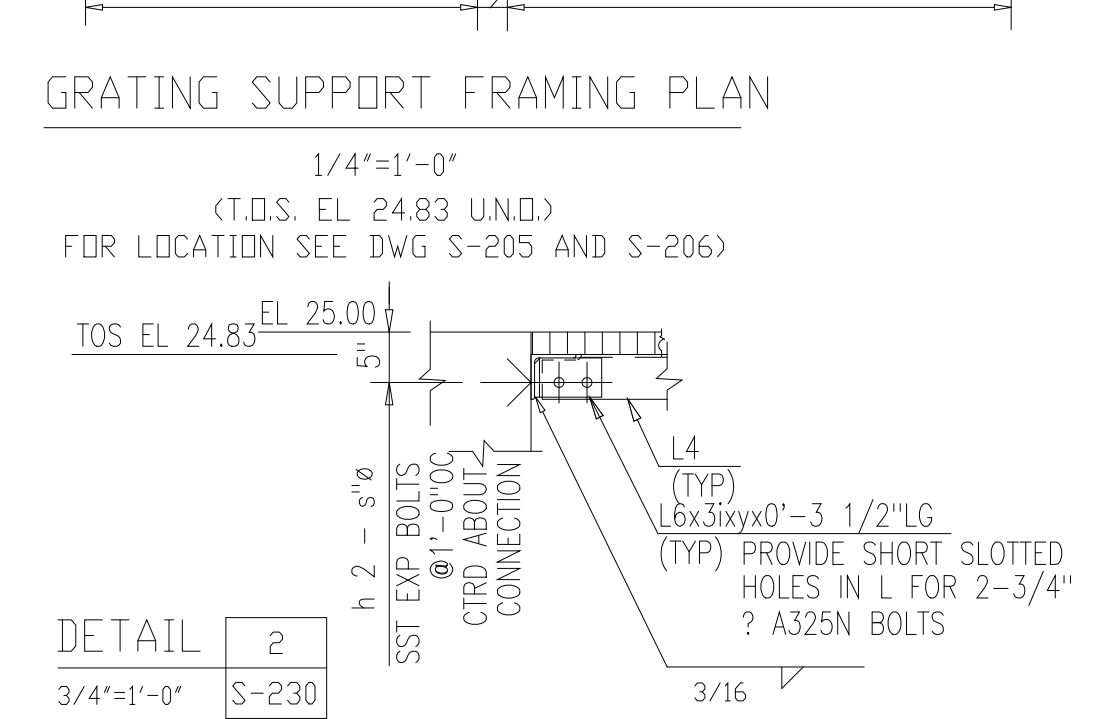
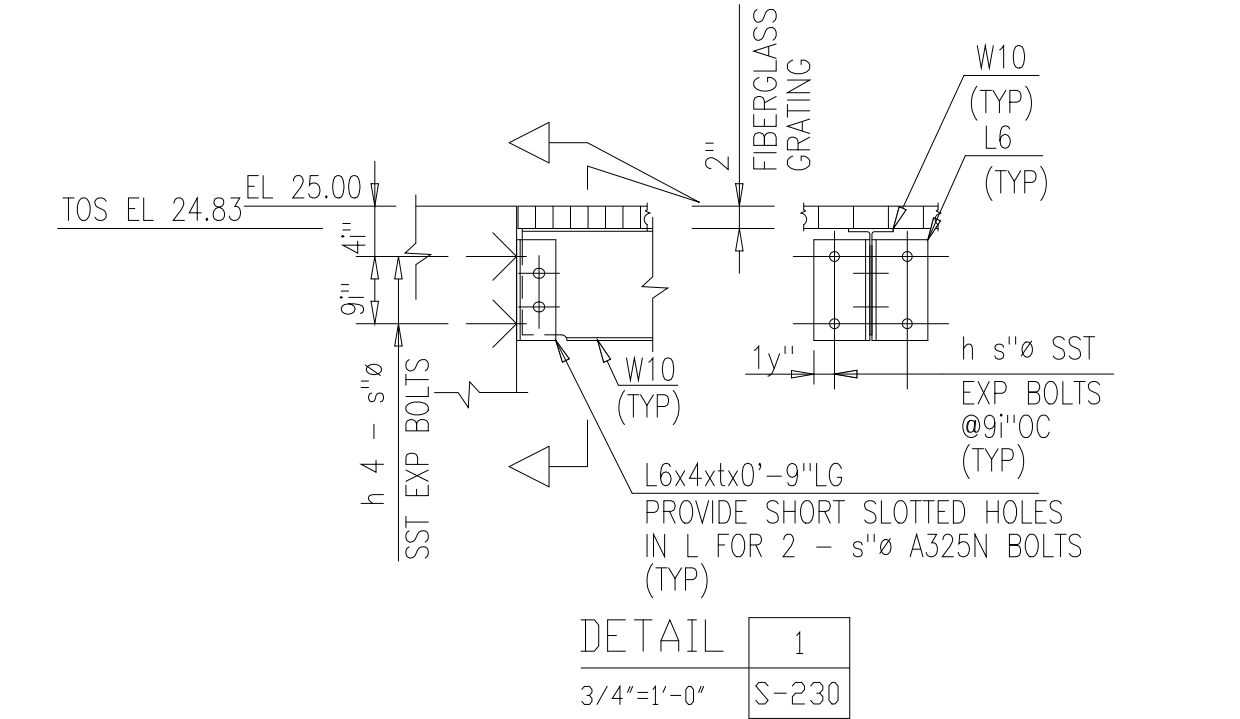
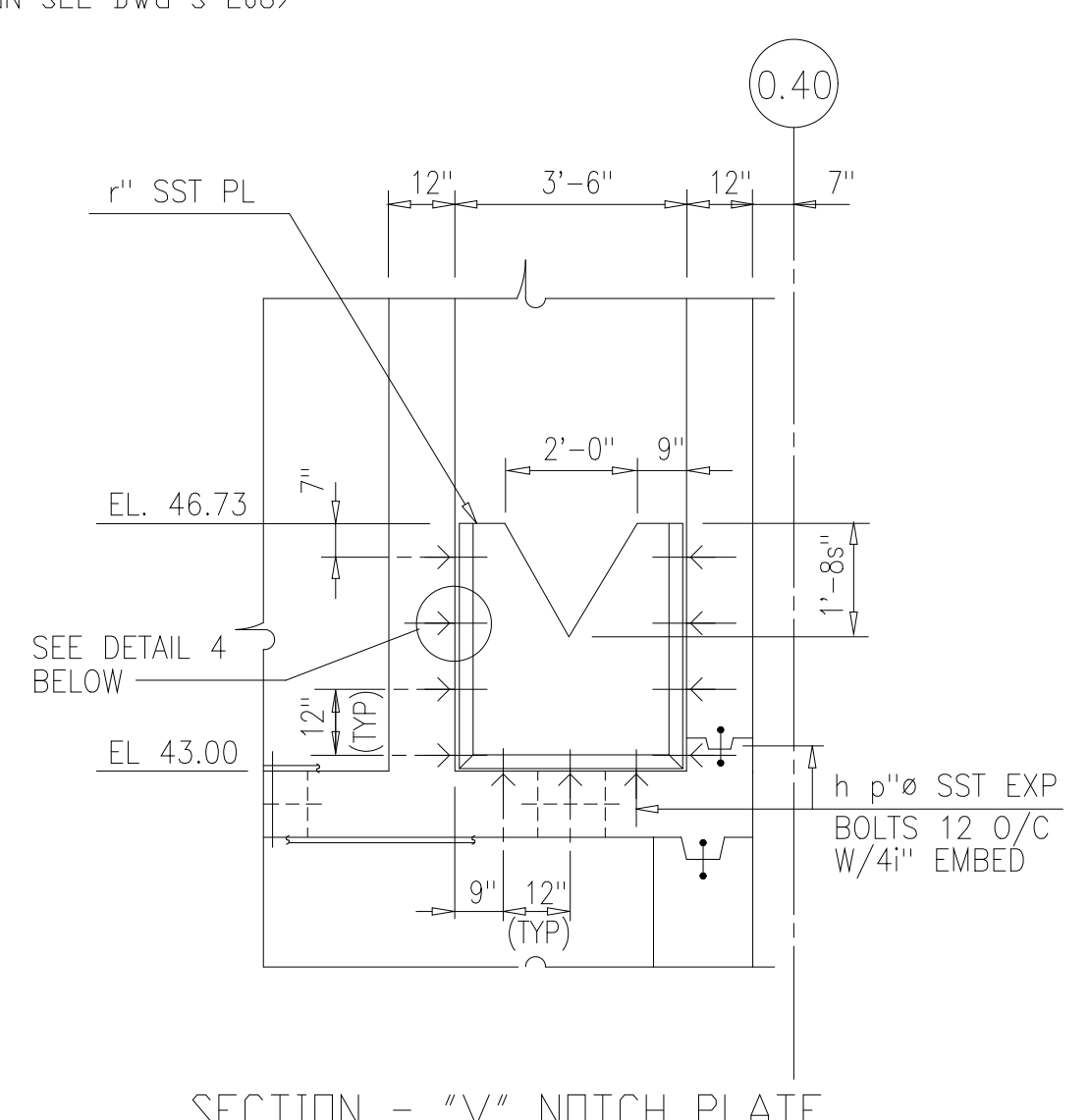
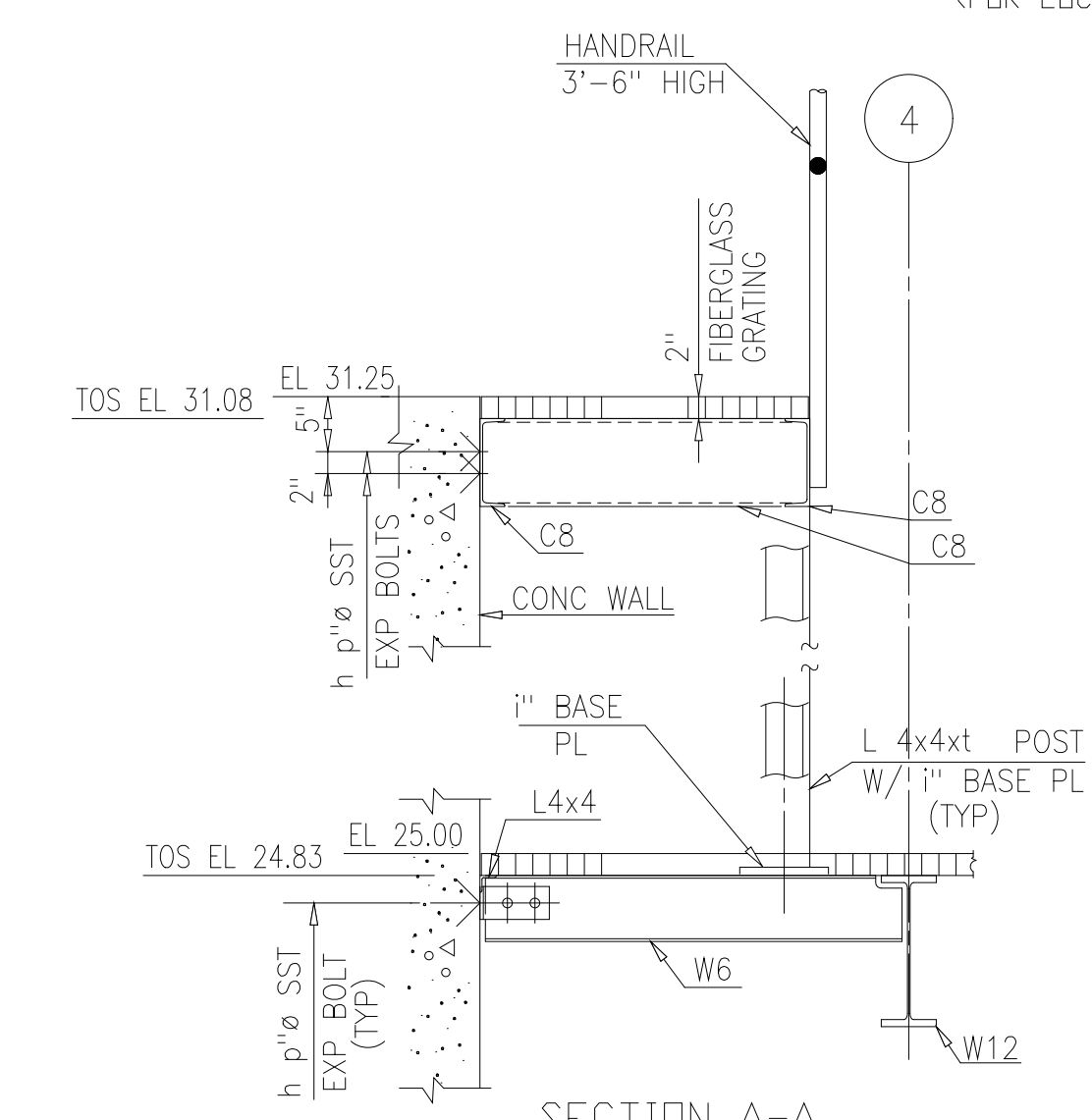
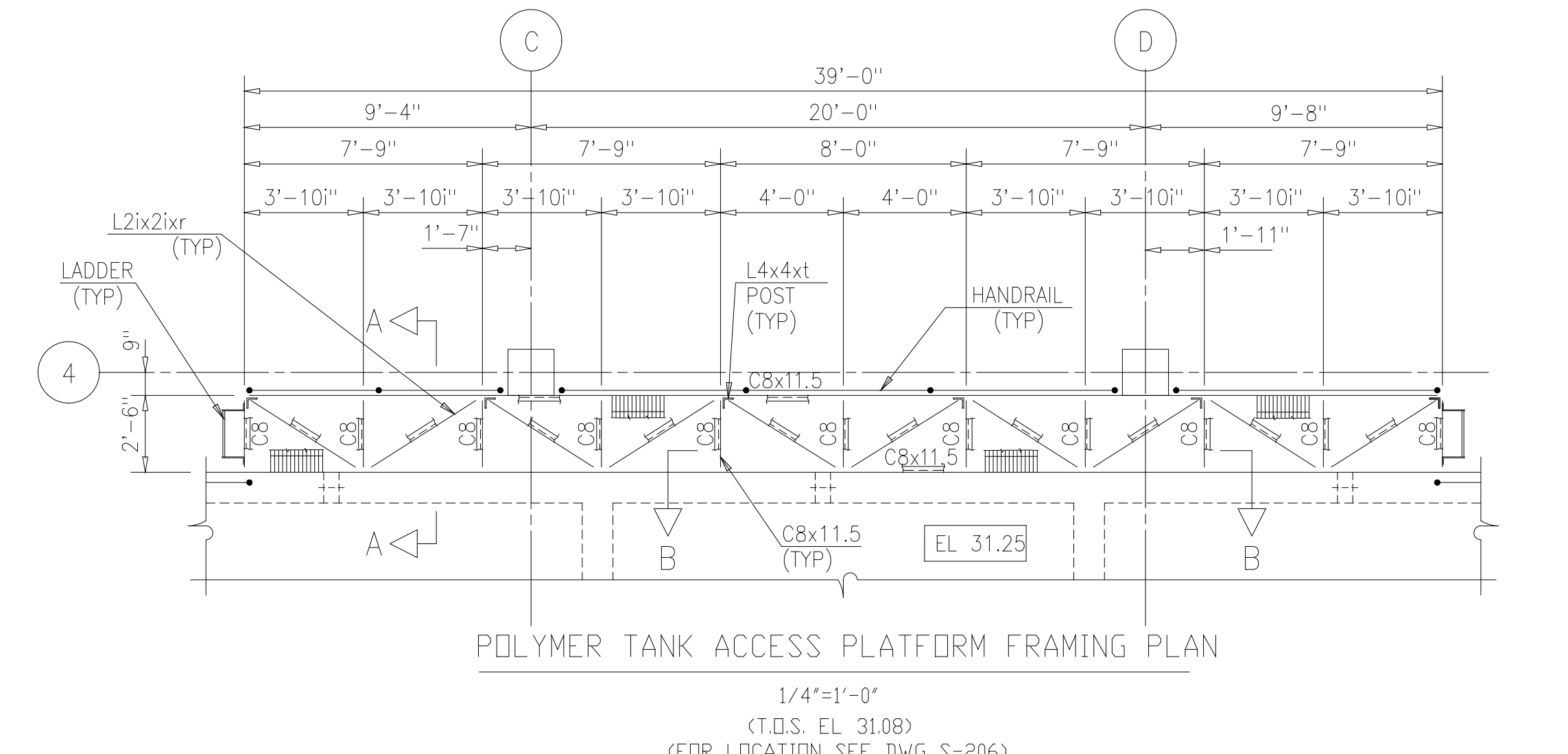
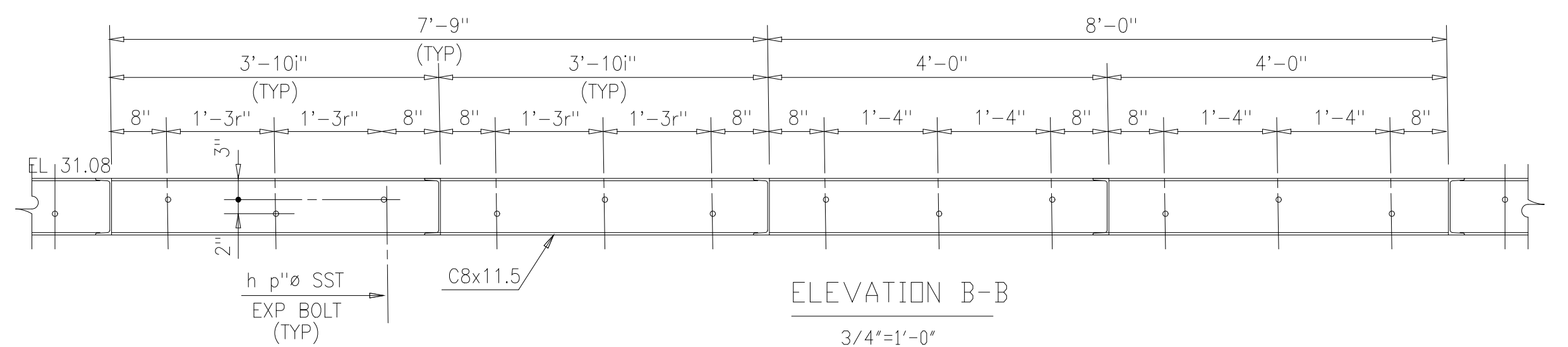
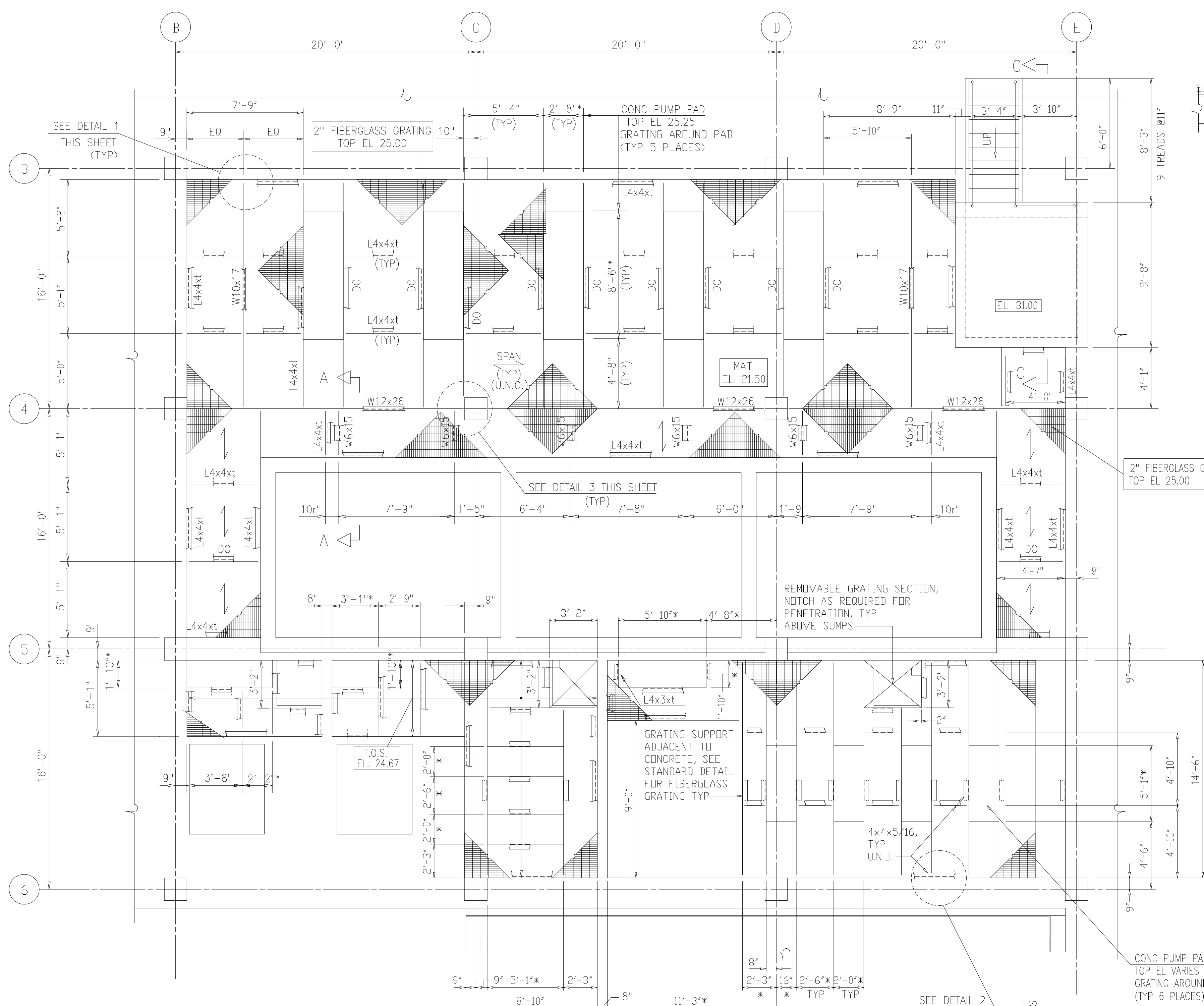
COMMONWEALTH OF VIRGINIA
BENJAMIN L. RDACH
024651
PROFESSIONAL ENGINEER

HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
COLUMN SCHEDULE AND DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
H & S JOB NUMBER	2843
CONTRACT NUMBER	DRAWING NUMBER
93-02-WPC	S-229
SHEET 89	OF 199



NOTES:
 1 ALL GRATING SHALL BE CORGRATE WT 2" WT33PF BY IKG OR EQUAL.
 2 FOR STRUCTURAL STEEL NOTES, SEE DWG S-502.
 3 ALL FRAMING SHALL BE A36 GALV STEEL.

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

ROBERT S. DIFIORE
22769

BENJAMIN L. ROACH
024651

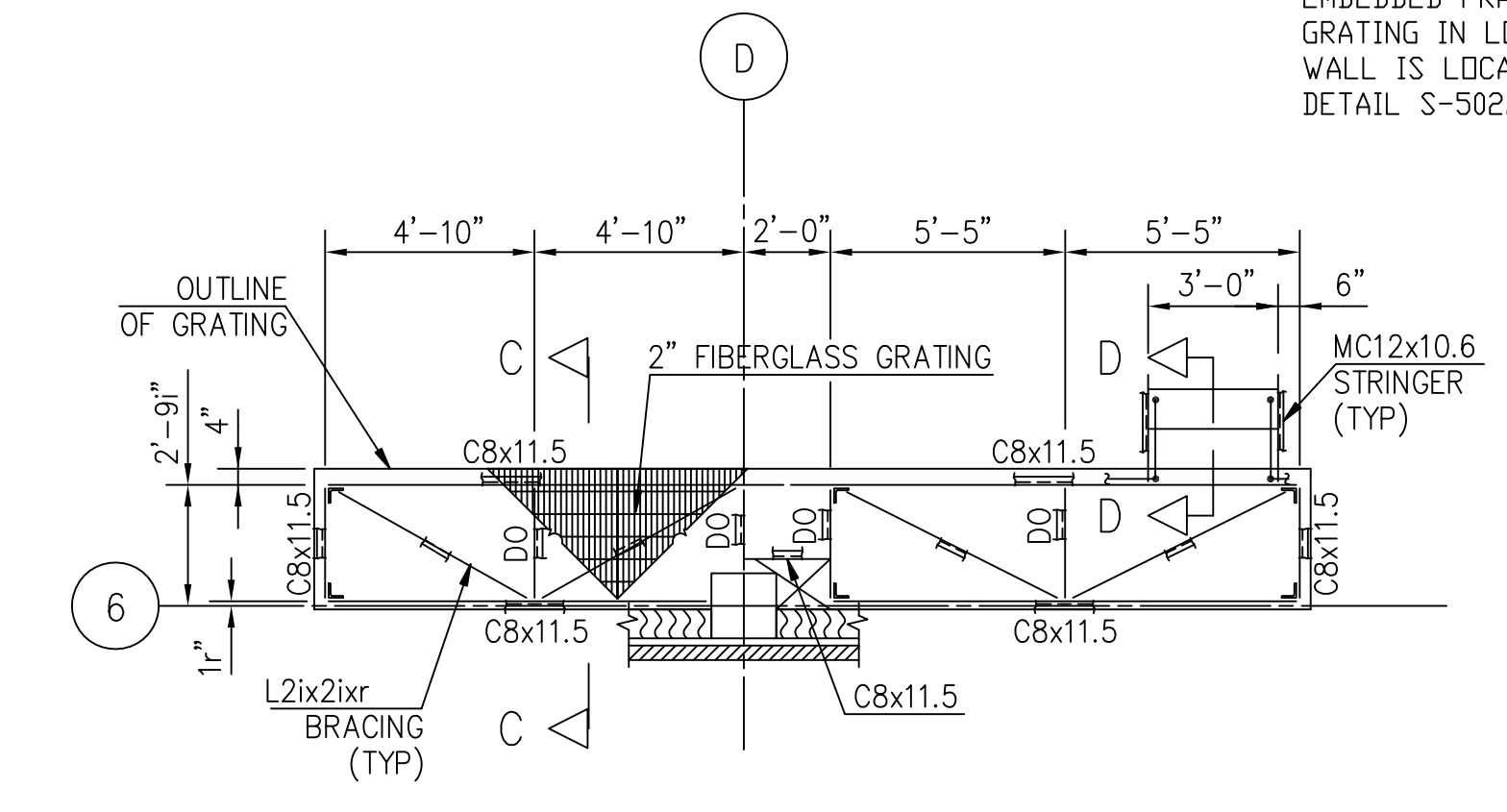
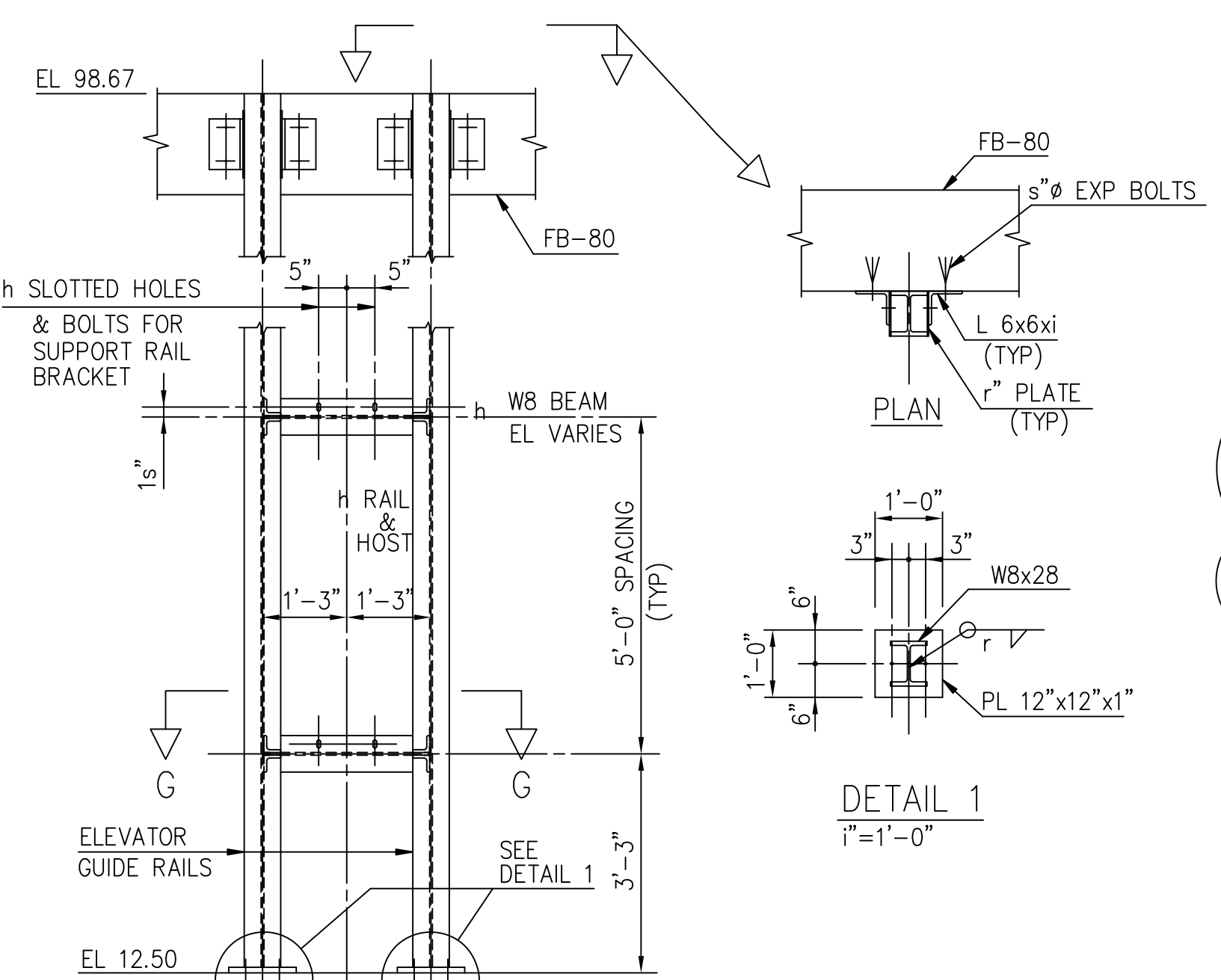
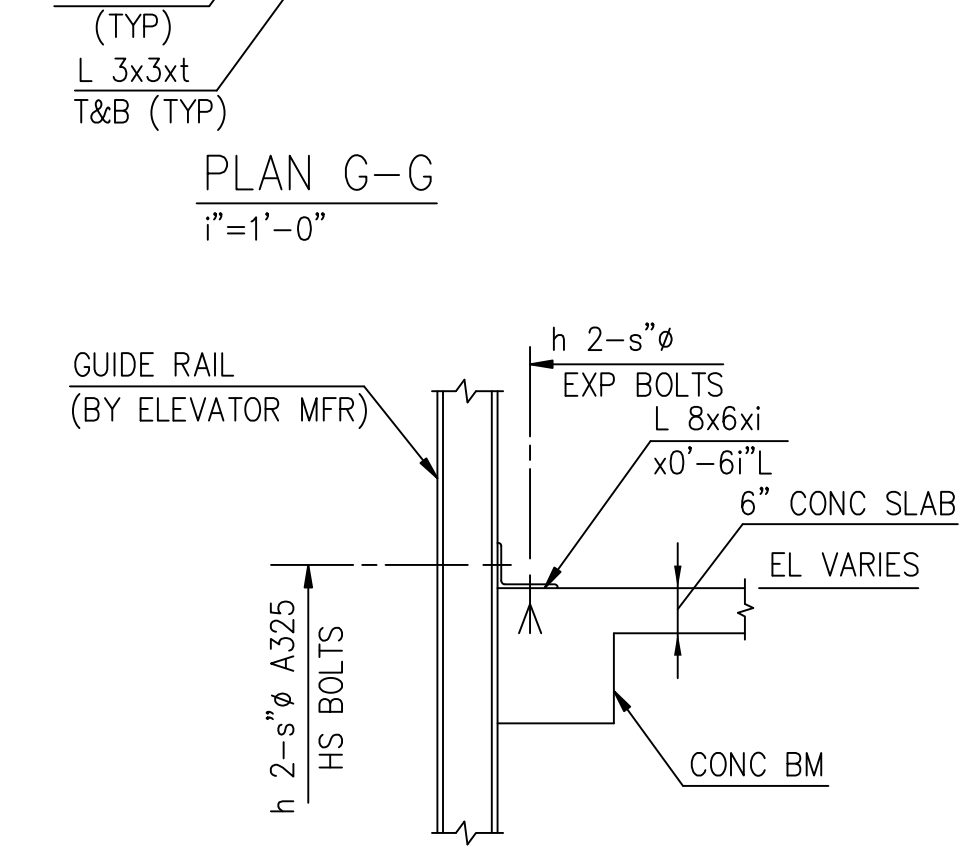
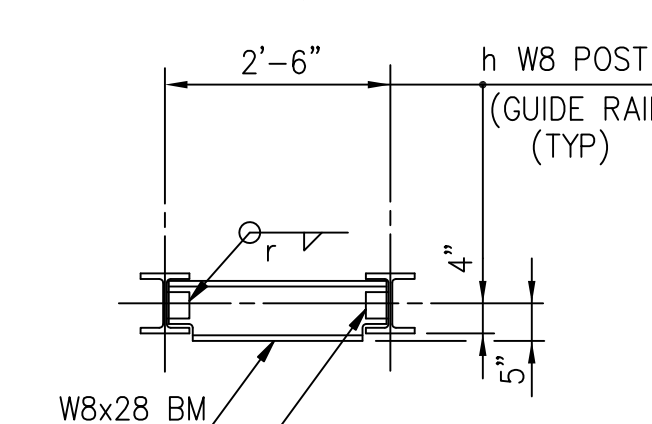
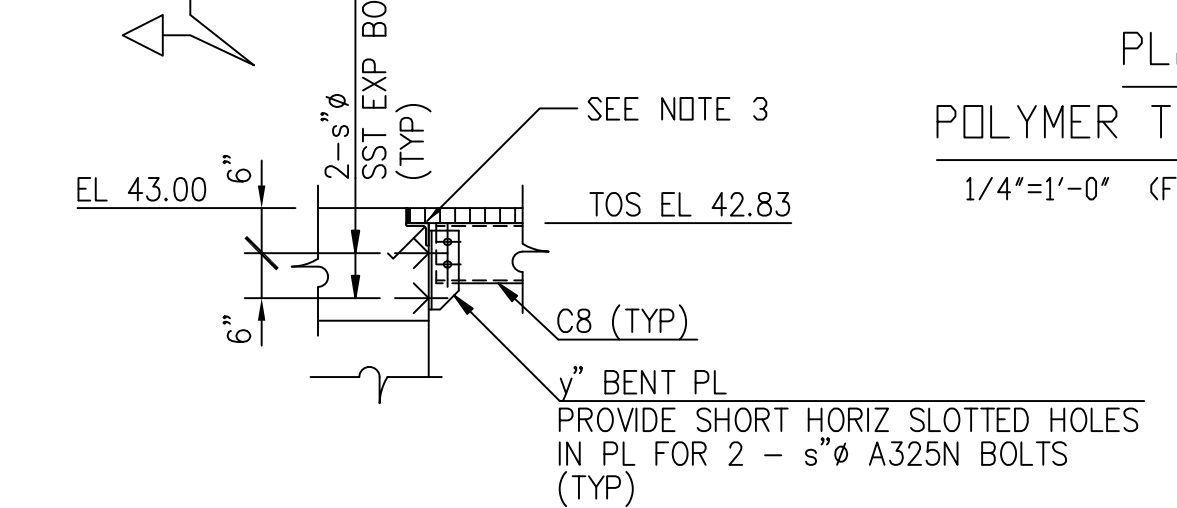
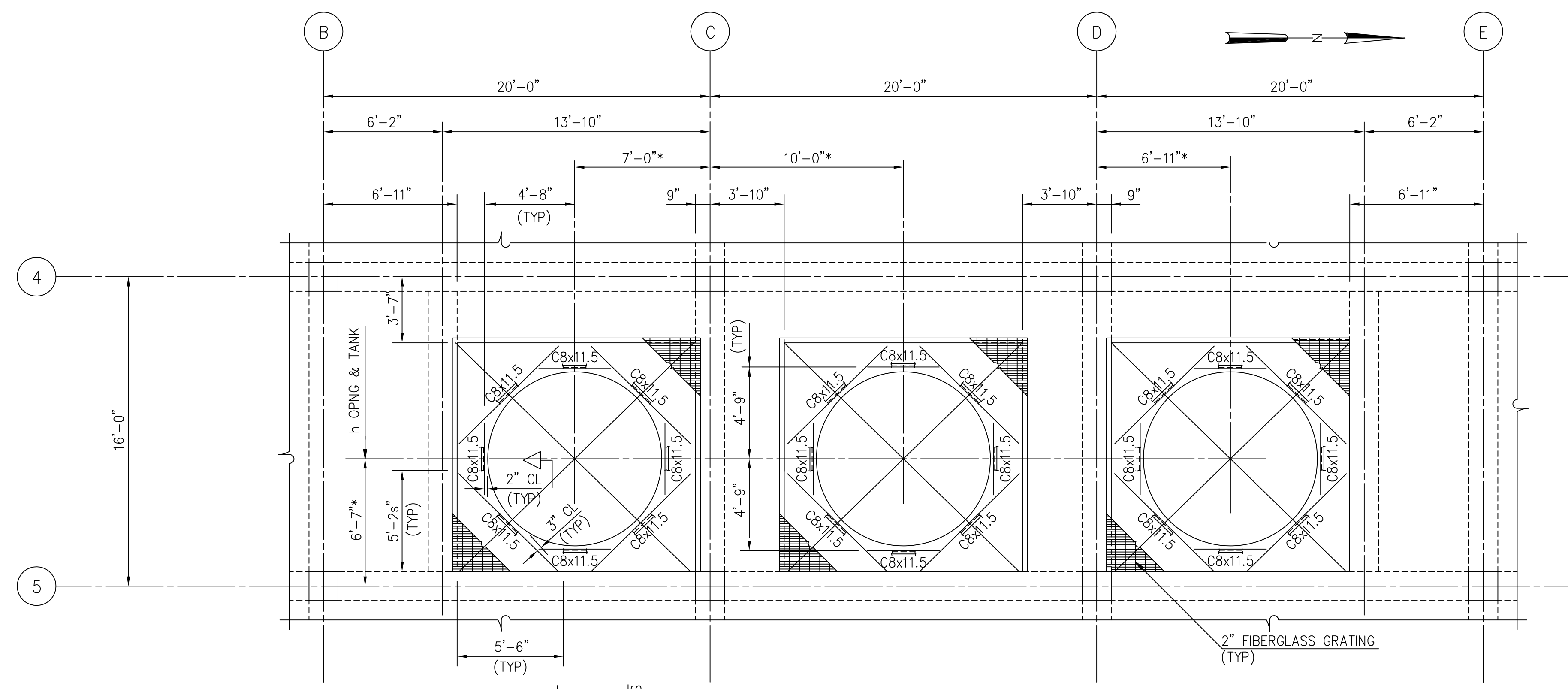
Hazenand Sawyer
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

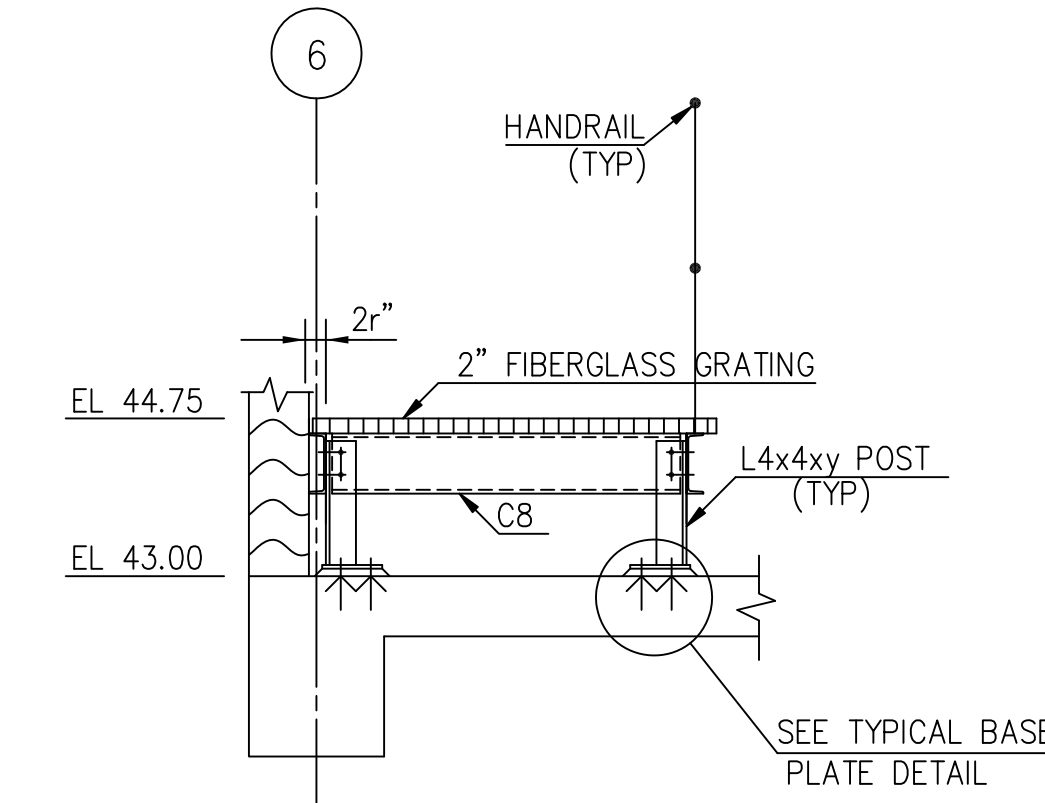
CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
MISCELLANEOUS METALS - SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
H & S JOB NUMBER	2843
CONTRACT NUMBER	DRAWING NUMBER
93-02-WPC	S-230
SHEET 90	OF 199

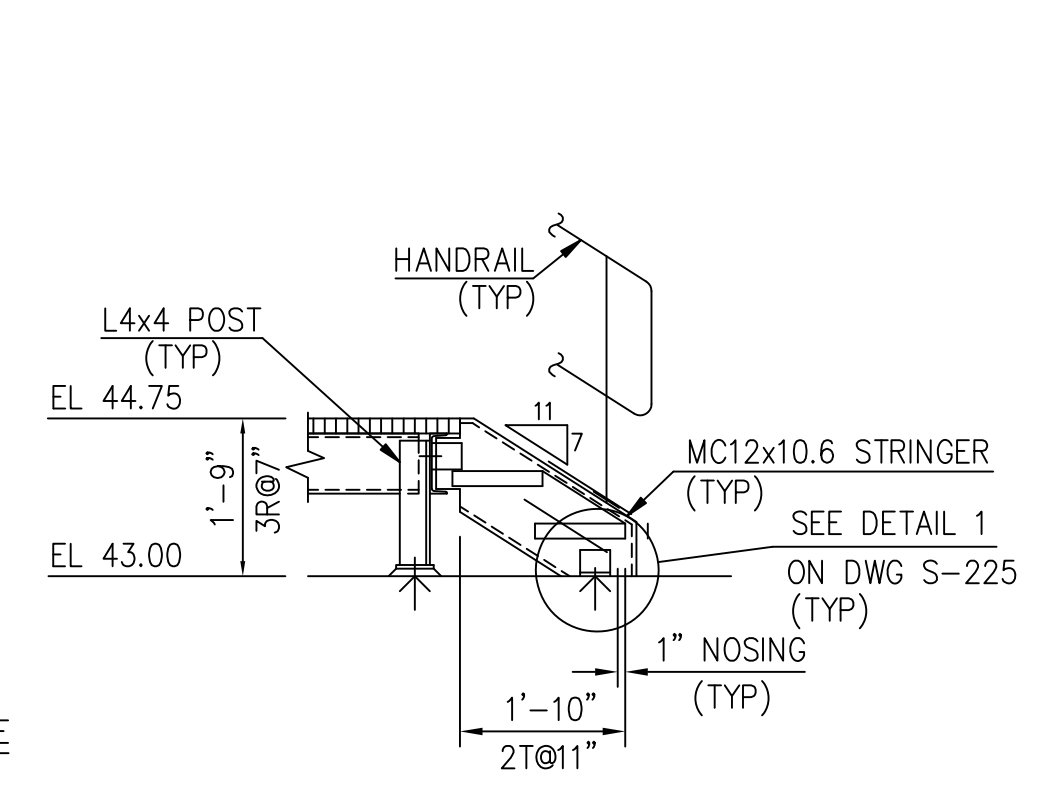
- NOTES:
- 1 ALL GRATING SHALL BE CORGRATE WT 2" WT33PF BY IKG OR EQUAL.
 - 2 ALL FRAMING SHALL BE A36 GALVANIZED STEEL.
 - 3 USE SURFACE MOUNTED ANGLE IN LIEU OF EMBEDDED FRAME SHOWN TO SUPPORT GRATING IN LOCATIONS WHERE MASONRY WALL IS LOCATED ON TOP OF BEAM. SEE DETAIL S-502.



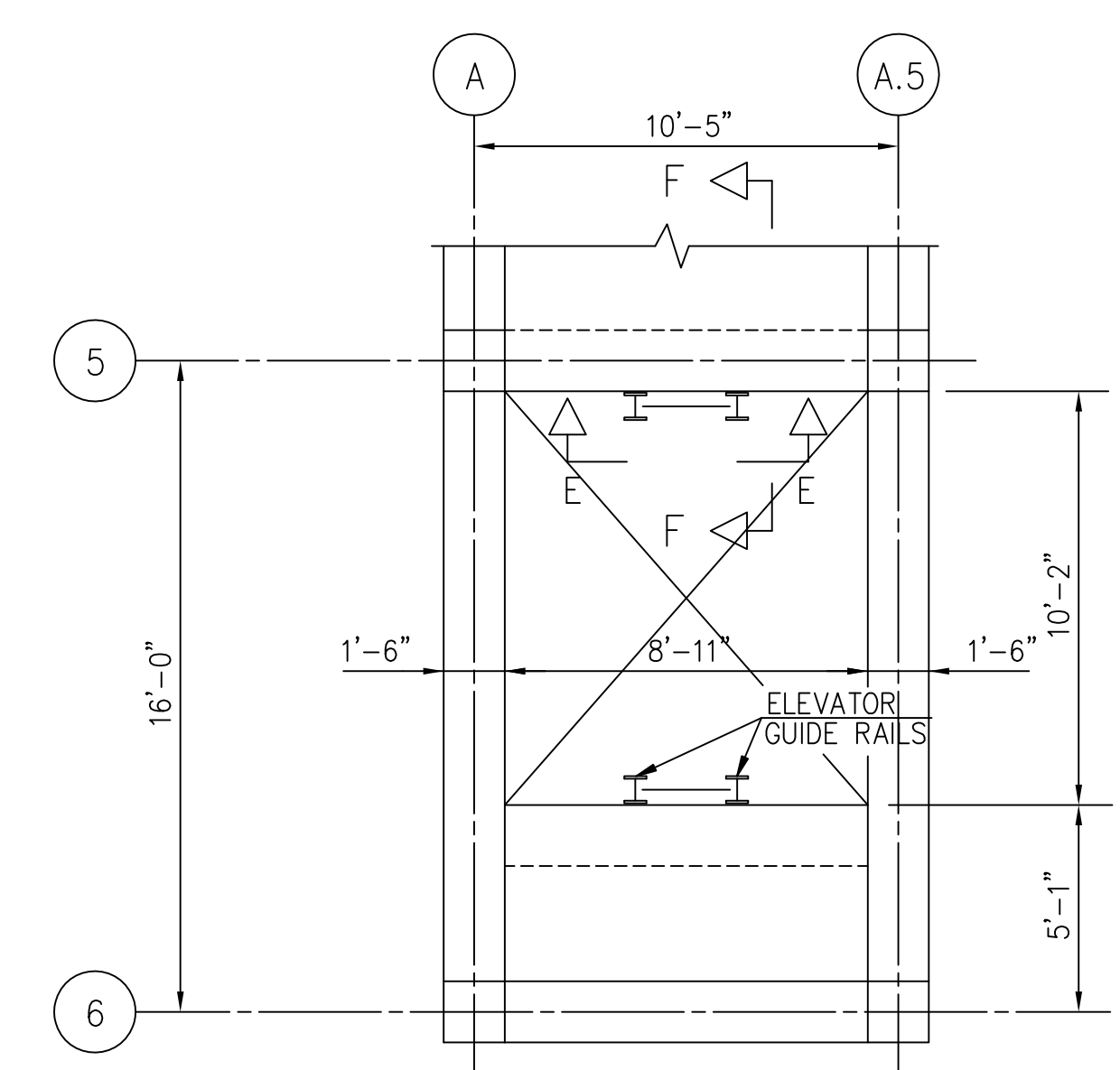
PLAN - EL 44.75
1/4"=1'-0"
(FOR LOCATION SEE DWG S-209)



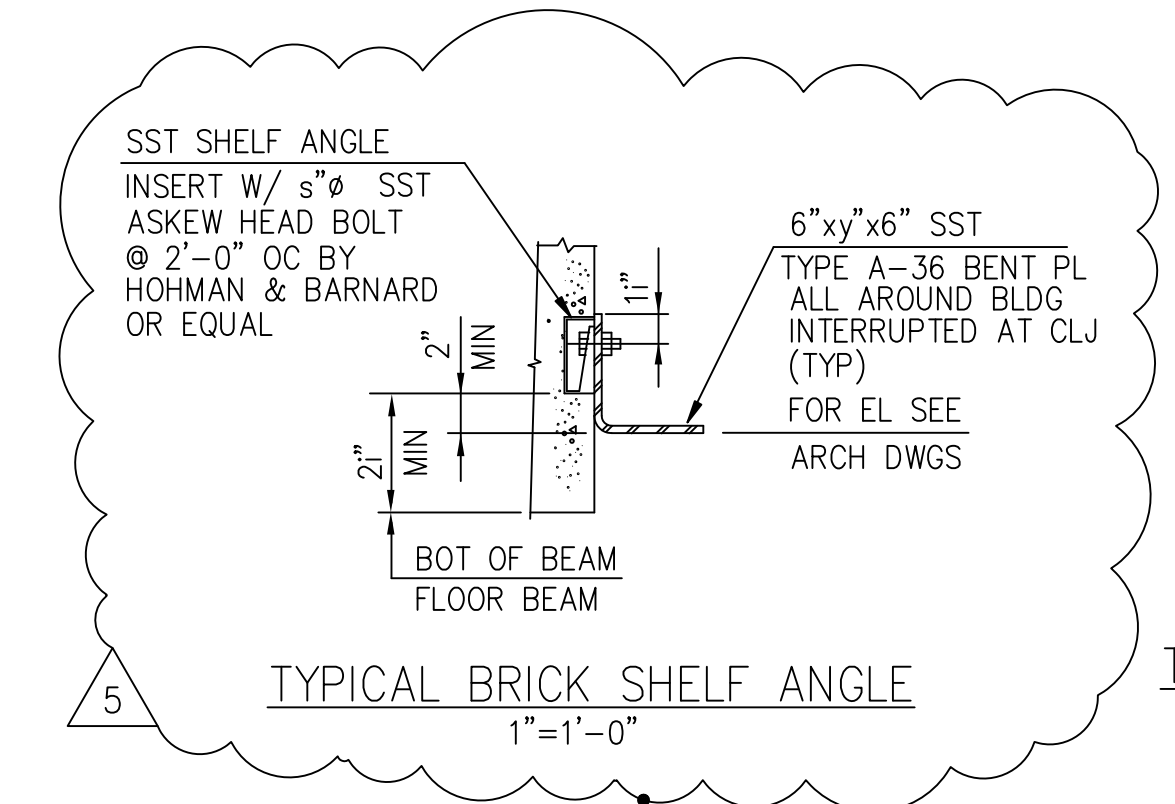
SECTION C-C
1"=1'-0"



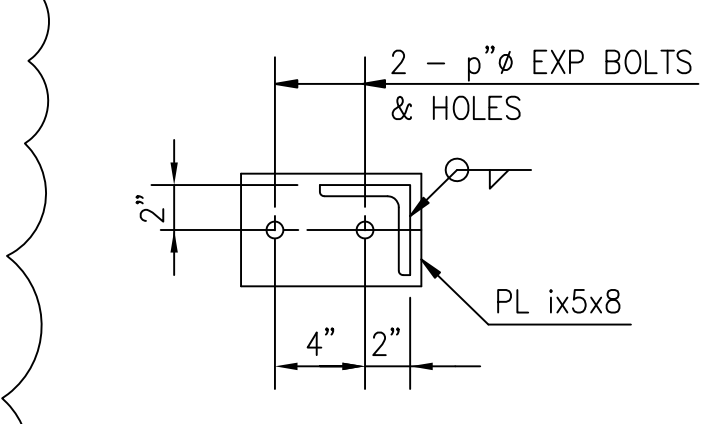
SECTION D-D
1"=1'-0"



ELEVATOR SHAFT PLAN
1"=1'-0"
(FOR LOCATION SEE FLOOR PLANS)



TYPICAL BRICK SHELF ANGLE
1"=1'-0"

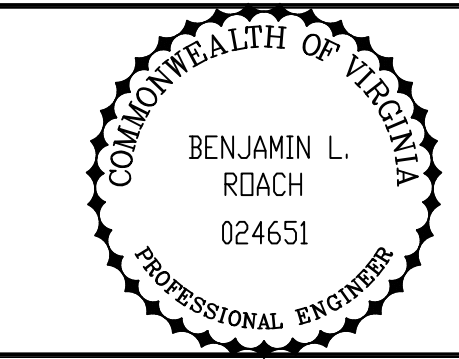
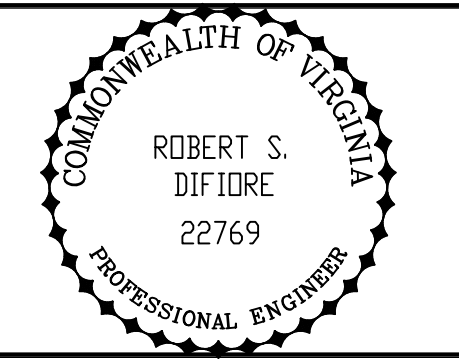


TYPICAL BASE PLATE DETAIL
1"=1'-0"

RECORD DRAWING

PLOT DATE: 08/09/94; FILE: H:\S209\DWG\STRUCT\S-225.DWG; PLOT FILE: S-225.DWG

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
DATE	
BY	
APPROVED	

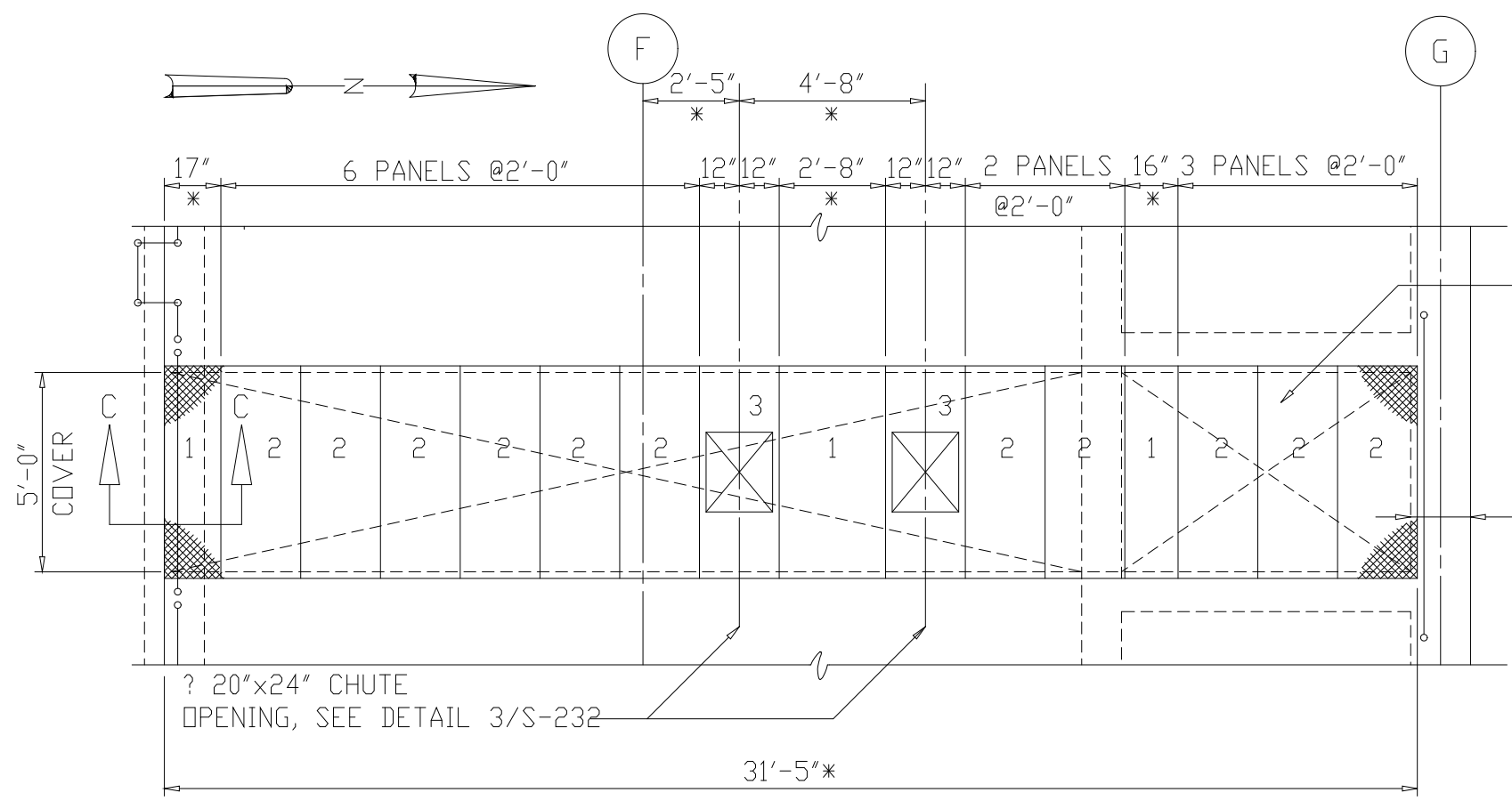
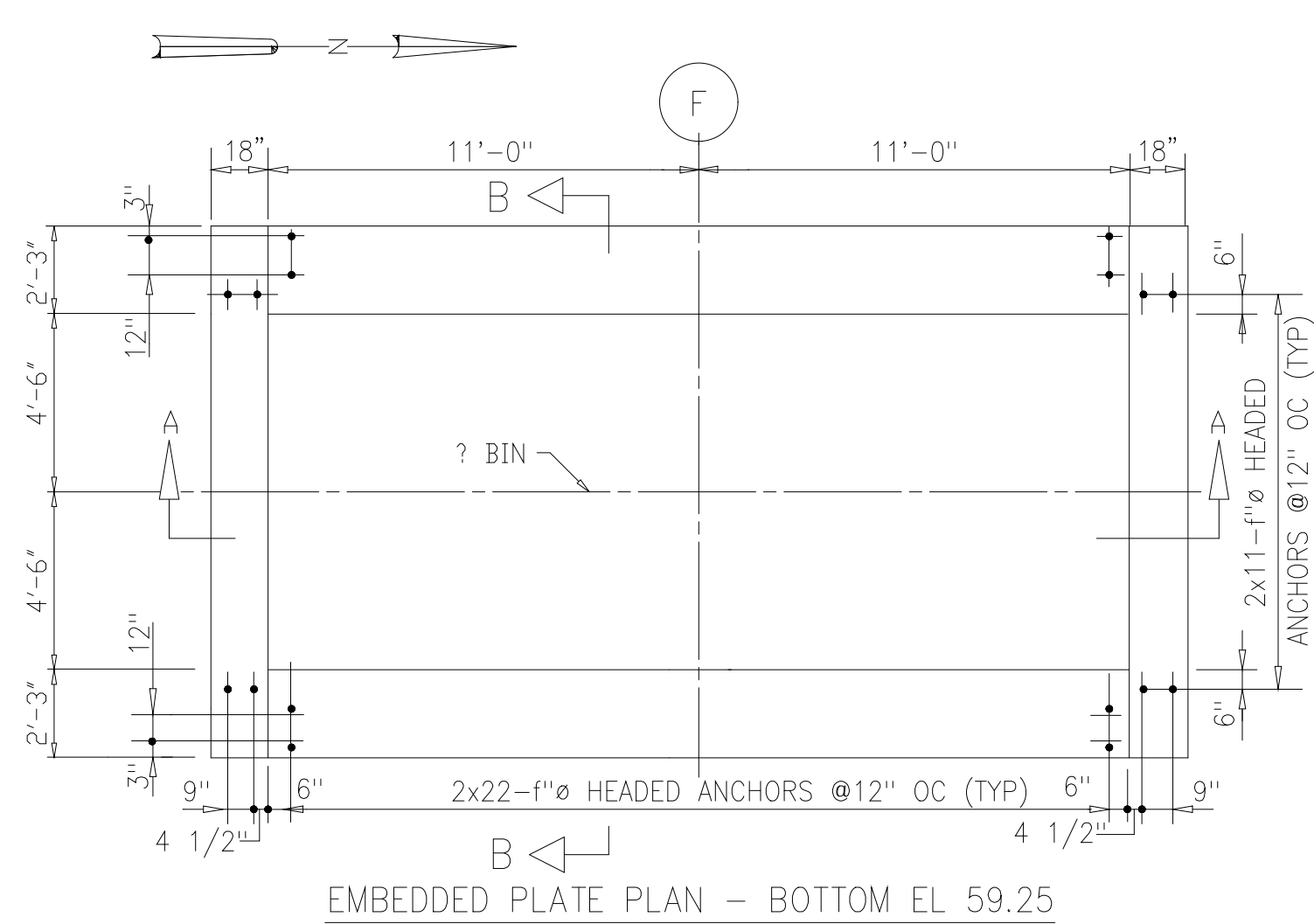


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UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

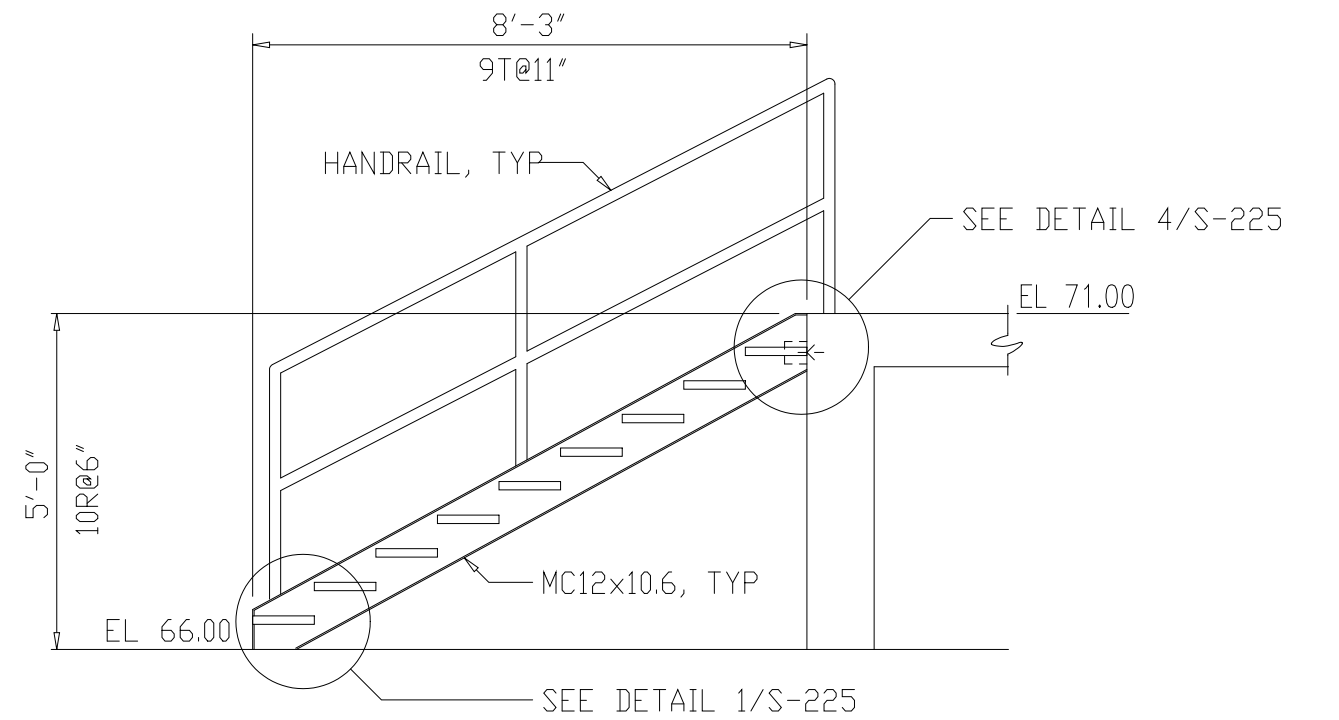
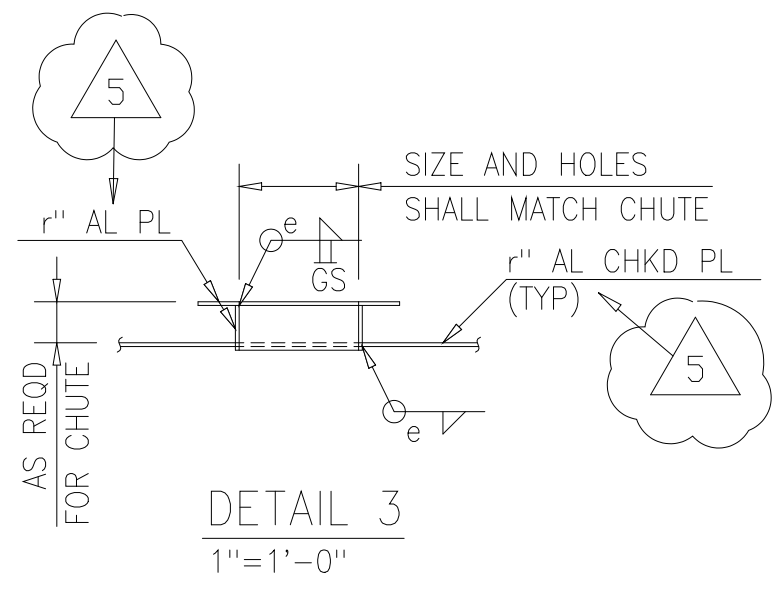
CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
MISCELLANEOUS METALS - SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-231
	SHEET	91 OF 199



PANEL TYPE, TYP SEE
DETAIL 6/S-232

18" WALL BELOW

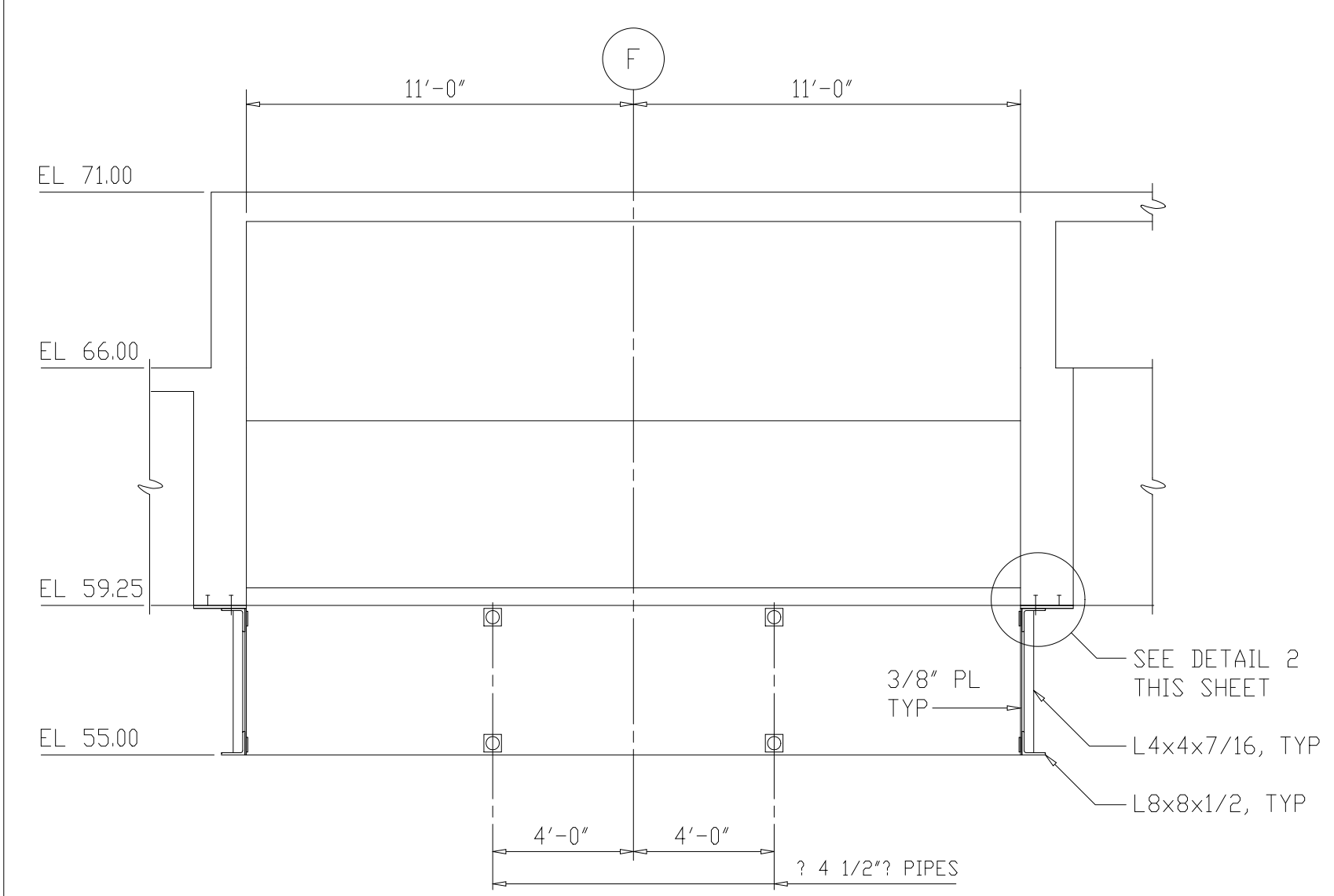


NOTE: STAIR FRAMING SHALL BE GALVANIZED A36 STEEL

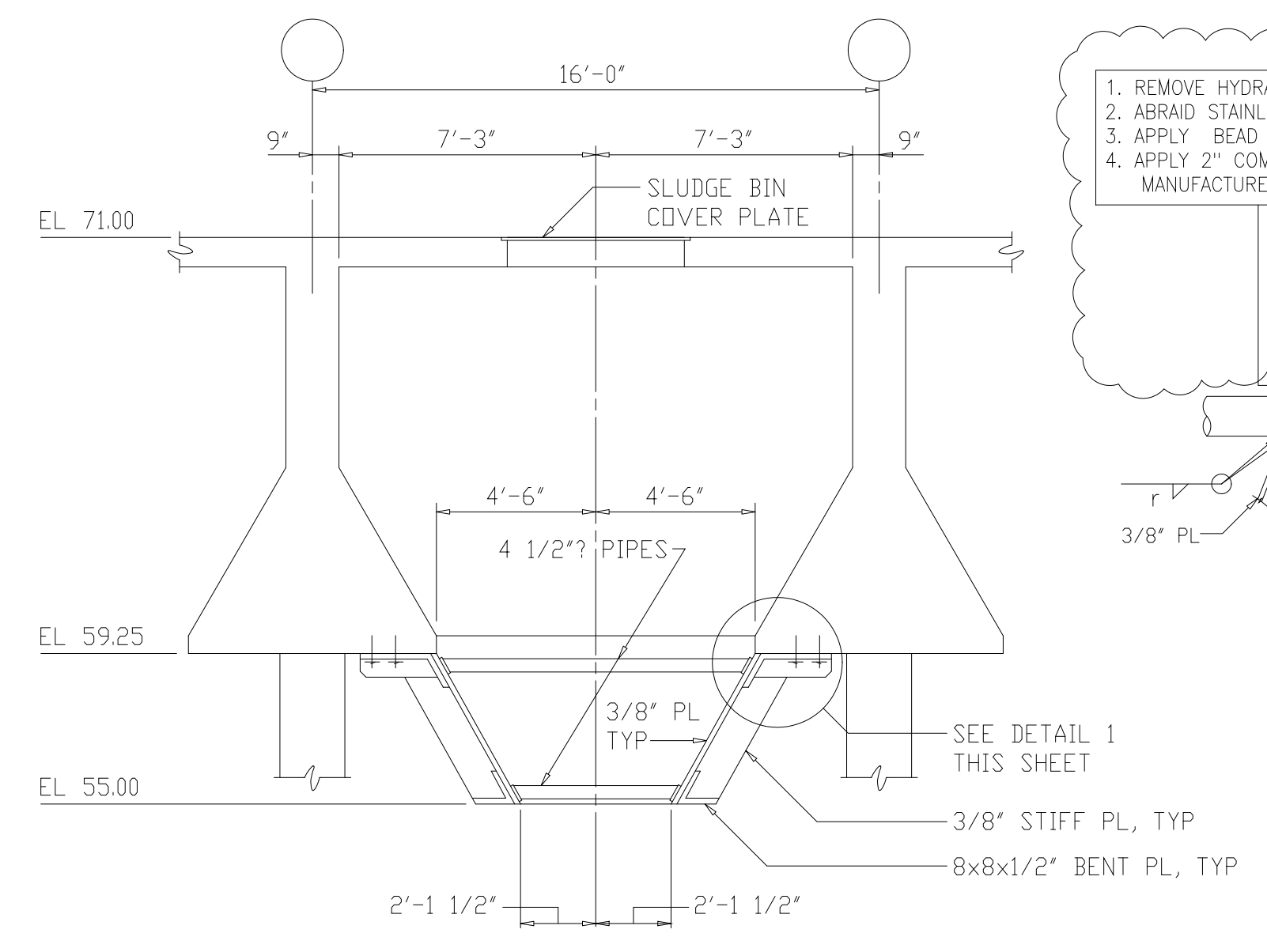
SLUDGE BIN COVER PLATE - PLAN
(FOR LOCATION SEE DWG S-210 AND S-211)
1/4"=1'-0"

DETAIL 3
1"=1'-0"

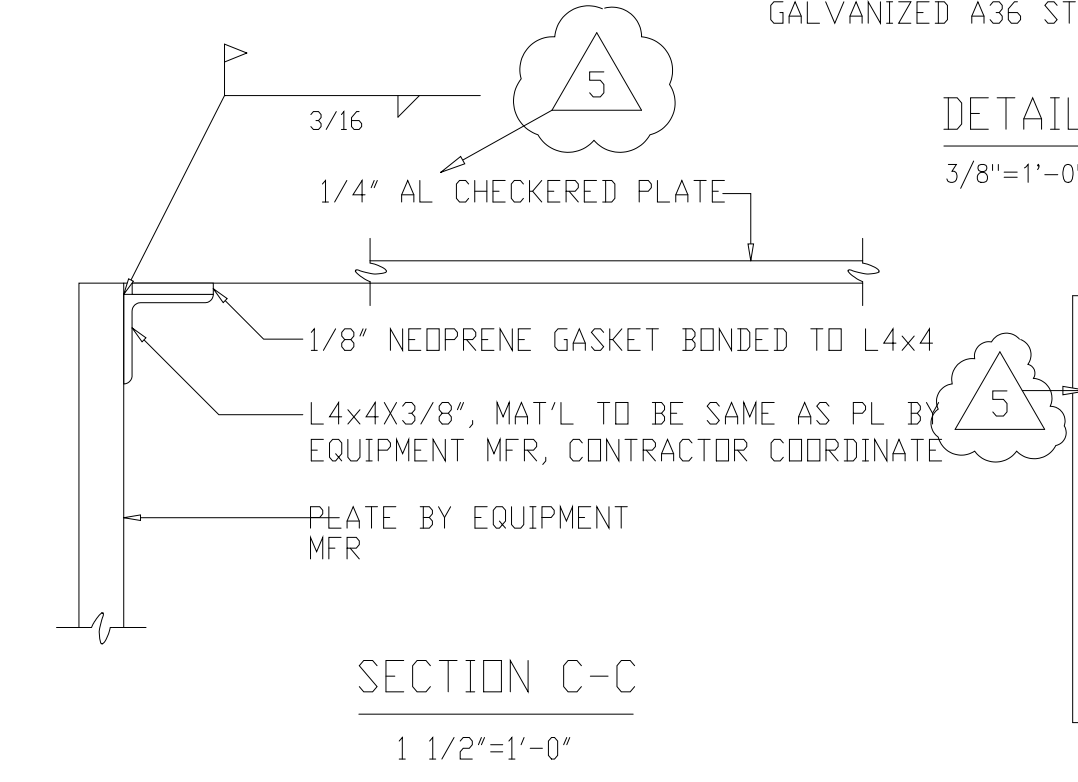
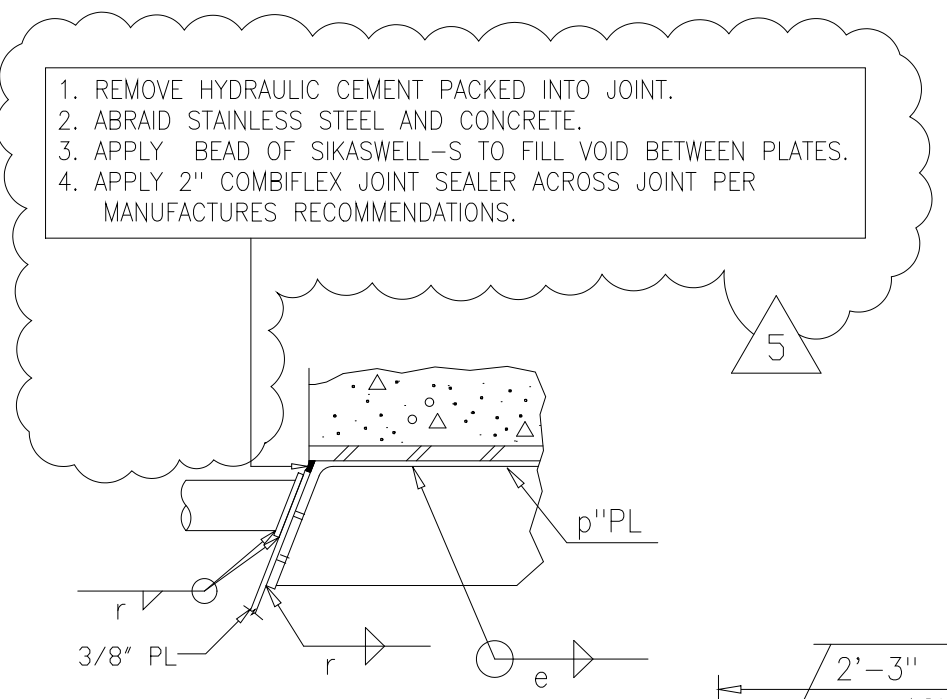
DETAIL 5
3/8"=1'-0"
S-211



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



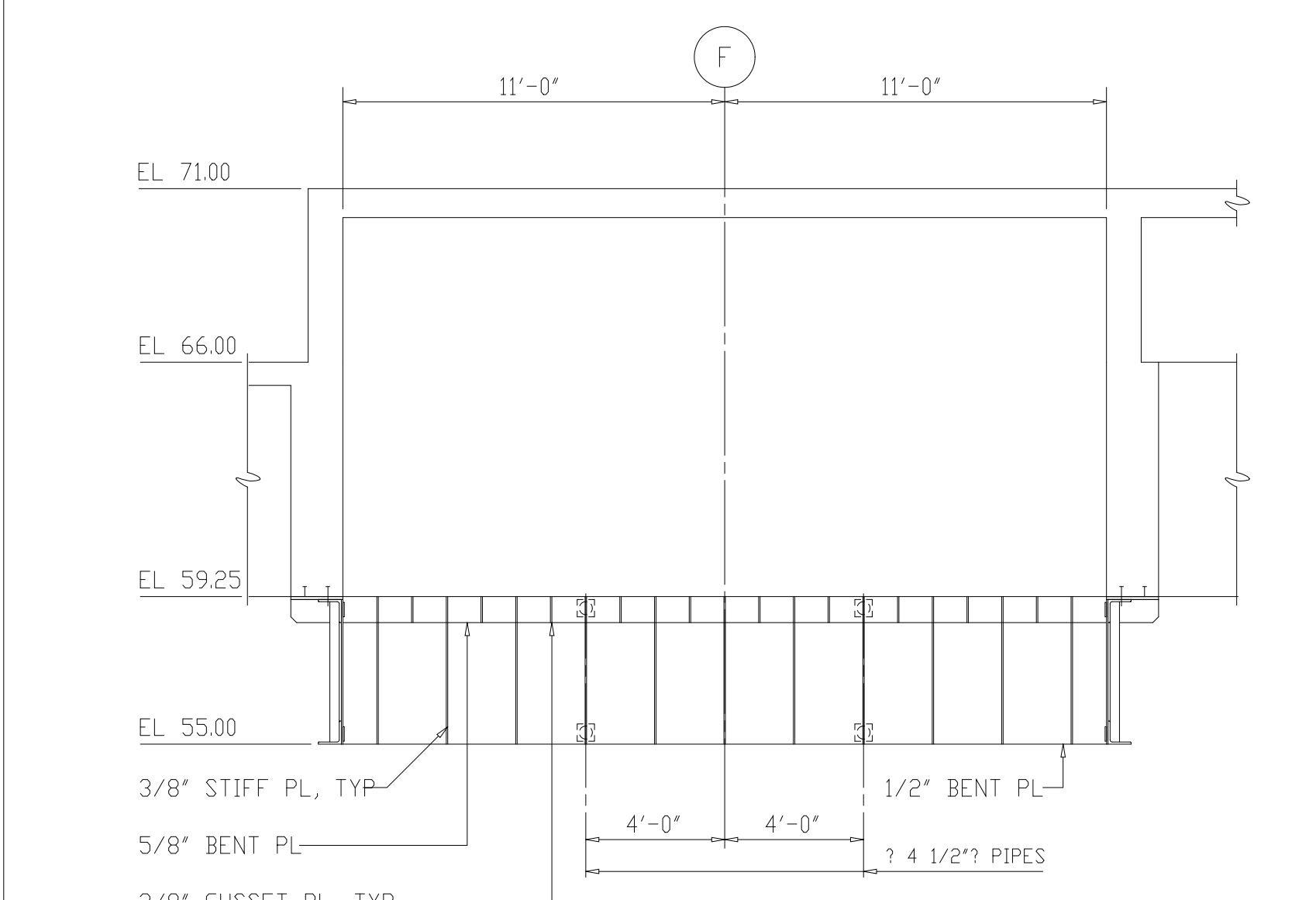
SECTION B-B
1/4"=1'-0"



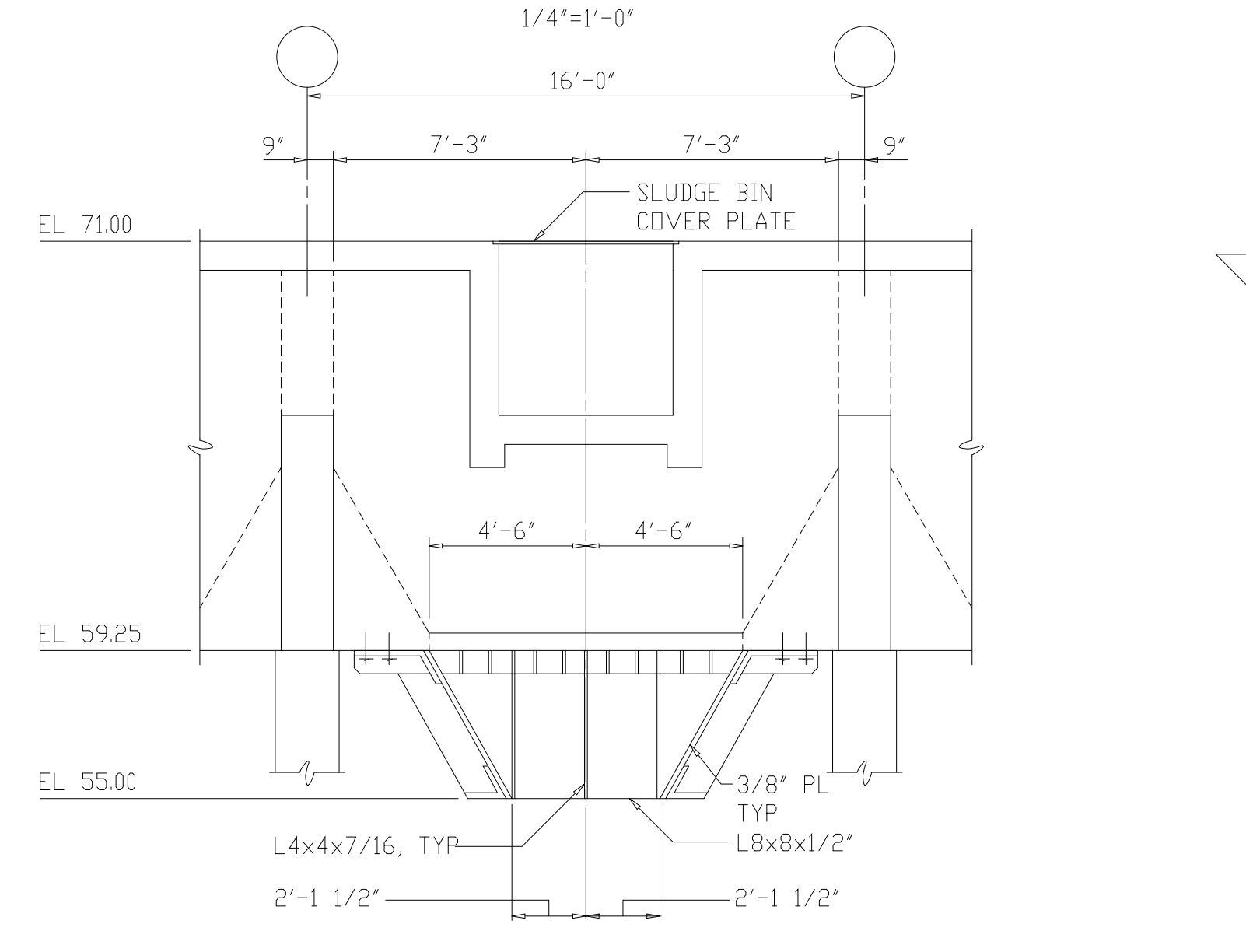
SECTION C-C
1 1/2"=1'-0"

NOTES:

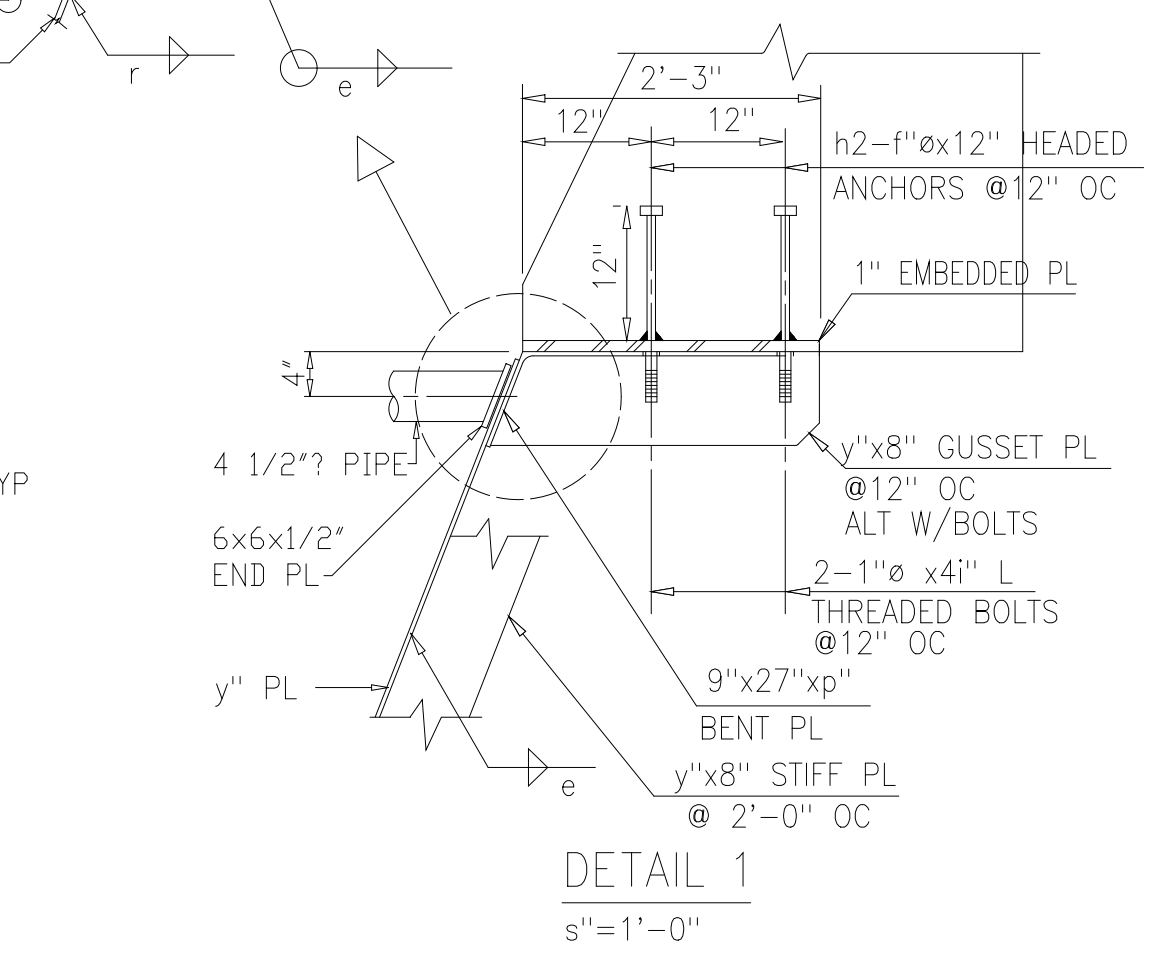
1. ALL METAL FOR BIN CONSTRUCTION AND SUPPORT SHALL BE TYPE 304L STAINLESS STEEL (SST) EXCEPT FOR THE BIN COVERS AND EMBEDDED ANGLES, WHICH SHALL BE ALUMINUM.
2. EQUIVALENT BUILT-UP SECTIONS WILL BE ACCEPTABLE.
3. ALL METAL CONNECTIONS SHALL BE WELDED UNLESS OTHERWISE SHOWN



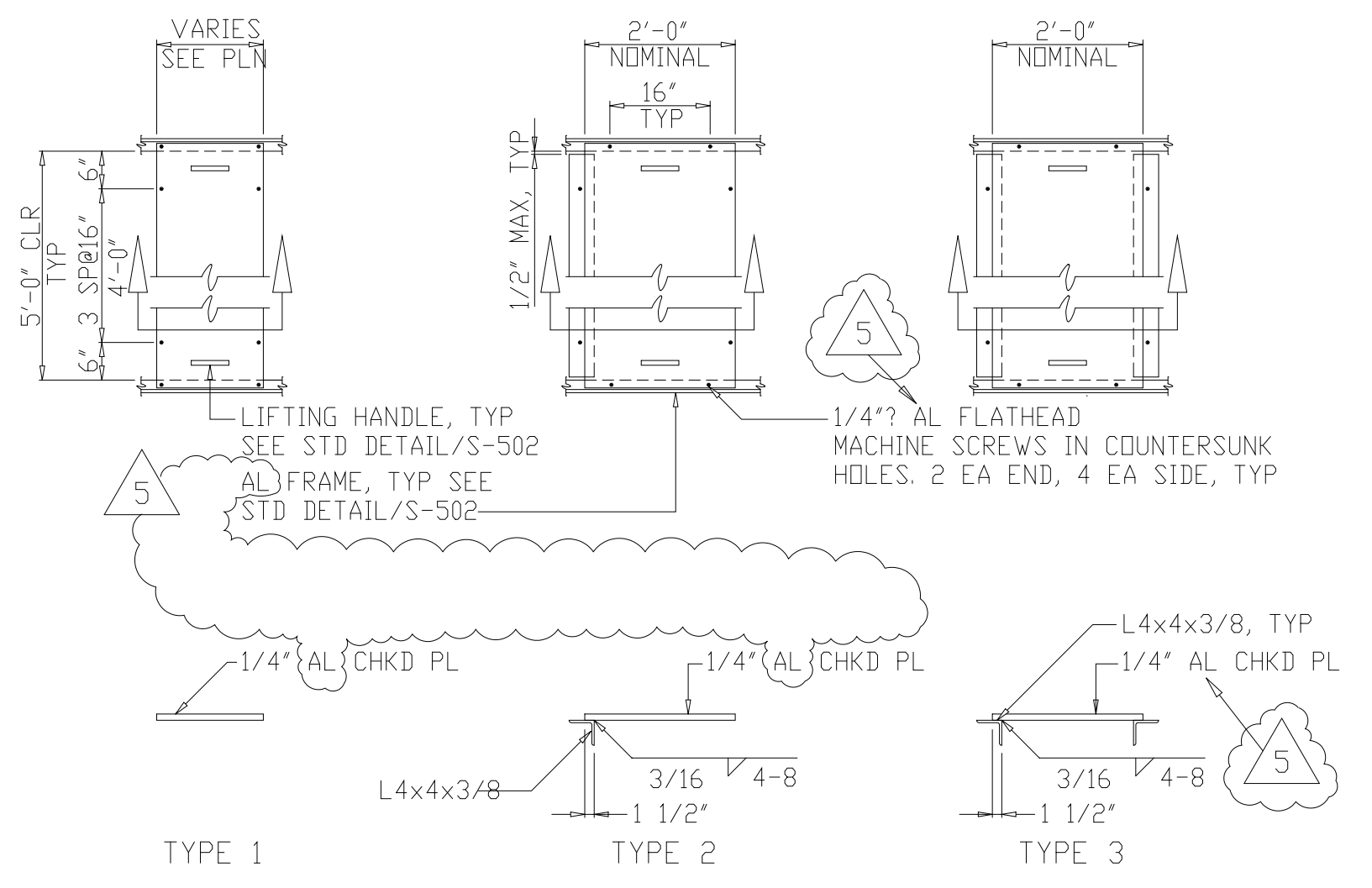
EAST ELEVATION
1/4"=1'-0"



NORTH ELEVATION
1/4"=1'-0"



DETAIL 1
s"=1'-0"



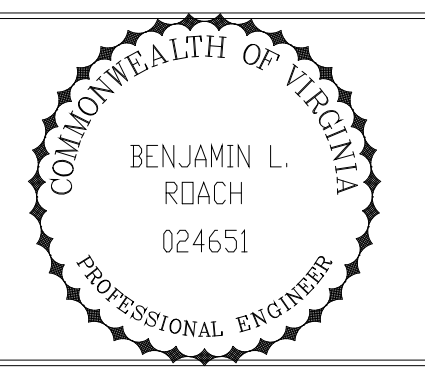
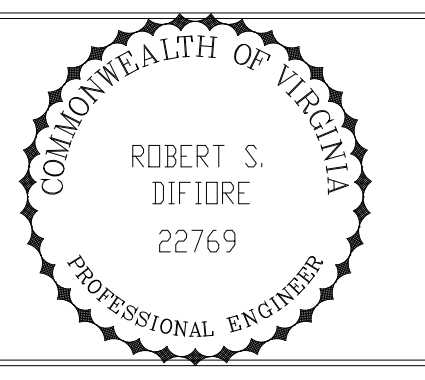
SLUDGE BIN COVER PANELS
DETAIL 6
1/2"=1'-0"
S-232

SLUDGE BIN
(FOR LOCATION SEE DWG S-210 AND S-211)

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	

NO.	ISSUED FOR	DATE	BY
5	RECORD DRAWING	4-99	MKS
4	WPS CONST.-LAND APP. REDES.	4-96	RSD
3	WPS APPROVAL-LAND APP. REDES.	2-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB

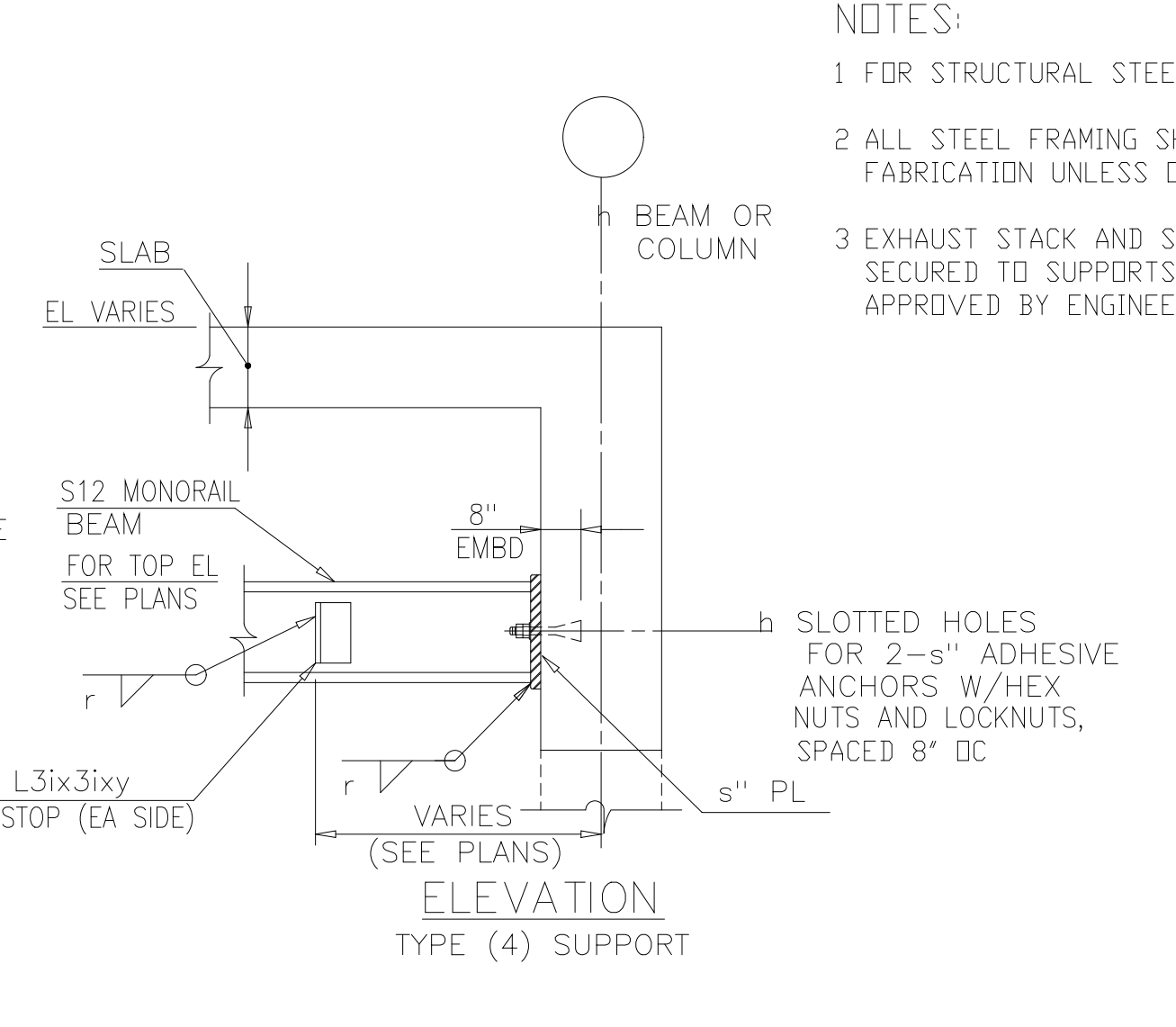
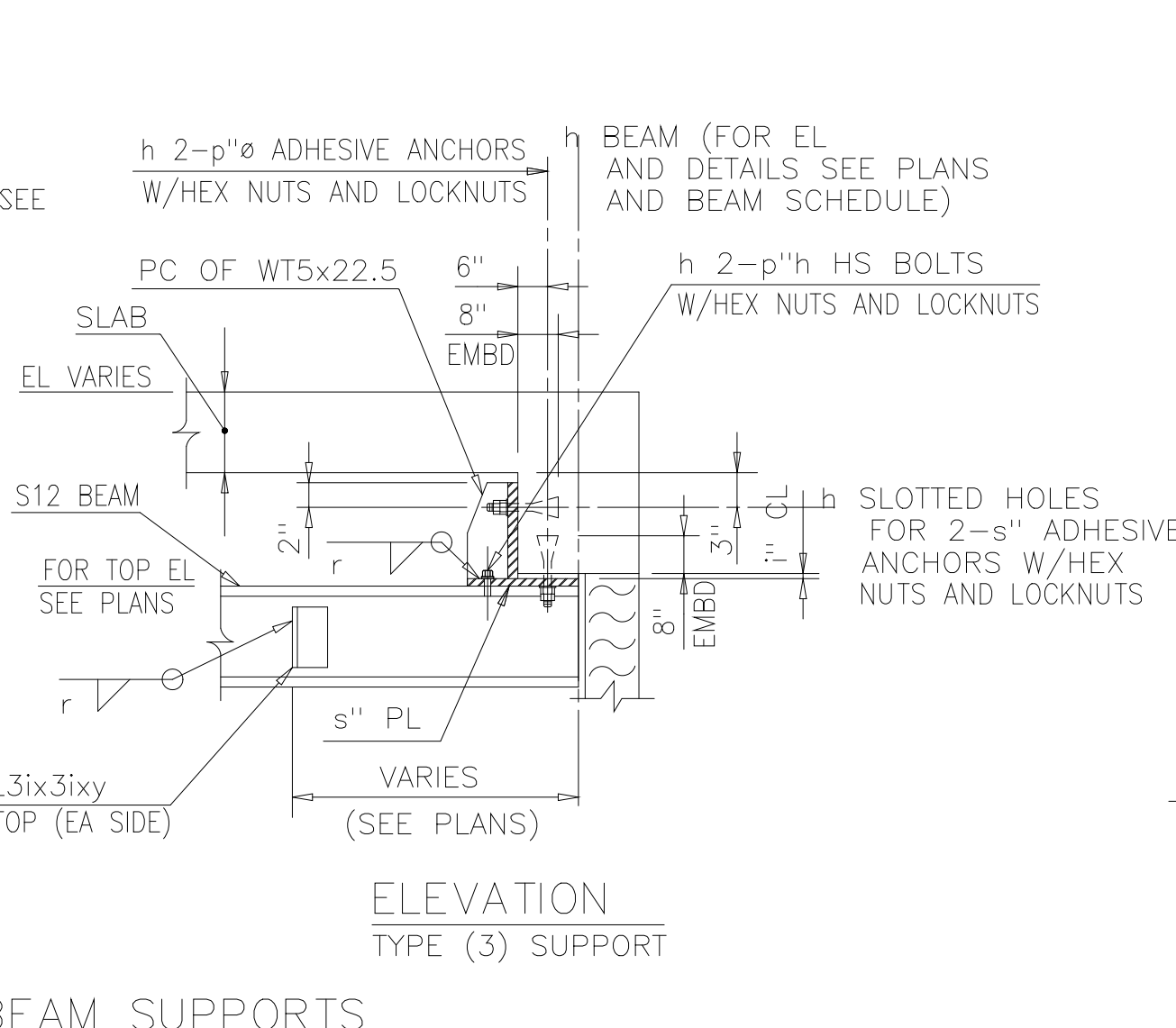
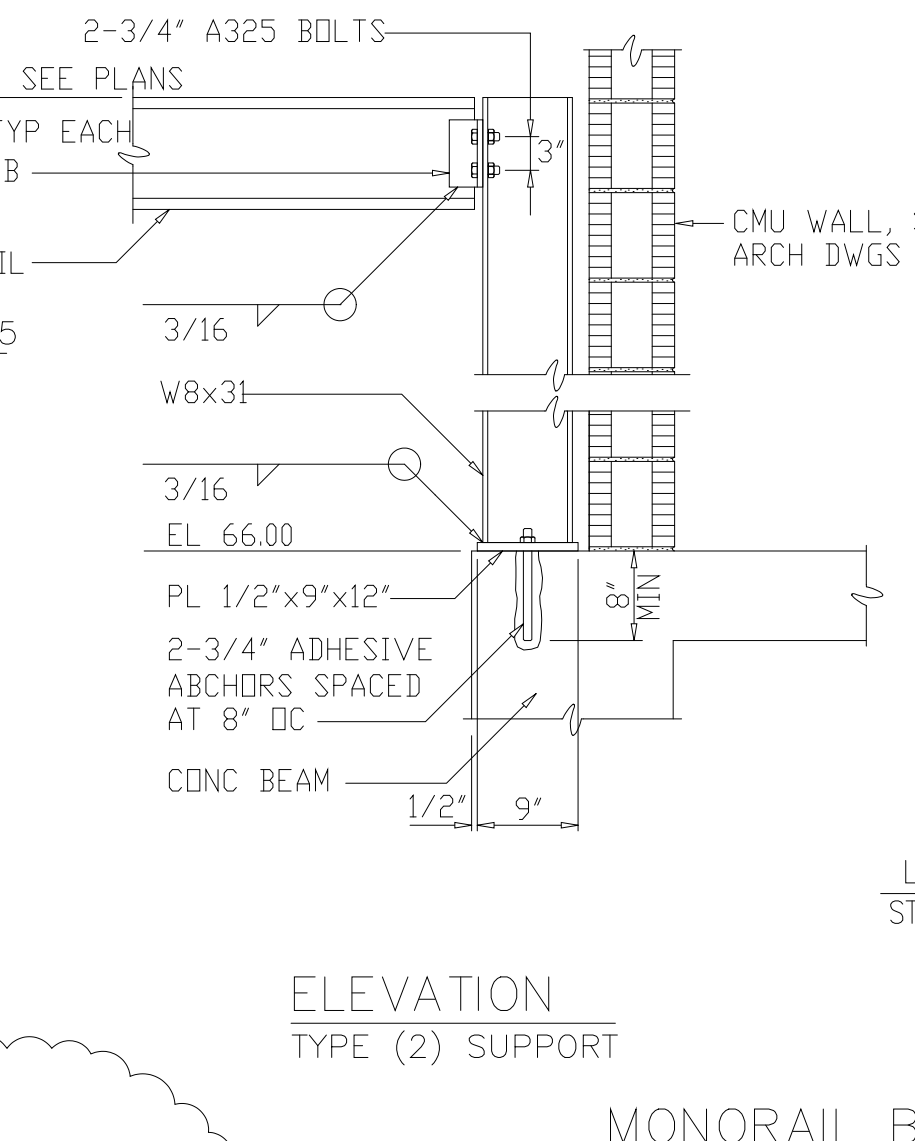
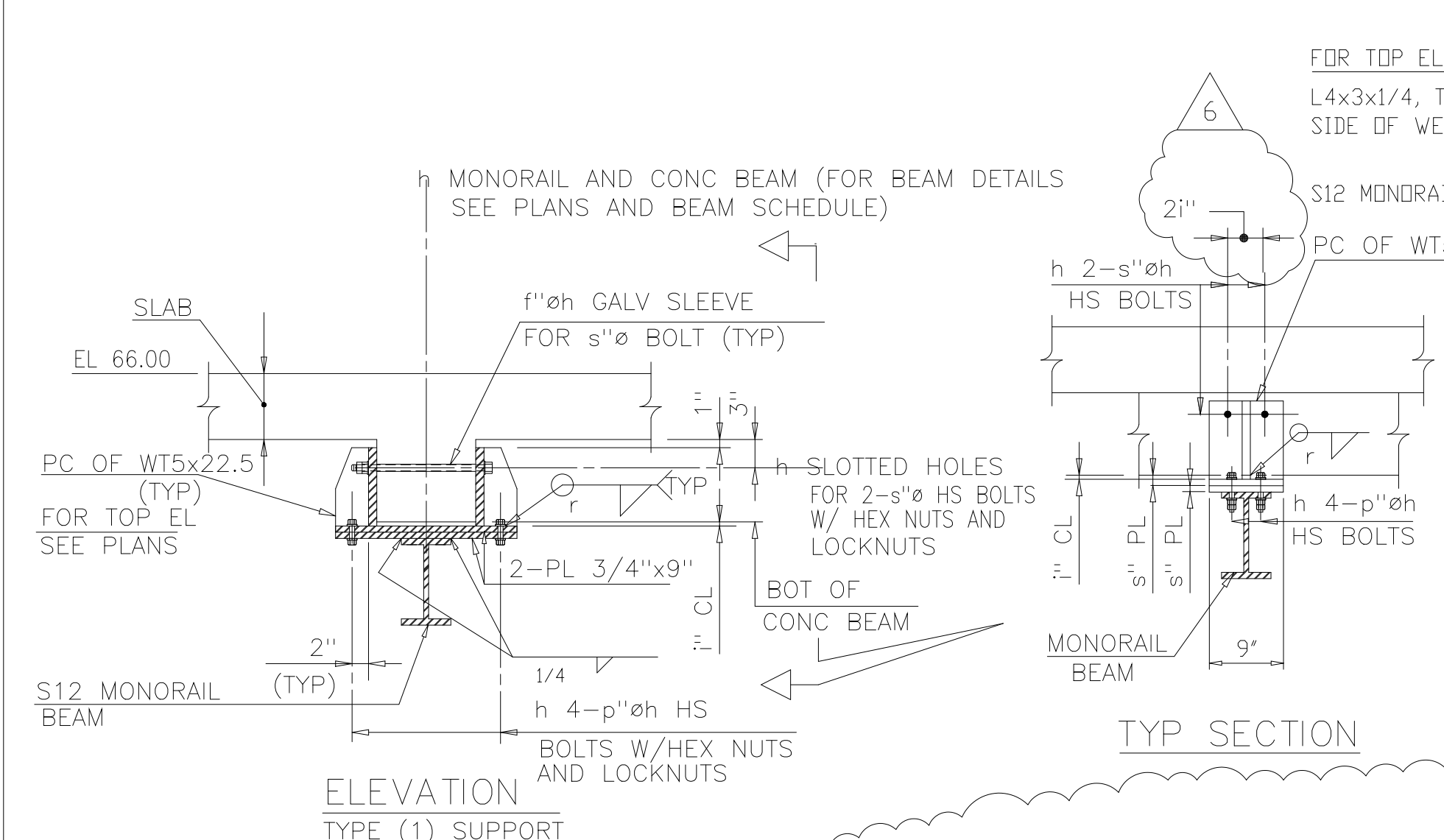


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
MISCELLANEOUS METALS - SHEET 3

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-232
	SHEET	92 OF 199



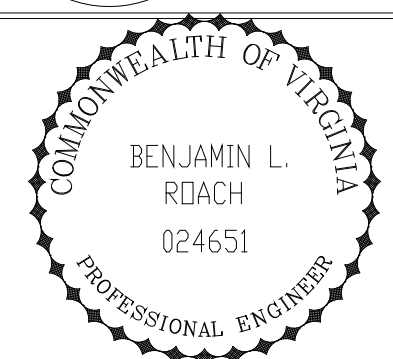
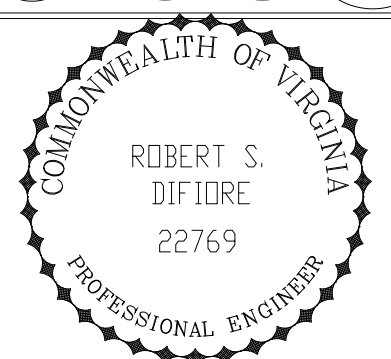
- NOTES:
- FOR STRUCTURAL STEEL NOTES, SEE DWG S-502.
 - ALL STEEL FRAMING SHALL BE HOT-DIPPED GALV AFTER FABRICATION UNLESS OTHERWISE NOTED.
 - EXHAUST STACK AND SCRUBBER PIPING TO BE CRADLED AND SECURED TO SUPPORTS AS DESIGNED BY PIPE MFR AND APPROVED BY ENGINEER.

MONORAIL BEAM SUPPORTS
 s"=1'-0"
 (FOR LOCATION SEE DWG S-211, & S-216)
 (PROVIDE LEVELING SHIM PLATES FOR MONORAIL BEAMS AT SUPPORTS)

AMMEND NO 5
 6

NO.	ISSUED FOR	DATE	BY	APPROVED
6	RECORD DRAWING	4-99	MKS	
5	WP5,6/7 CONST.-LAND APP. REDES.	4-96	RSD	
4	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD	
3	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD	
2	CONSTRUCTION	9-94	JJB	
1	REGULATORY APPROVAL	9-94	JJB	

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC



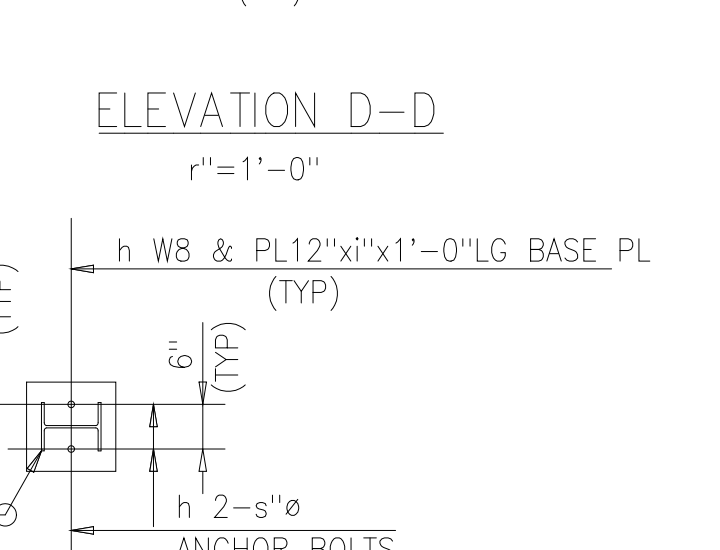
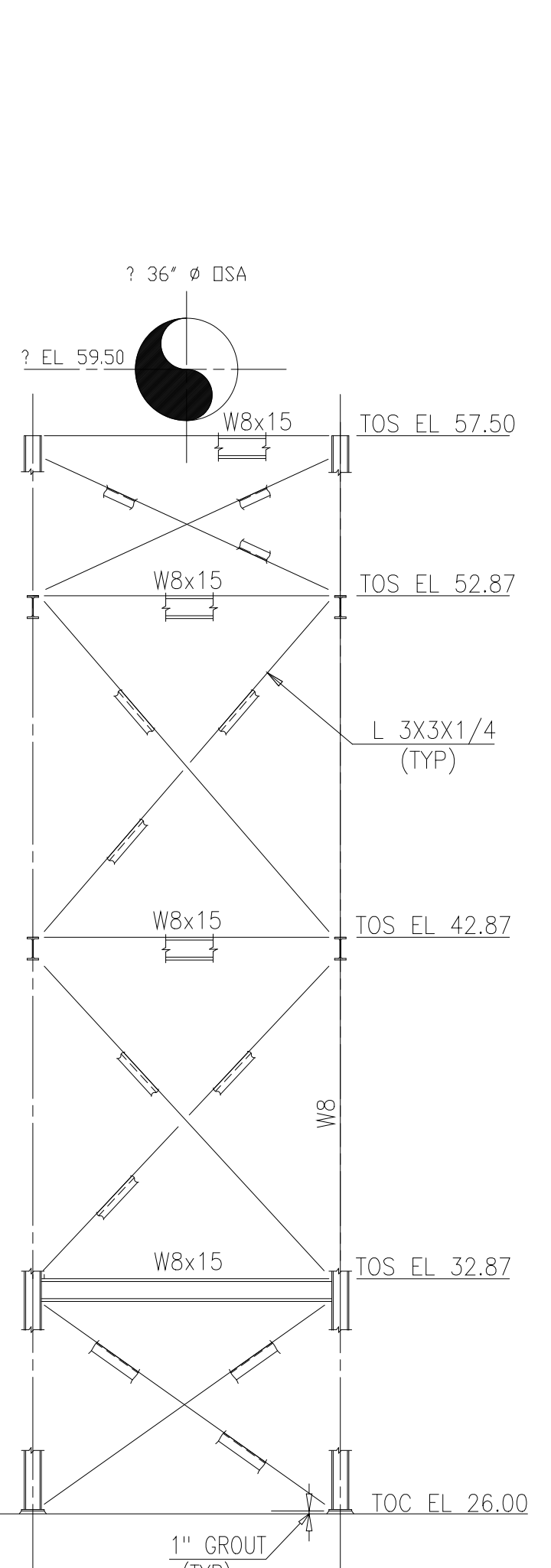
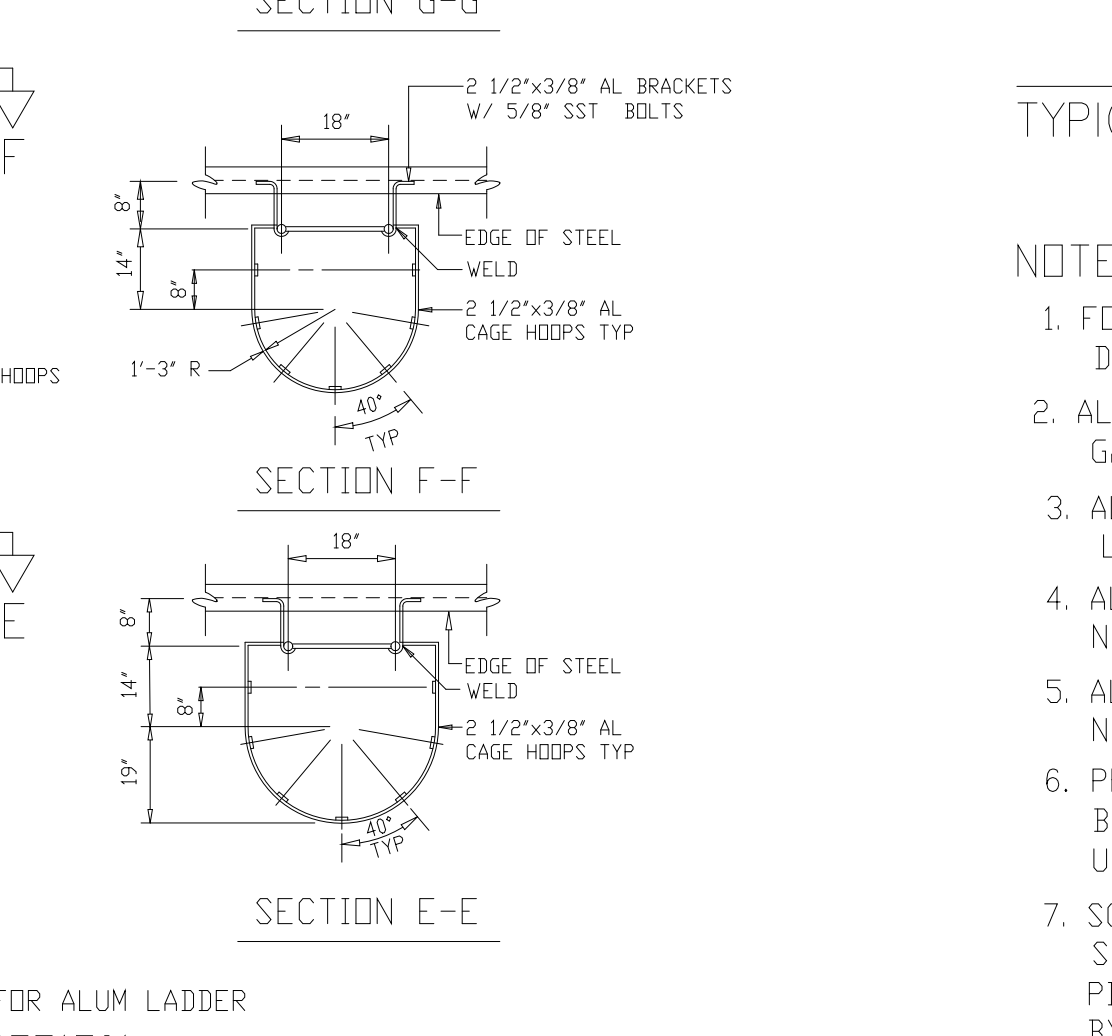
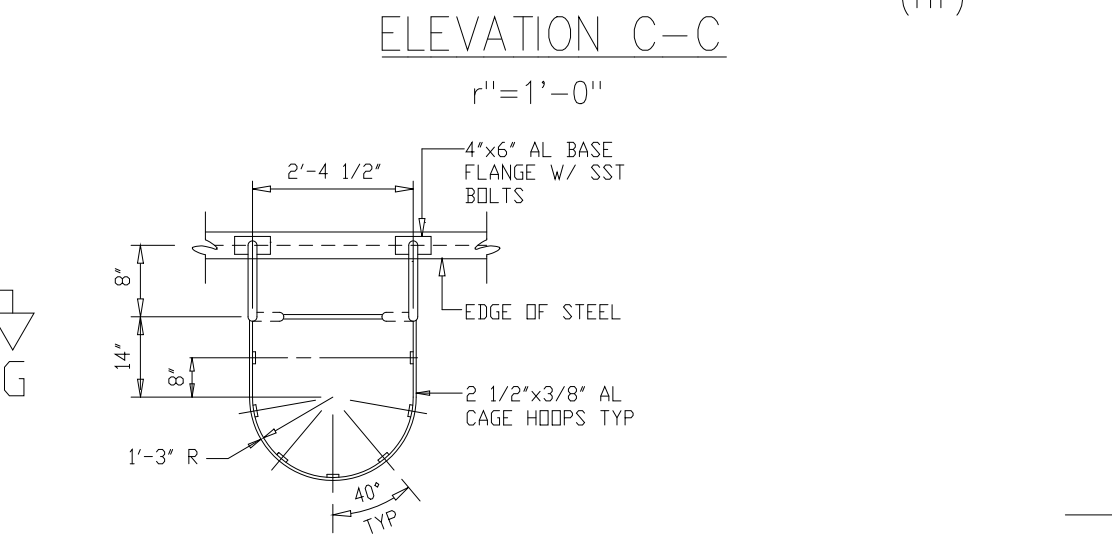
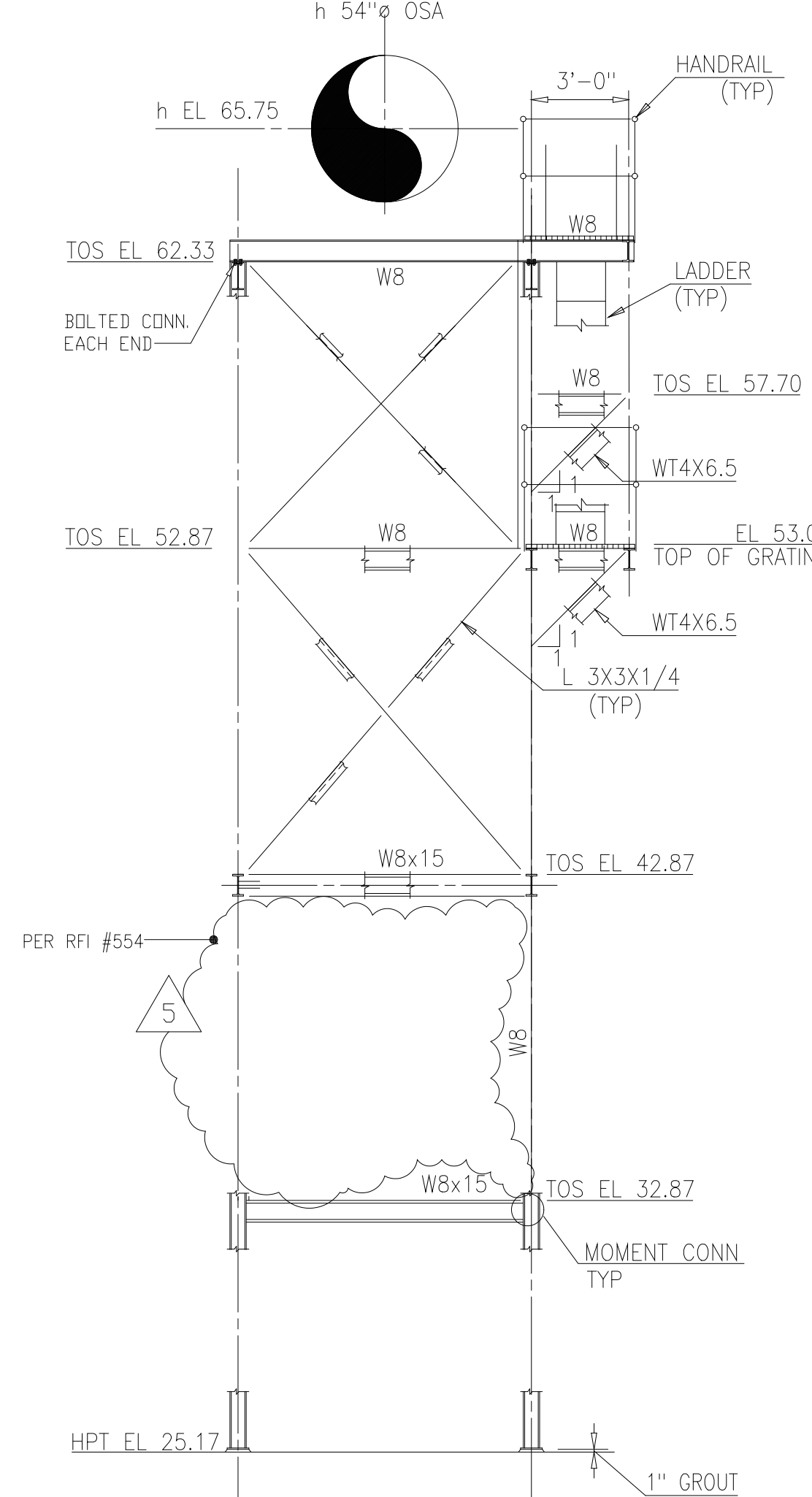
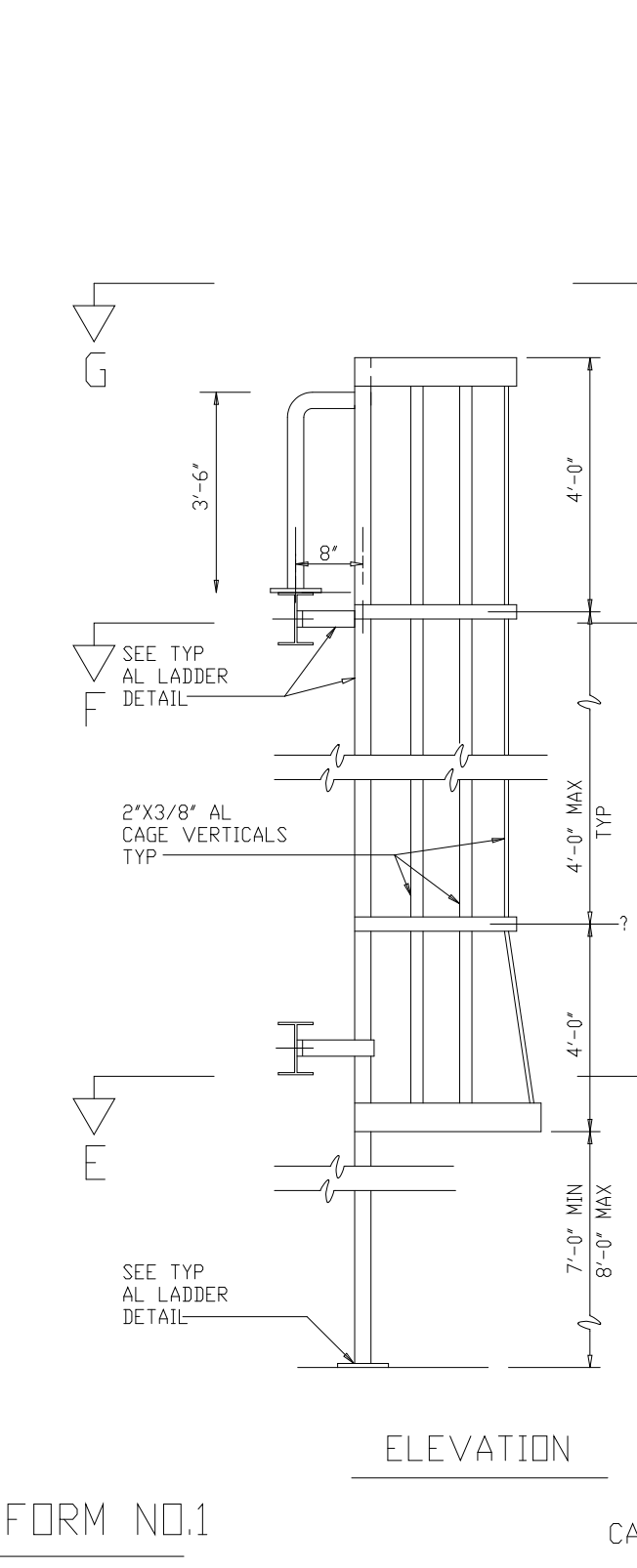
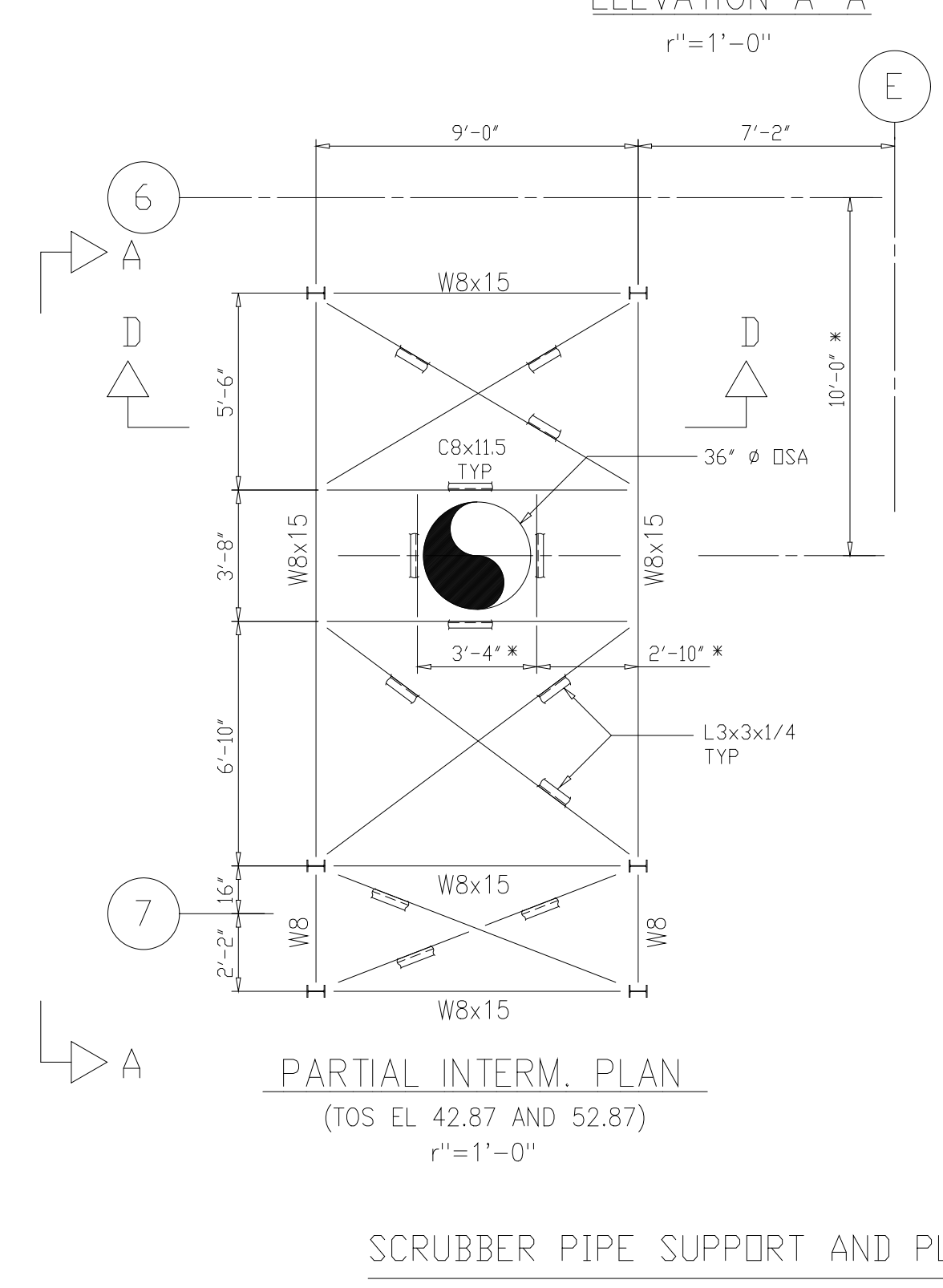
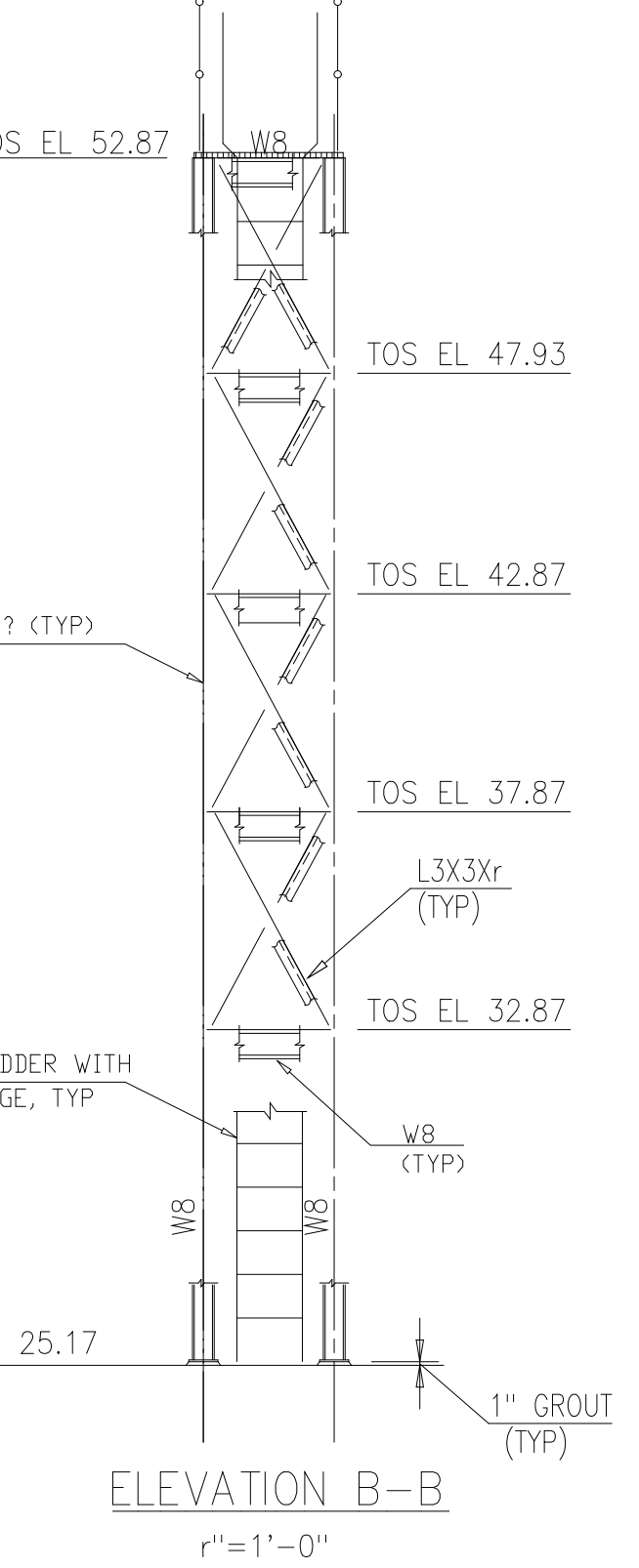
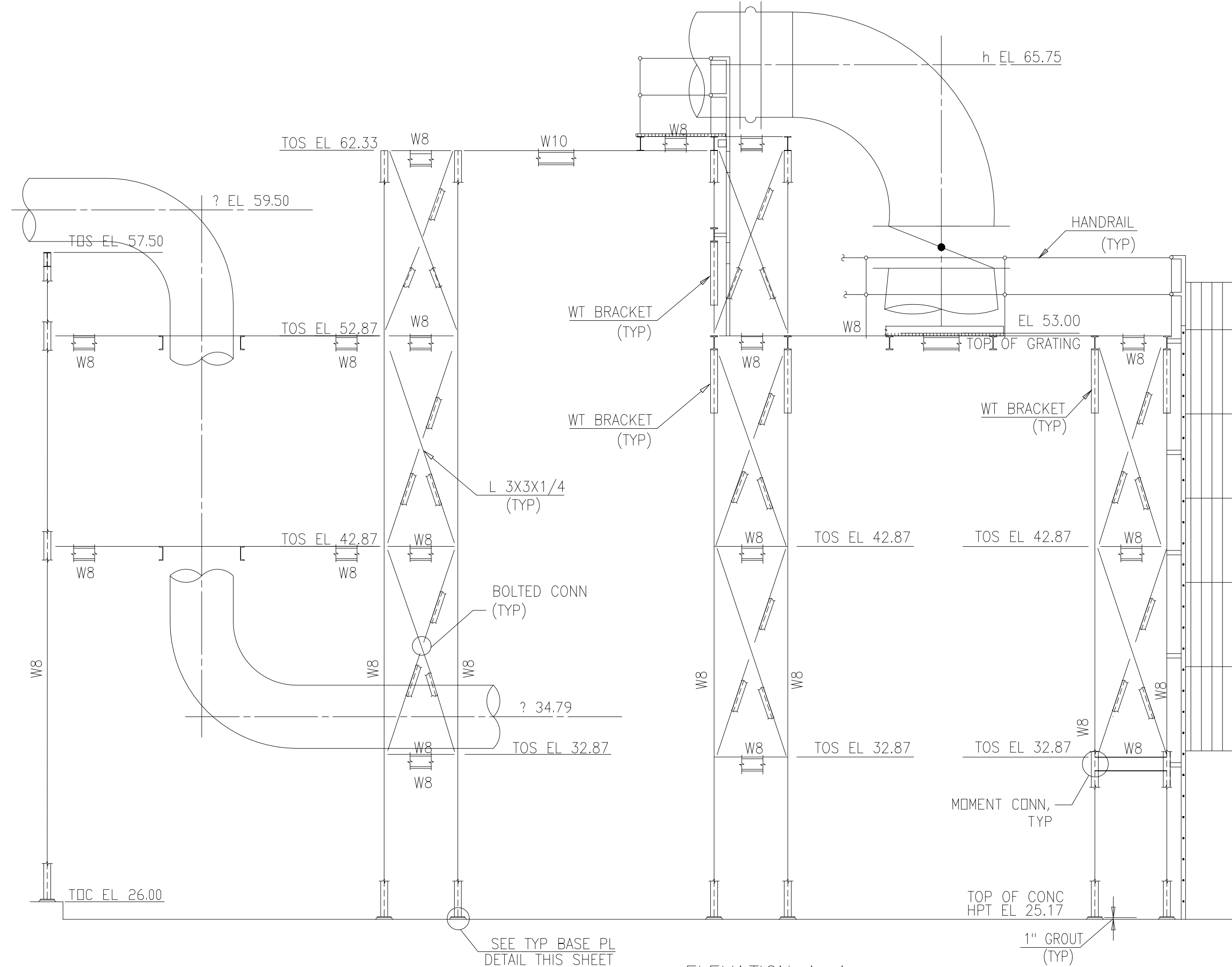
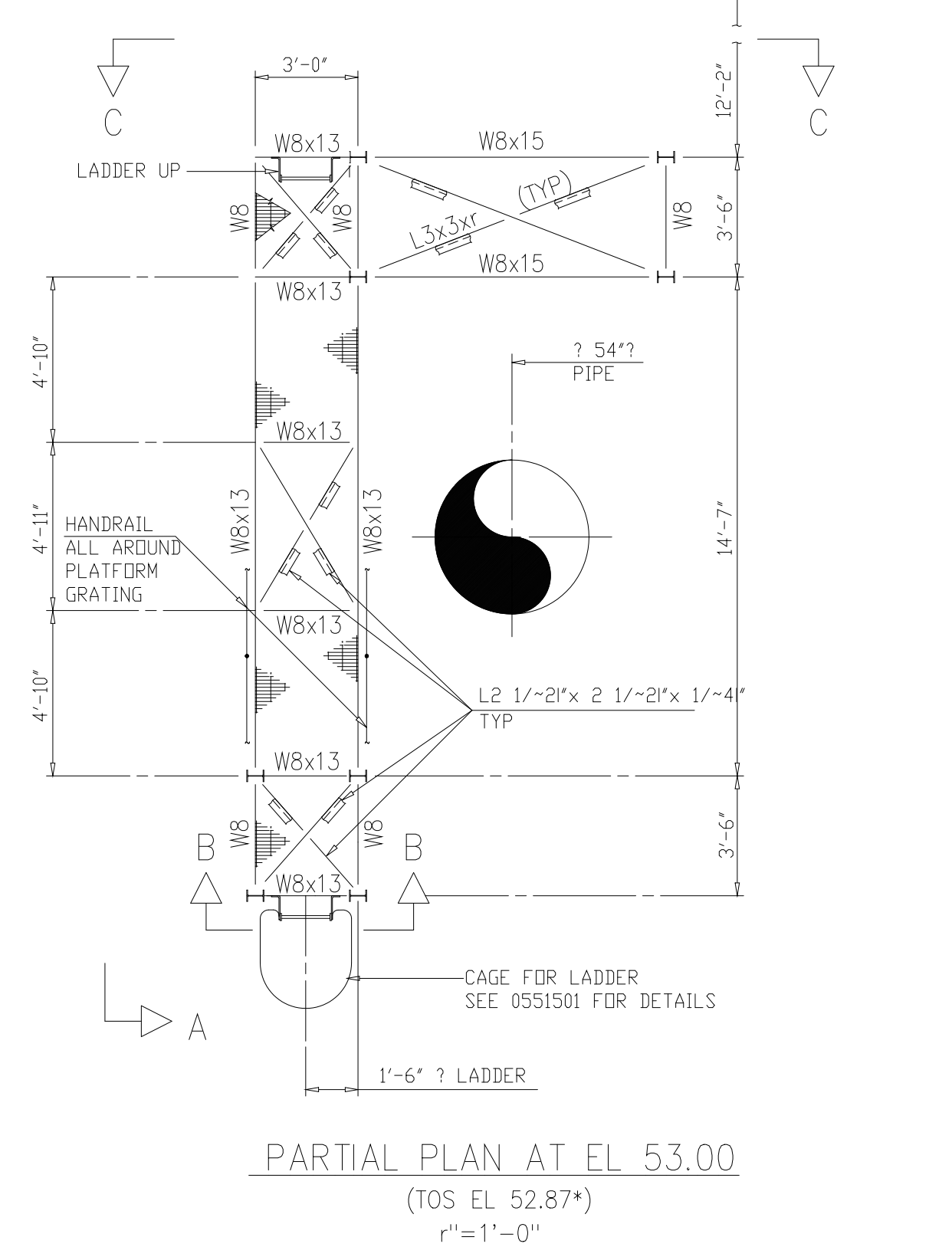
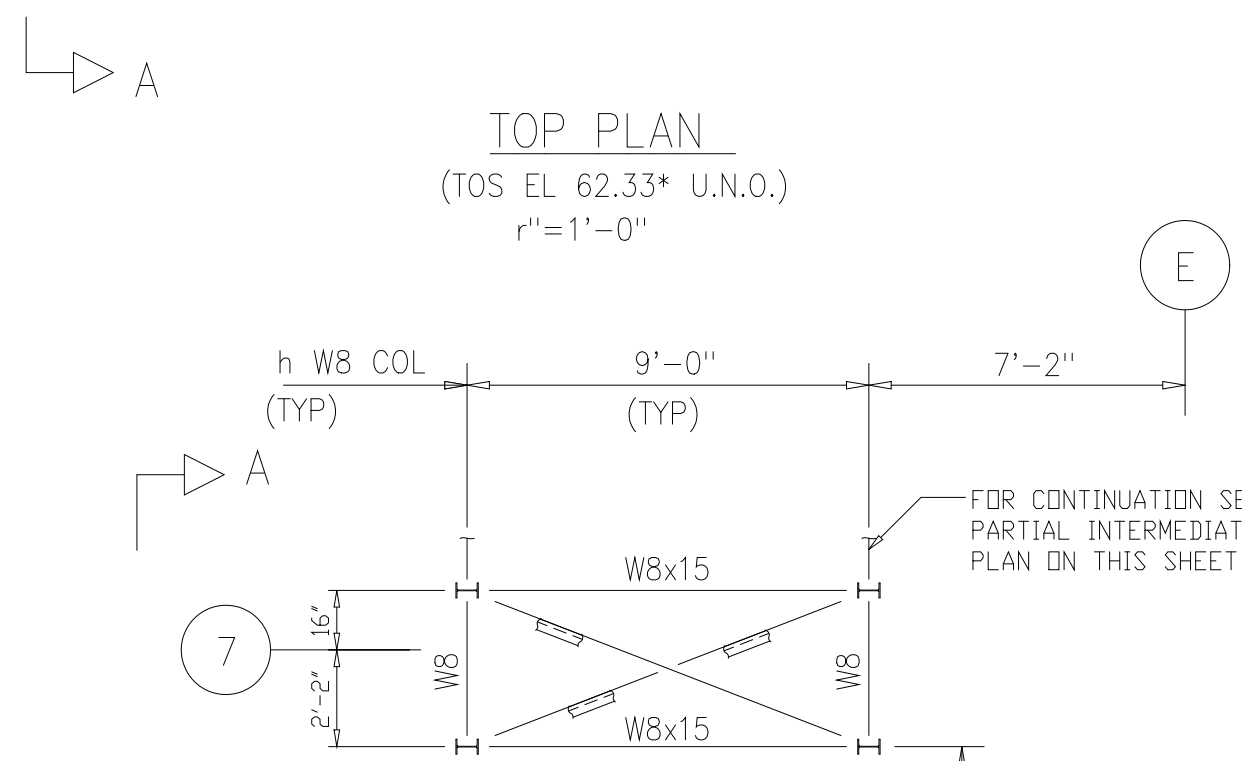
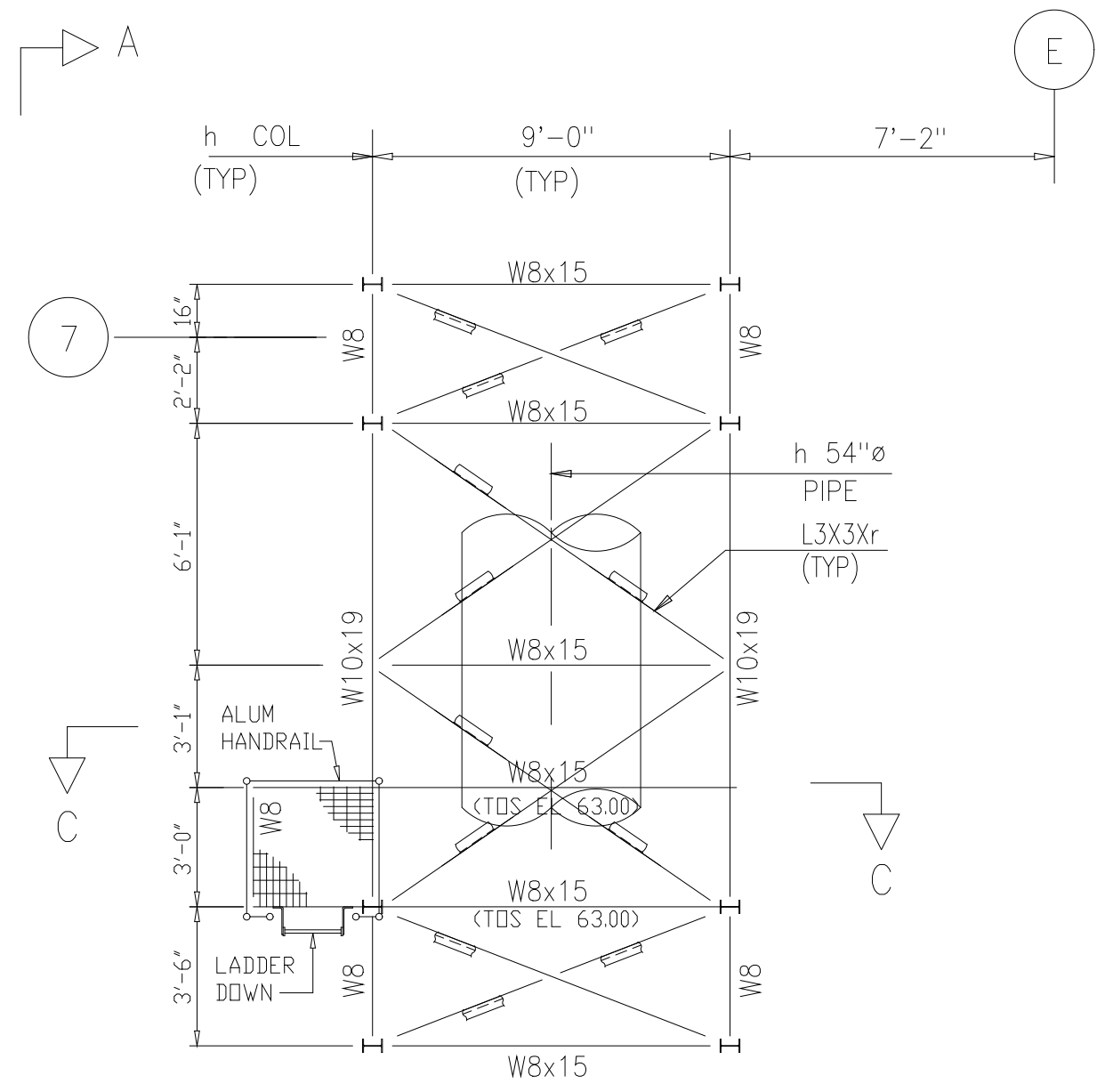
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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 STRUCTURAL
 MISCELLANEOUS METALS - SHEET 4

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-233
	SHEET	93 OF 199

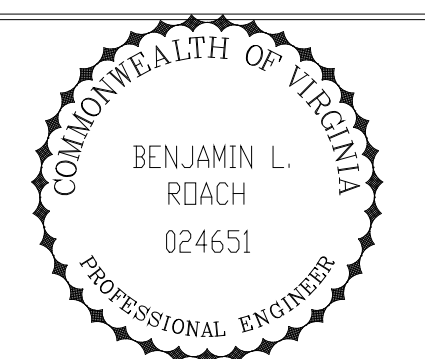
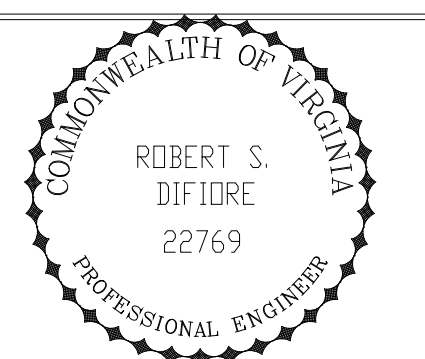
RECORD DRAWING



- NOTES:
- FOR STRUCTURAL STEEL NOTES SEE DWG S-502
 - ALL STRUCTURAL STEEL SHALL BE GALVANIZED UNLESS NOTED OTHERWISE
 - ALL CROSS BRACING MEMBERS TO BE L3x3xr UNLESS NOTED OTHERWISE
 - ALL COLUMNS ARE W8x31 UNLESS NOTED OTHERWISE
 - ALL BEAMS ARE W8x10 UNLESS NOTED OTHERWISE
 - PROVIDE L3x3xr CROSS BRACING BETWEEN ALL COLUMNS AT ALL BENTS UNLESS OTHERWISE SHOWN.
 - SCRUBBER PIPING TO BE CRADLED AND SECURED TO SUPPORTS AS DESIGNED BY PIPE MANUFACTURER AND APPROVED BY ENGINEER

PLOT DATE: 10/10/2018 12:46 PM FILE: H:\2018\2018-09-28\2018-09-28.dwg BY: M173

DESIGNED	ETM/JDW
DRAWN	BRC/JDW
CHECKED	
PROJ. ENGR.	AB/RNC
CONSTRUCTION	9-94 JJB
REGULATORY APPROVAL	9-94 JJB
ISSUED FOR	
NO.	



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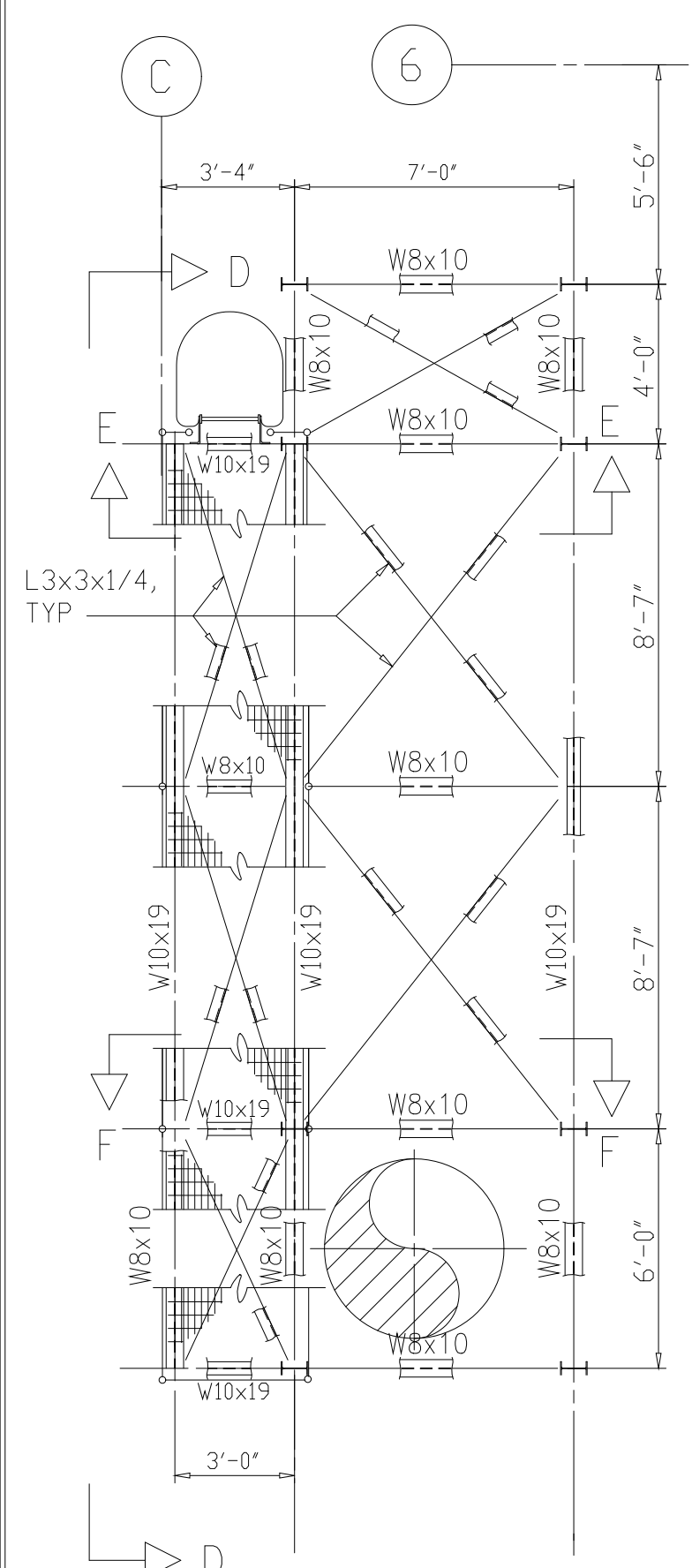
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
MISCELLANEOUS METALS
SHEET 5

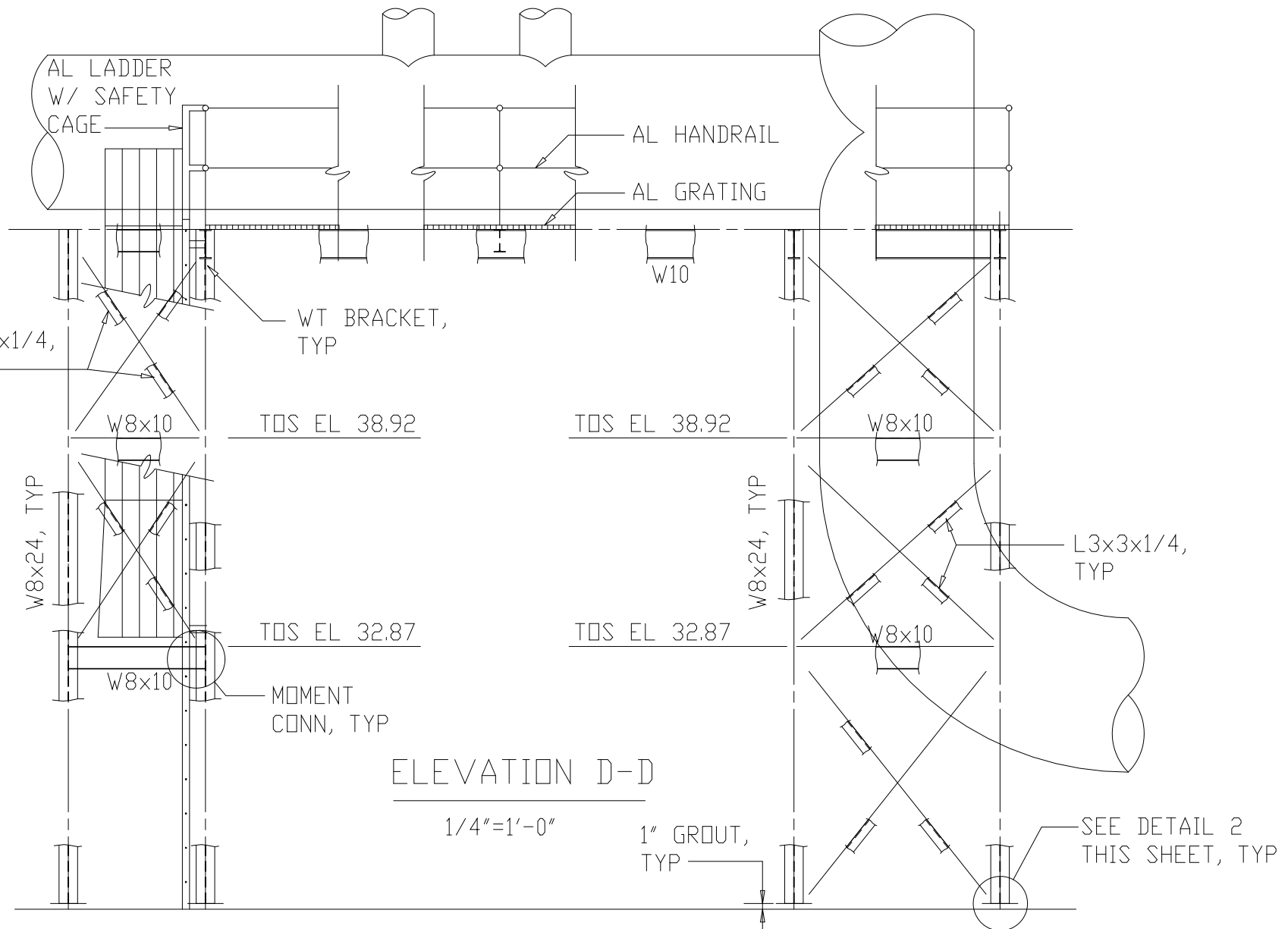
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-234
	SHEET	94 OF 199

RECORD DRAWING

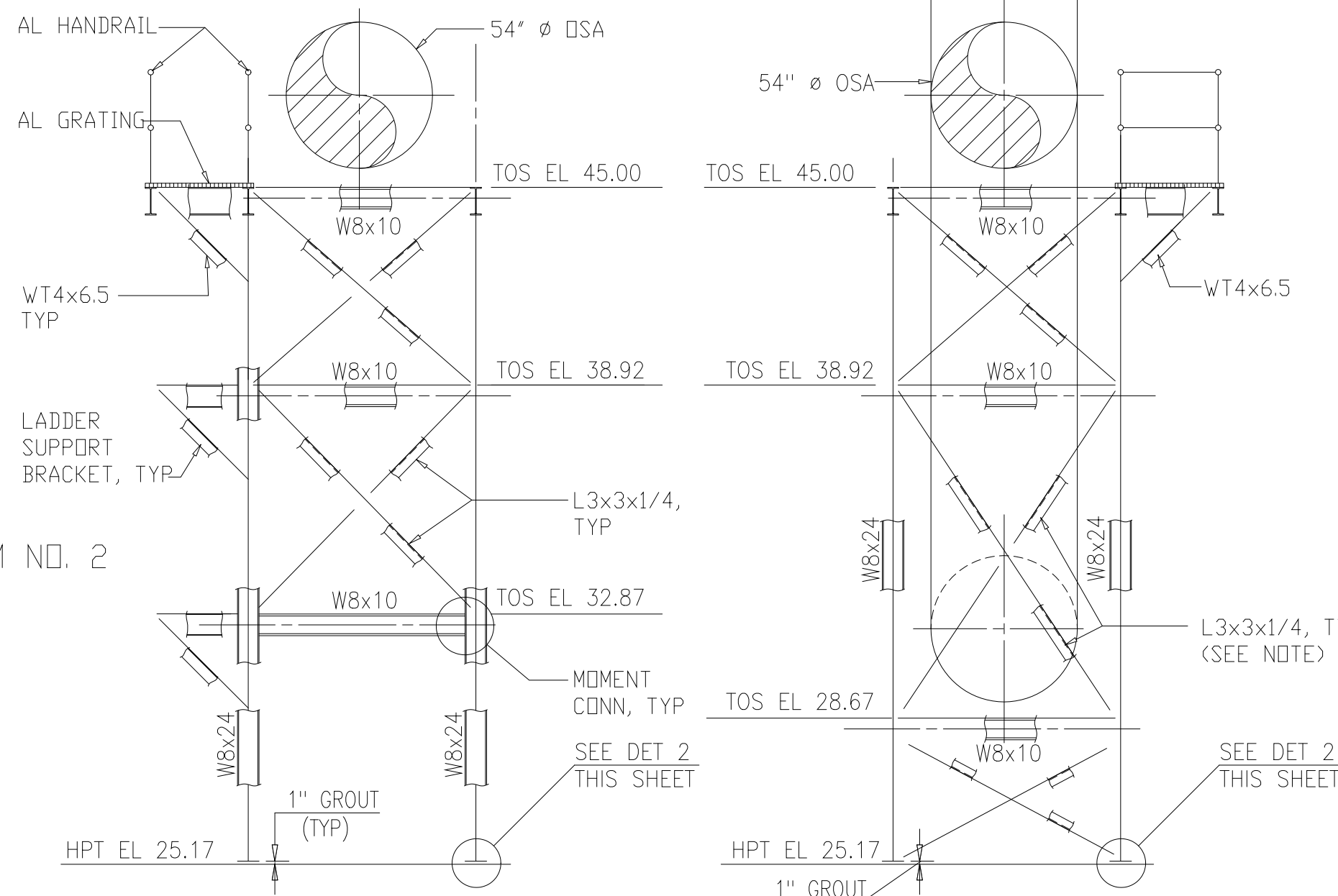
- NOTES:
- 1 SCRUBBER PIPING TO BE CRADLED AND SECURED TO SUPPORTS AS DESIGNED BY PIPE MFR AND APPROVED BY ENGINEER.
 - 2 ALL STRUCTURAL STEEL SHALL BE GALV UNLESS NOTED OTHERWISE.
 - 3 VERIFY LOCATION OF SUPPORTS WITH MECH DWGS.
 - 4 PER CHANGE ORDER #5, PROVIDE ACCESS PLATFORMS, STRUCTURAL SUPPORTS, LADDERS AND WALKWAYS FOR THE ACID SCRUBBER SYSTEM, AND BUILDING VENTILATION SCRUBBER SYSTEM FRP DUCTWORK, STACKS, AND APPURTENANCES.



PIPE SUPPORT AND PLATFORM NO. 2
TOP PLAN (EL 45.00)
1/4"=1'-0"



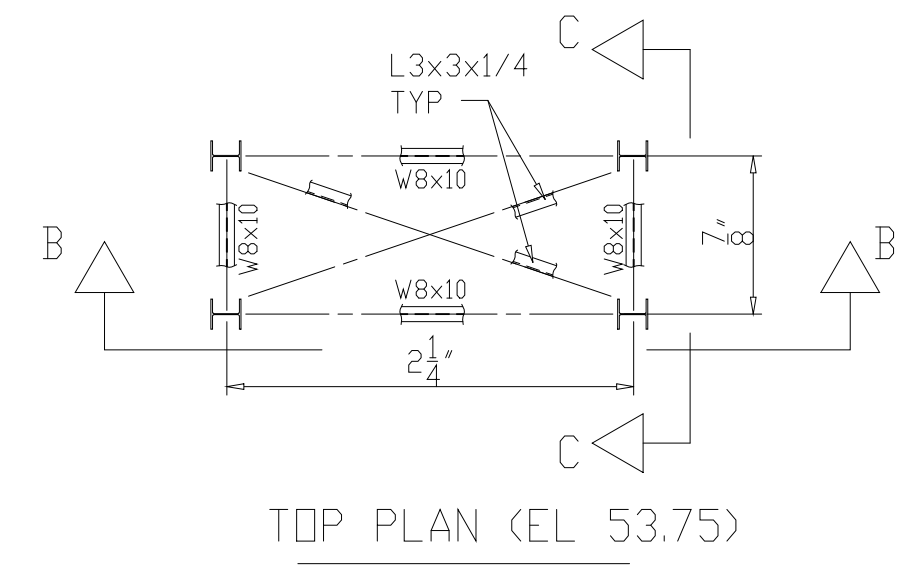
ELEVATION D-D
1/4"=1'-0"



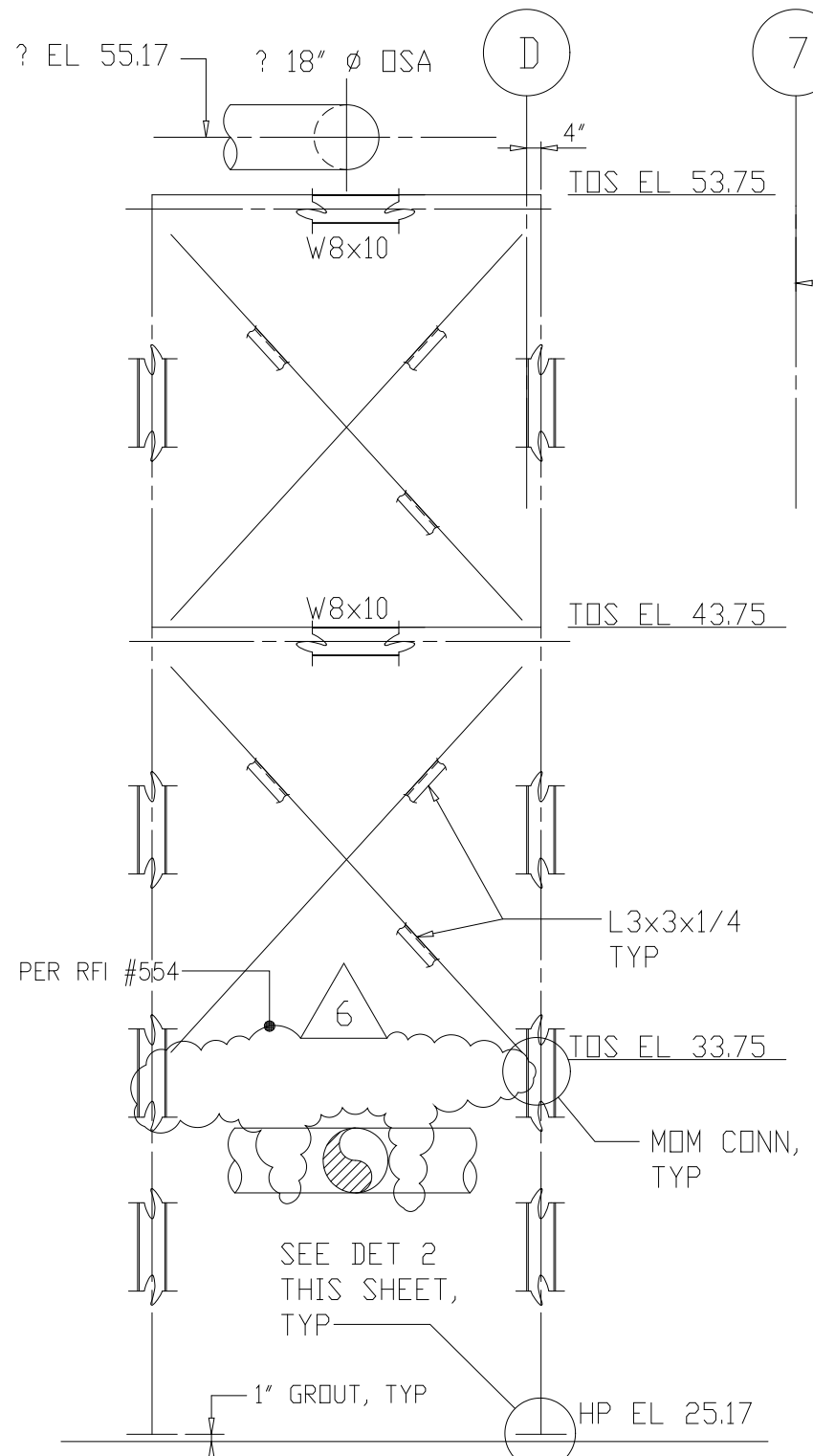
ELEVATION E-E
1/4"=1'-0"

ELEVATION F-F
1/4"=1'-0"

NOTE: L3x3x1/4 BRACING EXCLUDED ON OPPOSITE SIDE OF TOWER FRAME BETWEEN EL 28.67 AND EL 38.92



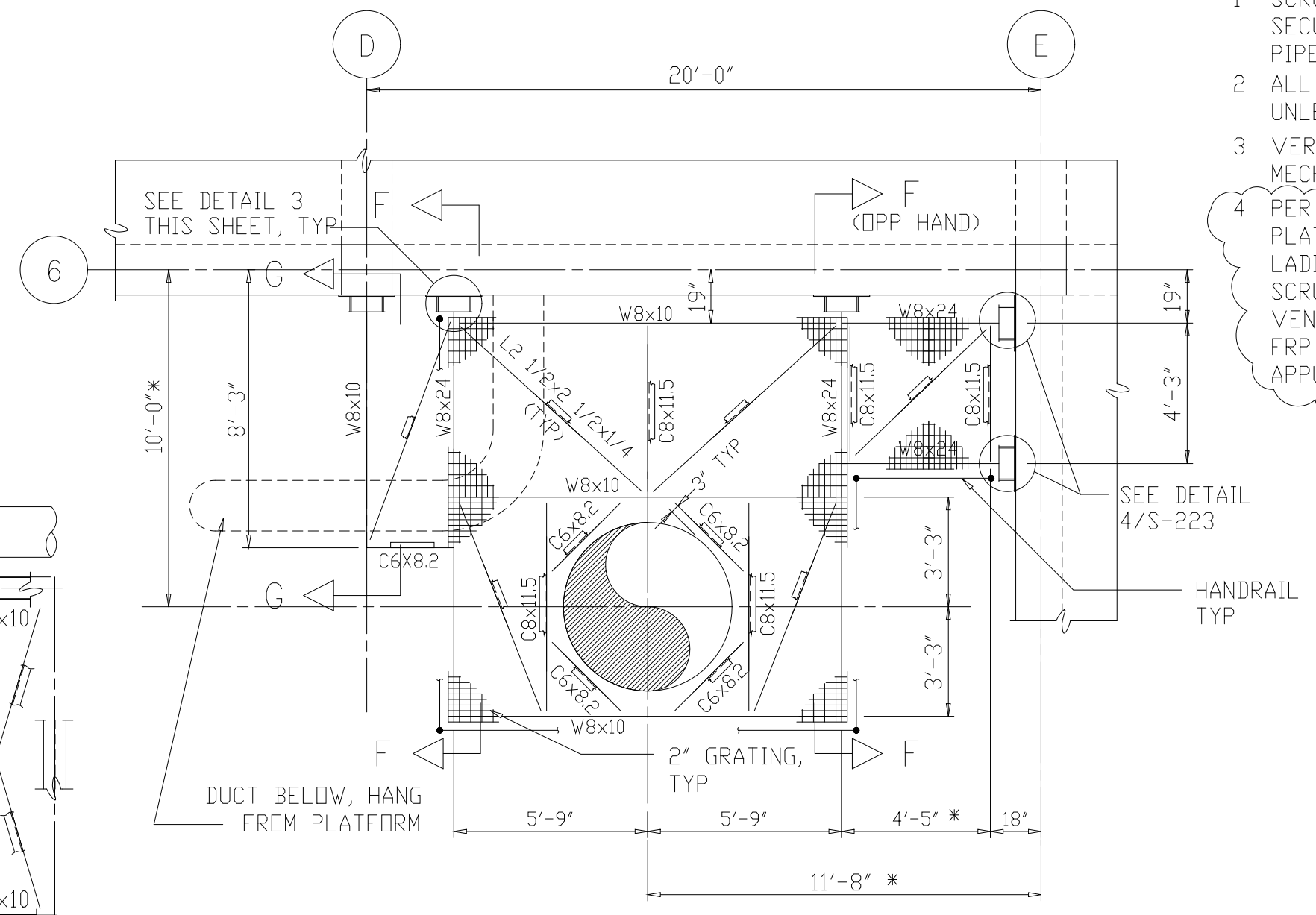
TOP PLAN (EL 53.75)
1/4"=1'-0"



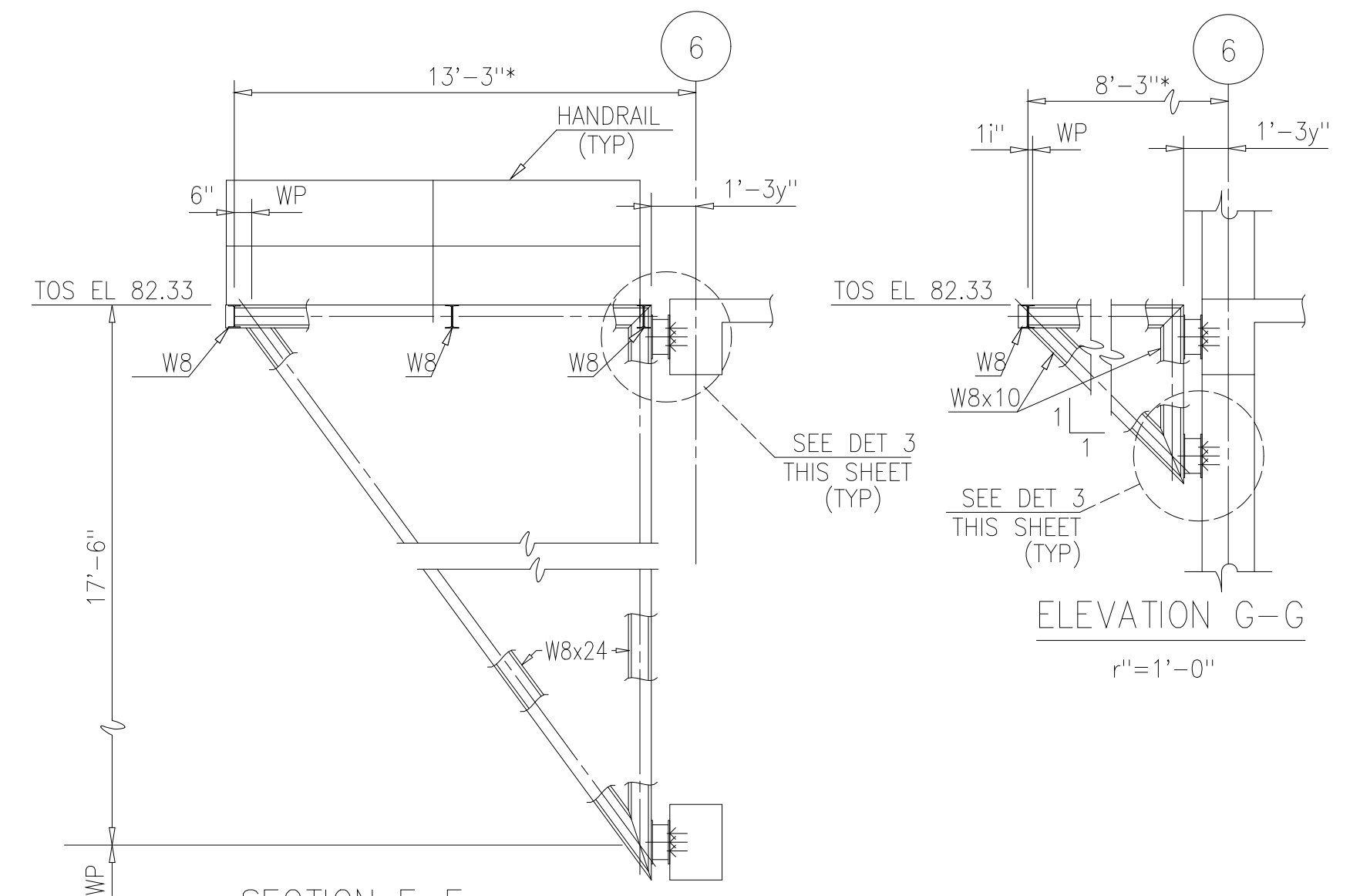
ELEVATION B-B
1/4"=1'-0"

ELEVATION C-C
1/4"=1'-0"

PIPE SUPPORT No. 3
(FOR LOCATION SEE DWG S-207)

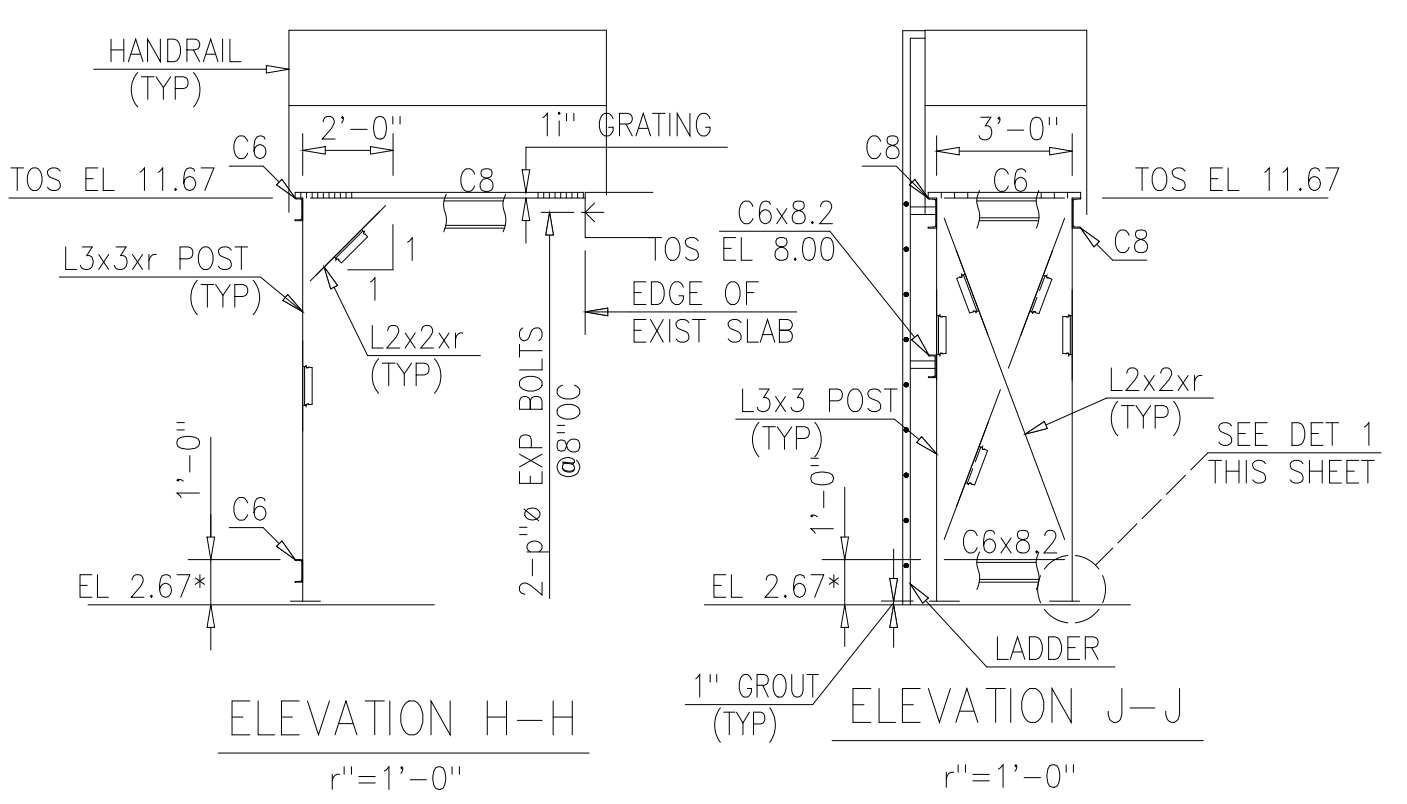


PLAN - TOS EL 82.33
1/4"=1'-0"



SECTION F-F
r"=1'-0"

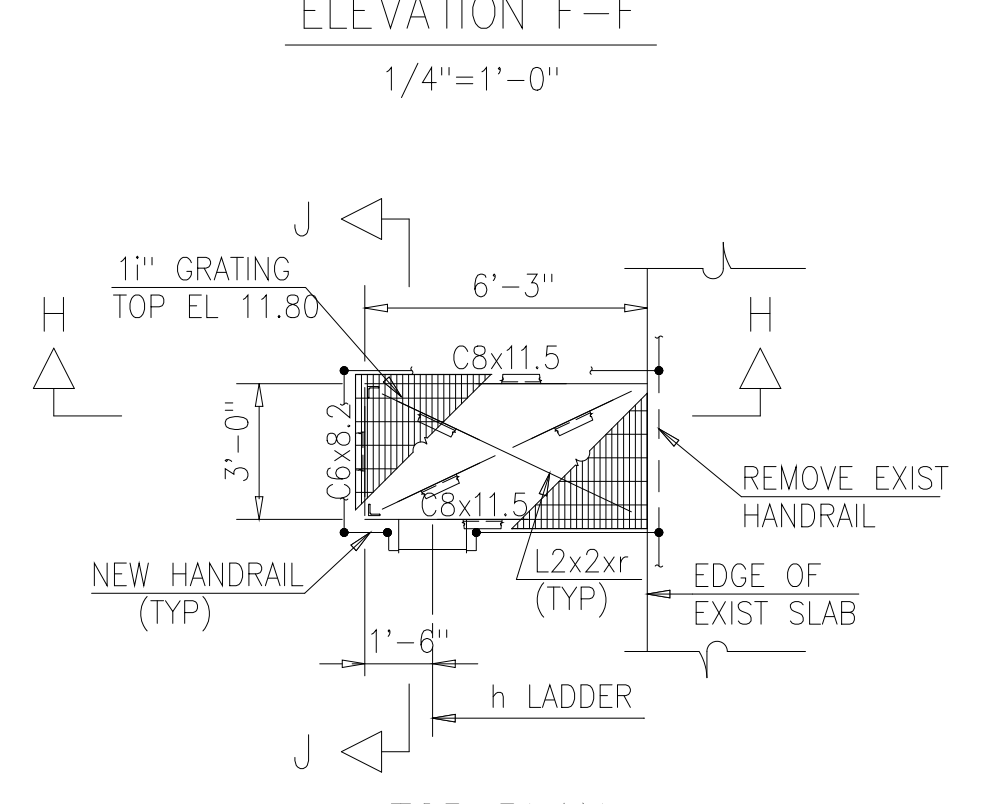
PIPE SUPPORT AND PLATFORM No 7
(FOR LOCATION SEE DWG S-213)
r"=1'-0"



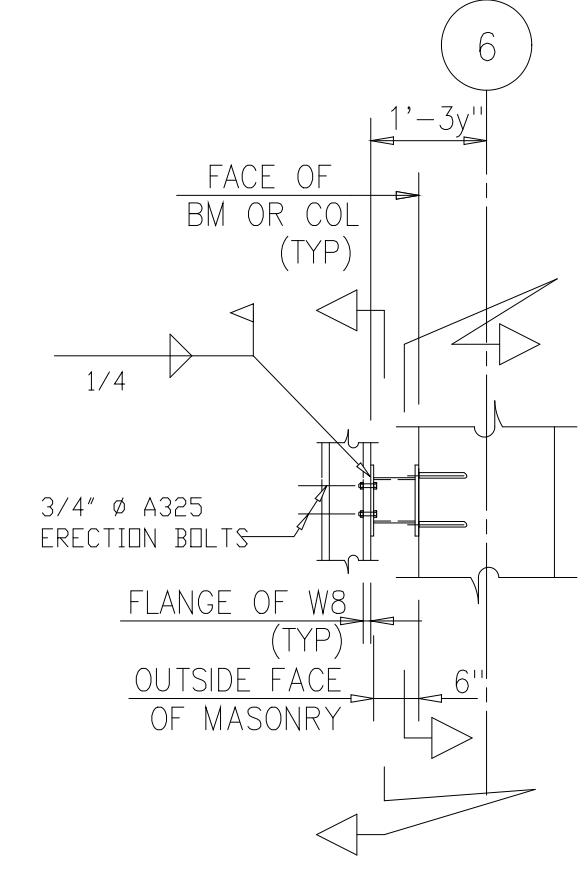
ELEVATION H-H
r"=1'-0"

ELEVATION J-J
r"=1'-0"

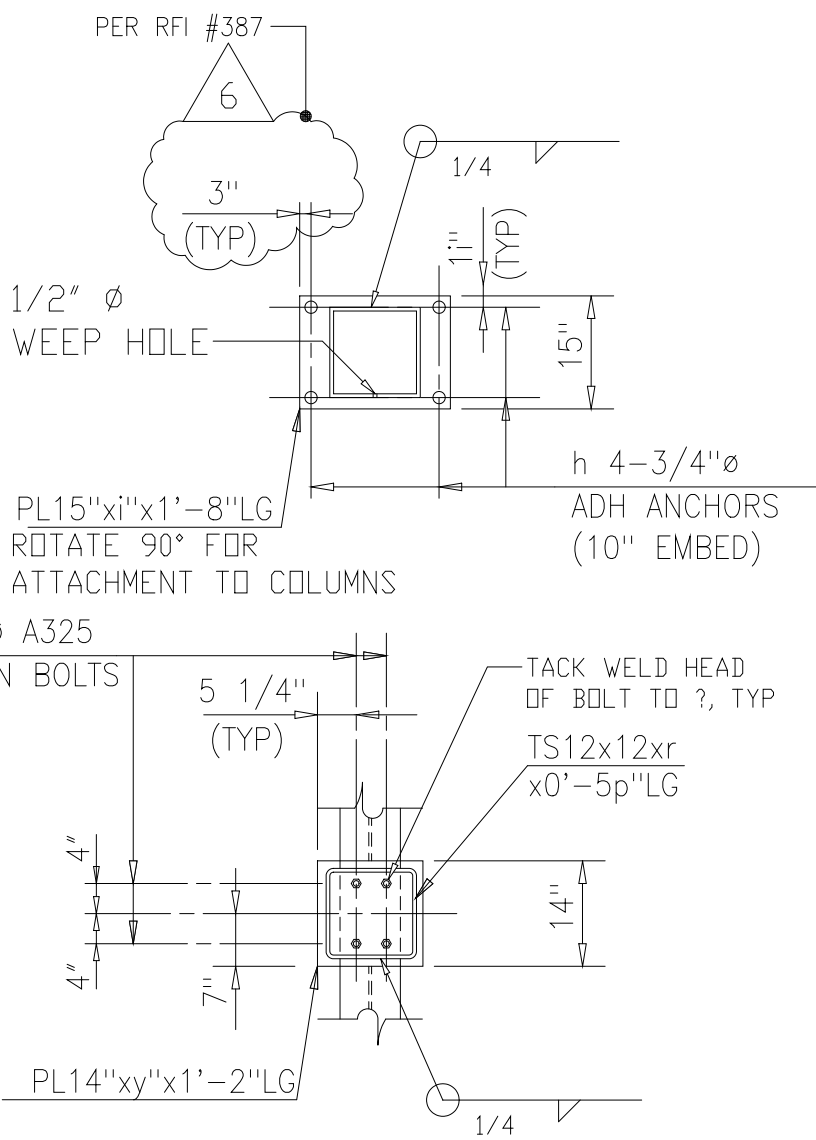
PLATFORM AT EXISTING
SLUDGE STORAGE TANKS No 1 & No 2
(FOR LOCATION SEE DWG M-311)



TOP PLAN
TOS EL 11.67
r"=1'-0"



DETAIL 3
1/2"=1'-0"



DETAIL 1
1/2"=1'-0"

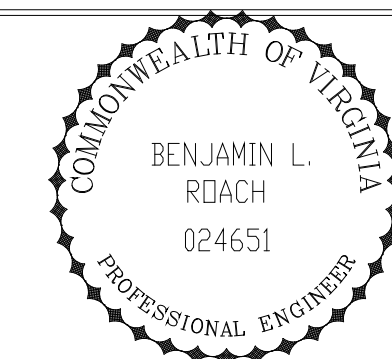
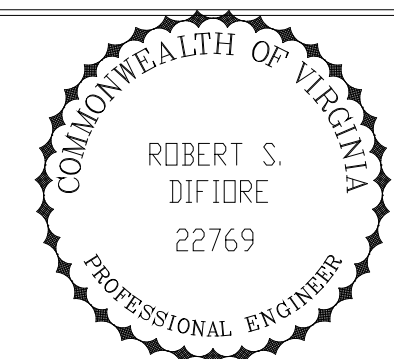
DETAIL 2
1/2"=1'-0"

RECORD DRAWING

PLOT DATE: 10/10/94 FILE: H:\MISC\DWGS\WPC\WPC6.DWG BY: MATS WKF FILE: KMG

6	RECORD DRAWING	6-99	MKS
5	MODIFIED O.S.A. DUCT SUPPORTS	3-97	RSD
4	WP6/7 CONST.-LAND APP. REDES.	4-96	RSD
3	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
NO.	ISSUED FOR	DATE	BY

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

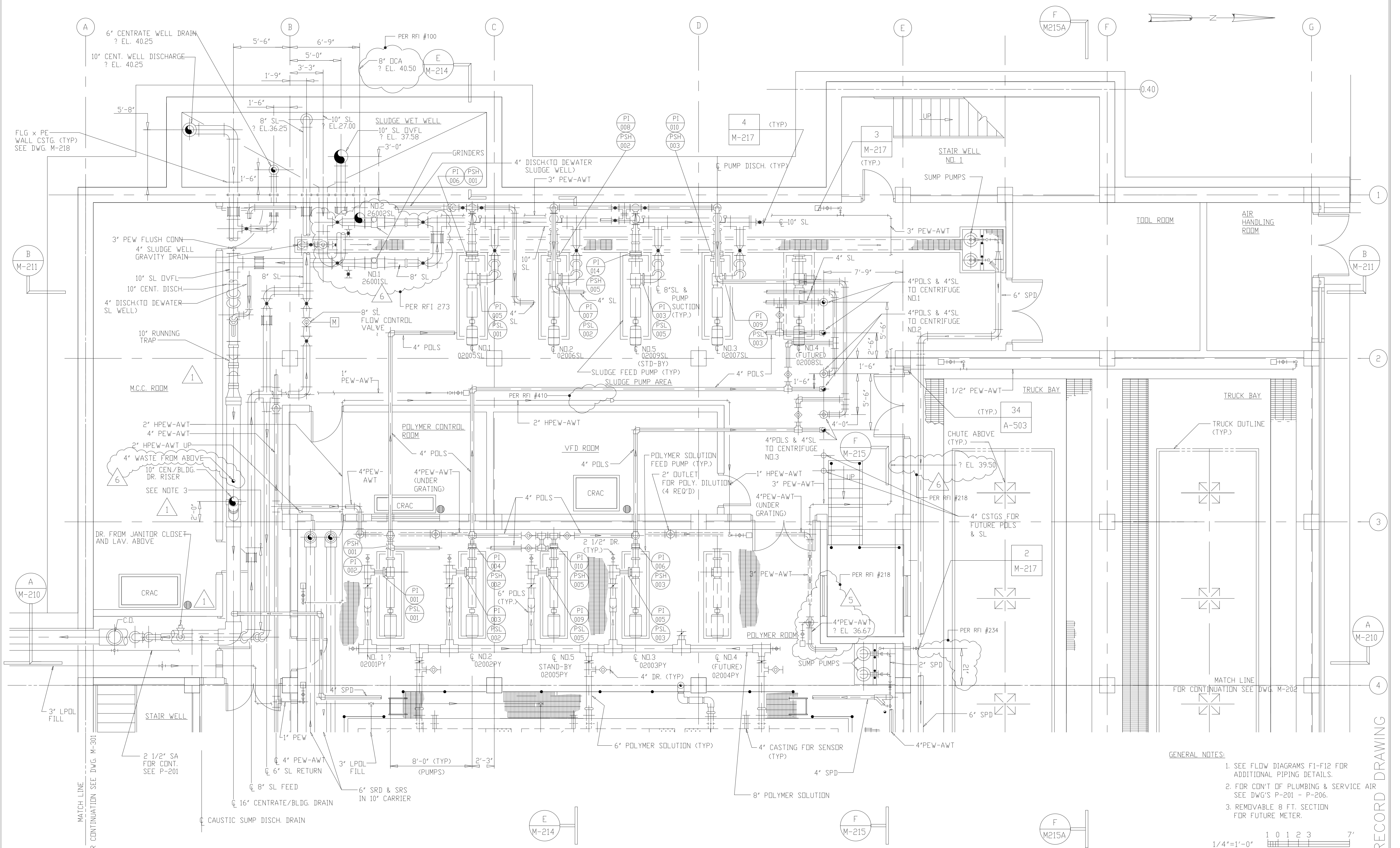


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

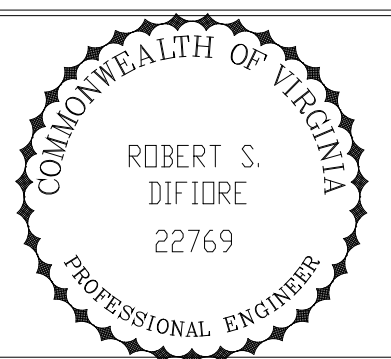
CENTRIFUGE DEWATERING BUILDING
STRUCTURAL
MISCELLANEOUS METALS - SHEET 6

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-235
	SHEET	95 OF 199



- GENERAL NOTES:
1. SEE FLOW DIAGRAMS F1-F12 FOR ADDITIONAL PIPING DETAILS.
 2. FOR CONT. OF PLUMBING & SERVICE AIR SEE DWG'S P-201 - P-206.
 3. REMOVABLE 8 FT. SECTION FOR FUTURE METER.

NO.	ISSUED FOR	DATE	BY	APPROVED
6	RECORD DRAWING	6-99	MKS	DESIGNED: A.A.B.
4	REVISION	4-96	J.J.B.	DRAWN: N.N.
4	WP-3 CONST-LAND APP.REDES.	3-96	J.J.B.	CHECKED: A.A.B.
3	WP-3 APPROVAL-LAND APP.REDES.	1-96	J.J.B.	PROJ.ENGR: J.J.B.
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

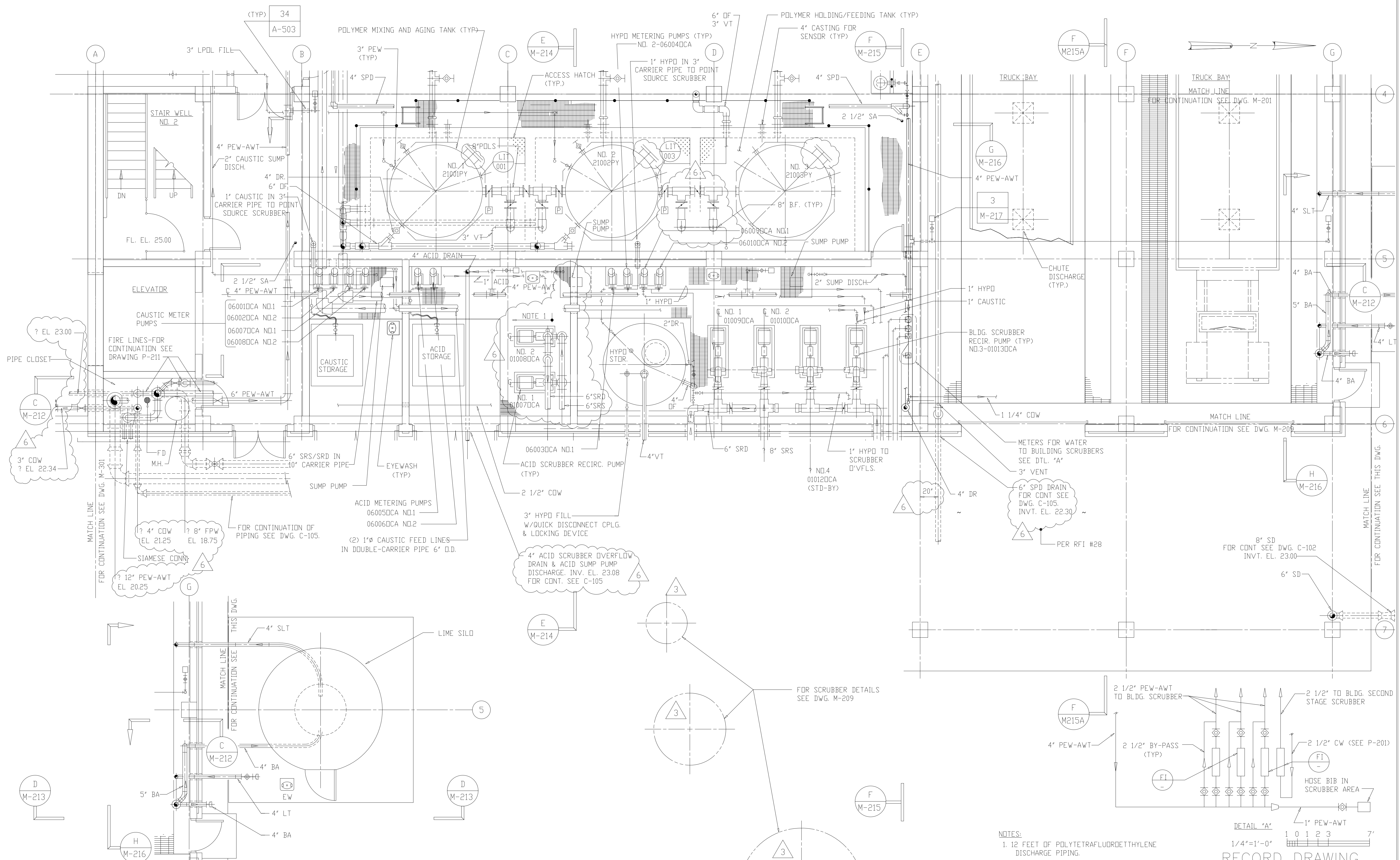


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
MECHANICAL
PLAN AT ELEVATION 25.00
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M-201
	SHEET 96 OF 199

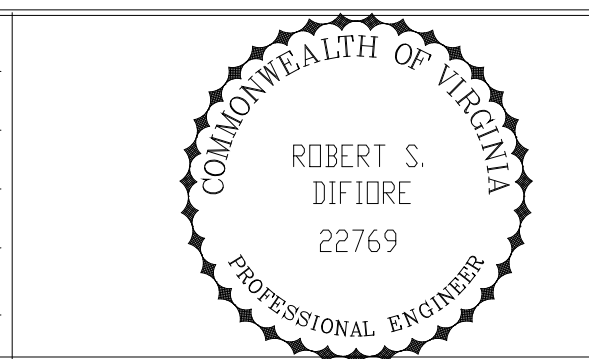


NOTES:
 1. 12 FEET OF POLYTETRAFLUOROETHYLENE DISCHARGE PIPING.

DETAIL 'A'
 1/4" = 1'-0"
 1 0 1 2 3 7'

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
6	RECORD DRAWING	9-99	MKS	DESIGNED: A.A.B.
5	GENERAL REVISIONS	9-96	J.J.B.	DRAWN: N.N.
4	WP-3 CONST-LAND APP. REDES.	3-96	J.J.B.	CHECKED: A.A.B.
3	WP-3 APPROVAL-LAND APPREDES.	1-96	J.J.B.	PROJ.ENGR: J.J.B.
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

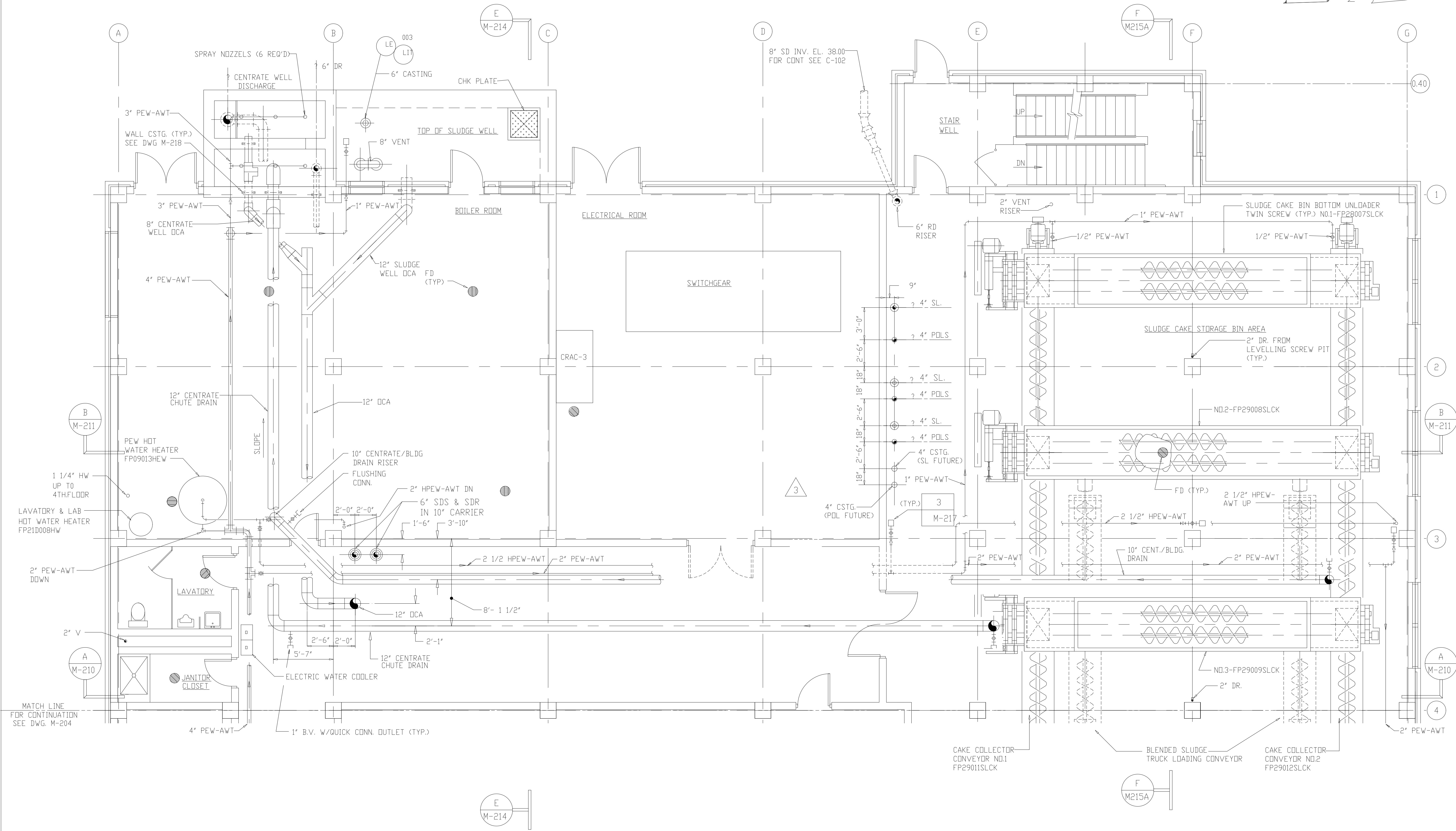
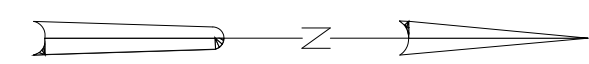


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 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

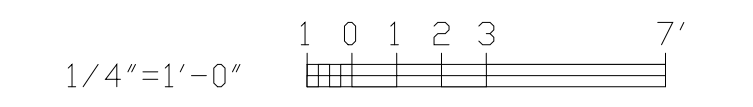
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 MECHANICAL
 PLAN AT ELEVATION 25.00
 SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M-202
	SHEET 97 OF 199



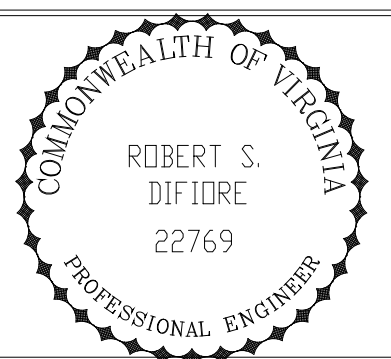
MATCH LINE FOR CONTINUATION SEE DWG. M-204



RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
4	GENERAL REVISIONS	9-96	J.J.B.	
4	WP-4 CONST.-LAND APPREDES.	4-96	J.J.B.	
3	WP-4 APPROVAL-LAND APPREDES.	3-96	J.J.B.	
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

DESIGNED	A.A.B.
DRAWN	N.N.
CHECKED	A.A.B.
PROJ.ENGR.	J.J.B.
	J.J.B.

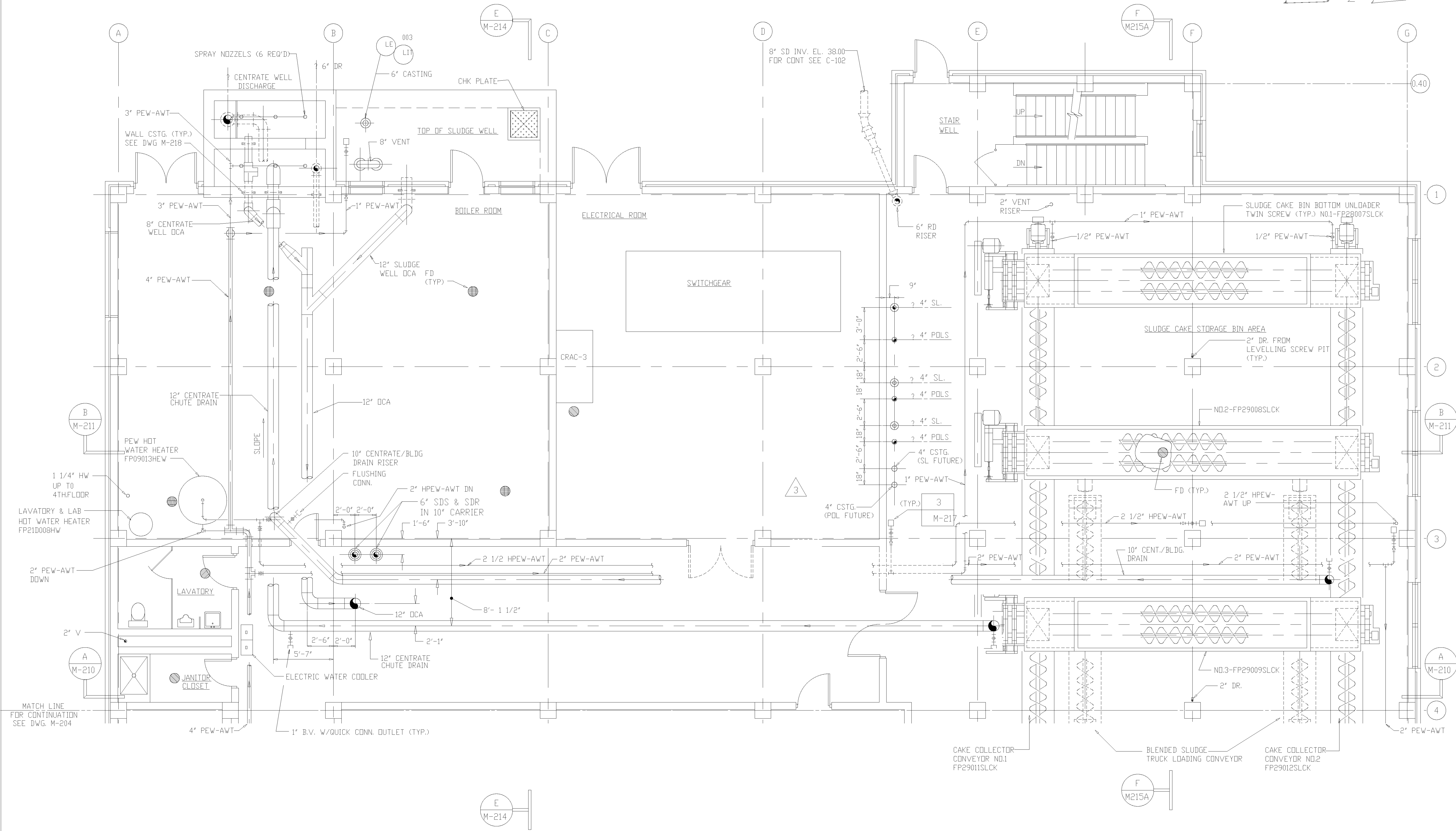
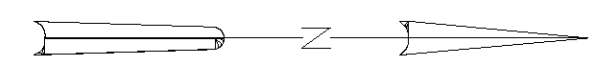


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RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

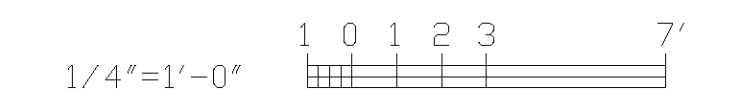
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
MECHANICAL
PLAN AT ELEVATION 43.00
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M-203
	SHEET 98 OF 199



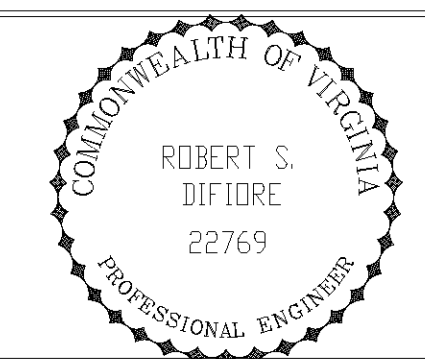
MATCH LINE
FOR CONTINUATION
SEE DWG. M-204



1/4"=1'-0"
RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
4	GENERAL REVISIONS	9-96	J.J.B.	
4	WP-4 CONST.-LAND APPRECS.	4-96	J.J.B.	
3	WP-4 APPROVAL-LAND APPRECS.	1-96	J.J.B.	
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

DESIGNED	A.A.B.
DRAWN	N.N.
CHECKED	A.A.B.
PROJ.ENGR.	J.J.B.
	J.J.B.

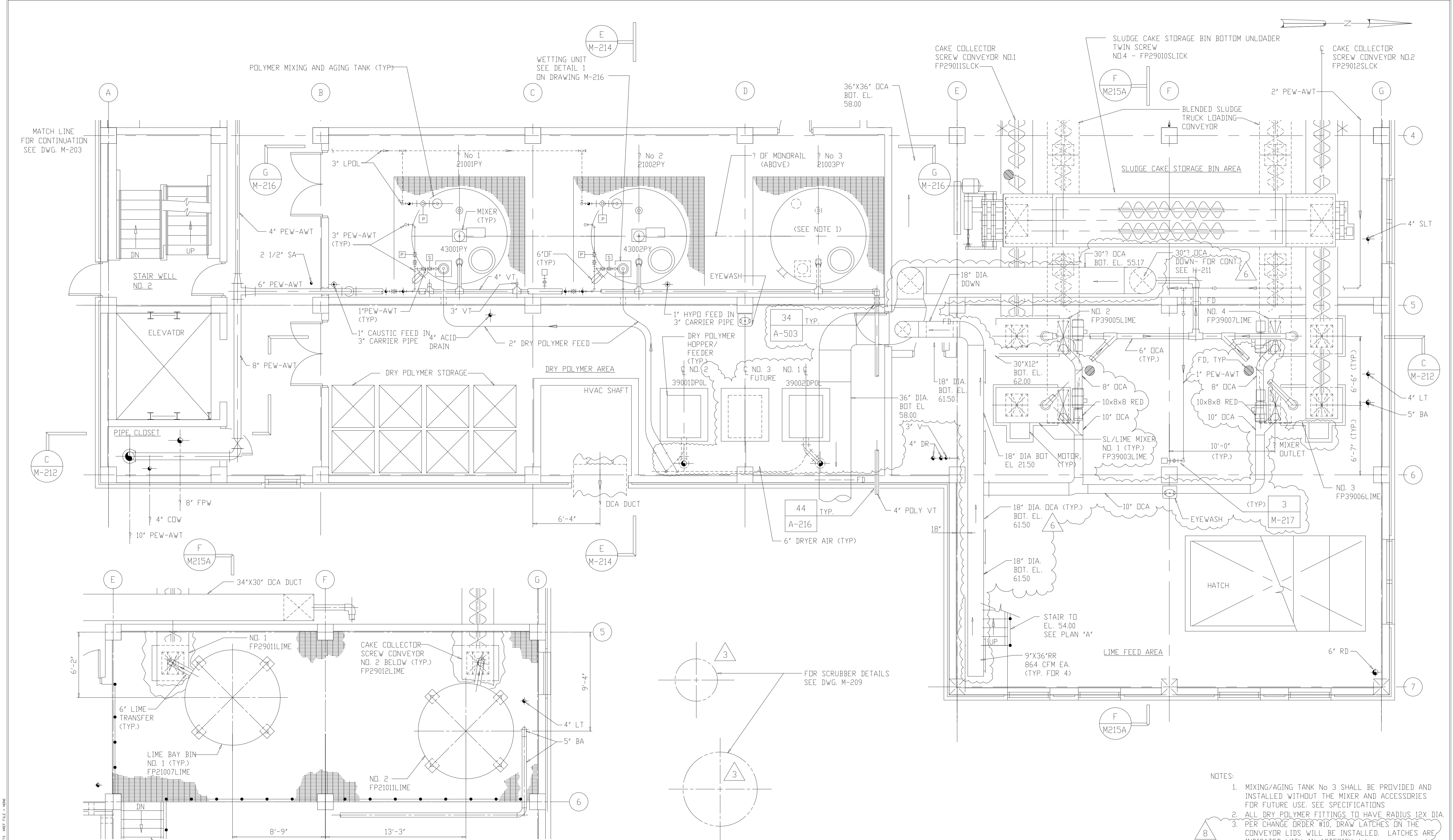


HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

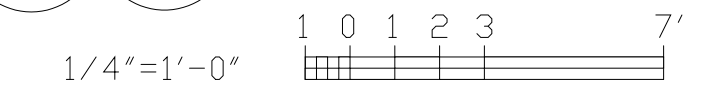
CENTRIFUGE DEWATERING BUILDING
MECHANICAL
PLAN AT ELEVATION 43.00
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M-203
	SHEET 98 OF 199



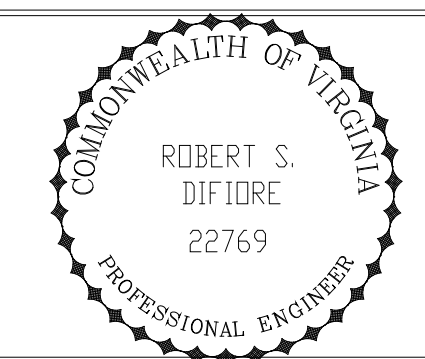
PLAN "A" - AT EL. 54.00

- NOTES:
- MIXING/AGING TANK No 3 SHALL BE PROVIDED AND INSTALLED WITHOUT THE MIXER AND ACCESSORIES FOR FUTURE USE. SEE SPECIFICATIONS
 - ALL DRY POLYMER FITTINGS TO HAVE RADIUS 12X DIA.
 - PER CHANGE ORDER #10, DRAW LATCHES ON THE CONVEYOR LIDS WILL BE INSTALLED. LATCHES ARE INDICATED WITH AN ASTERISK (*).



RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
6	RECORD DRAWING	9-99	MKS	DESIGNED A.A.B.
5	GENERAL REVISIONS	9-96	J.J.B.	DRAWN N.N.
4	WP-4 CONST.-LAND APP.REDES.	4-96	J.J.B.	CHECKED A.A.B.
3	WP-4 APPROVAL-LAND APP.REDES.	1-96	J.J.B.	PROJ.ENGR. J.J.B.
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

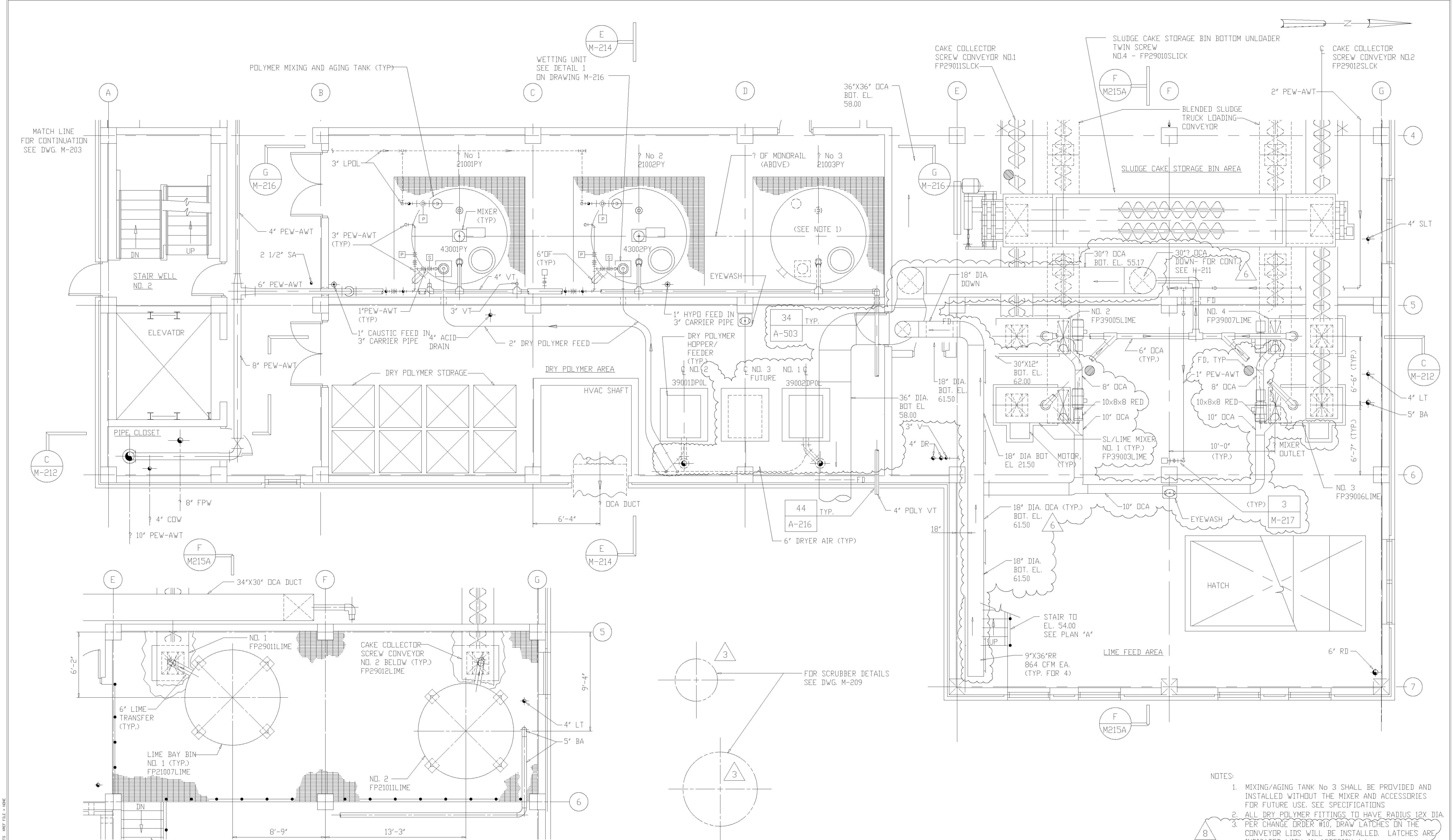


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WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

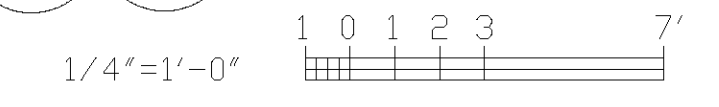
CENTRIFUGE DEWATERING BUILDING
MECHANICAL
PLAN AT ELEVATION 43.00
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
CONTRACT NUMBER 93-02-WPC	DRAWING NUMBER M-204
SHEET 99	OF 199



PLAN "A" - AT EL. 54.00

NOTES:
 1. MIXING/AGING TANK No 3 SHALL BE PROVIDED AND INSTALLED WITHOUT THE MIXER AND ACCESSORIES FOR FUTURE USE. SEE SPECIFICATIONS
 2. ALL DRY POLYMER FITTINGS TO HAVE RADIUS 12X DIA.
 3. PER CHANGE ORDER #10, DRAW LATCHES ON THE CONVEYOR LIDS WILL BE INSTALLED. LATCHES ARE INDICATED WITH AN ASTERISK (*).
 8



RECORD DRAWING

NO.	COUNTY REGULATORY APPROVAL ISSUED FOR	DATE	BY	APPROVED
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	J.J.B.
2	CONSTRUCTION	9-94	J.J.B.	J.J.B.
3	WP-4 APPROVAL-LAND APP.REDES.	1-96	J.J.B.	J.J.B.
4	WP-4 CONST.-LAND APP.REDES.	4-96	J.J.B.	J.J.B.
5	GENERAL REVISIONS	9-96	J.J.B.	J.J.B.
6	RECORD DRAWING	9-99	MKS	A.A.B.

DESIGNED	A.A.B.
DRAWN	N.N.
CHECKED	A.A.B.
PROJ.ENGR.	J.J.B.
APPROVED	J.J.B.

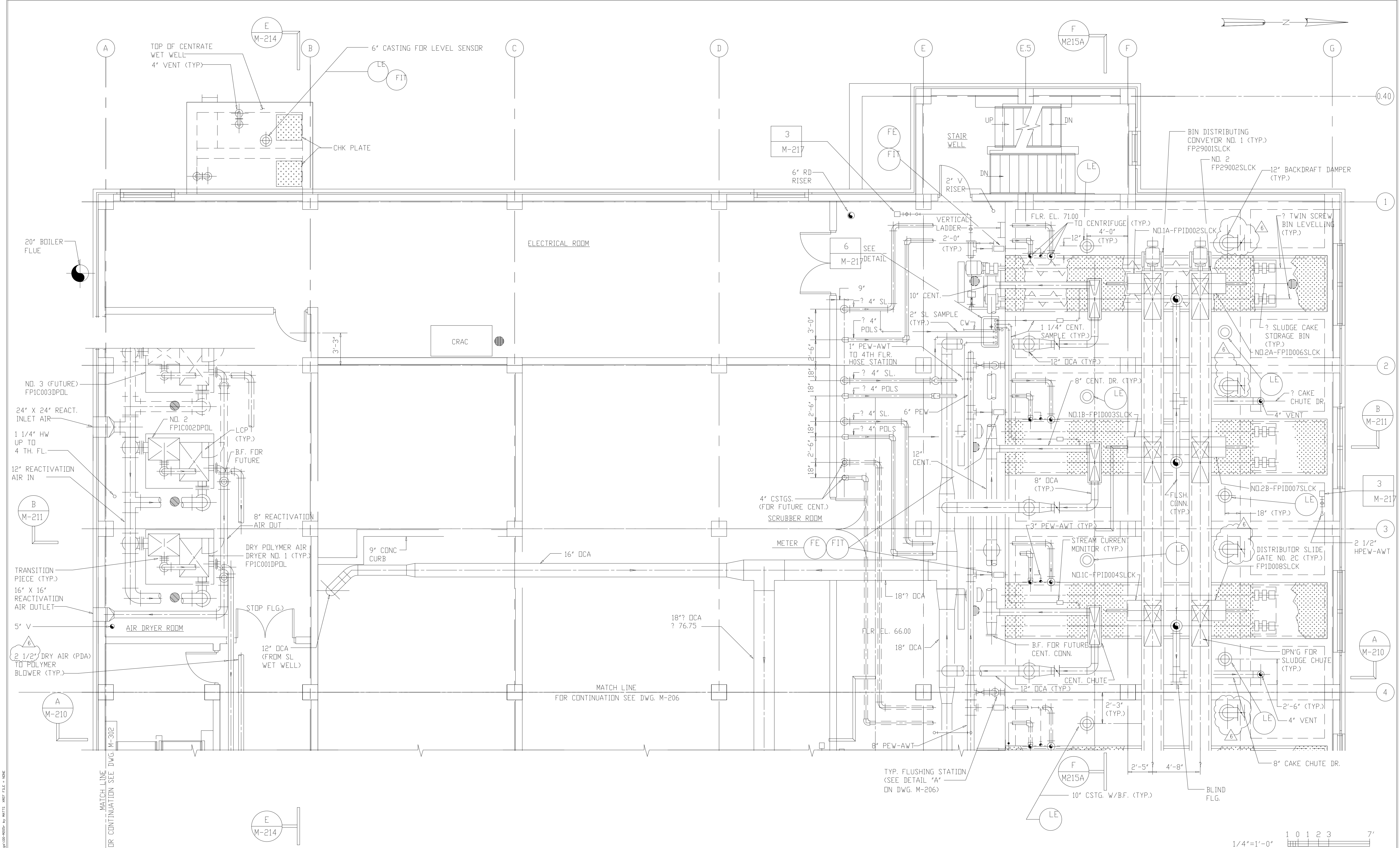
ROBERT S. DIFIORE
 22769
 PROFESSIONAL ENGINEER

HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

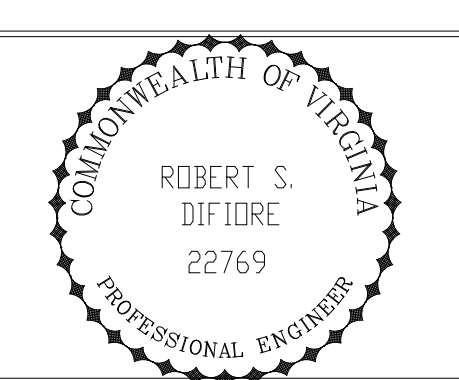
CENTRIFUGE DEWATERING BUILDING
 MECHANICAL
 PLAN AT ELEVATION 43.00
 SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M-204
	SHEET 99 OF 199



1/4"=1'-0"
 1 0 1 2 3 7'
 RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
6	RECORD DRAWING	8-99	F.X.P.	A.A.B.
5	GENERAL REVISIONS	9-96	J.J.B.	N.N.
4	WP-5 CONST.-LAND APP.REDES.	4-96	J.J.B.	A.A.B.
3	WP-5 APPROVAL-LAND APP.REDES.	2-96	J.J.B.	J.J.B.
2	CONSTRUCTION	9-94	J.J.B.	J.J.B.
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	J.J.B.

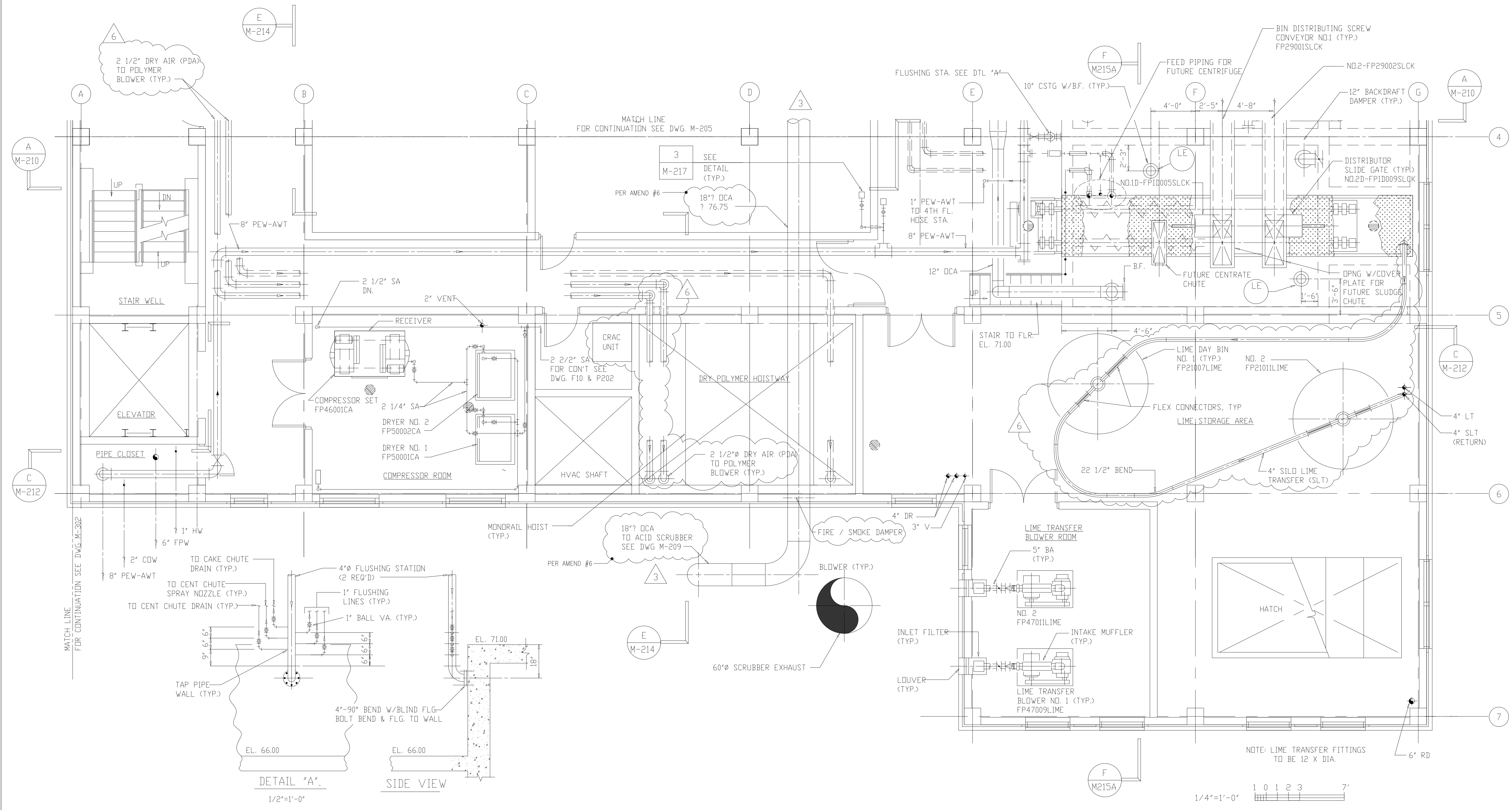
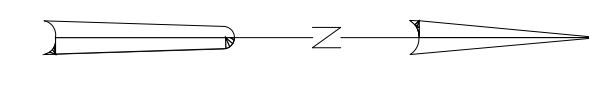


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 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

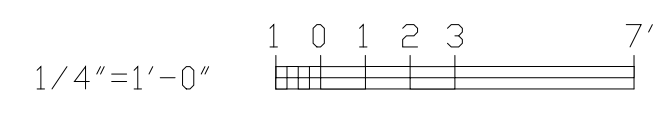
CENTRIFUGE DEWATERING BUILDING
 MECHANICAL
 PLAN AT ELEVATION 66.00
 SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M-205
	SHEET 100 OF 199



DETAIL "A"
1/2"=1'-0"

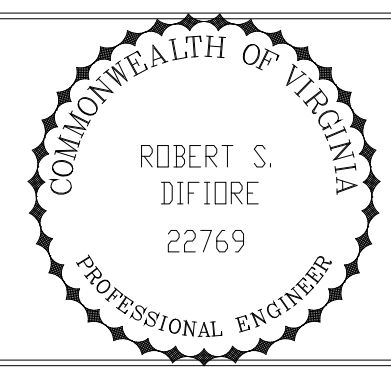
SIDE VIEW



NOTE: LIME TRANSFER FITTINGS TO BE 12 X DIA.

6	RECORD DRAWING	6-99	MKS
5	GENERAL REVISIONS	9-96	J.J.B.
4	WP-5 CONST.-LAND APP.REDES.	4-96	J.J.B.
3	WP-5 APPROVAL-LAND APP.REDES.	2-96	J.J.B.
2	CONSTRUCTION	9-94	J.J.B.
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.
NO.	ISSUED FOR	DATE	BY

DESIGNED	A.A.B.
DRAWN	N.N.
CHECKED	A.A.B.
PROJ.ENGR.	J.J.B.
APPROVED	J.J.B.



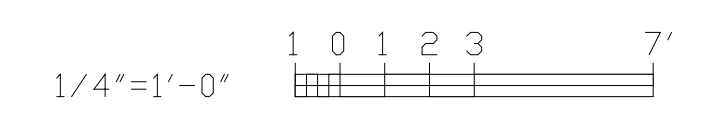
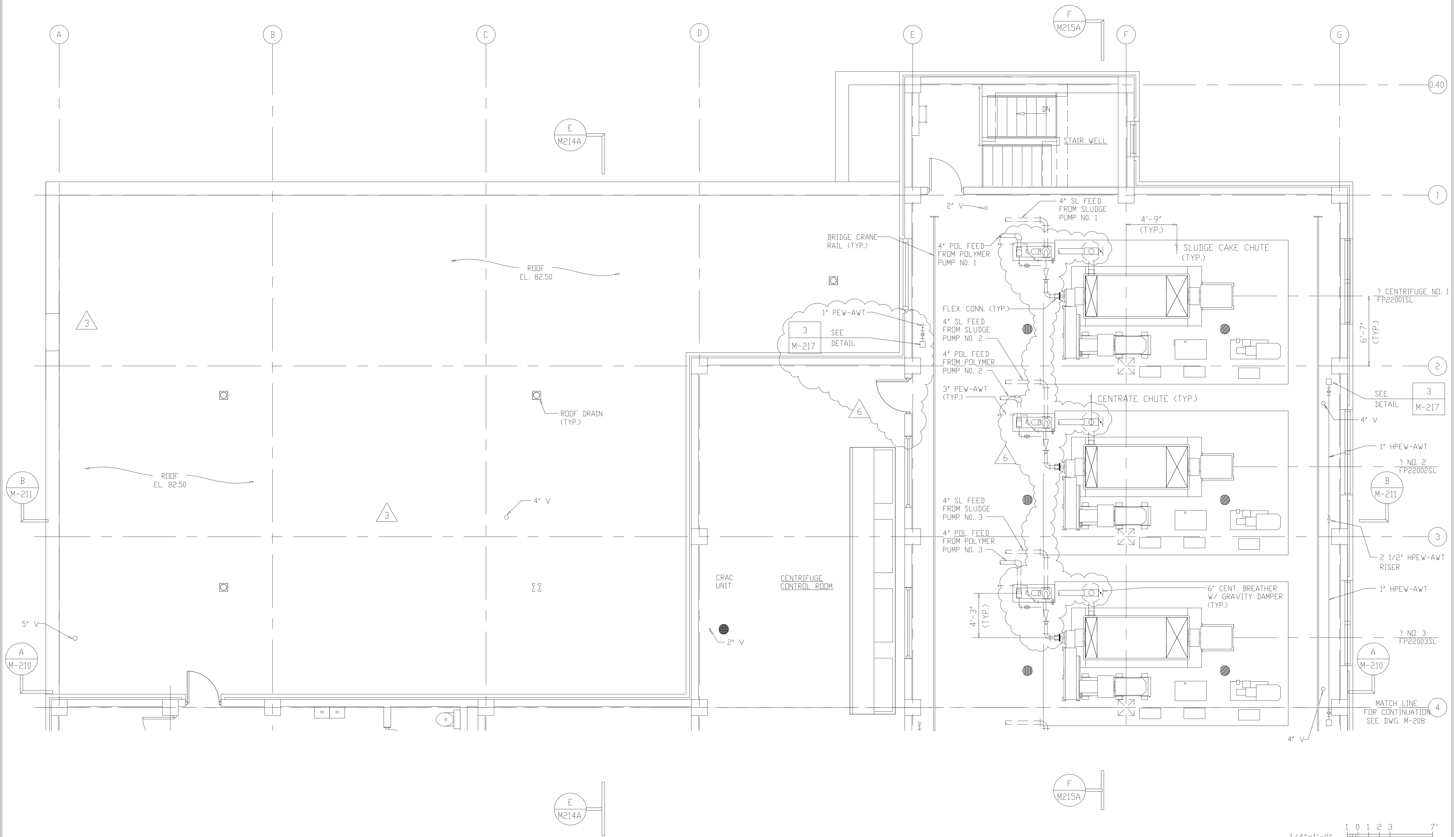
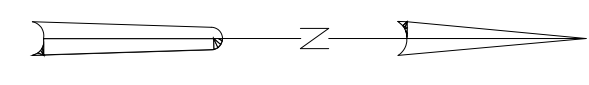
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RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
MECHANICAL
PLAN AT ELEVATION 66.00
SHEET 2

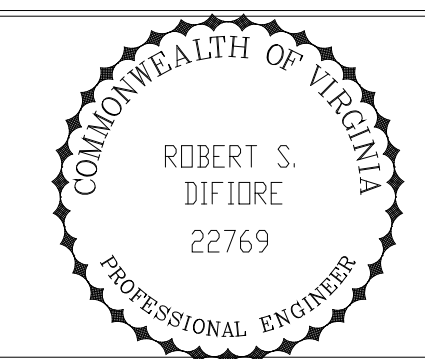
RECORD DRAWING

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT. 1994
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	M-206
	SHEET	101 OF 199



1/4"=1'-0" RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
6	CONTRACT DRAWINGS	6-99	MKS	DESIGNED: A.A.B.
5	GENERAL REVISIONS	9-96	J.J.B.	DRAWN: N.N.
4	WP6/7 CONST.-LAND APP.REDES.	4-96	J.J.B.	CHECKED: A.A.B.
3	WP6/7 APPROVAL-LAND APP.REDES.	3-96	J.J.B.	PROJ.ENGR.: J.J.B.
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

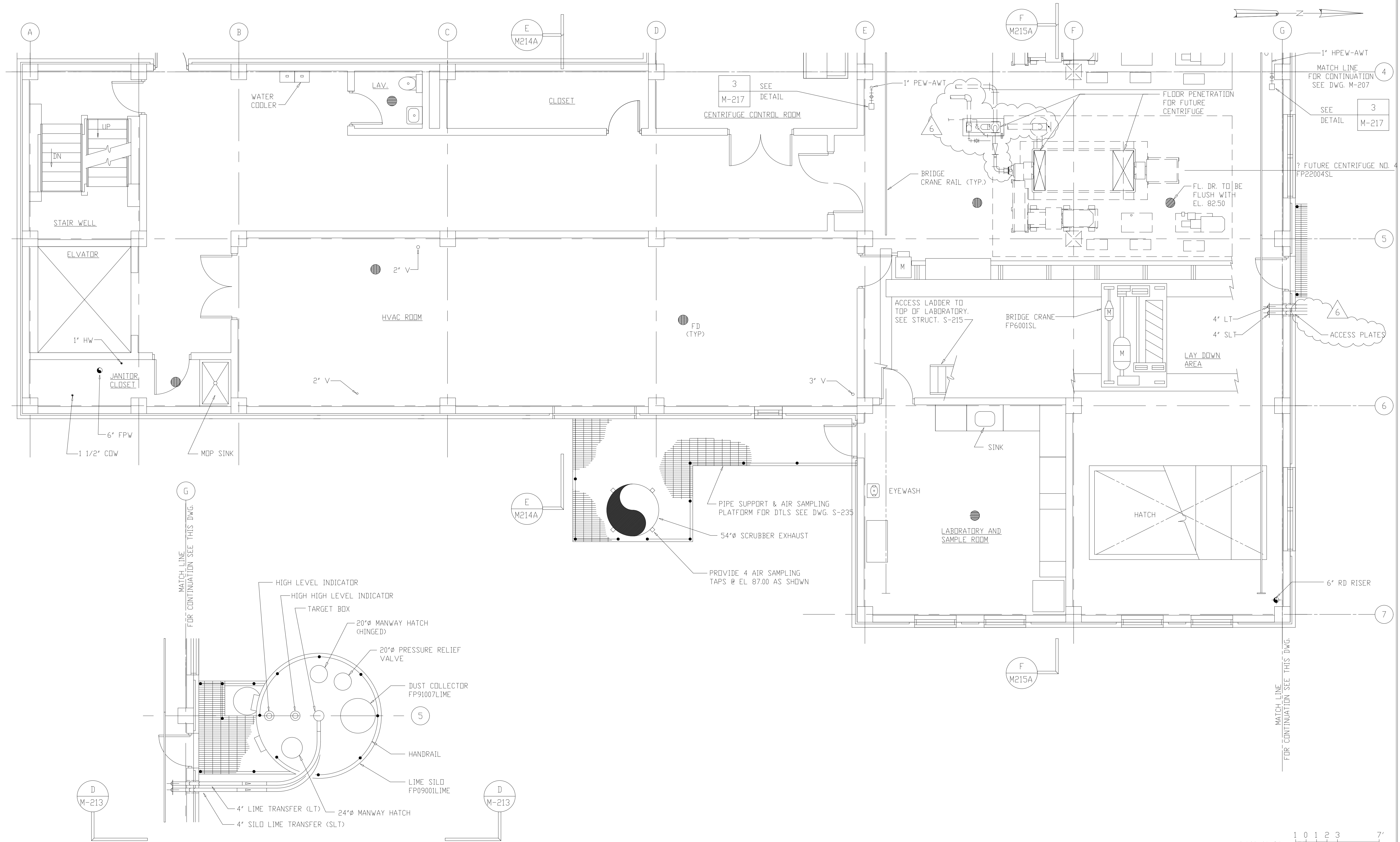


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
MECHANICAL
PLAN AT ELEVATION 82.50
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT. 1994
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	M-207
	SHEET	102 OF 199



1/4"=1'-0" 1 0 1 2 3 7'

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
6	RECORD DRAWINGS	8-99	F.X.P.	A.A.B.
5	GENERAL REVISIONS	4-96	J.J.B.	N.N.
4	WP6/7 CONST-LAND APPREDES.	4-96	J.J.B.	A.A.B.
3	WP6/7 APPROVAL-LAND APPREDES.	3-96	J.J.B.	J.J.B.
2	CONSTRUCTION	9-94	J.J.B.	J.J.B.
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	J.J.B.

DESIGNED: A.A.B.
DRAWN: N.N.
CHECKED: A.A.B.
PROJ.ENGR: J.J.B.

COMMONWEALTH OF VIRGINIA
ROBERT S. DIFIORE
22769
PROFESSIONAL ENGINEER

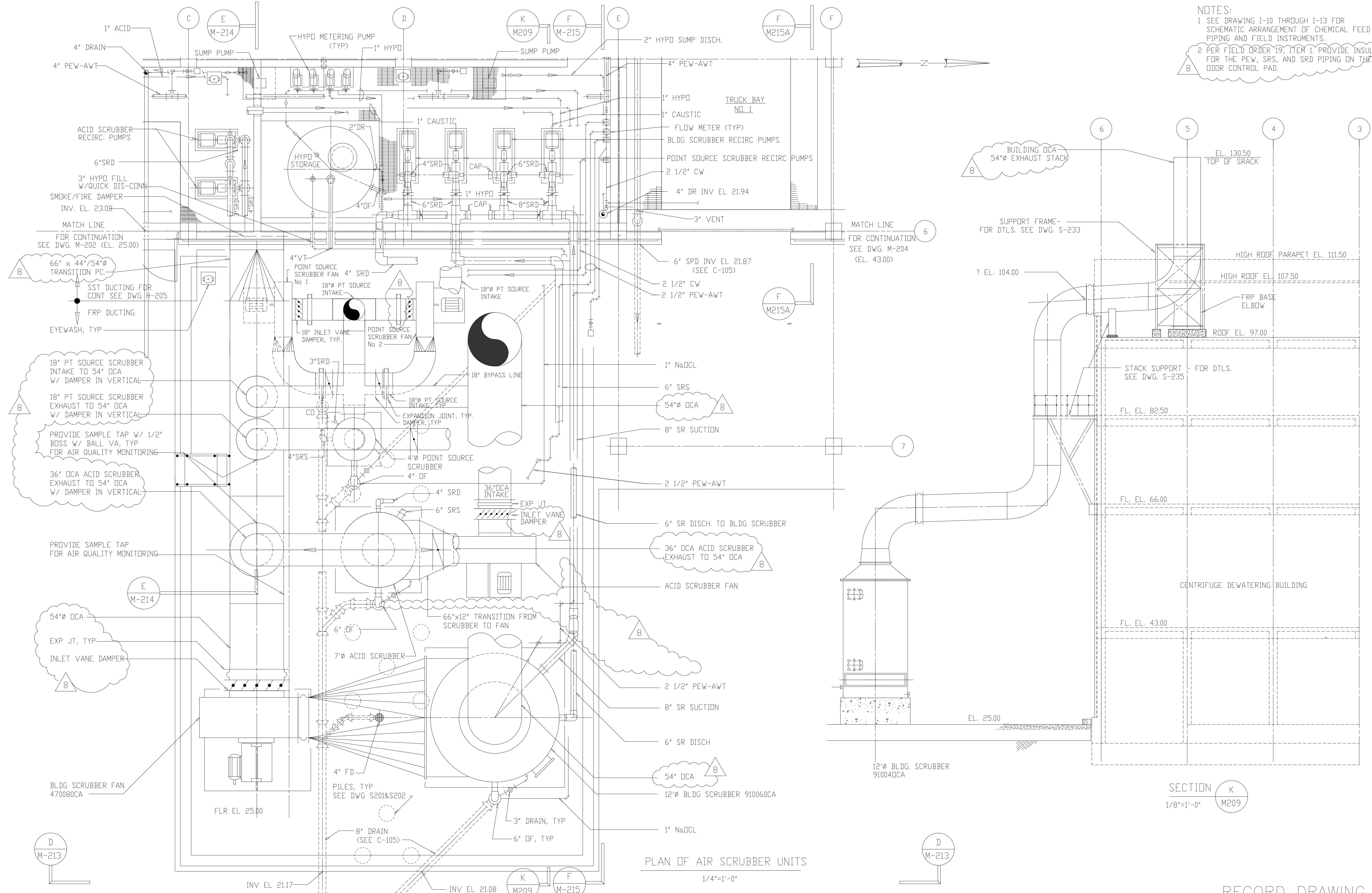
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
MECHANICAL
PLAN AT ELEVATION 82.50
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M-208
	SHEET 103 OF 199

NOTES:
 1 SEE DRAWING I-10 THROUGH I-13 FOR SCHEMATIC ARRANGEMENT OF CHEMICAL FEED PIPING AND FIELD INSTRUMENTS.
 2 PER FIELD ORDER 19, ITEM 1, PROVIDE INSULATION FOR THE PEW, SRS, AND SRD PIPING ON THE ODDR CONTROL PAD.
 8

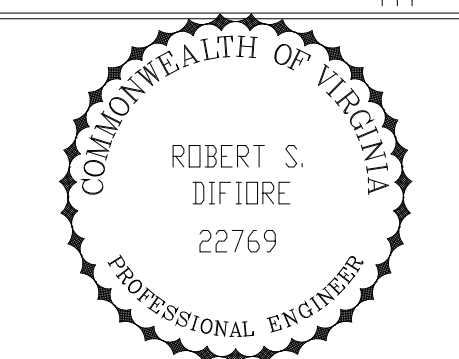


PLAN OF AIR SCRUBBER UNITS
 1/4"=1'-0"

SECTION K
 1/8"=1'-0"
 M209

FILED: 08/24/1999 10:00 AM
 FILE: 118403
 DESIGNED BY: J.J.B.
 DRAWN BY: J.J.B.
 CHECKED BY: J.J.B.
 PROJECT: WP-3 APPROVAL - LAND APPROPRIATION
 COUNTY: 93-02-WPC
 SHEET: 104 OF 199

NO.	REVISIONS	DATE	BY	APPROVED
8	RECORD DRAWINGS	6-99	F.X.P.	A.A.B.
7	GENERAL REVISIONS	9-96	J.J.B.	N.N.
6	CHANGE ORDER	9-96	J.J.B.	
5	REVISION	4-96	J.J.B.	
4	WP-3 CONST - LAND APPROPRIATION	3-96	J.J.B.	
3	WP-3 APPROVAL - LAND APPROPRIATION	1-96	J.J.B.	
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

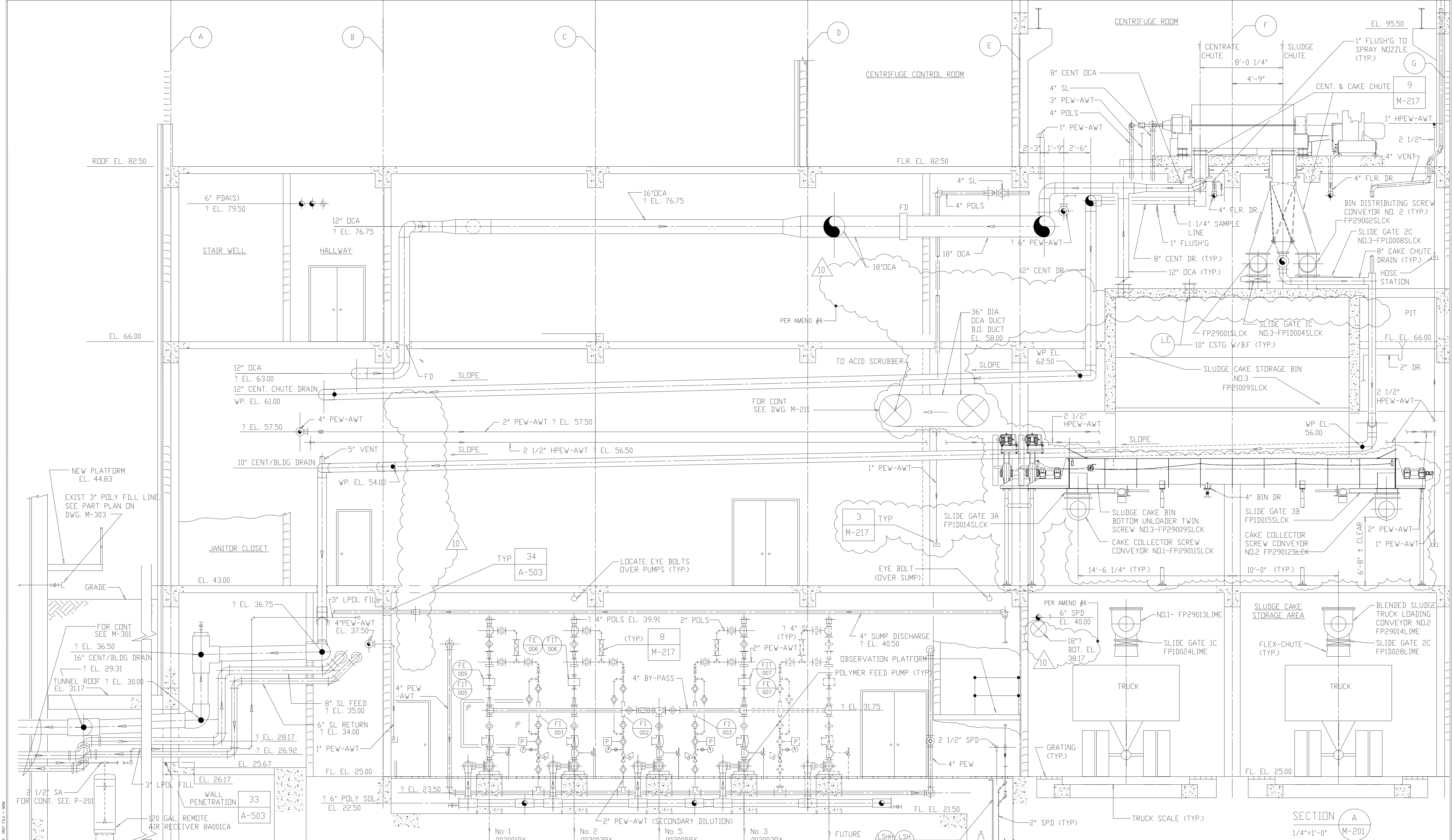


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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 MECHANICAL
 ODDR CONTROL SYSTEM
 PLAN OF AIR SCRUBBER UNITS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
CONTRACT NUMBER 93-02-WPC	H & S JOB NUMBER 2843
DRAWING NUMBER M-209	
SHEET 104 OF 199	

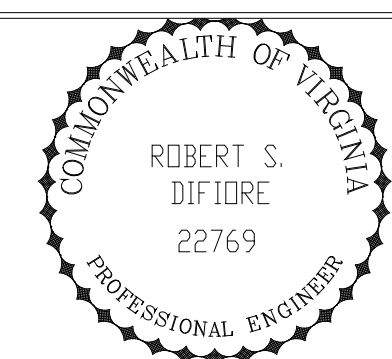


NOTE: 1. SPOOL PIECES TO BE PROVIDED FOR MAGMETER REPLACEMENT.
 2. INSTALL 1" DIA. x 1/4" THICK TEFLON PLATE W/ 3" DRIFICE AT CENTER.

SECTION A
 1/4"=1'-0" M-201

NO.	GENERAL REVISIONS	DATE	BY	NO.	ISSUED FOR	DATE	BY
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	10	RECORD DRAWING	6-99	
2	CONSTRUCTION	9-94	J.J.B.				
3	WP-3 APPROVAL LAND APP. REDES.	1-96	J.J.B.				
4	WP-4 APPROVAL LAND APP. REDES.	1-96	J.J.B.				
5	WP-5 APPROVAL LAND APP. REDES.	2-96	J.J.B.				
6	WP-6 APPROVAL LAND APP. REDES.	3-96	J.J.B.				
7	WP-7 APPROVAL LAND APP. REDES.	3-96	J.J.B.				
8	WP-4 CONST. LAND APP. REDES.	3-96	J.J.B.				
9	WP-4 CONST. LAND APP. REDES.	4-96	J.J.B.				
10	WP-4,5,6,7 CONST. LAND APP. REDES.	9-96	J.J.B.				

DESIGNED A.A.B.
 DRAWN N.N.
 CHECKED A.A.B.
 PROJ. ENGR. J.J.B.
 APPROVED J.J.B.

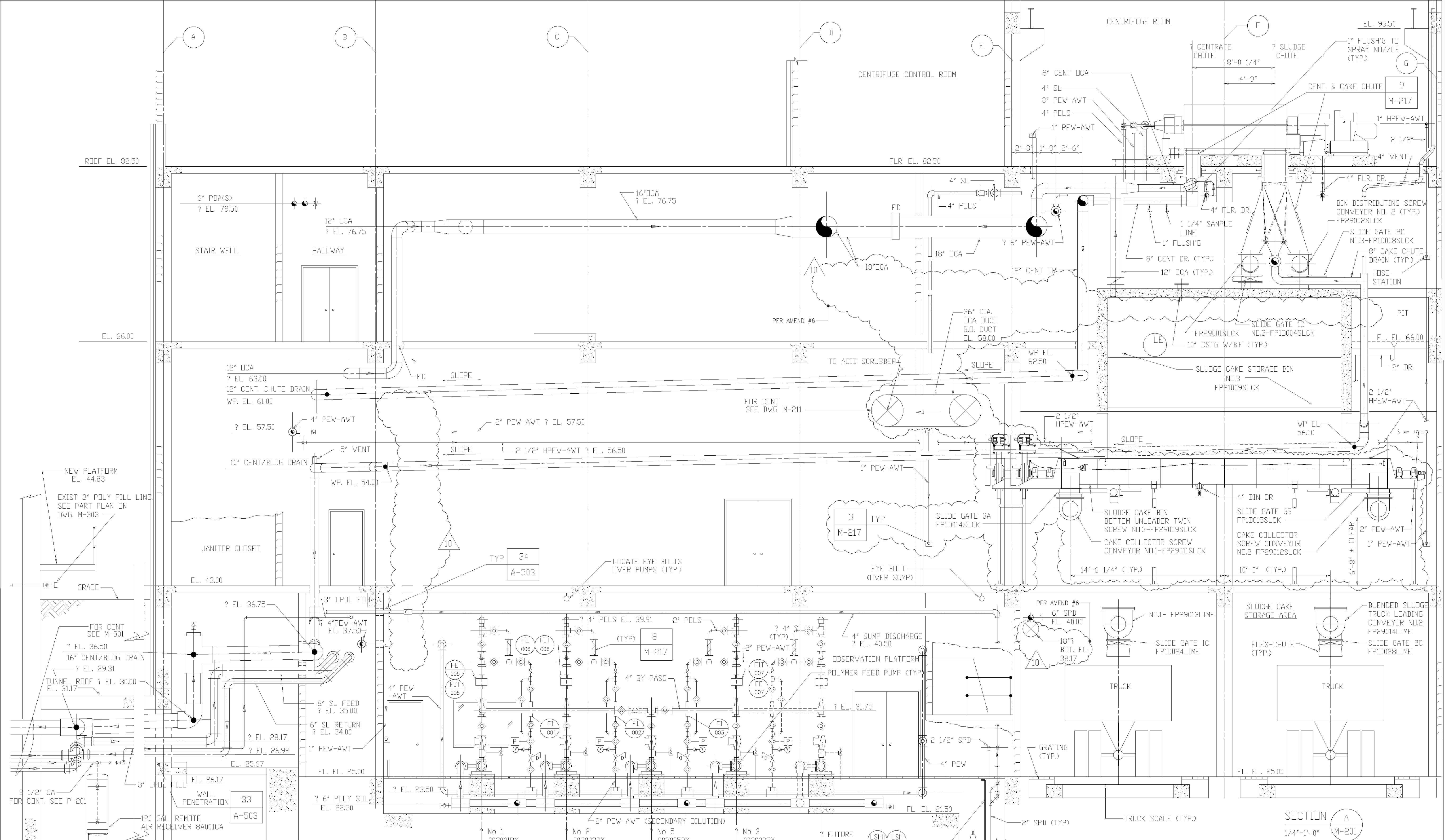


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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 MECHANICAL
 BUILDING SECTIONS
 SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M-210
	SHEET 105 OF 199

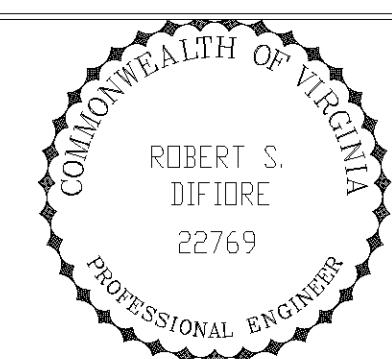


NOTE: 1. SPOOL PIECES TO BE PROVIDED FOR MAGMETER REPLACEMENT.
 2. INSTALL 1" DIA. x 1/4" THICK TEFLON PLATE W/ 3" DRIFICE AT CENTER.

RECORD DRAWING

NO.	GENERAL REVISIONS	DATE	BY	NO.	RECORD DRAWING ISSUED FOR	DATE	BY
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	10	6-99		
2	CONSTRUCTION	9-94	J.J.B.				
3	WP-3 APPROVAL-LAND APP.REDES.	1-96	J.J.B.				
4	WP-4 APPROVAL-LAND APP.REDES.	1-96	J.J.B.				
5	WP-5 APPROVAL-LAND APP.REDES.	2-96	J.J.B.				
6	WP-6/7 APPROVAL-LAND APP.REDES.	3-96	J.J.B.				
7	WP-4 CONST-LAND APP.REDES.	3-96	J.J.B.				
8	WP-4,5,6,7 CONST-LAND APP.REDES.	4-96	J.J.B.				
9	9-96	J.J.B.					

DESIGNED: A.A.B.
 DRAWN: N.N.
 CHECKED: A.A.B.
 PROJ.ENGR.: J.J.B.
 APPROVED: J.J.B.

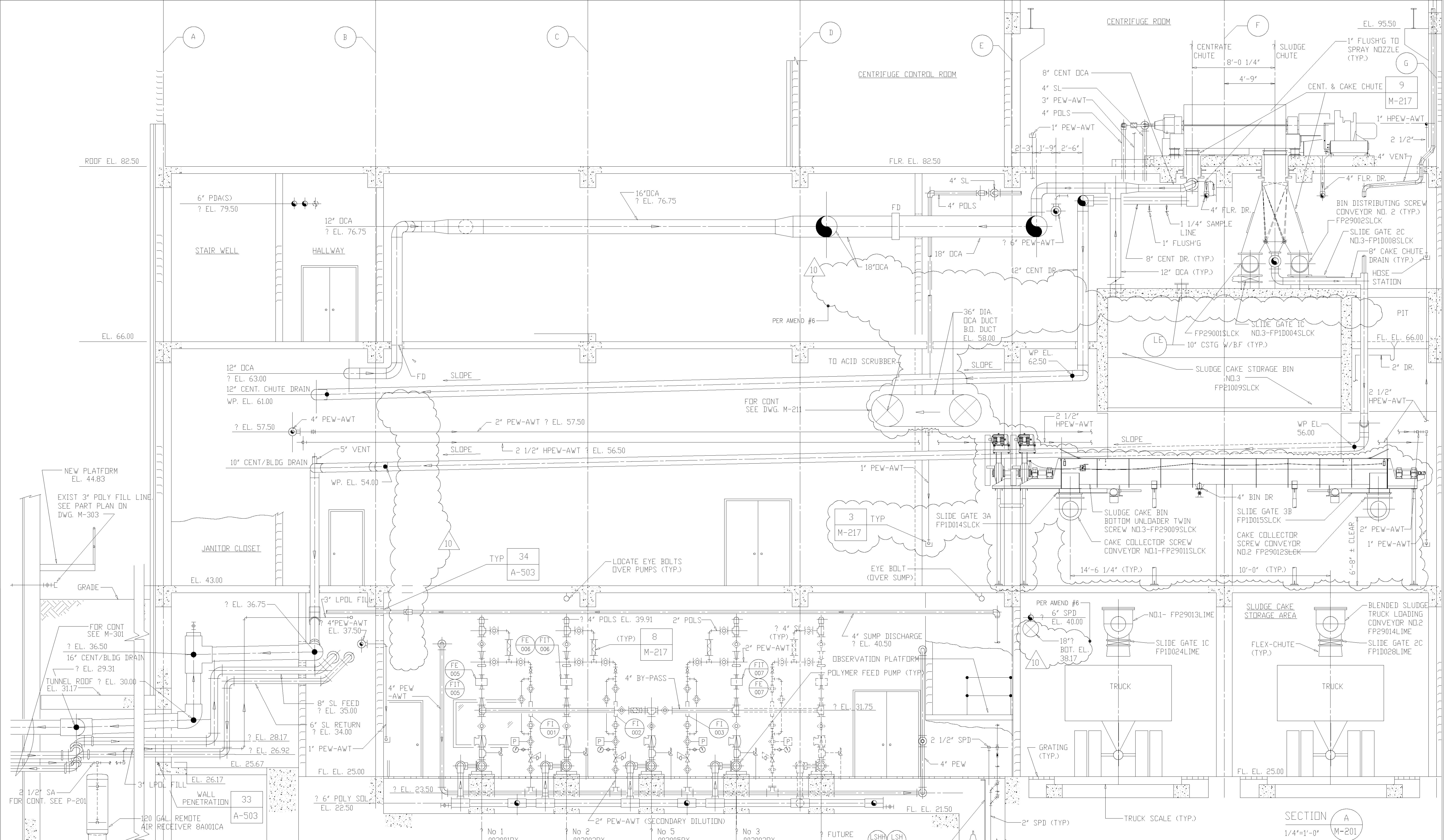


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CENTRIFUGE DEWATERING BUILDING
 MECHANICAL
 BUILDING SECTIONS
 SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE: 1994
	H & S JOB NUMBER: 2843
	CONTRACT NUMBER: 93-02-WPC
	DRAWING NUMBER: M-210
	SHEET 105 OF 199

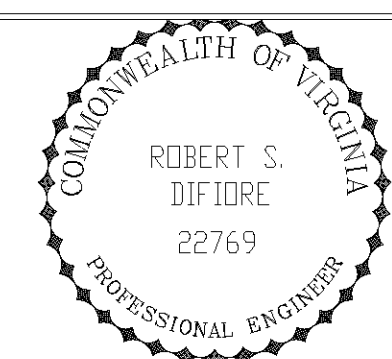


NOTE: 1. SPOOL PIECES TO BE PROVIDED FOR MAGMETER REPLACEMENT.
 2. INSTALL 1" DIA. x 1/4" THICK TEFLON PLATE W/ 3" DRIFICE AT CENTER.

RECORD DRAWING

NO.	GENERAL REVISIONS	DATE	BY	NO.	RECORD DRAWING ISSUED FOR	DATE	BY
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	10	6-99		
2	CONSTRUCTION	9-94	J.J.B.				
3	WP-3 APPROVAL-LAND APP.REDES.	1-96	J.J.B.				
4	WP-4 APPROVAL-LAND APP.REDES.	1-96	J.J.B.				
5	WP-5 APPROVAL-LAND APP.REDES.	2-96	J.J.B.				
6	WP-6 APPROVAL-LAND APP.REDES.	3-96	J.J.B.				
7	WP-7 APPROVAL-LAND APP.REDES.	3-96	J.J.B.				
8	WP-4 CONST-LAND APP.REDES.	4-96	J.J.B.				
9	WP-5,6,7 CONST-LAND APP.REDES.	9-96	J.J.B.				

DESIGNED: A.A.B.
 DRAWN: N.N.
 CHECKED: A.A.B.
 PROJ.ENGR.: J.J.B.
 APPROVED: J.J.B.

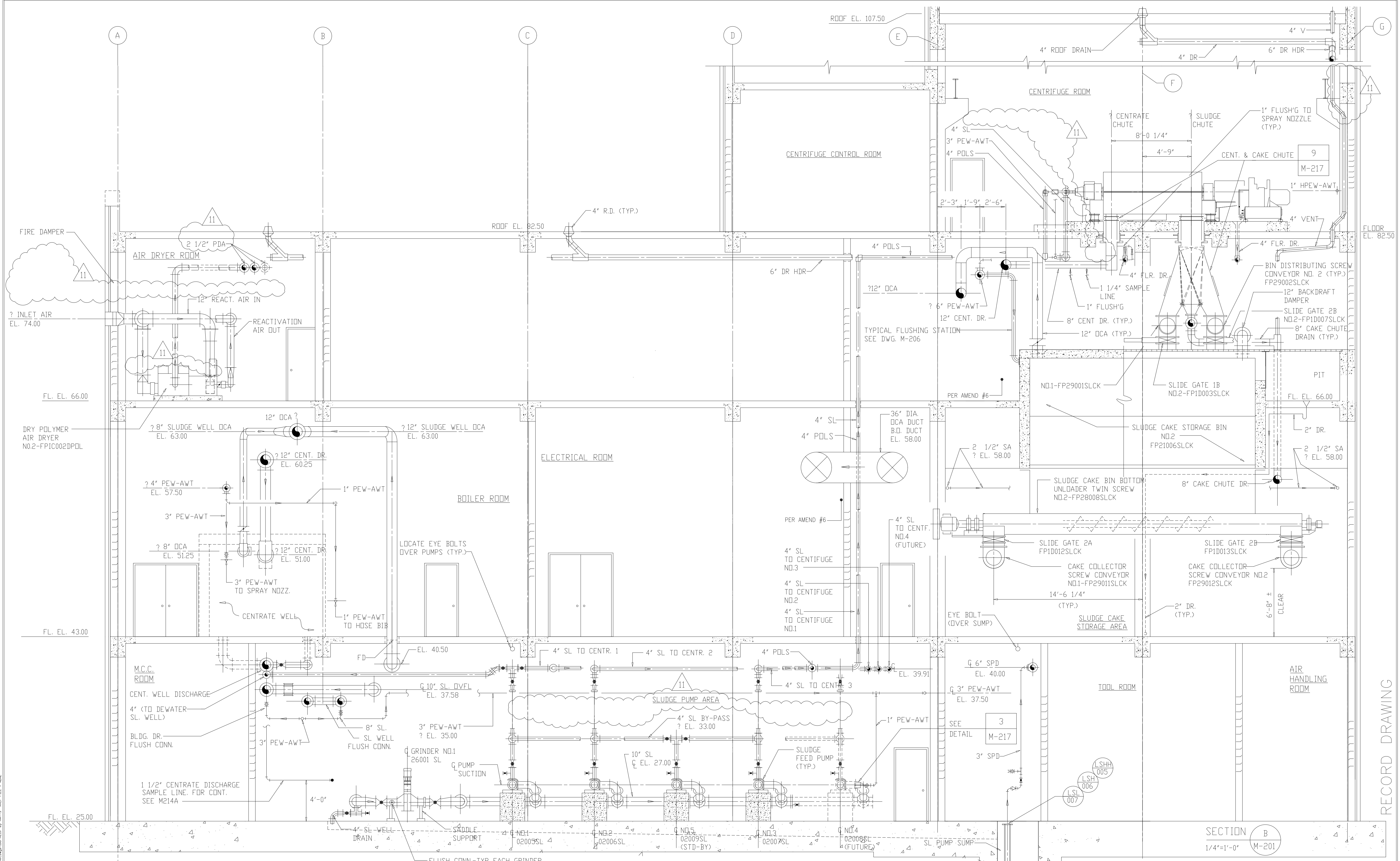


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ARLINGTON COUNTY
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 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 MECHANICAL
 BUILDING SECTIONS
 SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE: 1994
	H & S JOB NUMBER: 2843
	CONTRACT NUMBER: 93-02-WPC
	DRAWING NUMBER: M-210
	SHEET 105 OF 199



9	WP4,5,6/7 CONST-LAND APP.REDES.	4-96	J.J.B.	DESIGNED	A.A.B.
8	REVISED WP-3	4-96	J.J.B.	DRAWN	N.N.
7	WP6/7 APPROVAL-LAND APP.REDES.	3-96	J.J.B.	CHECKED	A.A.B.
6	WP-3 CONST-LAND APP.REDES.	3-96	J.J.B.	PROJ.ENGR.	J.J.B.
5	WP-5 APPROVAL-LAND APP.REDES.	2-96	J.J.B.		
4	WP-4 APPROVAL-LAND APP.REDES.	1-96	J.J.B.		
3	WP-3 APPROVAL-LAND APP.REDES.	1-96	J.J.B.		
2	CONSTRUCTION	9-94	J.J.B.		
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.		
NO.	ISSUED FOR	DATE	BY	APPROVED	

11	RECORD DRAWING	8-99	F.X.P.
10	GENERAL REVISIONS	9-96	J.J.B.
NO	ISSUED FOR	DATE	BY

COMMONWEALTH OF VIRGINIA	
ROBERT S. DIFIDORE	
22769	
PROFESSIONAL ENGINEER	

HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

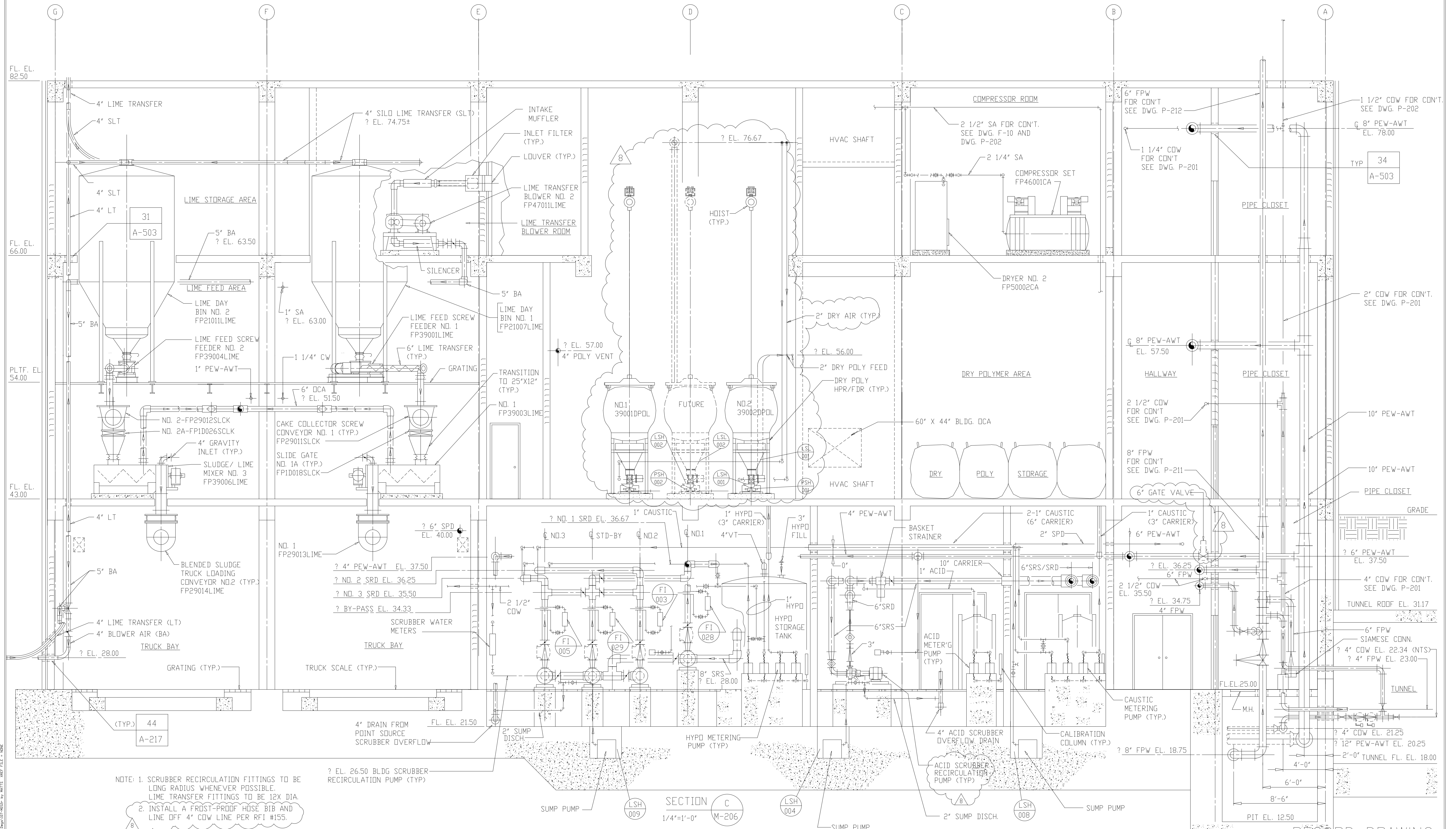
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
MECHANICAL
BUILDING SECTIONS
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

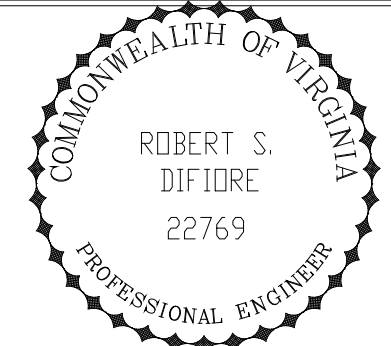
DATE SEPT. 1994
H & S JOB NUMBER 2843
CONTRACT NUMBER 93-02-WPC
DRAWING NUMBER M-211
SHEET 106 OF 199

RECORD DRAWING



RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
8	RECORD DRAWINGS	6-99	F.X.P.	A.A.B.
7	WP-4, 5 CONST-LAND APPROVEDS.	4-96	J.J.B.	N.N.
6	WP-3 CONST-LAND APPROVEDS.	3-96	J.J.B.	
5	WP-5 APPROVAL-LAND APPROVEDS.	2-96	J.J.B.	
4	WP-4 APPROVAL-LAND APPROVEDS.	1-96	J.J.B.	
3	WP-3 APPROVAL-LAND APPROVEDS.	1-96	J.J.B.	
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

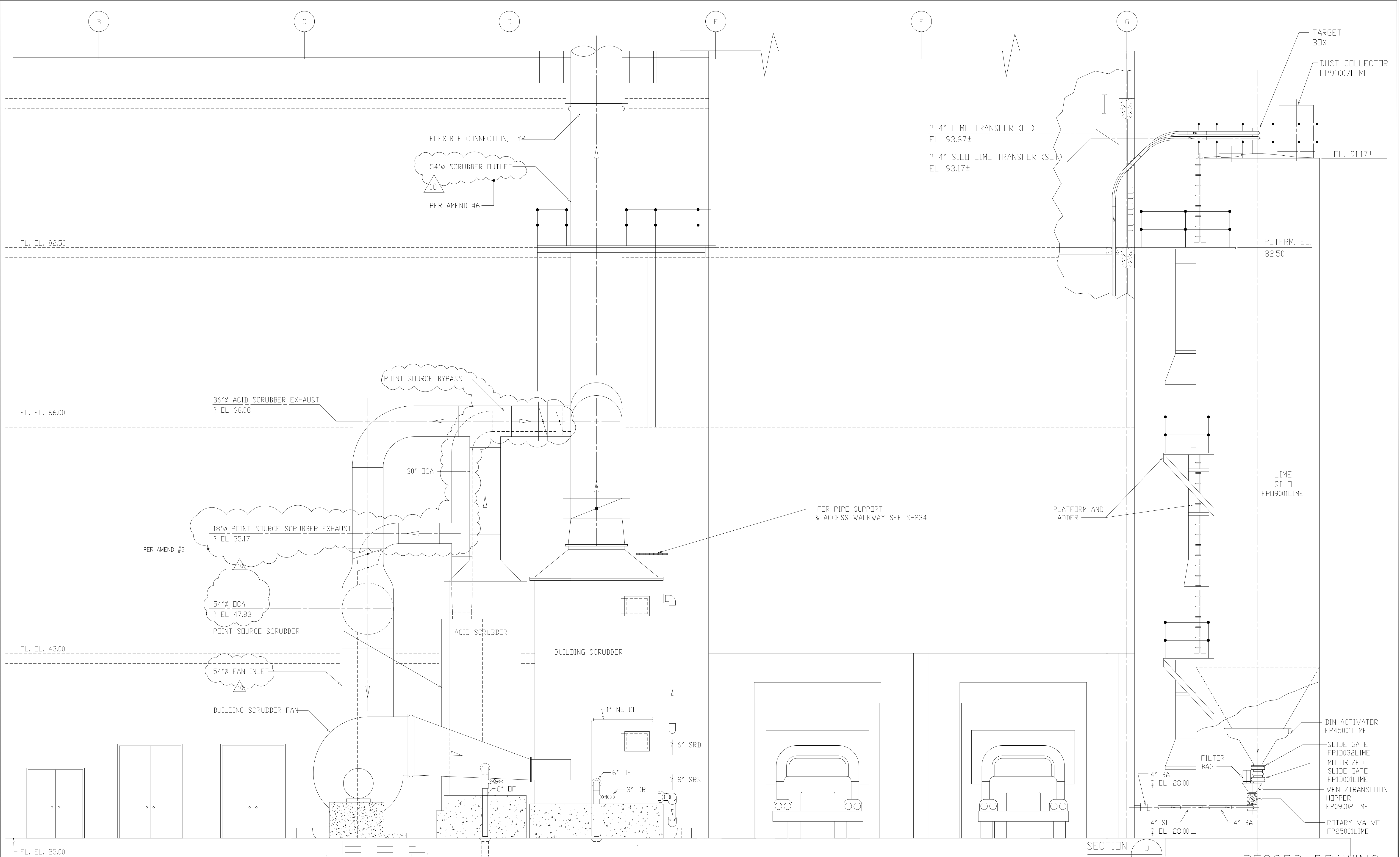


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SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
MECHANICAL
BUILDING SECTIONS
SHEET 3

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC	DRAWING NUMBER M-212
	SHEET 107 OF 199	

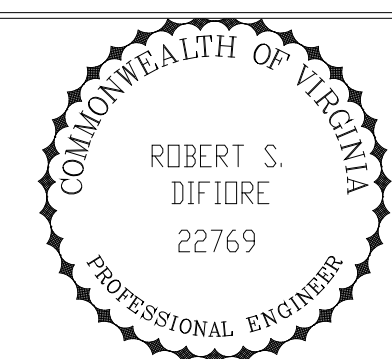


SECTION D
1/4"=1'-0" M-209

RECORD DRAWING

NO.	GENERAL REVISIONS	DATE	BY	NO.	RECORD DRAWING ISSUED FOR	DATE	MKS
3	GENERAL REVISIONS	9-96	J.J.B.				
2	CHANGE ORDER	9-96	J.J.B.				
7	WP-4,6,7/7 CONST.-LAND APP.REDES.	4-96	J.J.B.				
6	WP6/7 APPROVAL-LAND APP.REDES.	3-96	J.J.B.				
5	WP-5 APPROVAL-LAND APP.REDES.	3-96	J.J.B.				
4	WP-4 APPROVAL-LAND APP.REDES.	1-96	J.J.B.				
3	WP-3 APPROVAL-LAND APP.REDES.	1-96	J.J.B.				
2	CONSTRUCTION	9-94	J.J.B.				
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	10	RECORD DRAWING	6-99	MKS
	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY

DESIGNED A.A.B.
DRAWN N.N.
CHECKED A.A.B.
PROJ.ENGR. J.J.B.
APPROVED J.J.B.



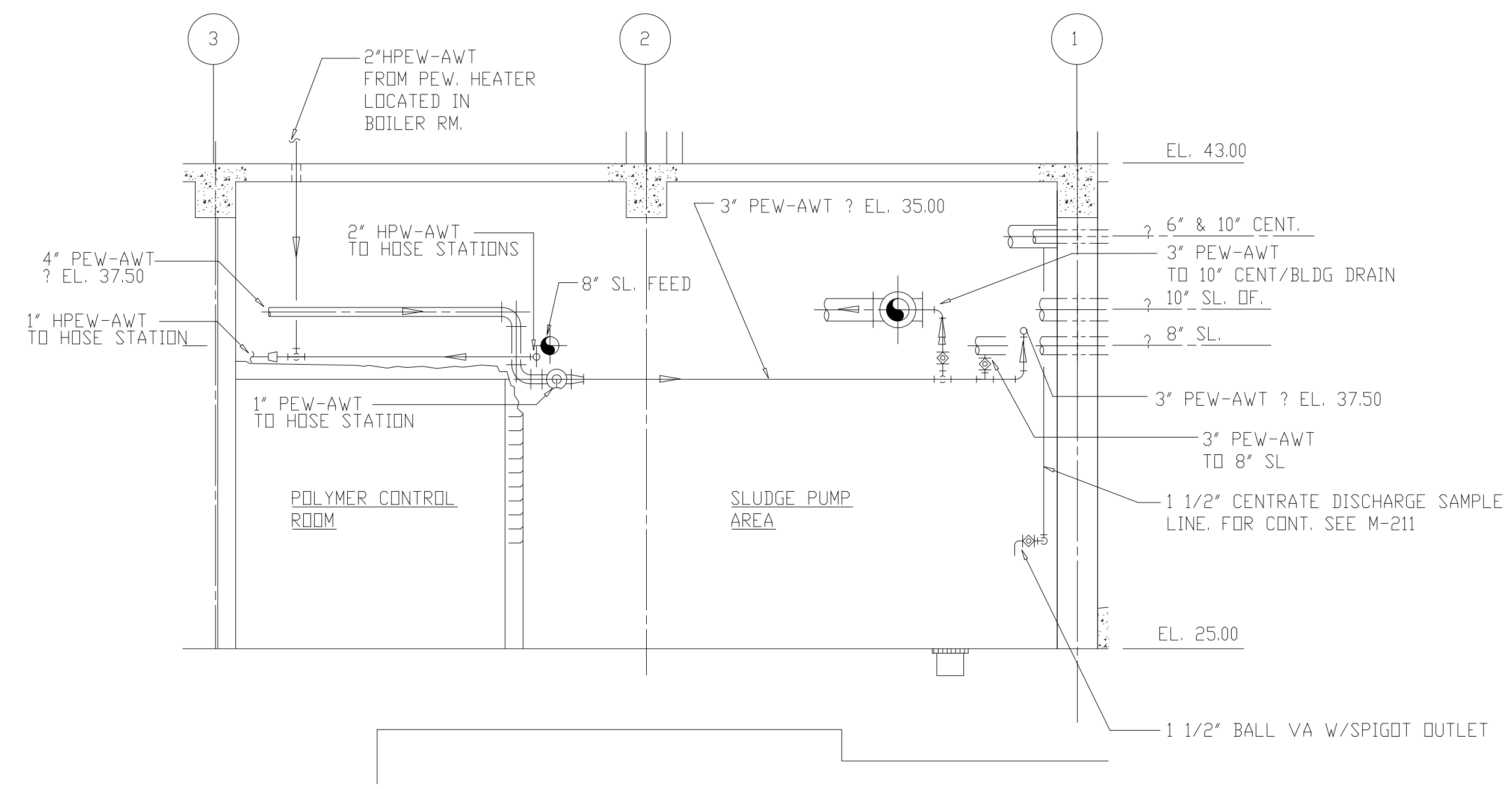
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

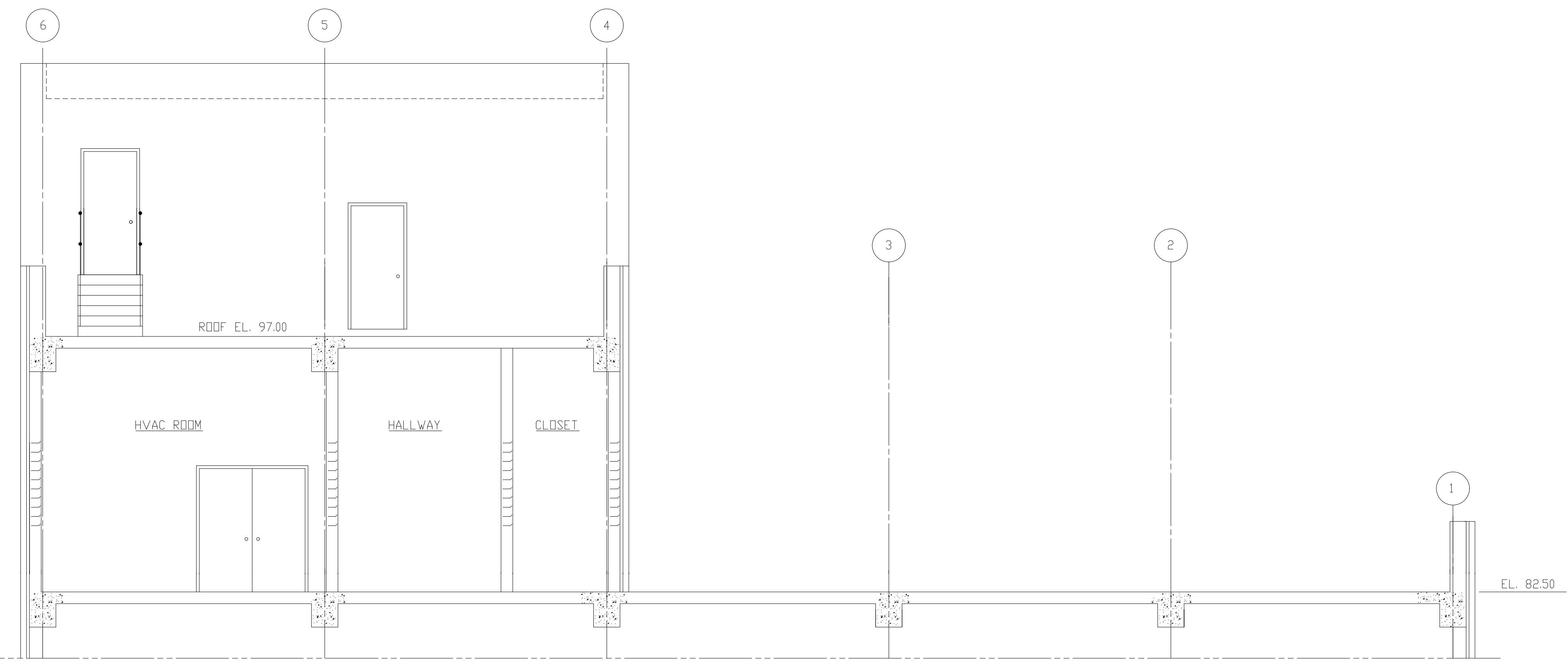
CENTRIFUGE DEWATERING BUILDING
MECHANICAL
BUILDING SECTIONS
SHEET 4

DATE	1994
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	M-213
SHEET	108 OF 199

FILED IN ARLINGTON COUNTY RECORDS BY MATTS SHIFF FILE # 1006



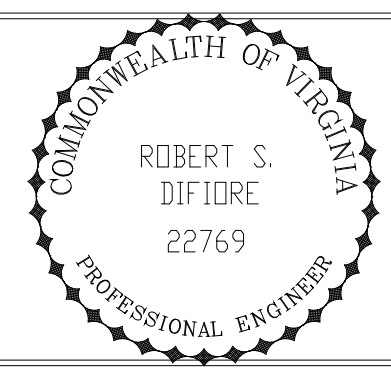
DETAIL A
1/4"=1'-0" M-214



SECTION E
1/4"=1'-0" M-201

RECORD DRAWING

DESIGNED	A.A.B.			
DRAWN	N.N.			
CHECKED	A.A.B.			
PROJ. ENGR.	J.J.B.			
	J.J.B.			
	J.J.B.			
NO.	ISSUED FOR	DATE	BY	APPROVED
4	RECORD DRAWINGS	6-99	F.X.P.	
3	GENERAL REVISIONS	9-96	J.J.B.	
2	WP 6/7 CONST.-LAND APP. REDES.	4-96	J.J.B.	
1	WP 6/7 APPROVAL-LAND APP. REDES.	3-96	J.J.B.	

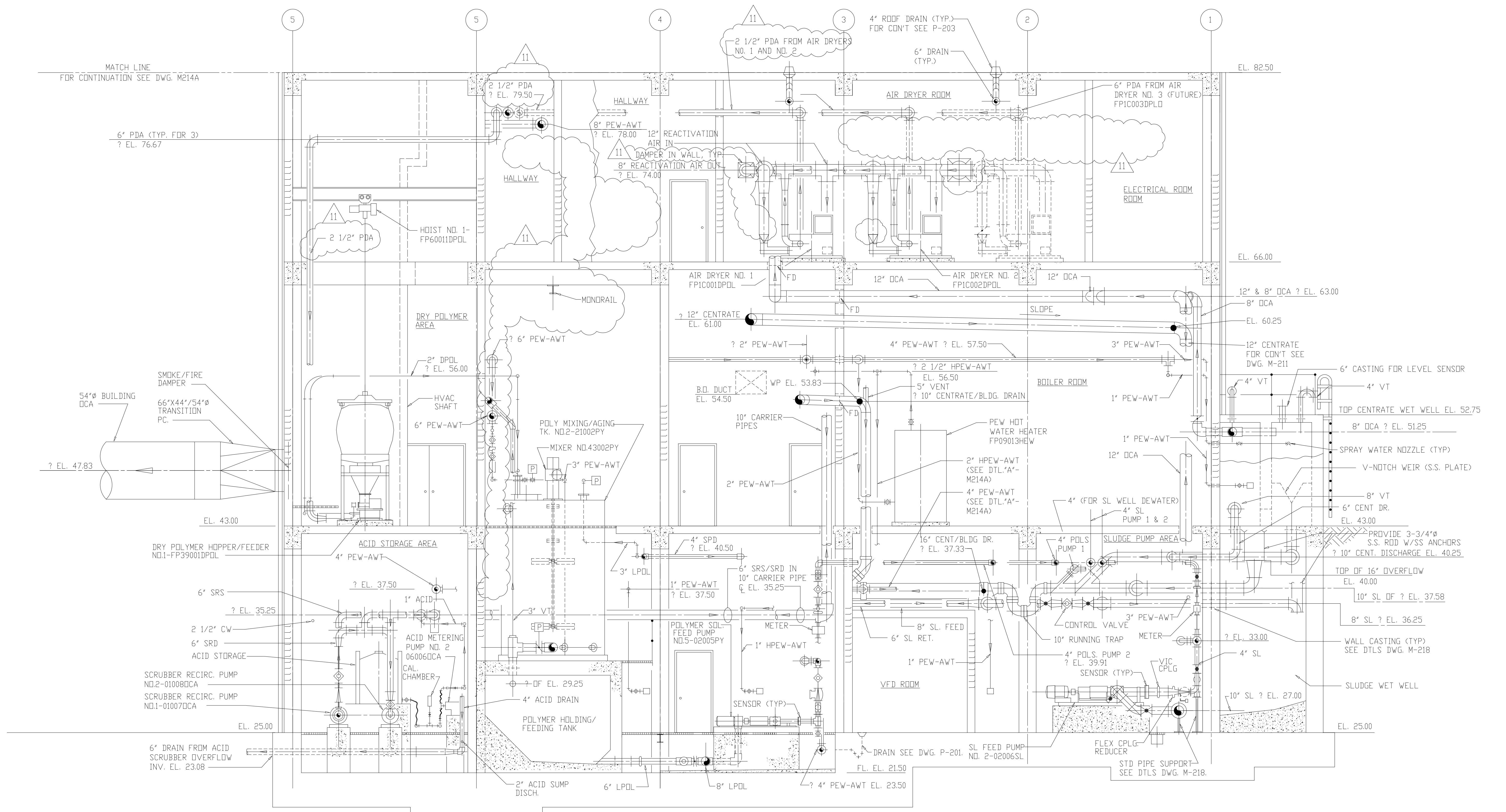


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WATER POLLUTION CONTROL PLANT
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SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
MECHANICAL
BUILDING SECTIONS
SHEET 5A

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M214A
	SHEET 109 OF 199

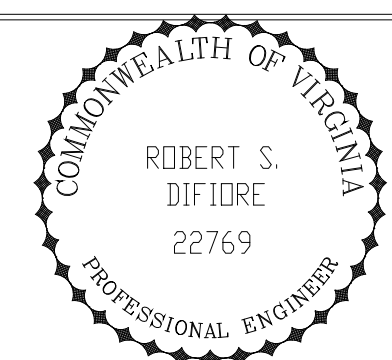


SECTION E
1/4"=1'-0" M-201

RECORD DRAWING

9	WP4,5,6/7 CONST-LAND APP.REDES	4-96	J.J.B.				
8	REVISED WP-3	4-96	J.J.B.				
7	WP6/7 APPROVAL-LAND APP.REDES	3-96	J.J.B.				
6	WP-3 CONST-LAND APP.REDES	3-96	J.J.B.				
5	WP-5 APPROVAL-LAND APP.REDES	2-96	J.J.B.				
4	WP-4 APPROVAL-LAND APP.REDES	1-96	J.J.B.				
3	WP-3 APPROVAL-LAND APP.REDES	1-96	J.J.B.				
2	CONSTRUCTION	9-94	J.J.B.	11	RECORD DRAWING	6-99	MKS
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	10	GENERAL REVISIONS	9-96	J.J.B.
NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY

DESIGNED	A.A.B.
DRAWN	N.N.
CHECKED	A.A.B.
PROJENGR.	J.J.B.
APPROVED	J.J.B.

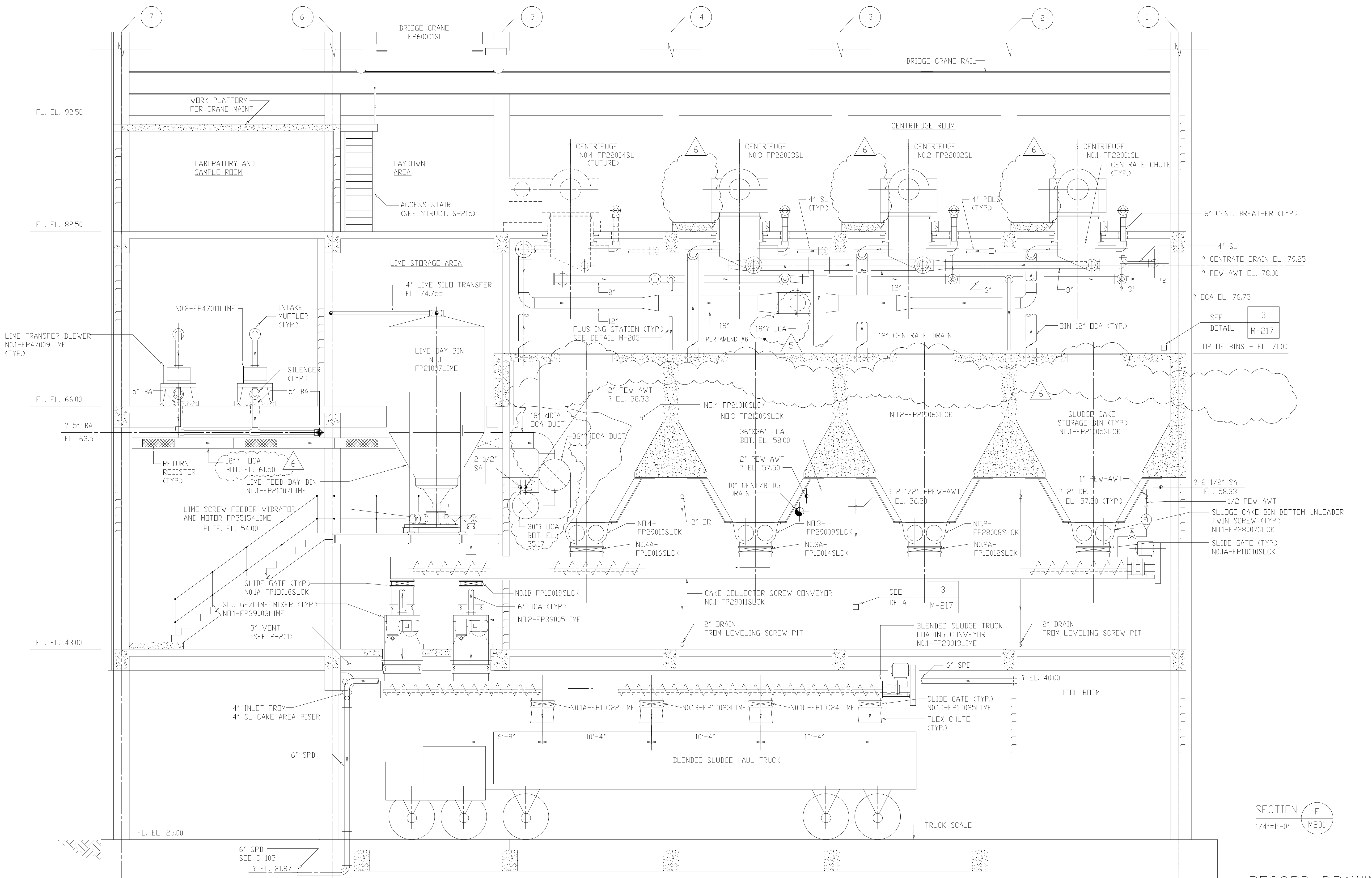


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WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
MECHANICAL
BUILDING SECTIONS
SHEET 5

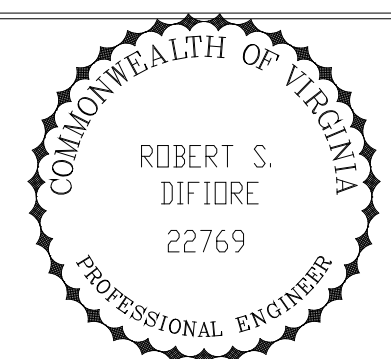
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M-214
	SHEET 109 OF 199



SECTION F
1/4"=1'-0" M201

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
6	RECORD DRAWING	8-99	F.X.P.	DESIGNED A.A.B.
5	GENERAL REVISIONS	9-96	J.J.B.	DRAWN N.N.
4	WP4.5,6,7 CONST.-LAND APP.REDES.	4-96	J.J.B.	CHECKED A.A.B.
3	WP6/7 APPROVAL-LAND APP.REDES.	3-96	J.J.B.	PROJ.ENGR. J.J.B.
2	WP-5 APPROVAL-LAND APP.REDES.	2-96	J.J.B.	
1	WP-4 APPROVAL-LAND APP.REDES.	1-96	J.J.B.	

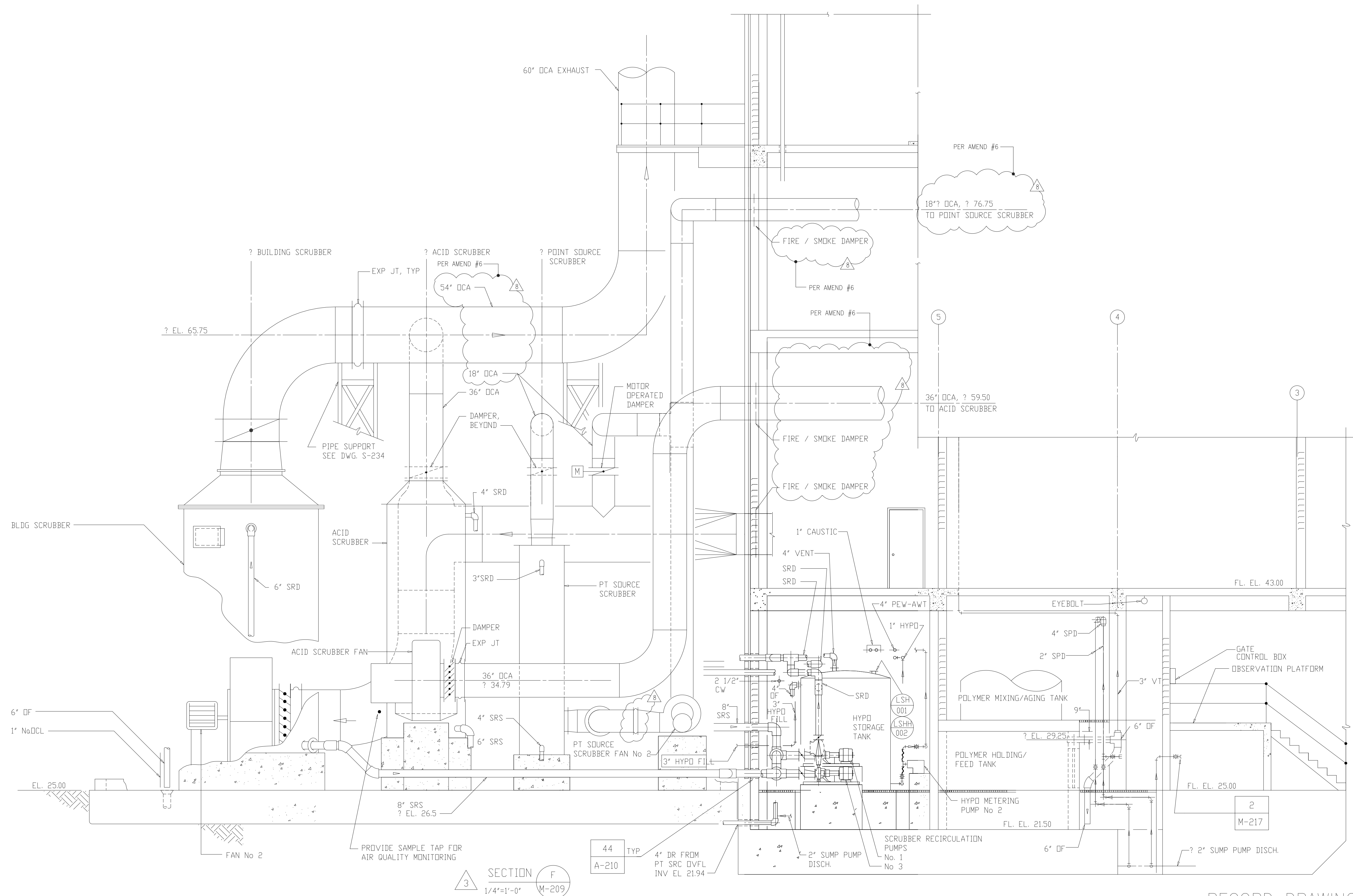


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
MECHANICAL
BUILDING SECTIONS
SHEET 6A

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M215A
	SHEET 110A OF 199

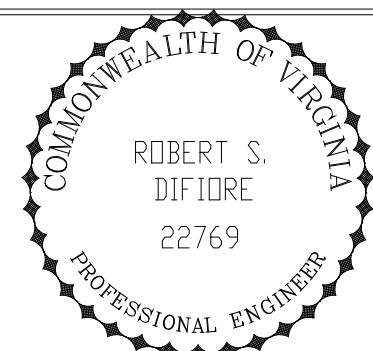


SECTION F
1/4"=1'-0" M-209

44 TYP
A-210 4" DR FROM PT SRC DVFL INV EL 21.94

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
8	RECORD DRAWING	8-99	F.X.P.	DESIGNED A.A.B.
7	GENERAL REVISIONS	9-96	J.J.B.	DRAWN N.N.
6	CHANGE ORDER	9-96	J.J.B.	
5	REVISION	4-96	J.J.B.	CHECKED A.A.B.
4	WP-3 CONST-LAND APP.REDES.	3-96	J.J.B.	
3	WP-3 APPROVAL-LAND APP.REDES.	1-96	J.J.B.	PROJ.ENGR. J.J.B.
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	J.J.B.

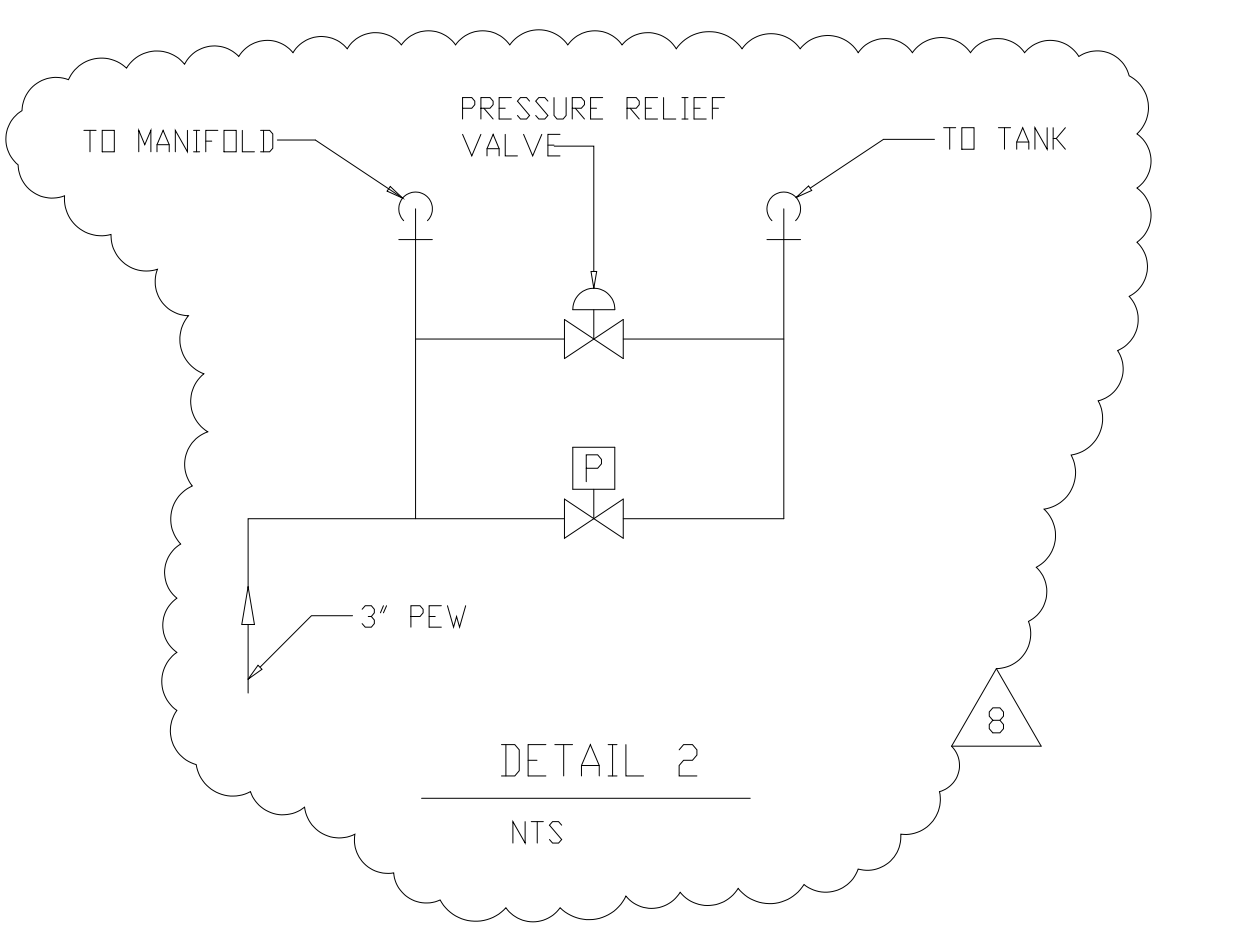
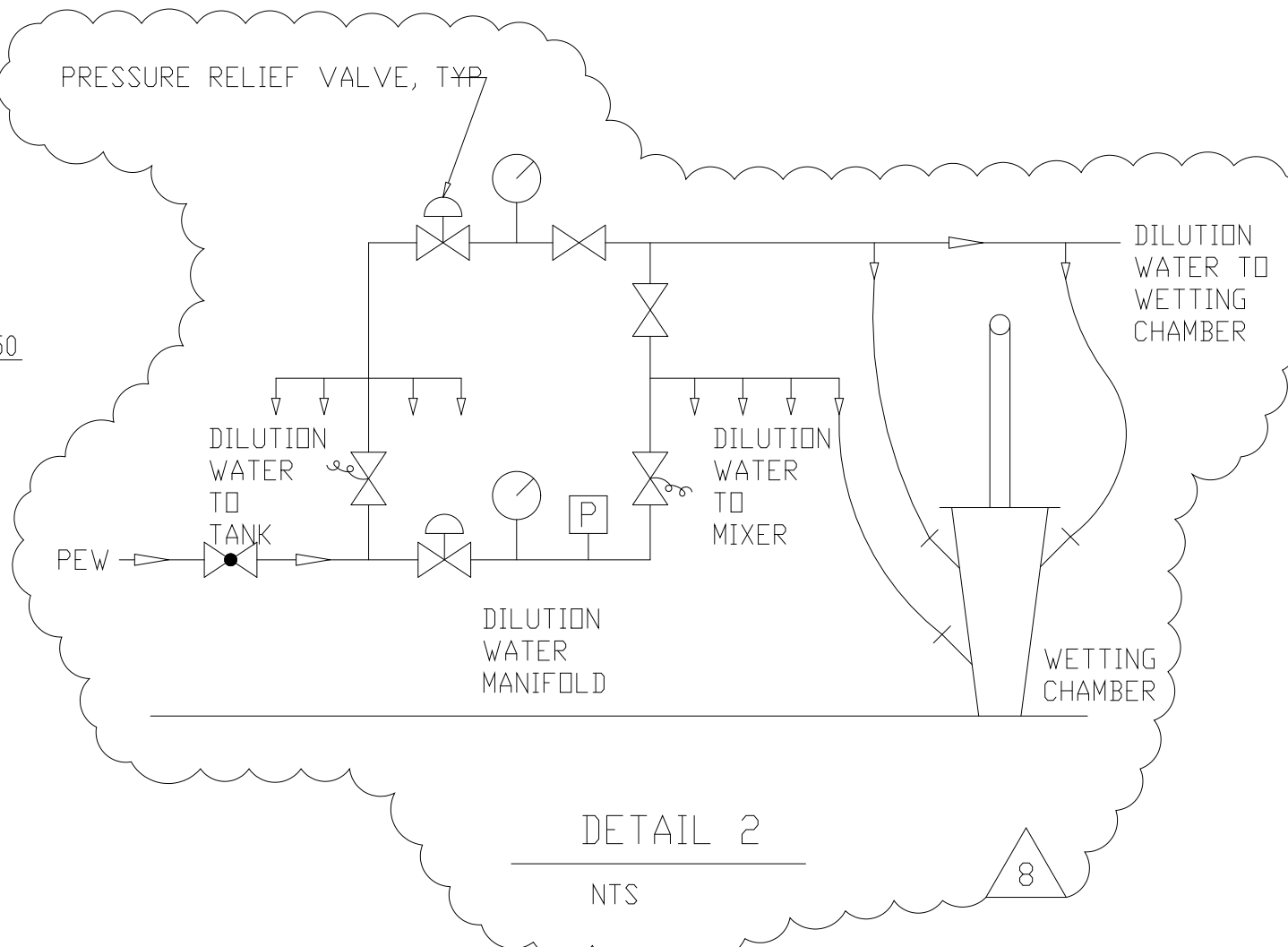
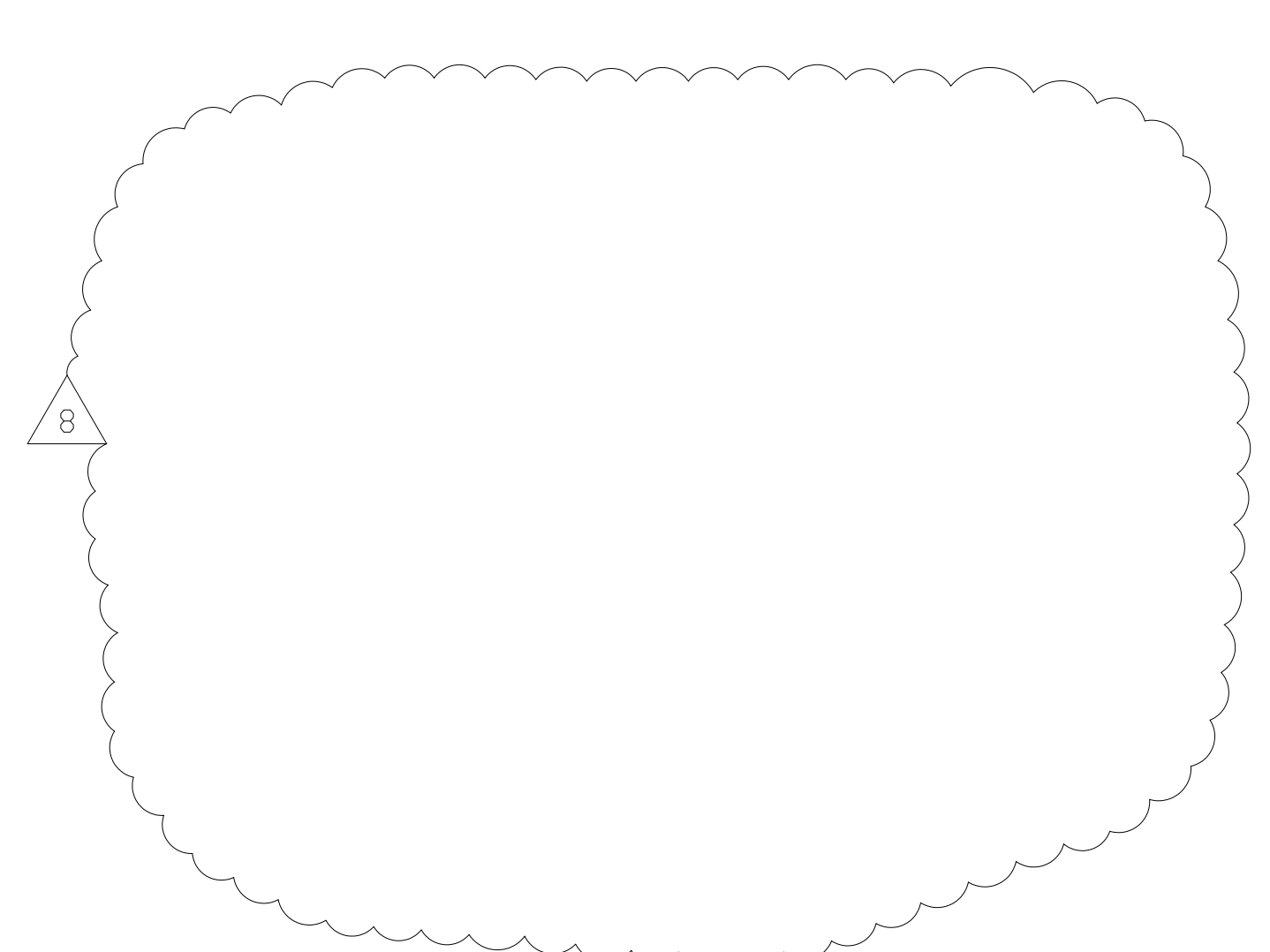
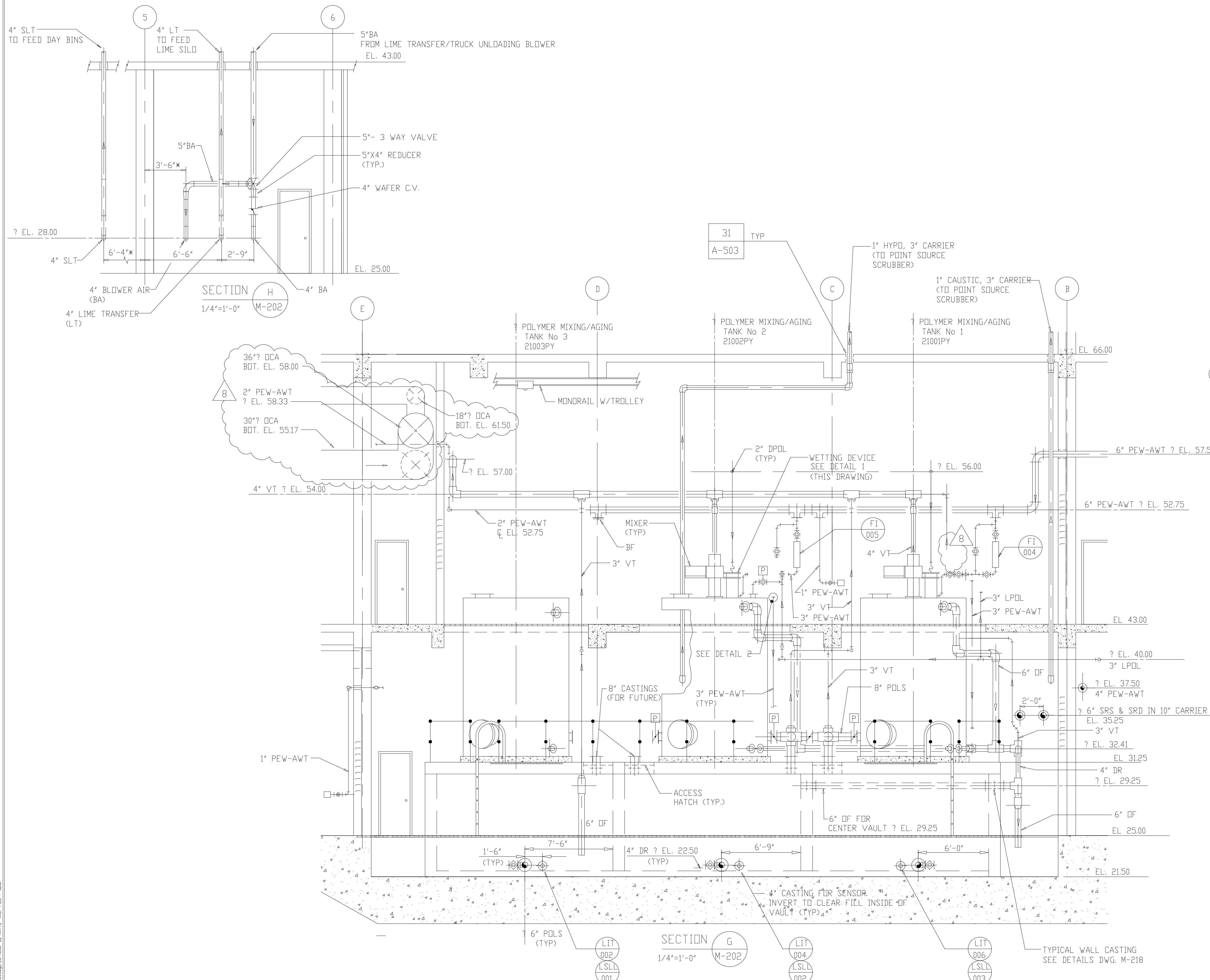


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
MECHANICAL
BUILDING SECTIONS
SHEET 6

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M-215
	SHEET 110 OF 199



RECORD DRAWING

8	RECORD DRAWING	8-99	F.X.F.	DESIGNED	A.A.B.
7	GENERAL REVISIONS	9-96	J.J.B.	DRAWN	N.N.
6	WP-4 CONST-LAND APPREDES.	4-96	J.J.B.	CHECKED	A.A.B.
5	WP-3 CONST-LAND APPREDES.	3-96	J.J.B.	PROJ.ENGR.	J.J.B.
4	WP-4 APPROVAL-LAND APPREDES.	1-96	J.J.B.		
3	WP-3 APPROVAL-LAND APPREDES.	1-96	J.J.B.		
2	CONSTRUCTION	9-94	J.J.B.		
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.		
NO.	ISSUED FOR	DATE	BY	APPROVED	

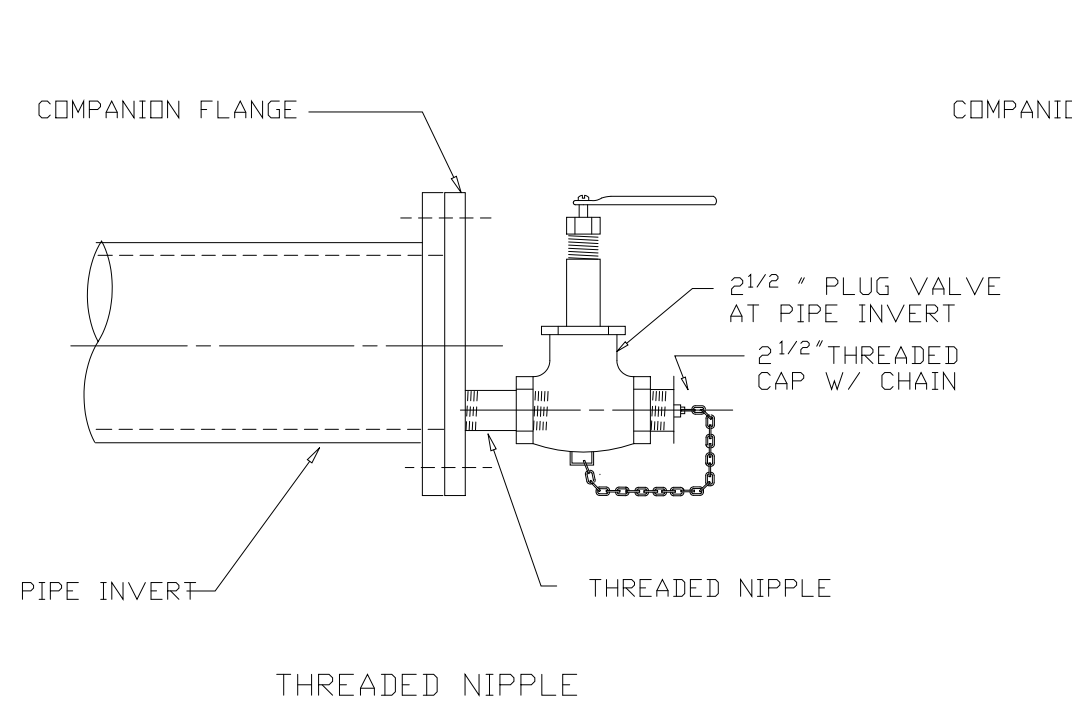
ROBERT S. DIFIORE
 22769
 PROFESSIONAL ENGINEER

HAZENAND SAWYER
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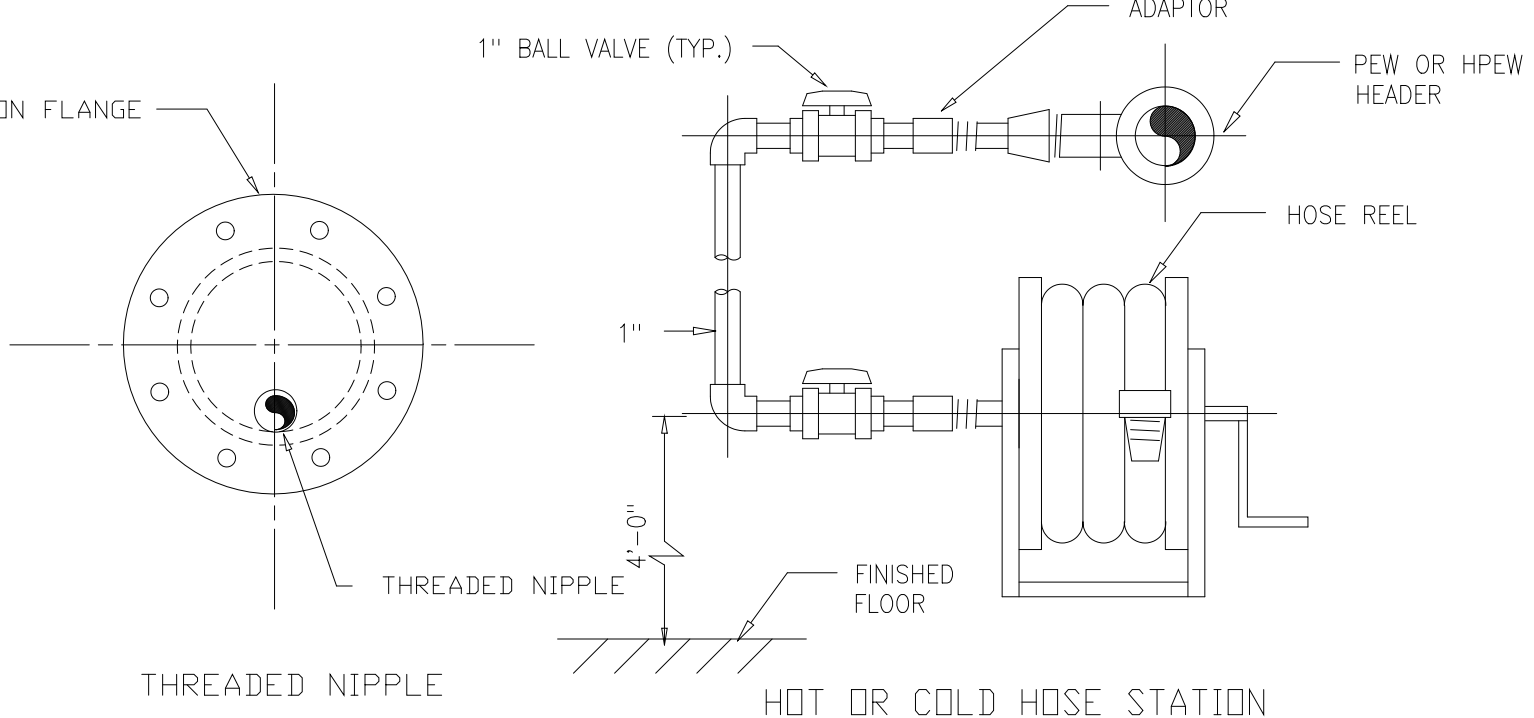
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 MECHANICAL
 BUILDING SECTIONS
 SHEET 7

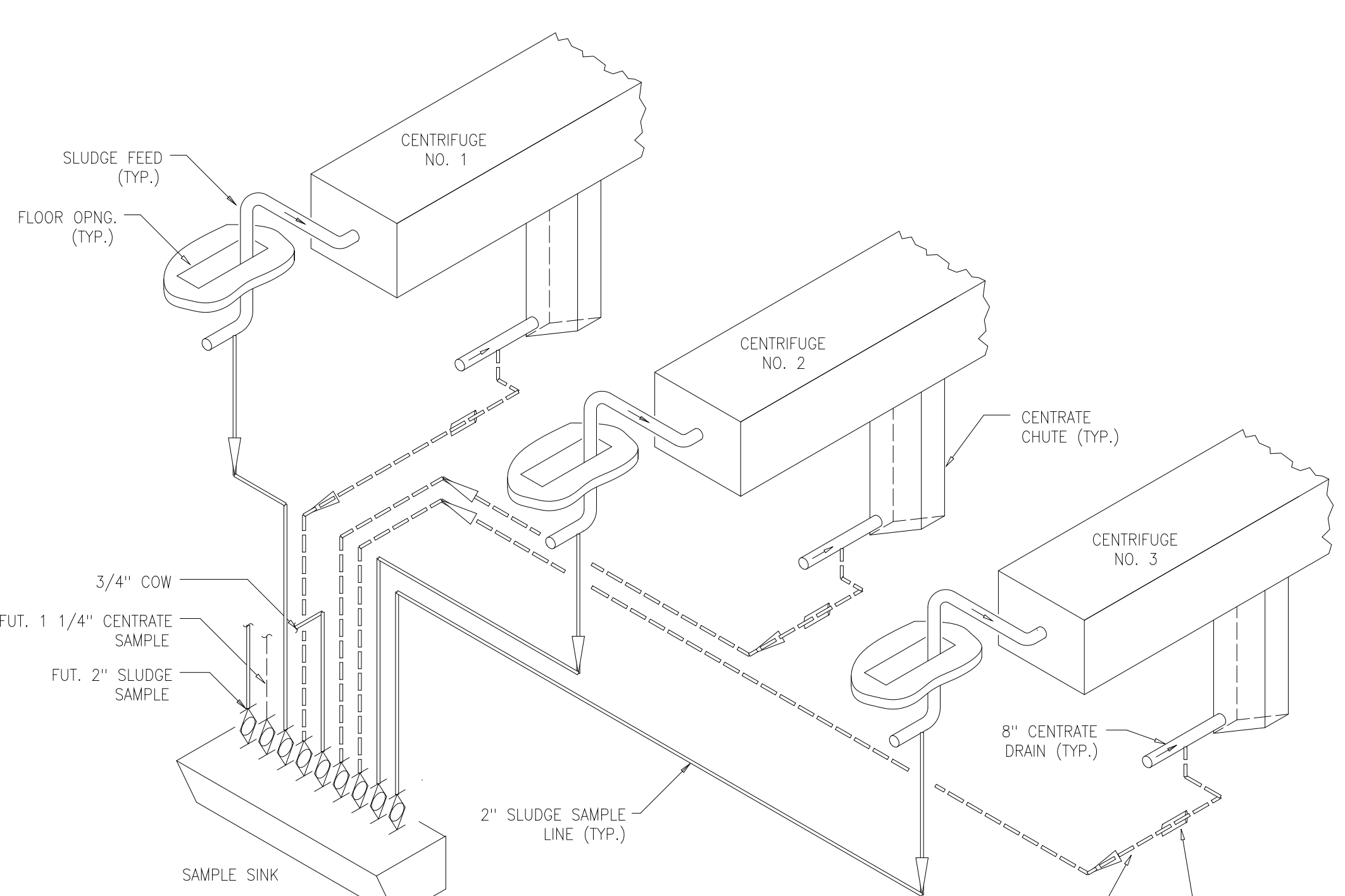
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M-216
	SHEET 111 OF 199



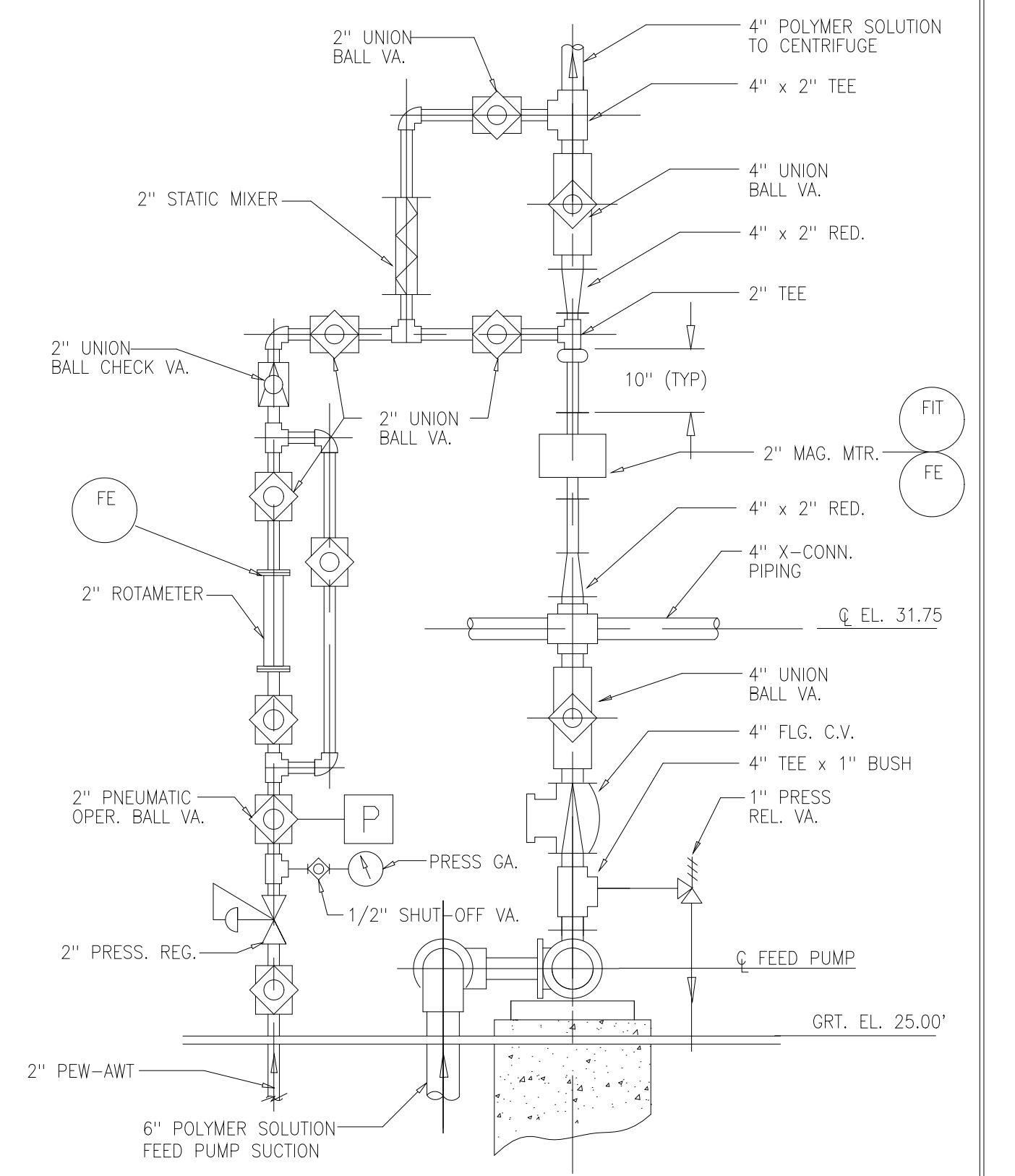
FLUSHING VALVE DETAIL
 DETAIL 4
 NTS -



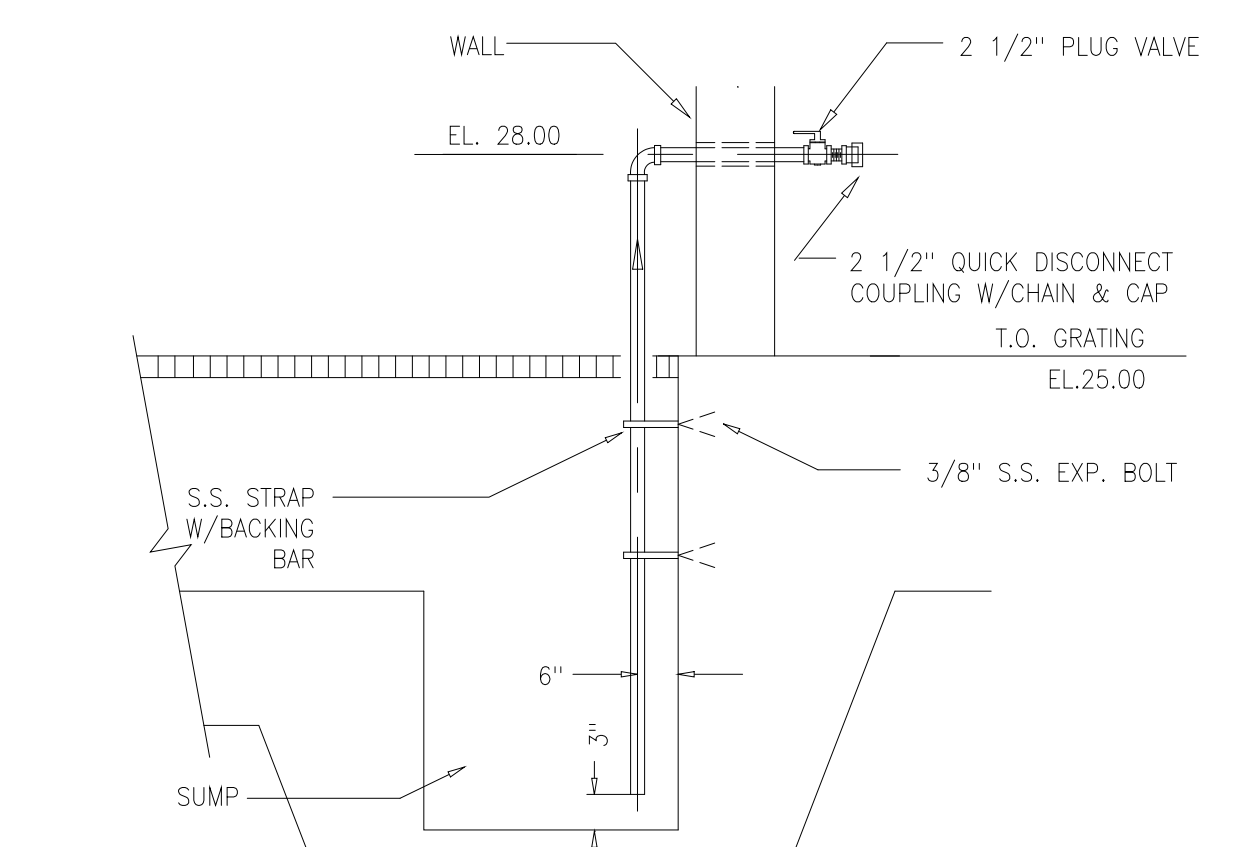
HOT OR COLD HOSE STATION
 DETAIL 3
 NTS -



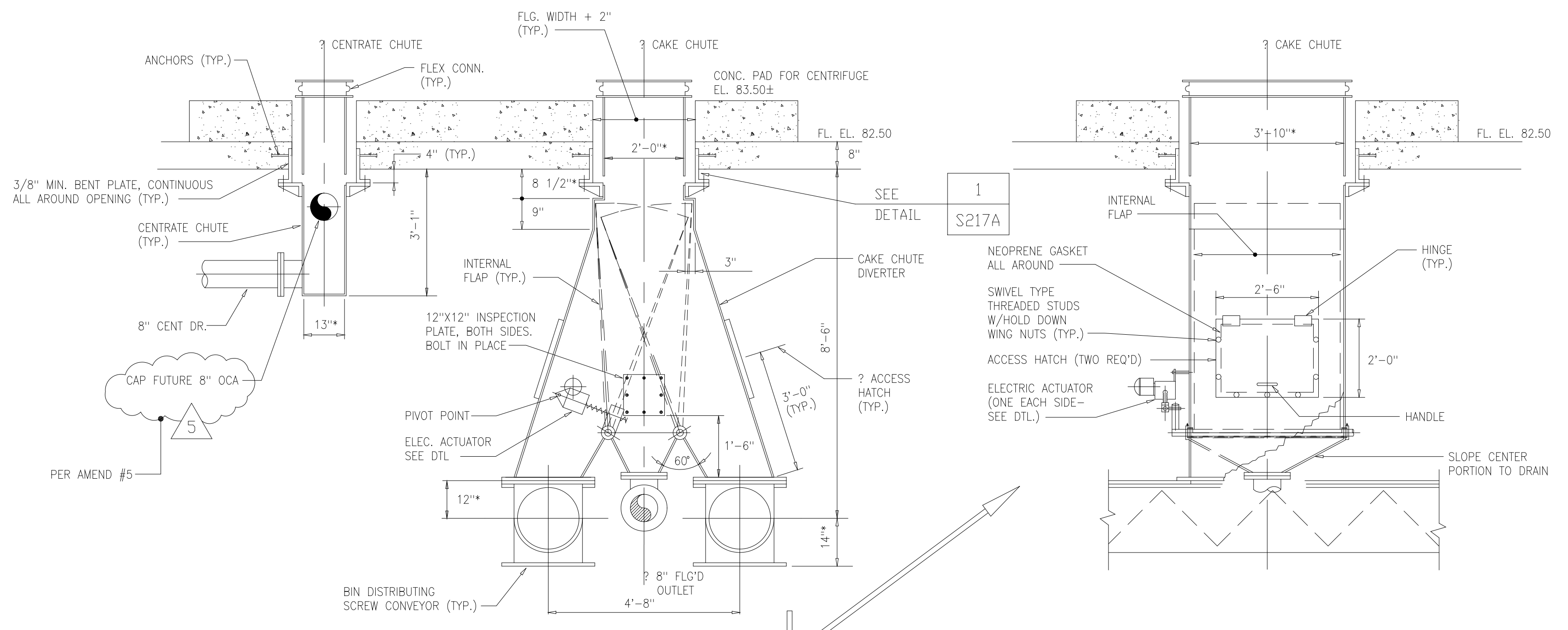
SAMPLE LINES ISOMETRIC
 DETAIL 6
 NTS M-205



POLYMER FEED PUMP DISCHARGE ARRANGEMENT
 DETAIL 8
 1/2"=1'-0" M-210

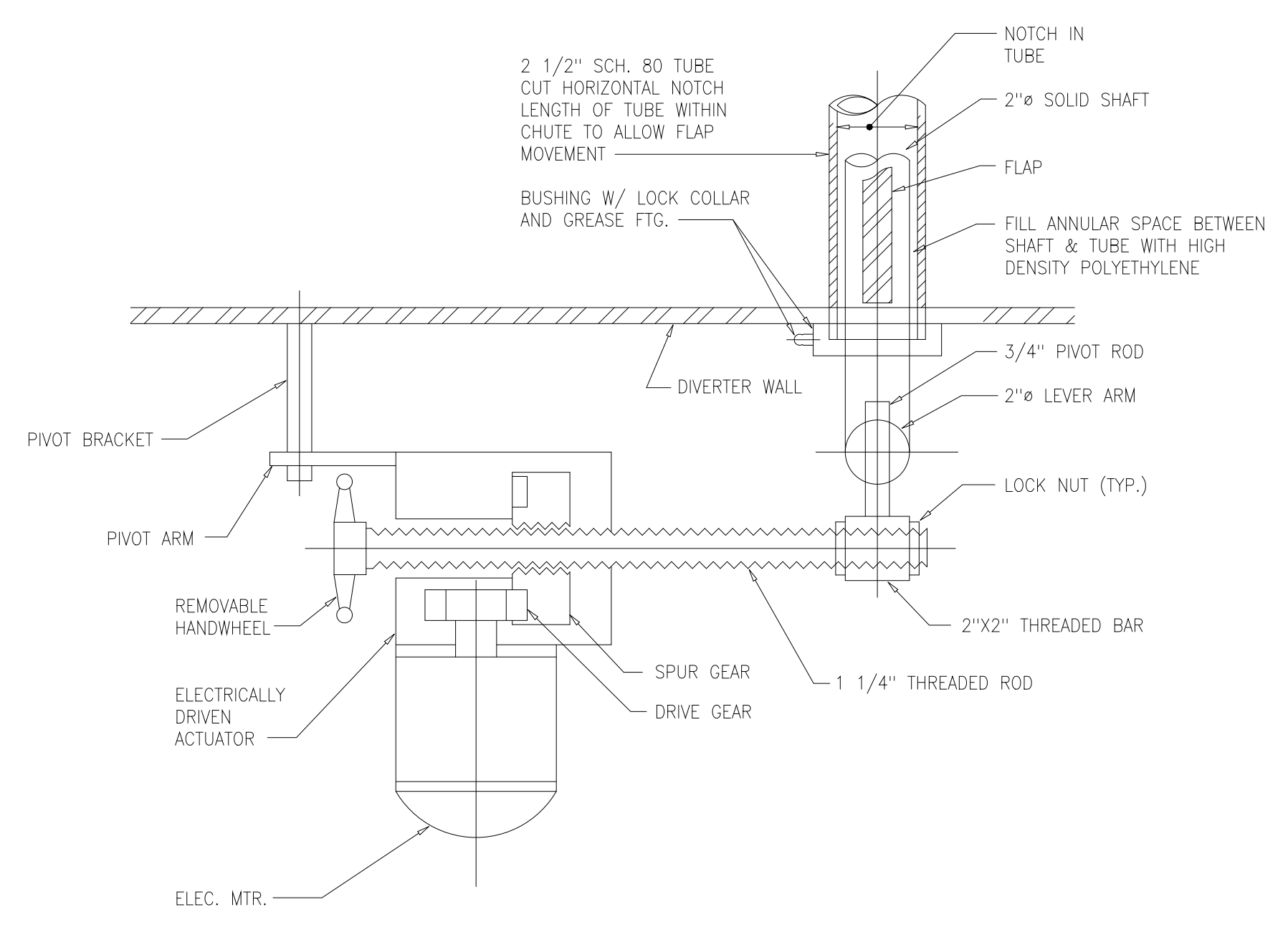


SUCTION PIPE DETAIL FOR EMERGENCY CHEMICAL SPILL
 DETAIL 2
 3/8"=1'-0" M-201



CENTRATE CHUTE & CAKE CHUTE DIVERTER
 DETAIL 9
 1/2"=1'-0" M-210

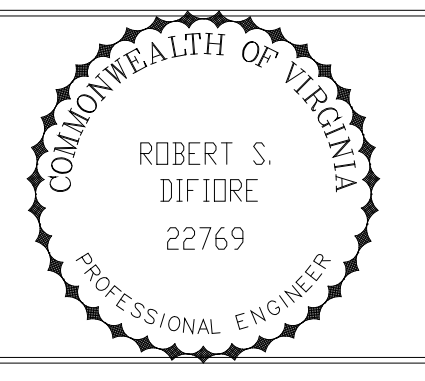
NOTE: 1. FOR DETAILED FABRICATION DESCRIPTION, SEE SPECIFICATIONS.
 2. ALL MATERIAL TO BE MINIMUM 304 SS.
 * PER FIELD ORDER #16 ITEM #5, PROVIDE 304L STAINLESS STEEL PLATES FOR THE CHUTE EMBEDS IN LIEU OF SPECIFIED 316 STAINLESS STEEL.



ELECTRIC FLAP ACTUATOR - TOP VIEW
 3"=1'-0"

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
5	RECORD DRAWING	5-99	MKS	J.J.B.
4	WP-6/7 CONST.-LAND APP.REDES.	4-96	J.J.B.	J.H.R.
3	WP-6/7 APPROVAL-LAND APP.REDES.	3-96	J.J.B.	A.A.B.
2	CONSTRUCTION	9-94	J.J.B.	J.J.B.
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	J.J.B.

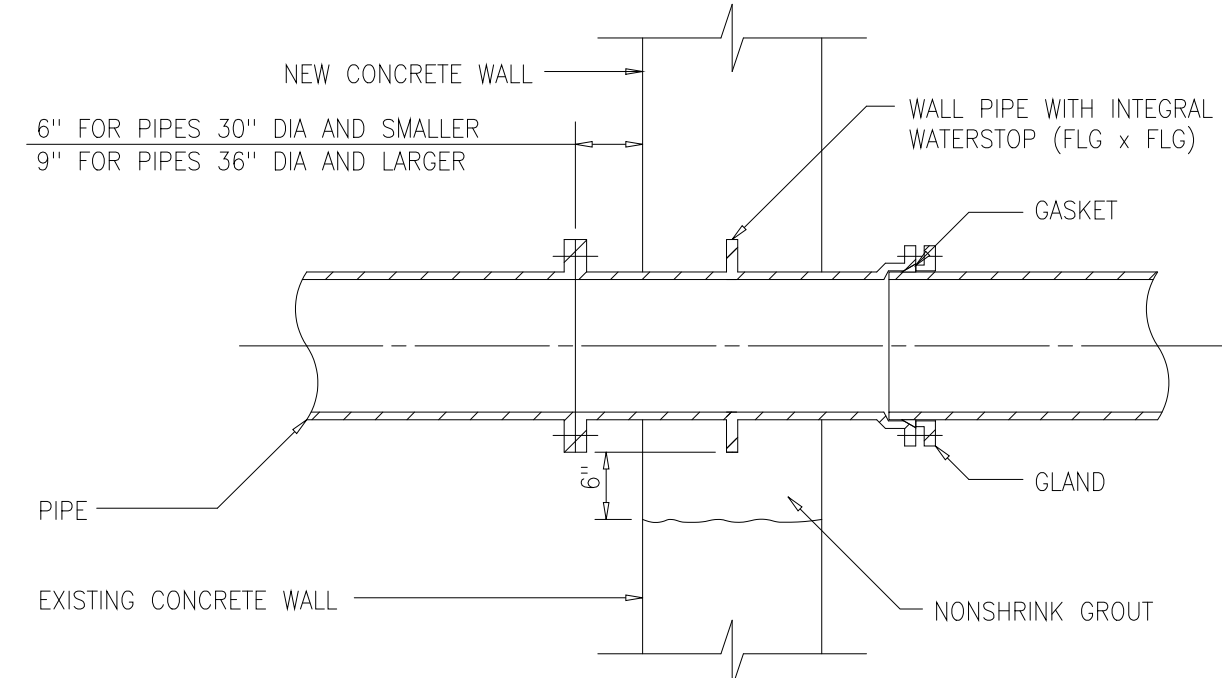


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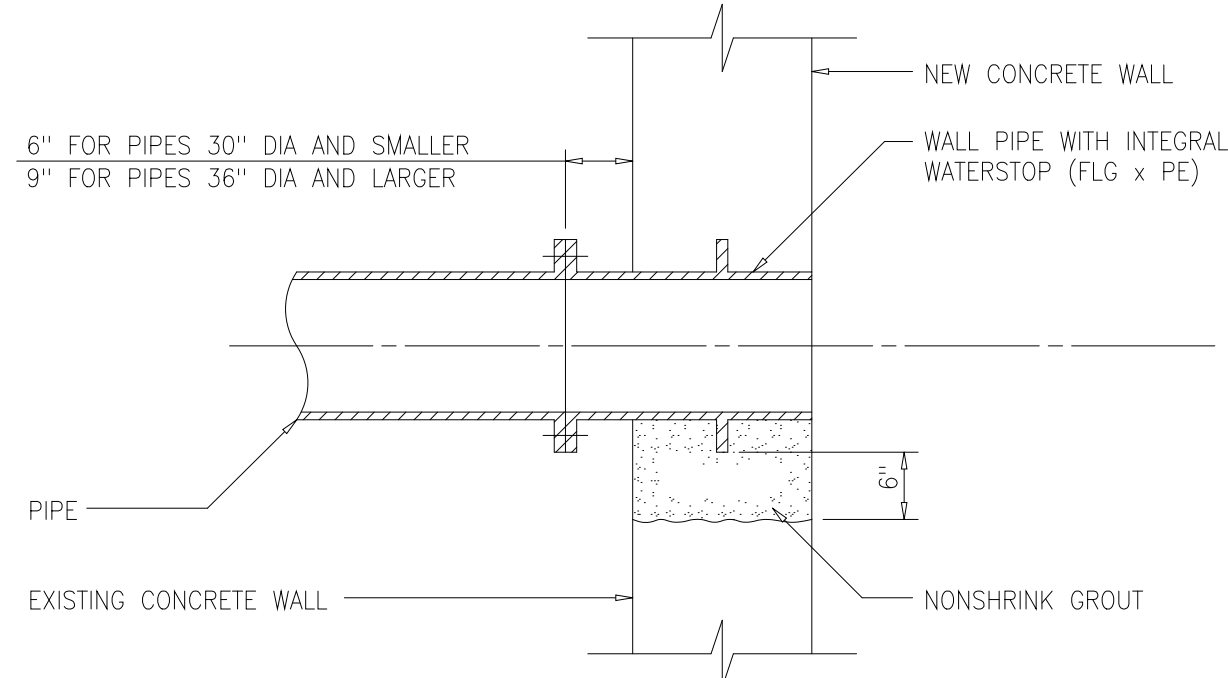
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 MECHANICAL
 MISCELLANEOUS DETAILS
 SHEET 1

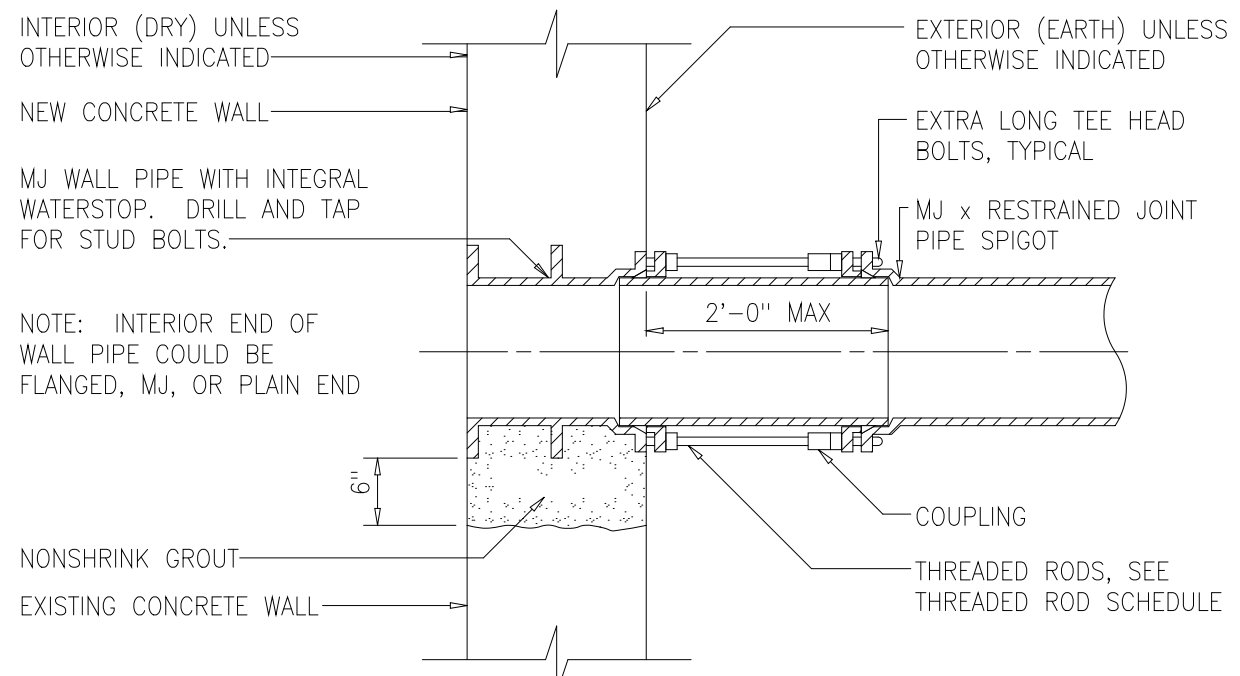
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER M-217
	SHEET 112 OF 199



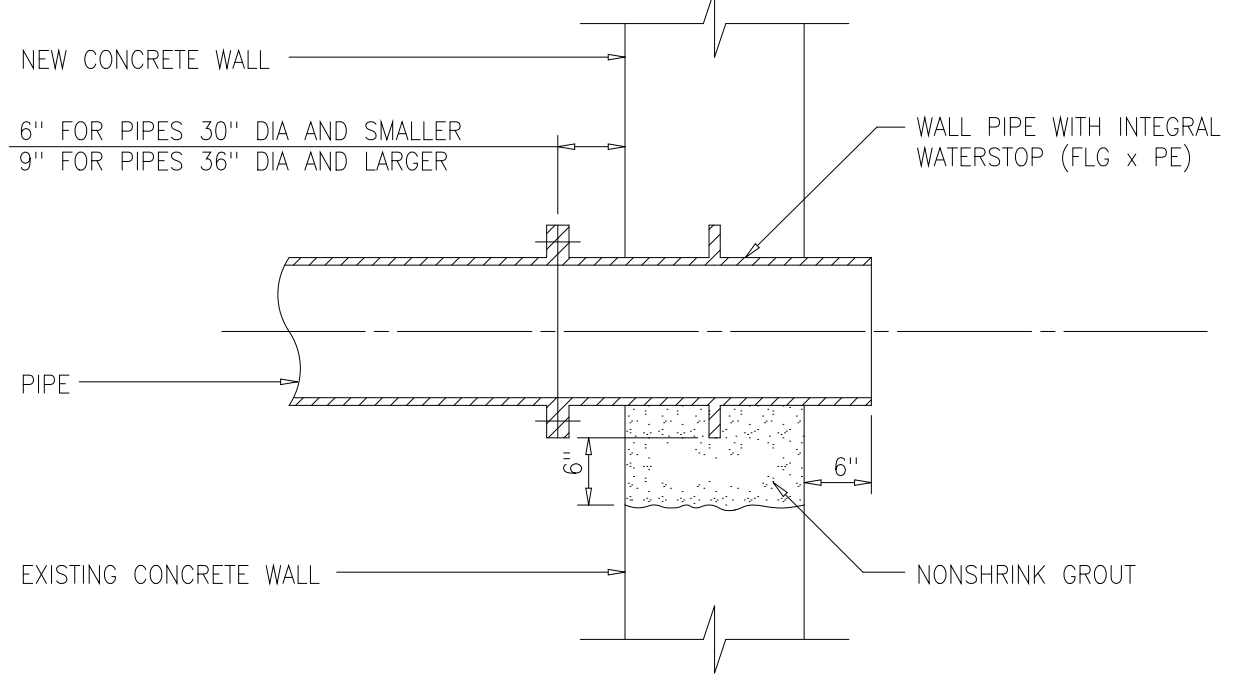
FLG x MJ



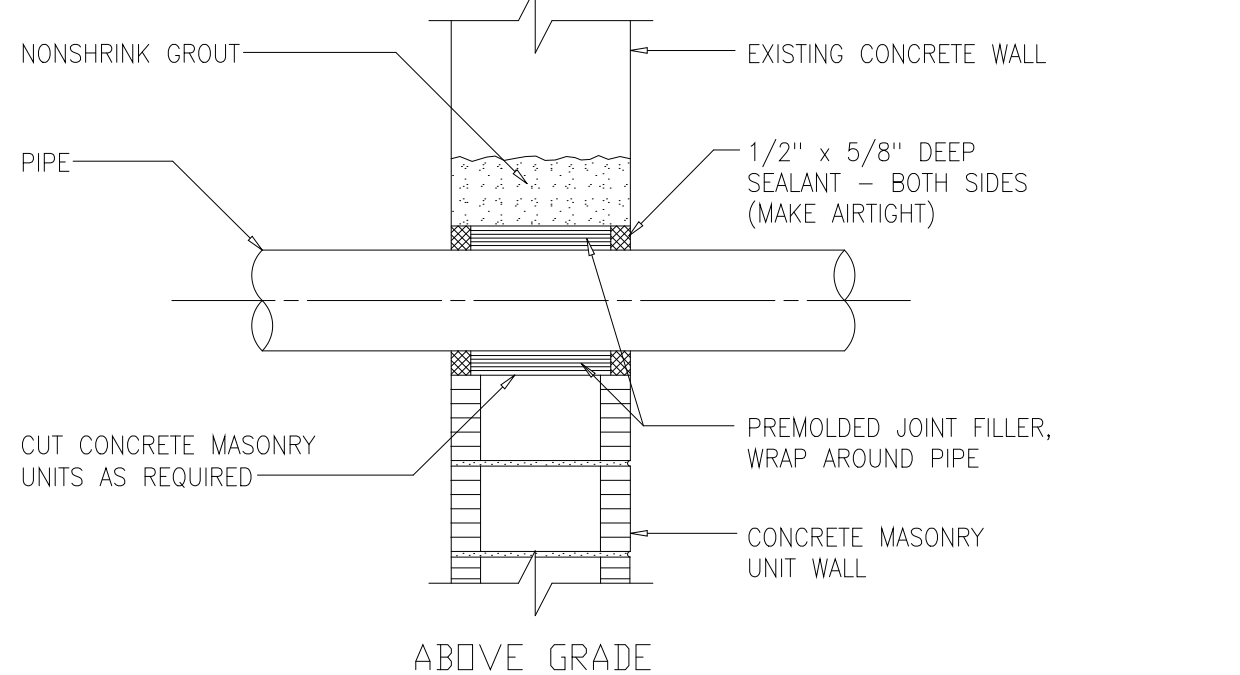
FLG x PE (FLUSH)



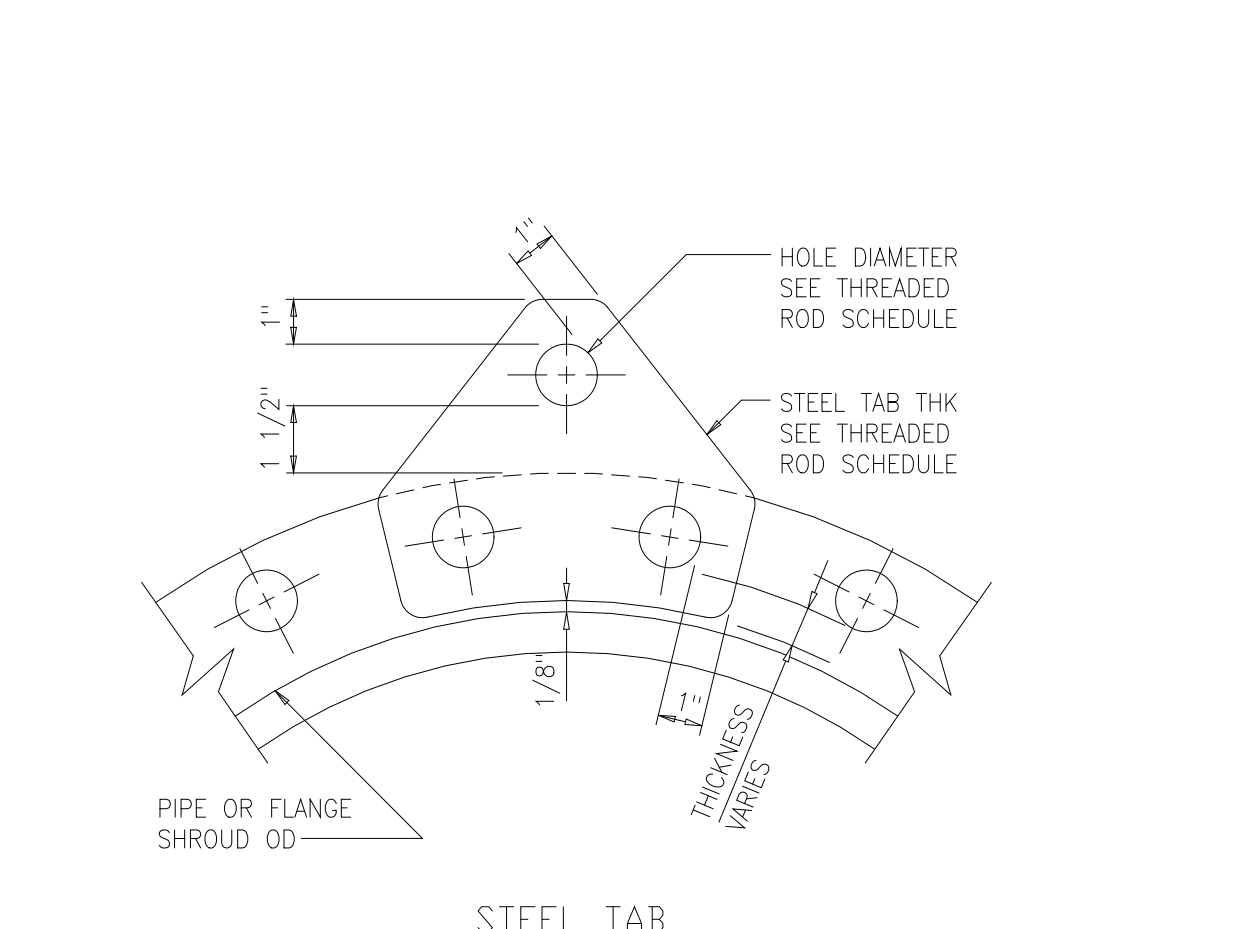
RESTRAINED PIPE AT WALL PIPE



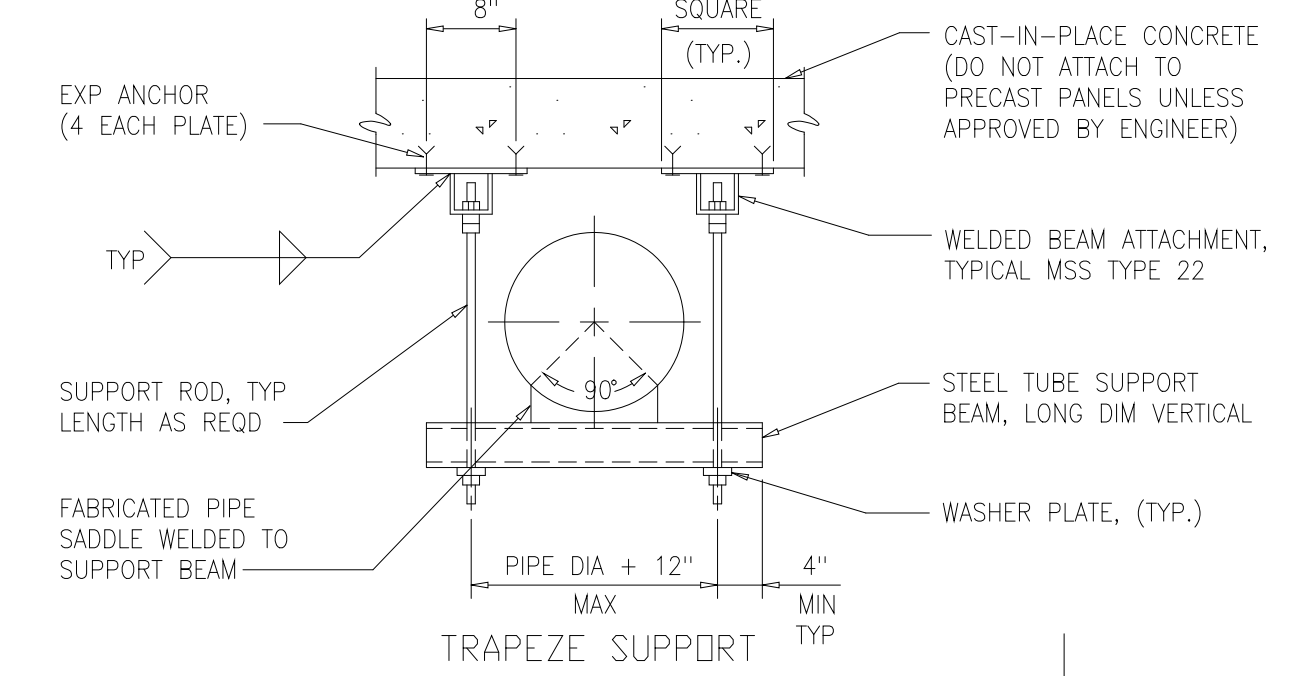
FLG x PE



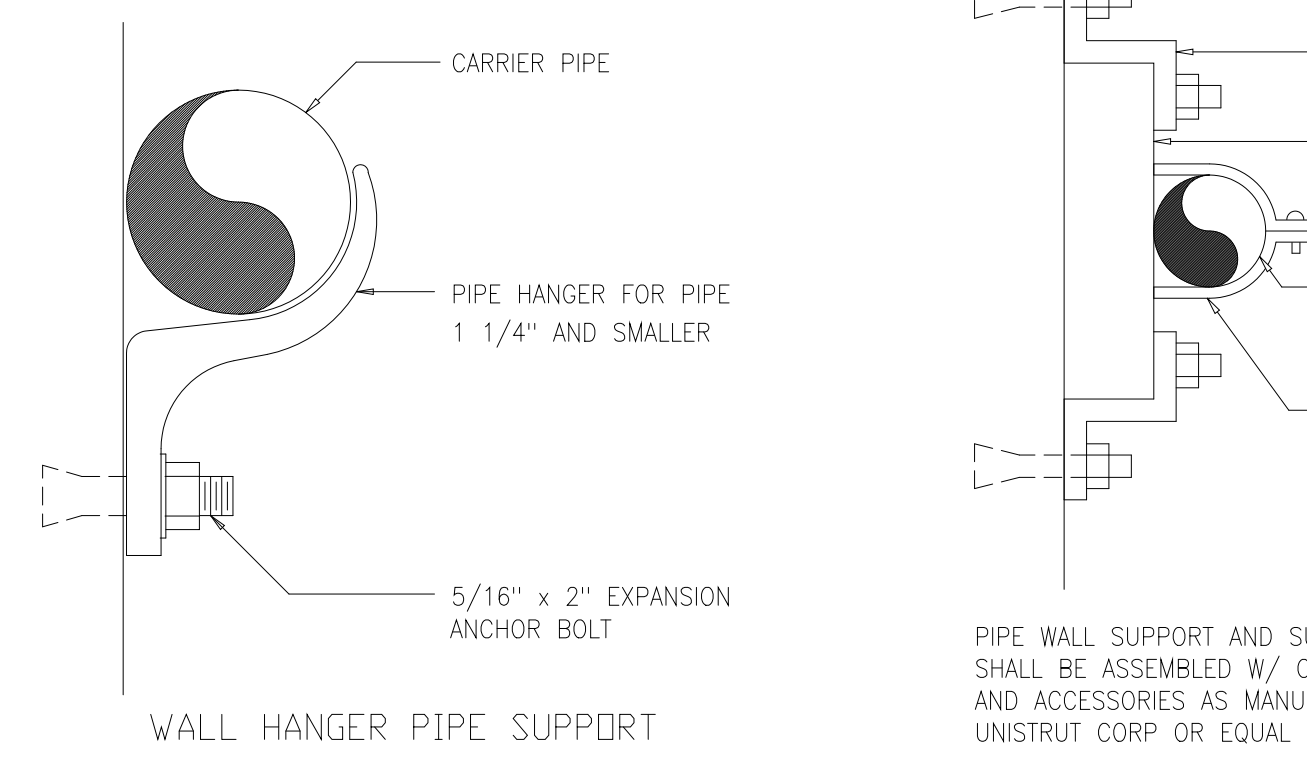
ABOVE GRADE



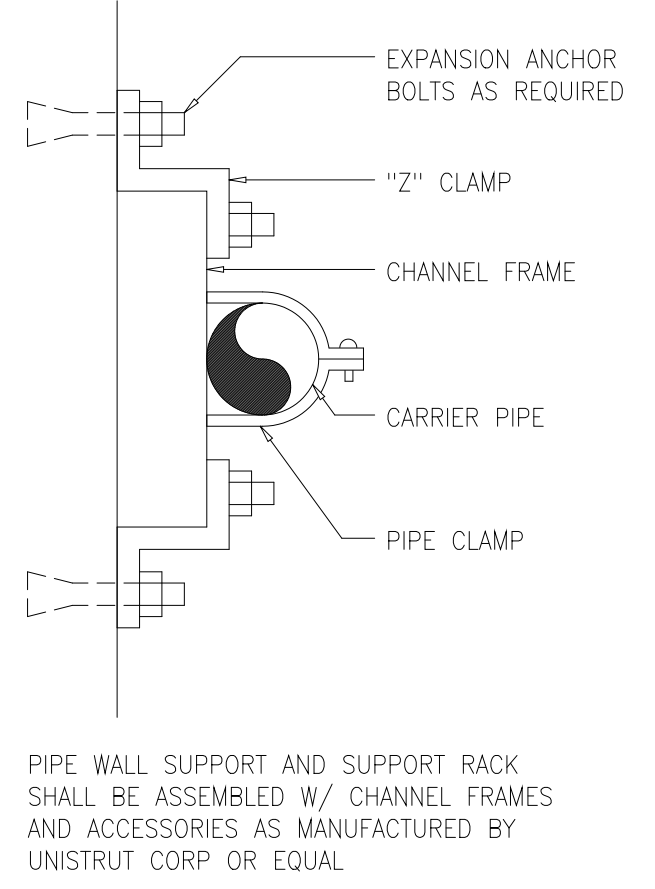
STEEL TAB



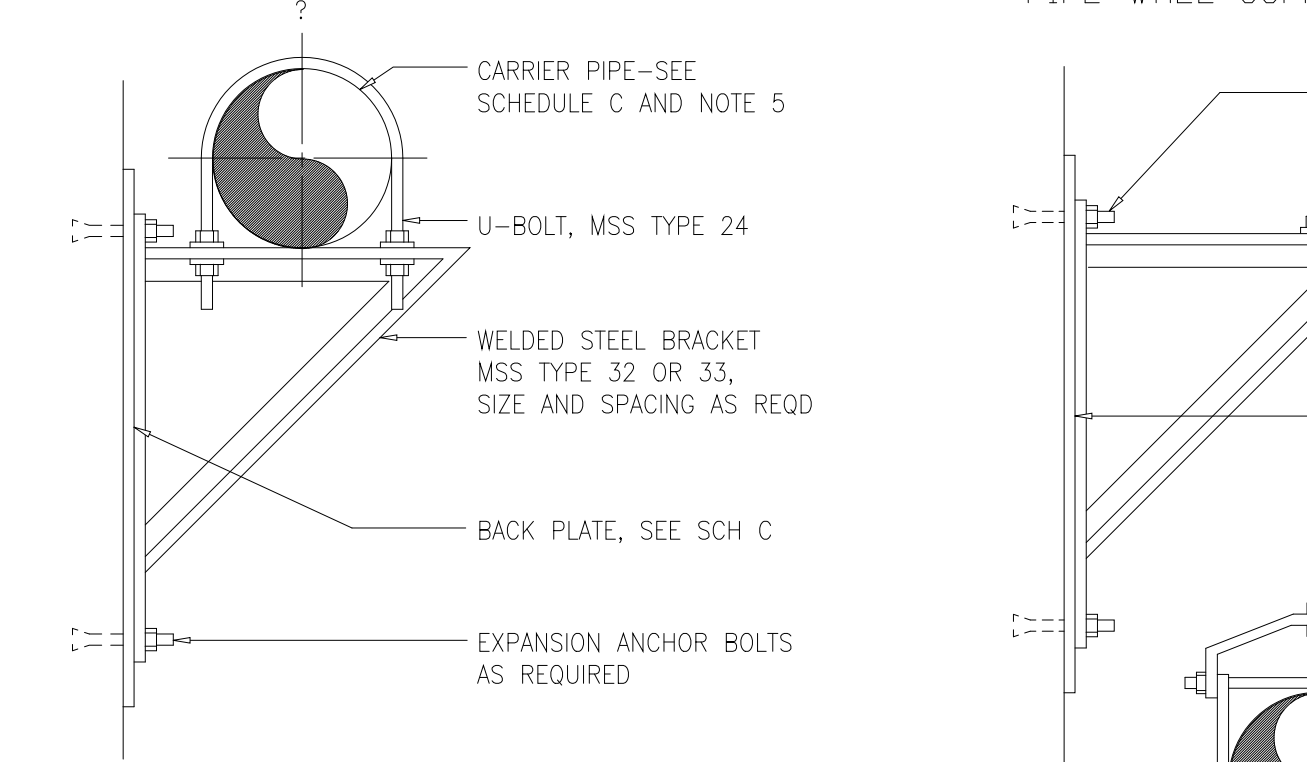
TRAPEZE SUPPORT



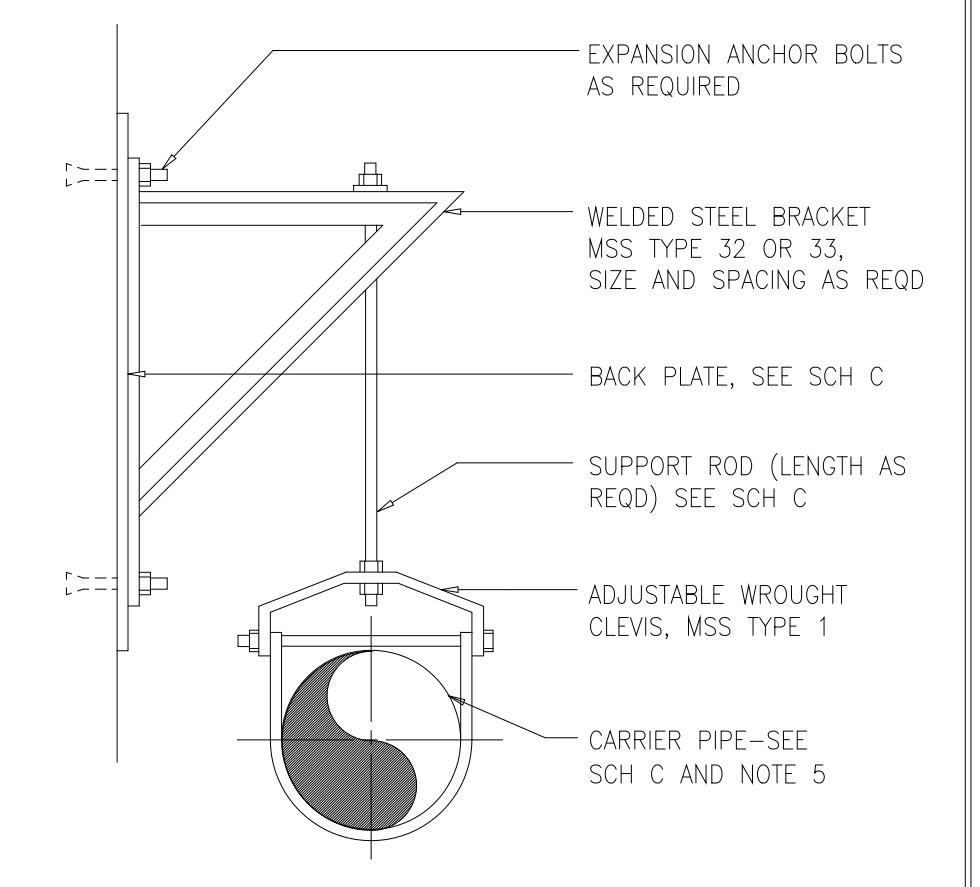
WALL HANGER PIPE SUPPORT



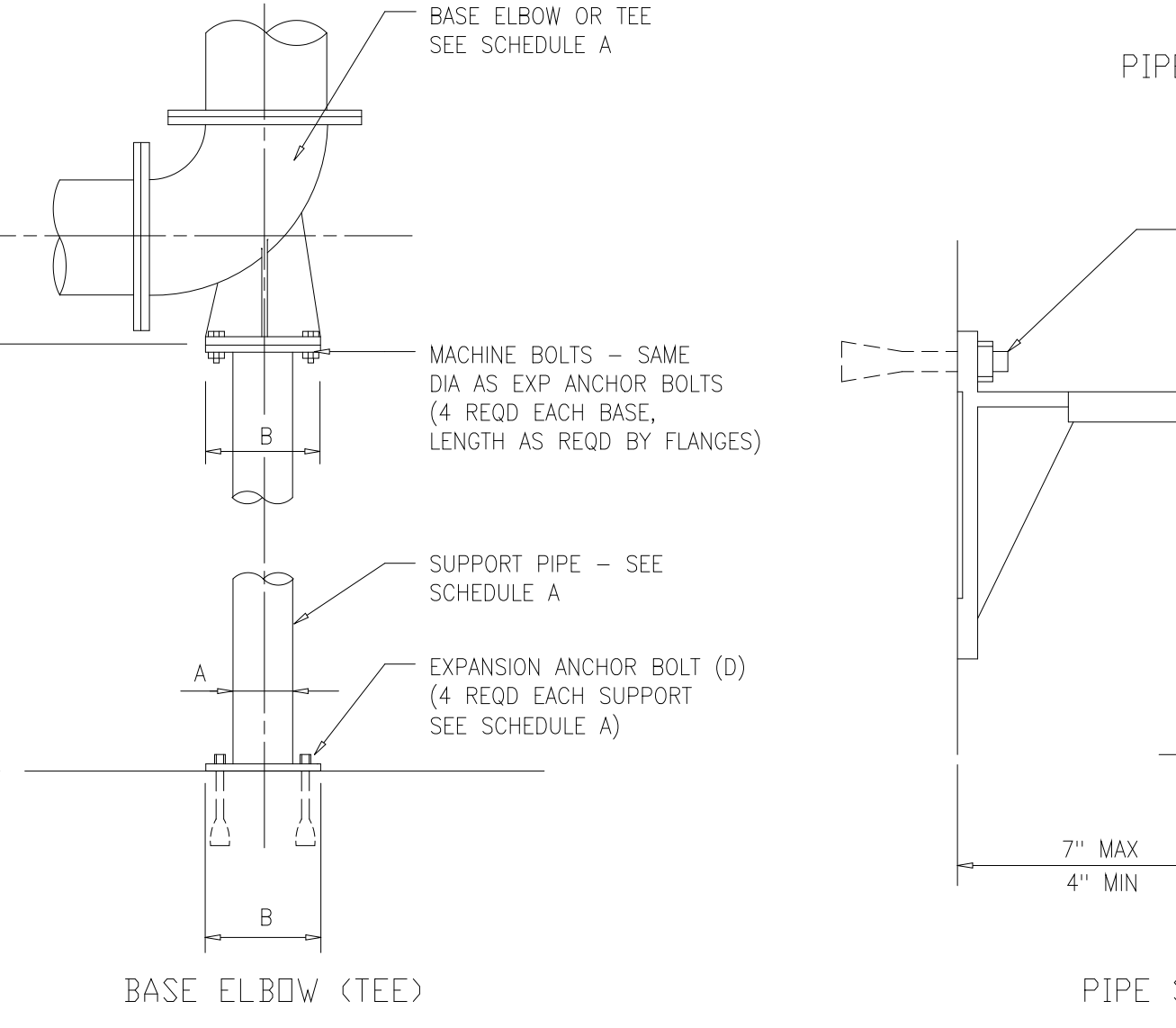
PIPE WALL SUPPORT



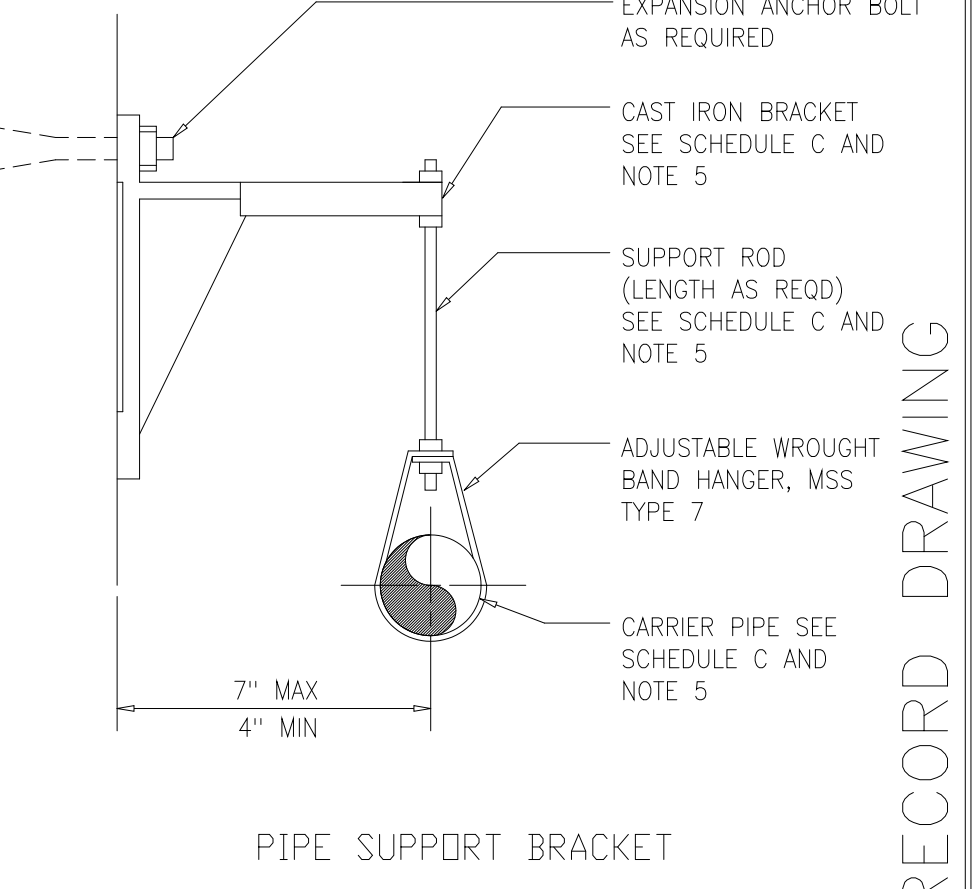
PIPE SUPPORT BRACKET



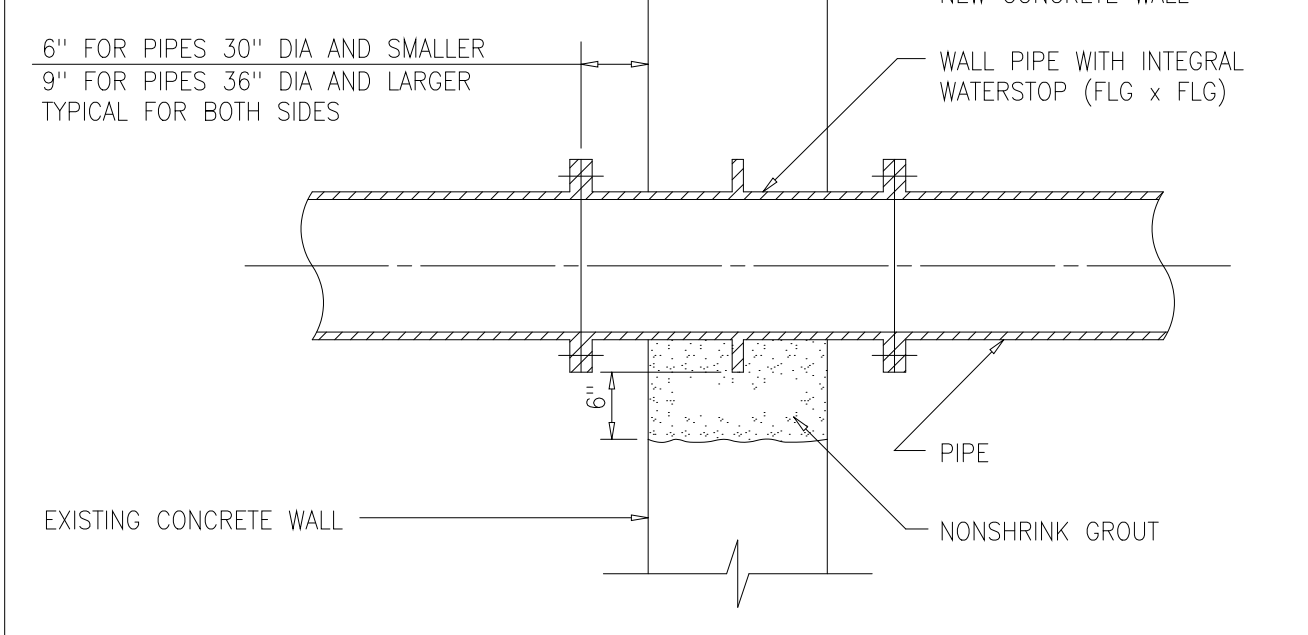
PIPE SUPPORT BRACKET



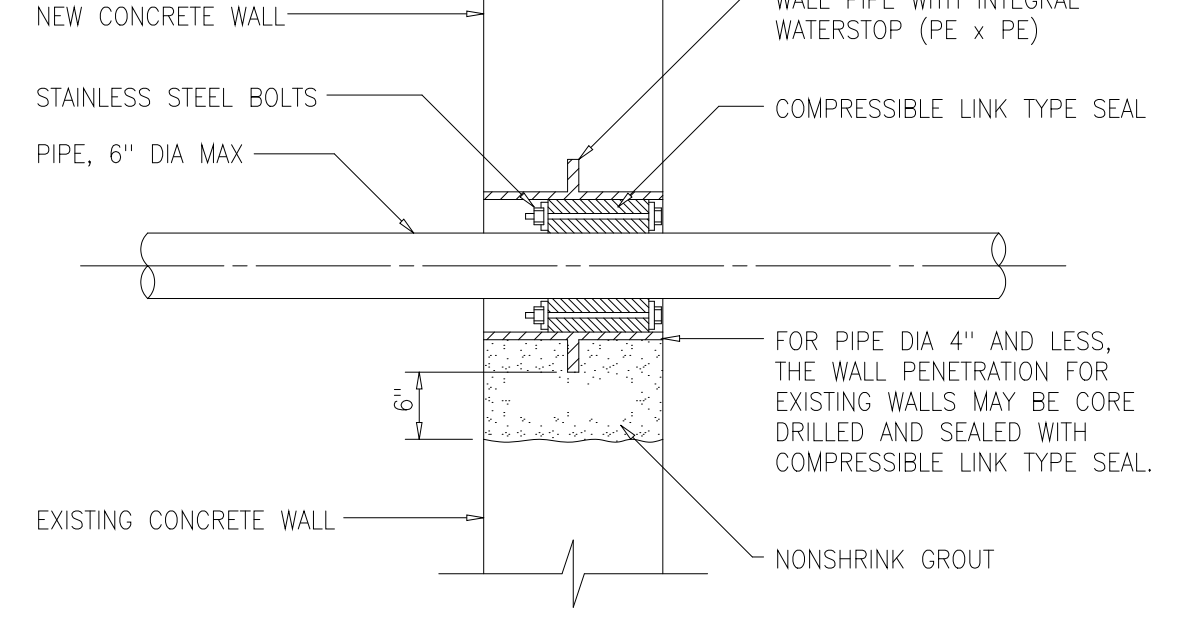
BASE ELBOW (TEE)



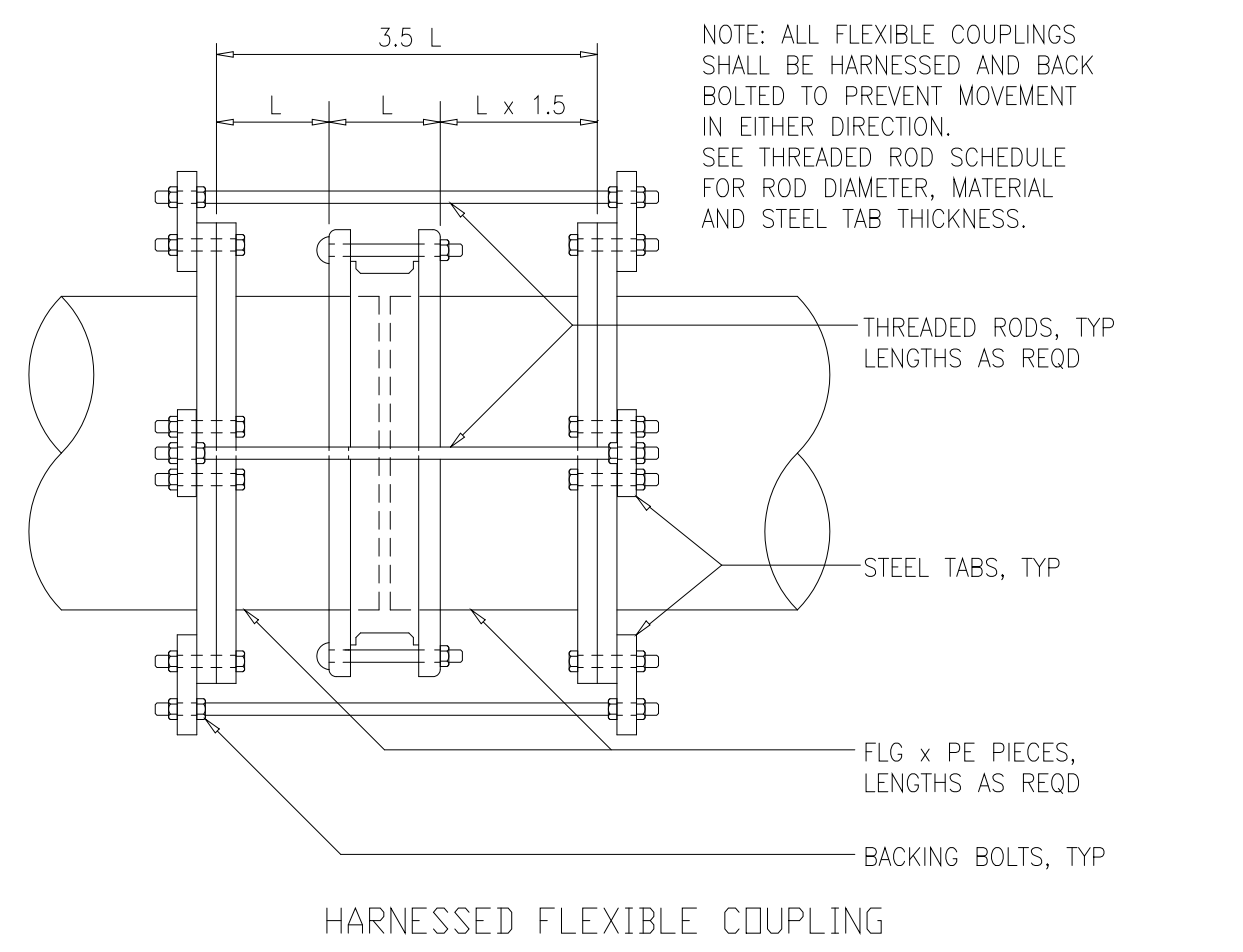
PIPE SUPPORT BRACKET



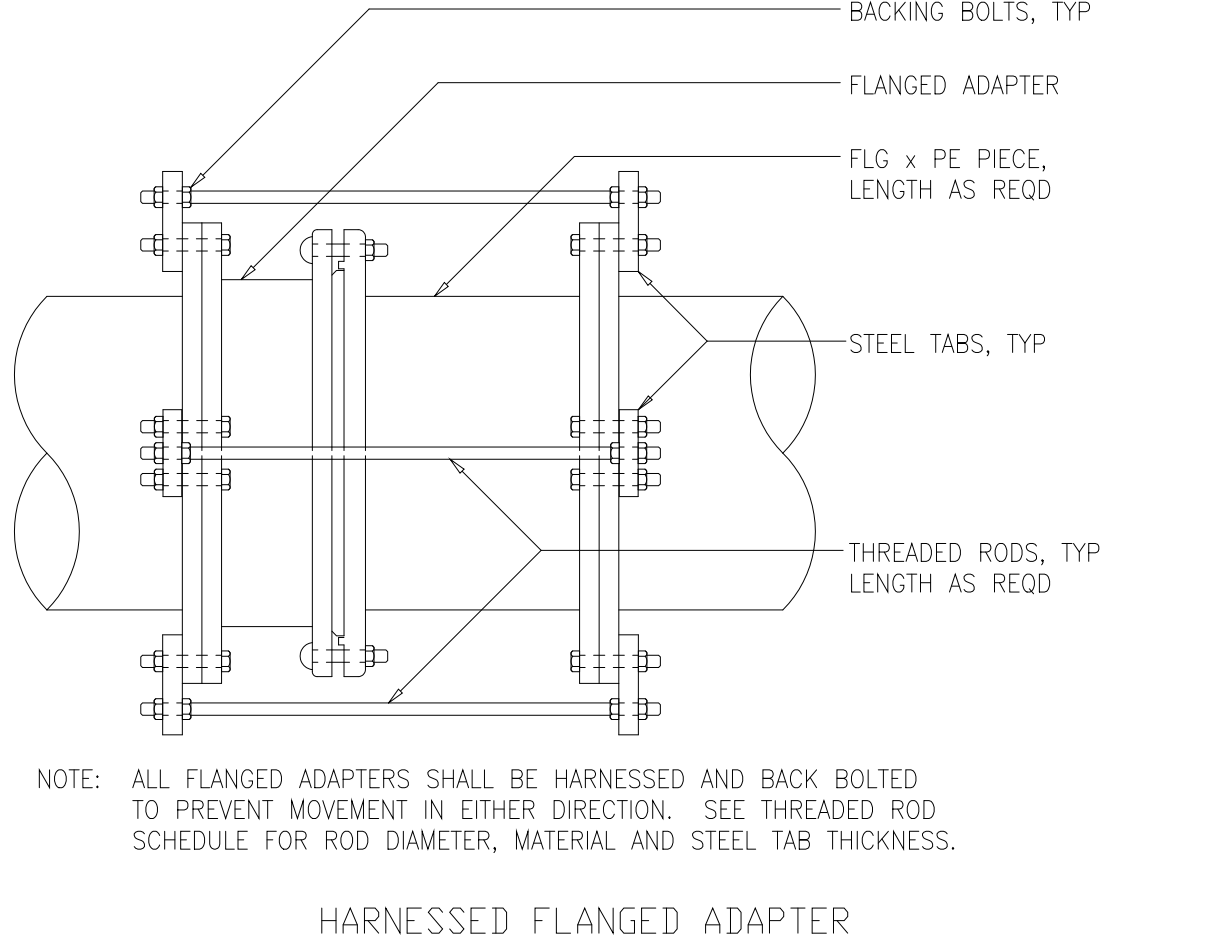
FLG x FLG



PIPE BELOW GRADE OR WET CONDITION

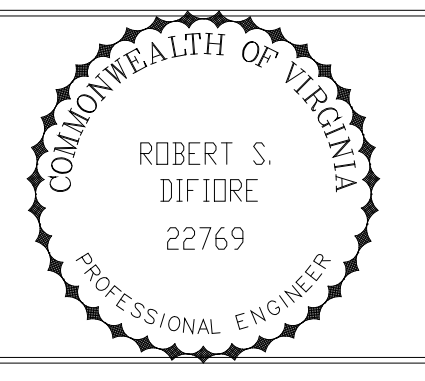


HARNESSED FLEXIBLE COUPLING



HARNESSED FLANGED ADAPTER

NO.	ISSUED FOR	DATE	BY	APPROVED
3	RECORD DRAWING	5-99	MKS	
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	



HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
MECHANICAL
MISCELLANEOUS DETAILS
SHEET 2

DATE SEPT. 1994	
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	M-218
SHEET	113 OF 199

RECORD DRAWING

ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
ATC	AUTOMATIC TEMPERATURE CONTROL
AUTO	AUTOMATIC
ANCH	ANCHOR
AS	AIR SEPARATOR
BF	BAG FILTER
BDD	BACKDRAFT DAMPER
BLDG	BUILDING
BOT EL	BOTTOM ELEVATION
BHP	BRAKE HORSE POWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CL	CENTER LINE
C	CONVECTOR
CH	CABINET HEATER
CAP	CAPACITY
CD	CEILING DIFFUSER
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CO	CLEANOUT
CG	CEILING GRILLE
CR	CEILING REGISTER
CC	COOLING COIL
CFMB	COMBINATION FILTER MIXING BOX
CP	CONTROL PANEL
DIA	DIAMETER
DET	DETAIL
DN	DOWN
DWG	DRAWING
DX	DIRECT EXPANSION
DBL	DOUBLE
DL	DRUM LOUVER
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EG	EXHAUST GRILLE
EL	ELEVATION
ER	EXHAUST REGISTER
EQUIP	EQUIPMENT
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION TANK
FC	FLEXIBLE CONNECTION
FF	FLAT FILTER
FD	FIRE DAMPER
FLEX	FLEXIBLE
FLG	FLANGED
FLR	FLOOR
FPM	FEET PER MINUTE
FT	FEET
F&B	FACE & BYPASS DAMPER
FBL	FIXED BLADE LOUVER
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HRC	HEAT RECOVERY COIL
HRC-S	HEAT RECOVERY COIL SUPPLY
HRC-X	HEAT RECOVERY COIL EXHAUST
HX	HEAT EXCHANGER
ID	INSIDE DIAMETER
LAT	LEAVING AIR TEMPERATURE
LBG	LINEAR BAR GRILLE
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTUH
MED	MEDIUM
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MIN	MINIMUM
MFR	MANUFACTURER
MOD	MOTOR OPERATED DAMPER
MOL	MOTOR OPERATED LOUVER
MCF	MEDIUM CAPACITY FILTER BOX
MB	MIXING BOX
NO	NORMALLY OPEN
NC	NORMALLY CLOSED

NFA	NET FREE AREA
NIC	NOT IN CONTRACT
OAI	OUTSIDE AIR INTAKE
OH	OPPOSITE HAND
OPNG	OPENING
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
PE	POLYETHYLENE
RA	RETURN AIR
RED	REDUCER
REQ'D	REQUIRED
RG	RETURN GRILLE
RM	ROOM
RR	RETURN REGISTER
RO	ROOF OPENING
SAD	SELF ACTING DAMPER
SG	SUPPLY GRILLE
SHT	SHEET
SR	SUPPLY REGISTER
SRV	SAFETY RELIEF VALVE
S/S	STAINLESS STEEL
SM	SHEET METAL
TDH	TOTAL DYNAMIC HEAD
TG	TRANSFER GRILLE
TI	TEMPERATURE INDICATOR
UH	HOT WATER UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VD	MANUAL VOLUME DAMPER
WG	WATER GAUGE
WPD	WATER PRESSURE DROP
WTR	WATER TEMPERATURE RISE
W/	WITH
	CONNECTION POINT, NEW TO EXISTING
	ITEM TO BE ABANDONED IN PLACE
	ITEM TO BE REMOVED

EQUIPMENT

	EQUIPMENT DESIGNATION
	ITEM NUMBER
	AIR HANDLING UNIT
	AIR CONDITIONER
	HEATING AND VENTILATING UNIT
	CONTROL ROOM AIR CONDITIONER
	CONVECTOR
	ELECTRIC UNIT HEATER
	EXHAUST FAN
	PUMP
	PACKAGED TERMINAL AIR CONDITIONER
	HOT WATER BOILER
	ROOF MOUNTED RELIEF OR INTAKE VENT
	HEAT EXCHANGER
	UNIT HEATER

	DOOR HEATER
	AIR COOLED CONDENSER
	HORIZONTAL UNIT HEATER
	THERMOSTAT
	NIGHT THERMOSTAT
	MOTOR

PIPING

	HOT WATER SUPPLY
	HOT WATER RETURN
	COMPRESSED AIR
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	DIGESTER GAS
	EFFLUENT WATER SUPPLY
	EFFLUENT WATER RETURN
	DRAIN
	FUEL OIL SUPPLY
	FUEL OIL RETURN
	FUEL OIL VENT
	FUEL OIL GAUGE
	NATURAL GAS
	MAKE-UP WATER
	EXPANSION JOINT
	DIRECTION OF PITCH
	ELBOW UP
	ELBOW DOWN
	TEE DOWN
	TEE UP
	PIPE CAP
	CONNECTION UP
	CONNECTION DOWN
	ALIGNMENT GUIDE
	ANCHOR
	PLUG VALVE
	TEMPERATURE CONTROL VALVE
	AIR FILTER
	LO & HI PRESS SWITCH
	GATE VALVE, MOTOR OPERATED
	ANGLE VALVE
	DUAL STRAINER
	FILTER
	METER
	THREE WAY SOLENOID VALVE

	MANUAL THREE WAY VALVE
	GAS PRESS REGULATOR
	FLAME ARRESTER
	PUMP
	GEAR PUMP
	CONDENSATE TRAP
	FUSIBLE LINK FIRE SHUT OFF VALVE
	RECEIVER (ATOMIZING AIR)
	ATOMIZING AIR PROVING SWITCH
	BASKET STRAINER (FUEL OIL)
	PUMP WITH SUCTION DIFFUSER
	BUTTERFLY VALVE
	CHECK VALVE
	PLUG COCK
	GATE VALVE
	GLOBE VALVE
	PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE
	MODULATING 3-WAY MIXING VALVE
	SOLENOID VALVE
	IN-LINE FLOW INDICATOR
	AIR VENT WITH GATE VALVE ("A" INDICATES AUTOMATIC)
	SELF CONTAINED SET PT. THERMAL VALVE
	Y STRAINER
	BALL VALVE
	FLOW ORIFICE
	EXPANSION JOINT
	FLOW SWITCH
	TEST WELL
	REDUCER (CONCENTRIC)
	REDUCER (ECCENTRIC)
	UNION
	FLOW METER
	COMBINATION FLOW METER/BALANCING VALVE
	BALANCING VALVE
	GLOBE VALVE
	HOSE END DRAIN
	RELIEF VALVE
	THERMOMETER (T.I.) ("T.I." TEMPERATURE INDICATOR)
	PRESSURE GAUGE
	FLEXIBLE CONNECTION

DUCTWORK

	12" X 12"
	DUCT, DIRECTION OF FLOW, SIZE
	DUCT SECTION, SUPPLY
	DUCT SECTION, RETURN
	DROP (D)
	CHANGE OF ELEVATION RISE (R)
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT SPLITTER VANES
	TURNING VANES
	DUCT ELBOW DOWN
	VOLUME DAMPER (MANUAL)
	DUCT ELBOW UP
	SUPPLY DIFFUSER OR REGISTER $\left\langle \frac{SD}{12} \times \frac{12}{100} \times \frac{CFM}{100} \right\rangle$ SIZE CAPACITY
	RETURN, EXHAUST REGISTER OR GRILLE
	FOUR WAY BLOW SUPPLY DIFFUSER
	THREE WAY BLOW SUPPLY DIFFUSER
	1.0 OS.F. DOOR LOUVER, SIZE 100 CFM
	DOOR UNDERCUT
	DUCTWORK WITH INTERNAL INSULATION S.M. SIZE SHOWN INCLUDES ALLOWANCE FOR DAMPER
	AUTOMATIC DAMPER
	SMOKE DAMPER
	TWO WAY BLOW SUPPLY DIFFUSER
	ONE WAY BLOW SUPPLY DIFFUSER
	CEILING RADIATION DAMPER
	LINEAR DIFFUSER
	DIAMETER, ROUND DUCT
	POWER ROOF VENTILATOR-INTAKE
	POWER ROOF VENTILATOR-EXHAUST
	GRAVITY ROOF VENTILATOR-INTAKE
	GRAVITY ROOF VENTILATOR-EXHAUST
	FIRE DAMPER IN FLOOR
	FIRE DAMPER IN WALL

RECORD DRAWING

PLOT DATE: 04/12/03 3:09pm FILE: H:\DATA\2003\114-114-0311.dwg BY: MATIS .R02 FILE = .R02

DESIGNED	JR
DRAWN	DB
CHECKED	DB
PROJ. ENGR.	DB
J.J.B.	J.J.B.
J.J.B.	J.J.B.
J.J.B.	J.J.B.
J.J.B.	J.J.B.
J.J.B.	J.J.B.
J.J.B.	J.J.B.

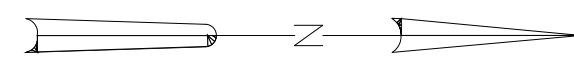
NO.	ISSUED FOR	DATE	BY	APPROVED
3	RECORD DRAWING	4-99	MKS	
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

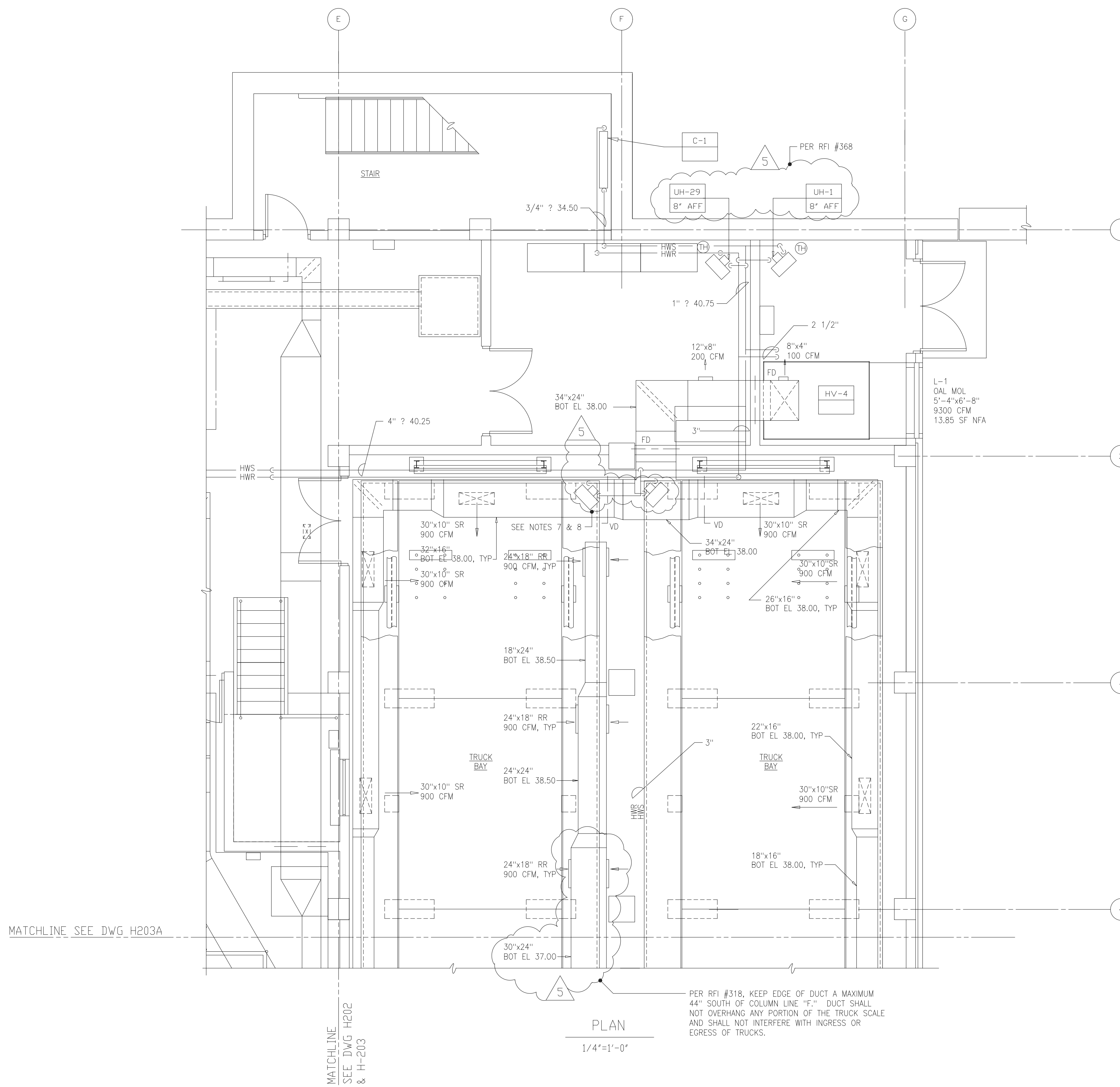
CENTRIFUGE DEWATERING BUILDING
HVAC
SYMBOLS & ABBREVIATIONS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER H201
	SHEET 114 OF 199



NOTES:

- 1 FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING H-201.
- 2 FOR EQUIPMENT SCHEDULE, SEE DRAWING H-212 & H-213.
- 3 FOR CONTROL DIAGRAM, SEE DRAWING H-216.
- 4 FOR PIPING SCHEMATIC AT EQUIPMENT, BUILDING ENTRY, AND DETAILS, SEE DRAWINGS H-214 AND H-215.
- 5 FOR CONTINUATION OF PIPING AND DUCTWORK UP, SEE DRAWING H-204.
- 6 ALL SR AND RR SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS.
- 7 PER FIELD ORDER #18, ADD (2) HERESITE COATED UNIT HEATERS, STERLING MODEL HS-360, AND THE ASSOCIATED ELECTRICAL CONDUIT, PIPING, AND INSULATION IN ACCORDANCE WITH DANIS.
- 8 PER FIELD ORDER #20 ITEM #11, THE LOCATION OF THE UNIT HEATERS WILL BE AGAINST THE WEST WALL OF THE TRUCK BAY. ONE PER BAY ELEVATED AS HIGH AS POSSIBLE. EACH WILL BE APPROX. 5' NORTH/SOUTH OF COLUMN LINE "F."



PLAN

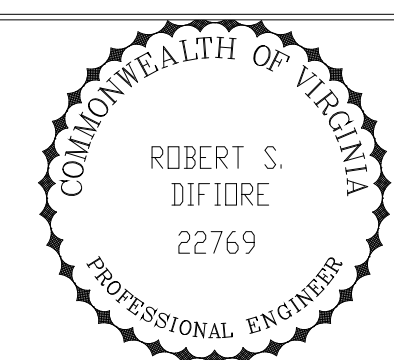
1/4" = 1'-0"

RECORD DRAWING

PLOT DATE 04/17/00 3:05pm FILE: H:\2843\h202a\h202a.dwg BY MATS WRF FILE: NONE

NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY
5	RECORD DRAWING	4-99	MKS				
4	WP3 CONST.-LAND APP. REDES.	3-96	RSD				
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD				
2	CONSTRUCTION	9-94	JJB				
1	REGULATORY APPROVAL	9-94	JJB				

DESIGNED	HFB
DRAWN	WAM
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	

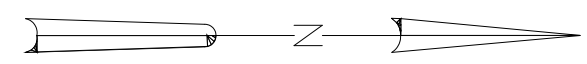


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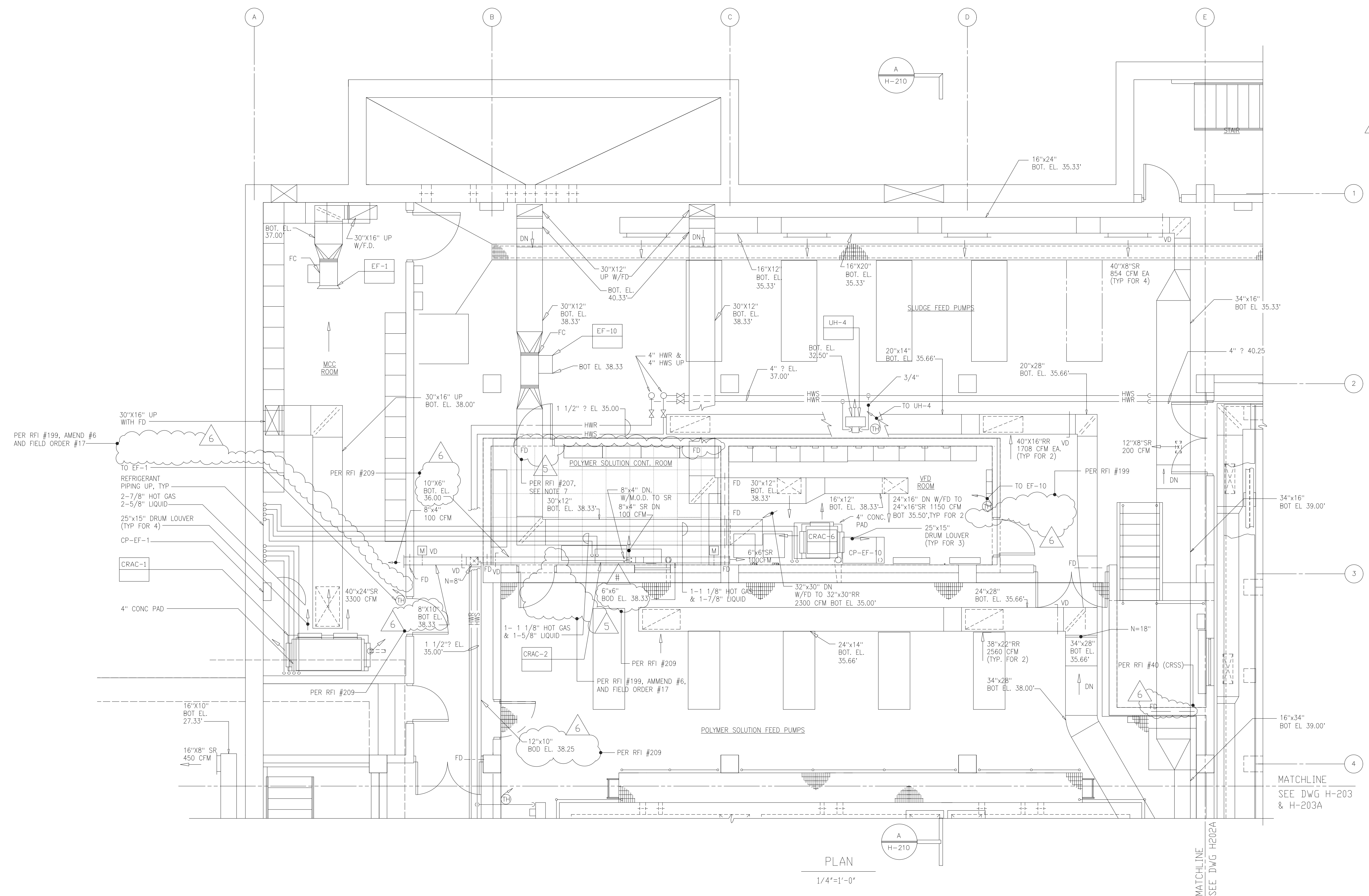
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 HVAC
 PLAN AT ELEVATION 25.00
 SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H202A
	SHEET	115A OF 199



- NOTES:
- 1 FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING H-201
 - 2 FOR EQUIPMENT SCHEDULE, SEE DRAWING H-212 & H-213.
 - 3 FOR CONTROL DIAGRAM, SEE DRAWING H-216.
 - 4 FOR PIPING SCHEMATIC AT EQUIPMENT, BUILDING ENTRY, AND DETAILS, SEE DRAWINGS H-214 AND H-215.
 - 5 FOR CONTINUATION OF PIPING AND DUCTWORK UP, SEE DRAWING H-204
 - 6 ALL SR AND RR SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS.
 - 7 PER RFI #207, FIRE DAMPERS ARE NOT REQUIRED ABOVE THE VERTICAL WALLS.
 - 8 AS PER RFI #222, SUPPLY S.D. FOR ALL UNITS SHALL BE IN DUCTWORK JUST AFTER FAN AND DOWNSTREAM OF ANY TRANSITION PIECES. DAMPERS SHALL BE FULL SIZE OF DUCT.



PLAN

1/4"=1'-0"

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY
6	RECORD DRAWINGS	8-99	F.X.P.				
5	REVISION	4-96	RSD				
4	WP3 CONST.-LAND APP. REDES.	3-96	RSD				
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD				
2	CONSTRUCTION	9-94	JJB				
1	REGULATORY APPROVAL	9-94	JJB				

DESIGNED	HFB
DRAWN	WAM
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	

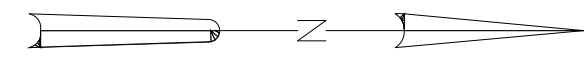


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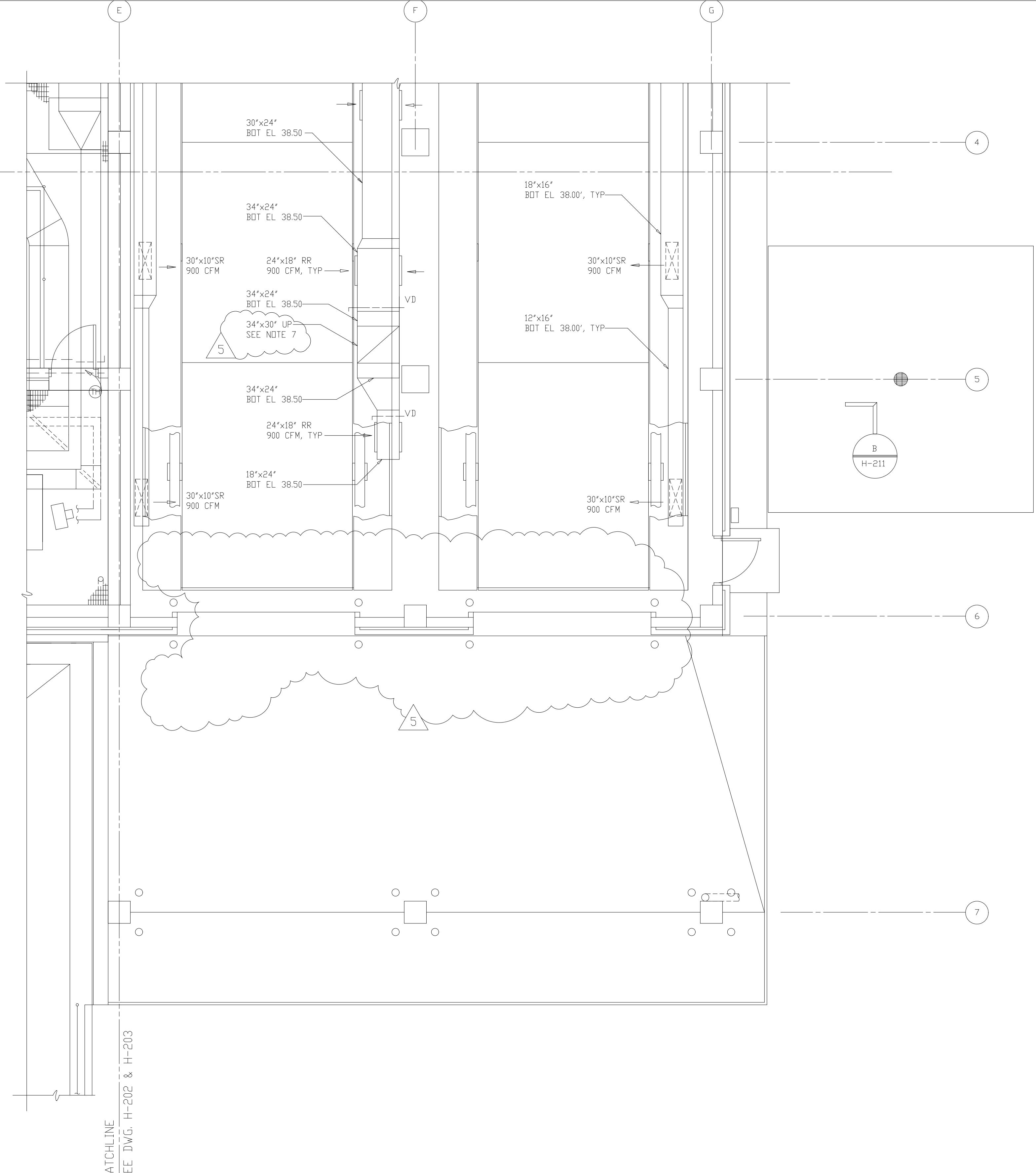
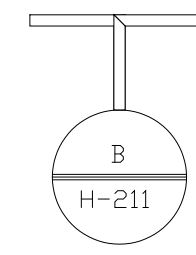
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
HVAC
PLAN AT ELEVATION 25.00
SHEET 1

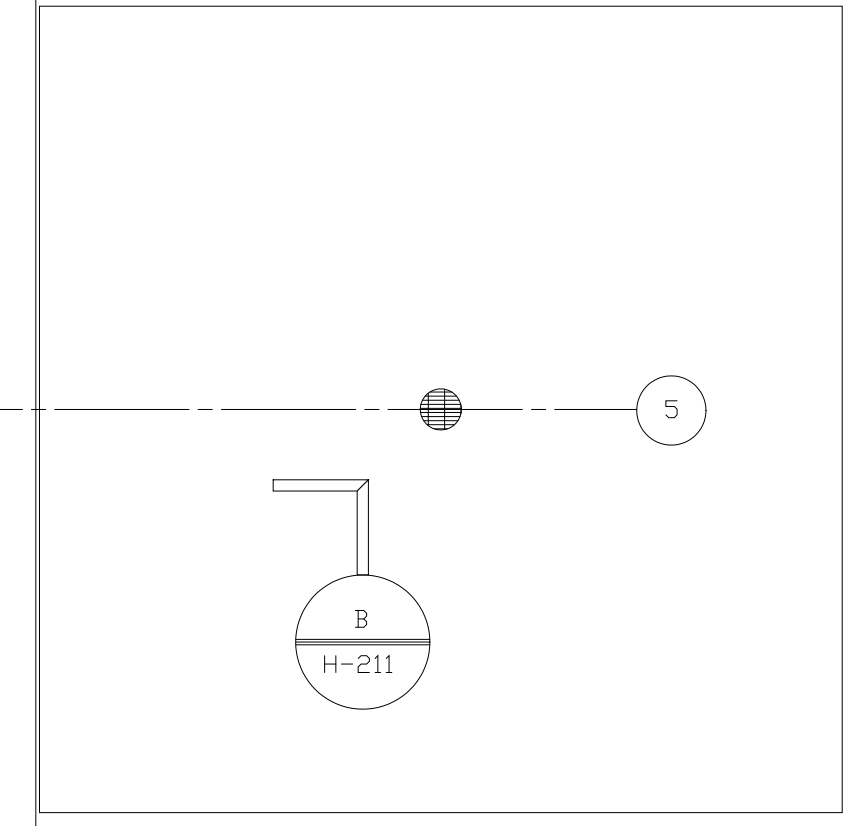
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H202
	SHEET	115 OF 199



MATCHLINE
SEE DWG. H-202A



- NOTES:
- 1 FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING H-201.
 - 2 FOR EQUIPMENT SCHEDULE, SEE DRAWING H-212 & H-213.
 - 3 FOR CONTRL DIAGRAM, SEE DRAWING H-216.
 - 4 FOR PIPING SCHEMATIC AT EQUIPMENT, BUILDING ENTRY, AND DETAILS, SEE DRAWINGS H-214 AND H-215.
 - 5 FOR CONTINUATION OF PIPING AND DUCTWORK UP, SEE DRAWING H-205.
 - 6 ALL SR AND RR SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS.
 - 7 THE SMOKE/ISOLATION DAMPER IN THE DUCT GOING UP THROUGH THE TRUCK BAY CEILING IS TO BE 34'x30". PER RFI #332.

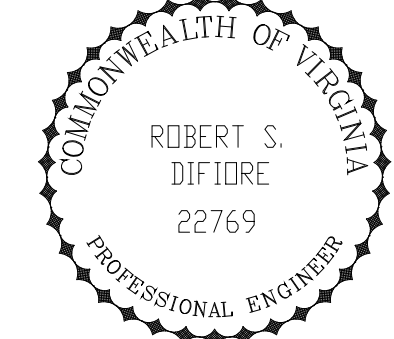


MATCHLINE
SEE DWG. H-202 & H-203

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY
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4	WP3 CONST.-LAND APP. REDES.	3-96	RSD				
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD				
2	CONSTRUCTION	9-94	JJB				
1	REGULATORY APPROVAL	9-94	JJB				

DESIGNED: HFB
 DRAWN: WAM
 CHECKED:
 PROJENGR: AB/RNC
 APPROVED:



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 Environmental Engineers & Scientists
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ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

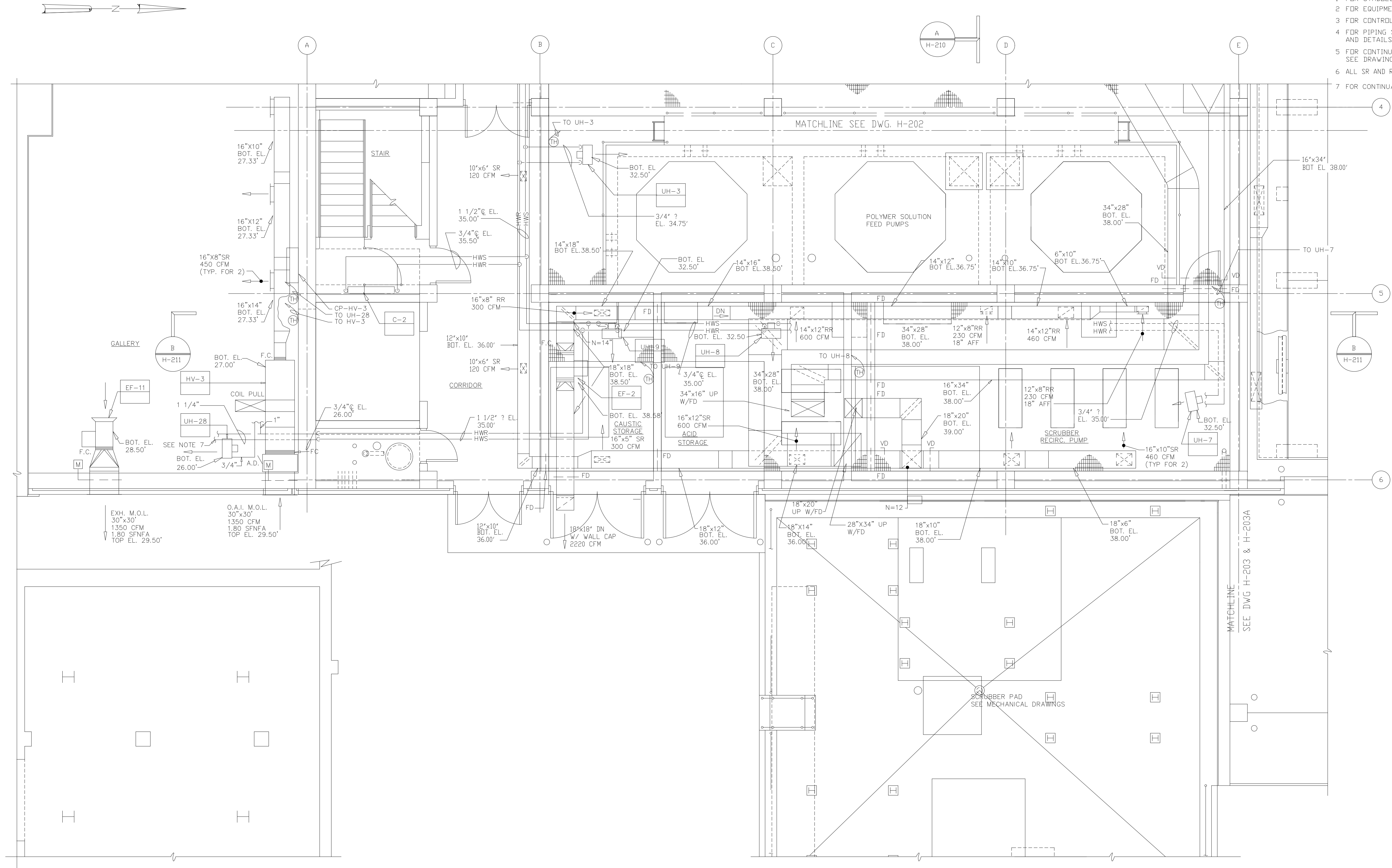
CENTRIFUGE DEWATERING BUILDING
 HVAC
 PLAN AT ELEVATION 25.00
 SHEET 4

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE: SEPT 94
	H & S JOB NUMBER: 2843
	CONTRACT NUMBER: 93-02-WPC
	DRAWING NUMBER: H203A
	SHEET 116A OF 199

PLOT DATE: 04/13/00 09:00 AM FILE: H:\2004\04\13\00\116A-116A.dwg BY: MATS WRF FILE: 116A

NOTES:

- 1 FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING H-201.
- 2 FOR EQUIPMENT SCHEDULE, SEE DRAWING H-212 & 213.
- 3 FOR CONTROL DIAGRAM, SEE DRAWING H-216.
- 4 FOR PIPING SCHEMATIC AT EQUIPMENT, BUILDING ENTRY, AND DETAILS, SEE DRAWINGS H-214 AND H-215.
- 5 FOR CONTINUATION OF PIPING AND DUCTWORK UP, SEE DRAWING H-205.
- 6 ALL SR AND RR SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS.
- 7 FOR CONTINUATION, SEE DWG M301



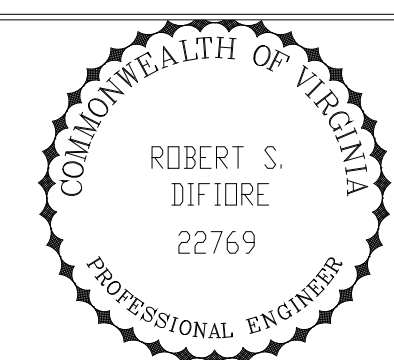
PLAN
1/4"=1'-0"

RECORD DRAWING

PLOT DATE: 09/13/94 09:00 AM FILE: H:\WORK\H203\H203-REV-05.DWG BY: WJTS XREF FILE: NONE

NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY
5	RECORD DRAWING	6-99	MKS				
4	REVISION	4-96	RSD				
3	WP3 CONST.-LAND APP. REDES.	3-96	RSD				
2	CONSTRUCTION	1-96	RSD				
1	REGULATORY APPROVAL	9-94	JJB				

DESIGNED: HFB
DRAWN: WAM
CHECKED:
PROJENGR: AB/RNC
APPROVED:

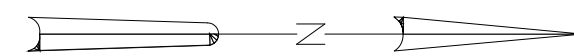


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

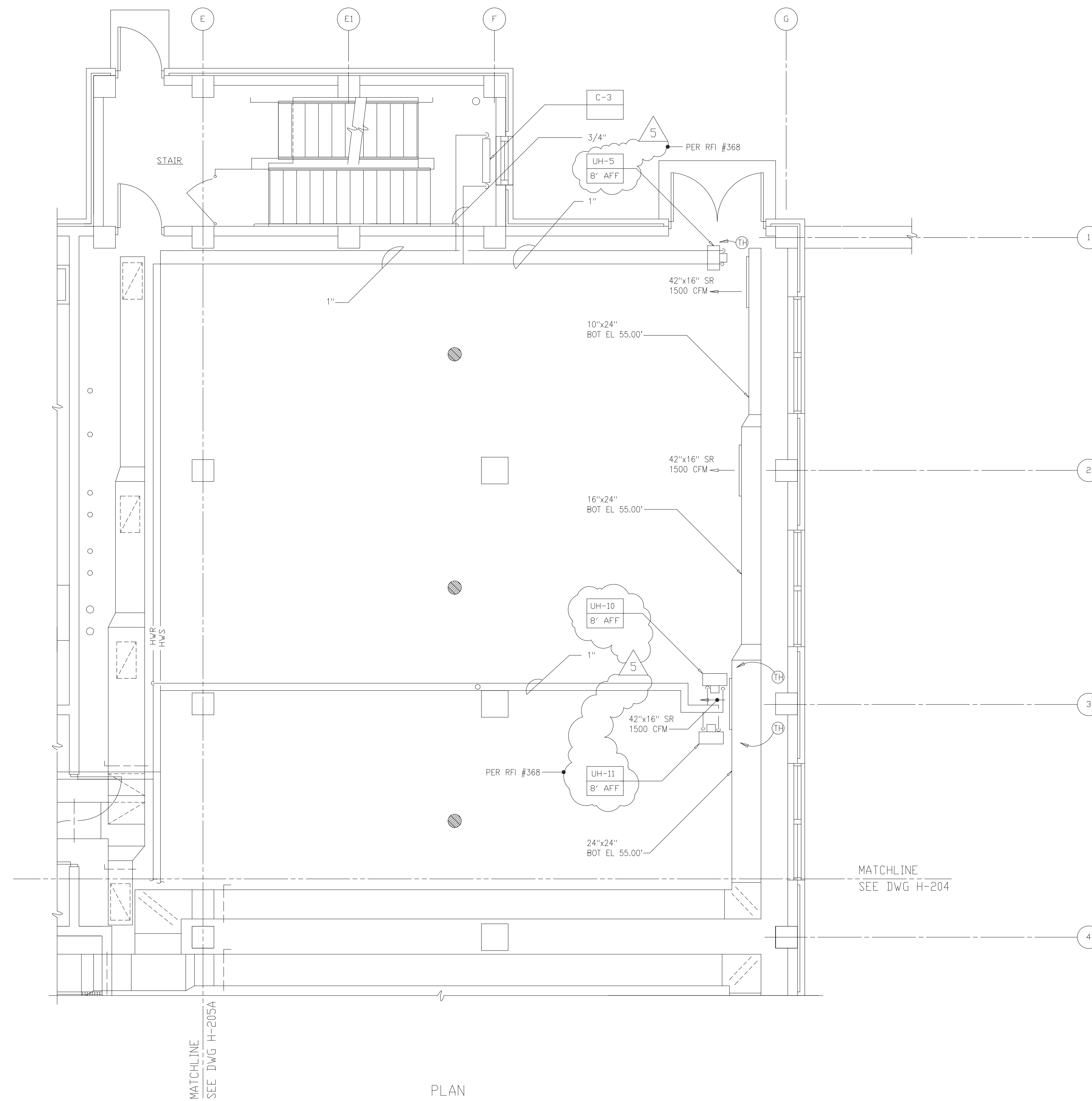
CENTRIFUGE DEWATERING BUILDING
HVAC
PLAN AT ELEVATION 25.00
SHEET 3

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE: SEPT 94
	H & S JOB NUMBER: 2843
	CONTRACT NUMBER: 93-02-WPC
	DRAWING NUMBER: H203
	SHEET 116 OF 199



NOTES:

- 1 FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING H-201
- 2 FOR EQUIPMENT SCHEDULE, SEE DRAWING H-212 AND 213
- 3 FOR CONTROL DIAGRAM, SEE DRAWING H-216
- 4 FOR PIPING SCHEMATIC AT EQUIPMENT, BUILDING ENTRY, AND DETAILS, SEE DRAWINGS H-214 AND H-215
- 5 FOR CONTINUATION OF PIPING AND DUCTWORK DOWN, SEE DRAWING H202
- 6 FOR CONTINUATION OF PIPING AND DUCTWORK UP, SEE DRAWING H-206
- 7 VENT GAS TRAIN IN ACCORDANCE WITH LOCAL & STATE CODE & MANUFACTURE'S RECOMMENDATIONS.
- 8 PROVIDE ALL VALVES & OTHER PIPING SPECIALTIES SHOWN ON THIS DRAWING AND ALSO THOSE ON THE PIPING SCHEMATIC AND/OR PUMP DETAIL.
- 9 LOCATE UNIT HEATERS UH-10 & UH-11 AT LEAST 2'-4 1/2" SOUTH OF SOUTH FACE OF THE CAKE COLLECTOR CONVEYOR.



1

2

3

4

PER RFI #376

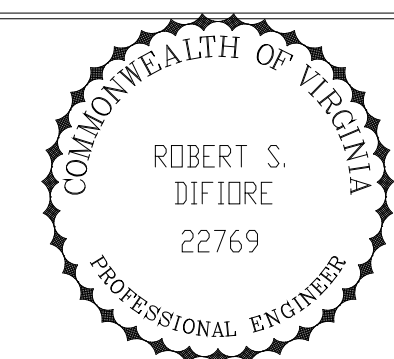
MATCHLINE
SEE DWG H-204

MATCHLINE
SEE DWG H-205A

PLAN
1/4"=1'-0"

RECORD DRAWING

DESIGNED	HFB
DRAWN	WAM
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



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UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

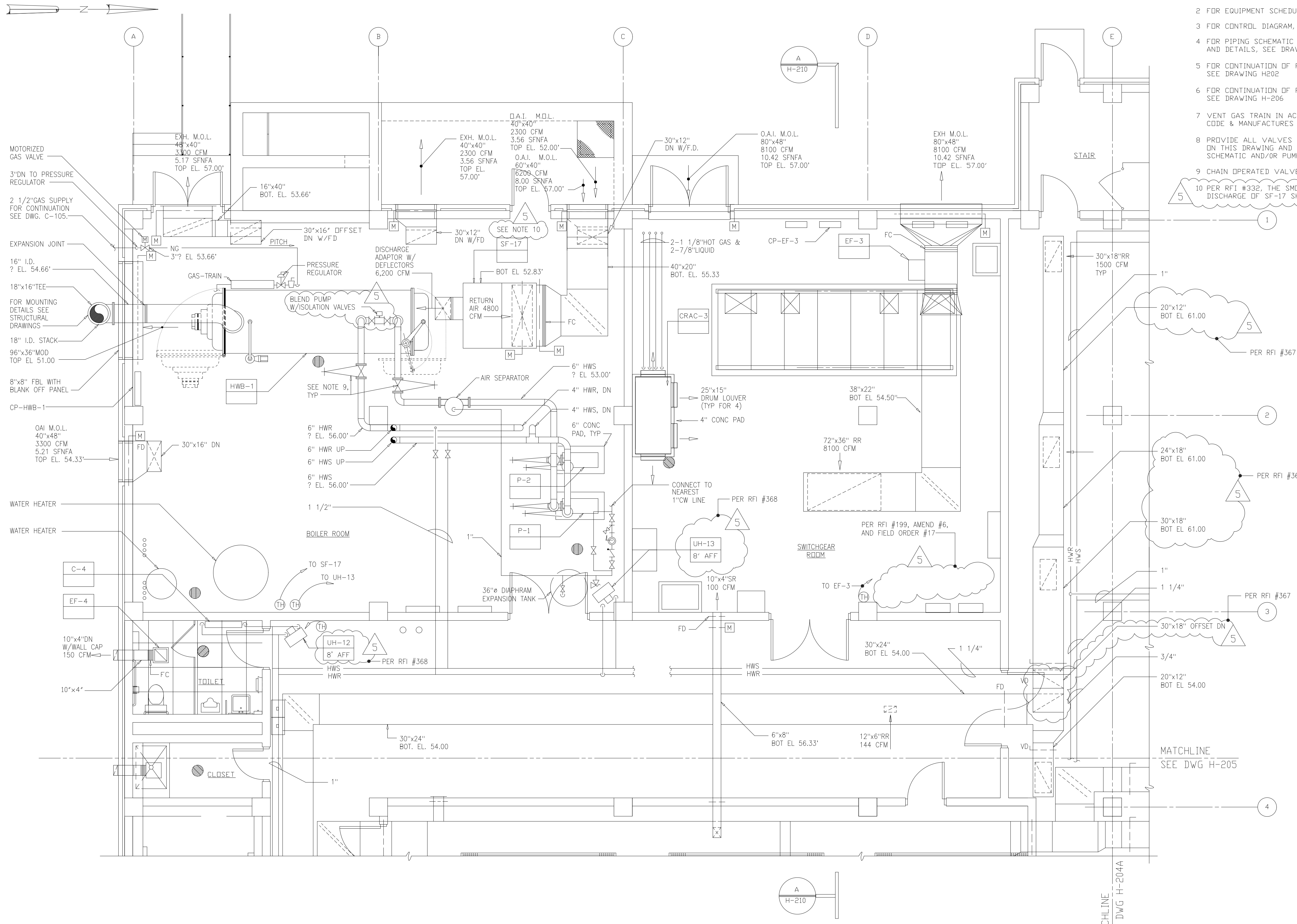
CENTRIFUGE DEWATERING BUILDING
HVAC
PLAN AT ELEVATION 43.00
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H204A
SHEET 117A OF 199		

FILED: 09/14/94 10:00 AM FILED IN: 93040 (MCDONALD) 17A (HWS) BY: MATTS. XREF FILE = NONE

NOTES:

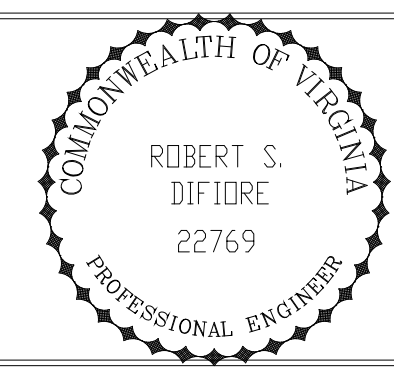
- 1 FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING H-201
- 2 FOR EQUIPMENT SCHEDULE, SEE DRAWING H-212 AND 213
- 3 FOR CONTROL DIAGRAM, SEE DRAWING H-216
- 4 FOR PIPING SCHEMATIC AT EQUIPMENT, BUILDING ENTRY, AND DETAILS, SEE DRAWINGS H-214 AND H-215
- 5 FOR CONTINUATION OF PIPING AND DUCTWORK DOWN, SEE DRAWING H202
- 6 FOR CONTINUATION OF PIPING AND DUCTWORK UP, SEE DRAWING H-206
- 7 VENT GAS TRAIN IN ACCORDANCE WITH LOCAL & STATE CODE & MANUFACTURER'S RECOMMENDATIONS.
- 8 PROVIDE ALL VALVES & OTHER PIPING SPECIALTIES SHOWN ON THIS DRAWING AND ALSO THOSE ON THE PIPING SCHEMATIC AND/OR PUMP DETAIL.
- 9 CHAIN OPERATED VALVES FOR 6" HWR AND HWS TO BOILER.
- 10 PER RFI #332, THE SMOKE/ISOLATION DAMPER ON THE DISCHARGE OF SF-17 SHOULD BE FULL LINE SIZE DAMPER.



PLAN
1/4"=1'-0"

RECORD DRAWING

DESIGNED	HFB		
DRAWN	WAM		
CHECKED			
PROJ.ENGR.	AB/RNC		
NO.	ISSUED FOR	DATE	BY
5	RECORD DRAWING	4-99	MKS
4	WP4 CONST-LAND APP. REDES.	4-96	RSD
3	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB



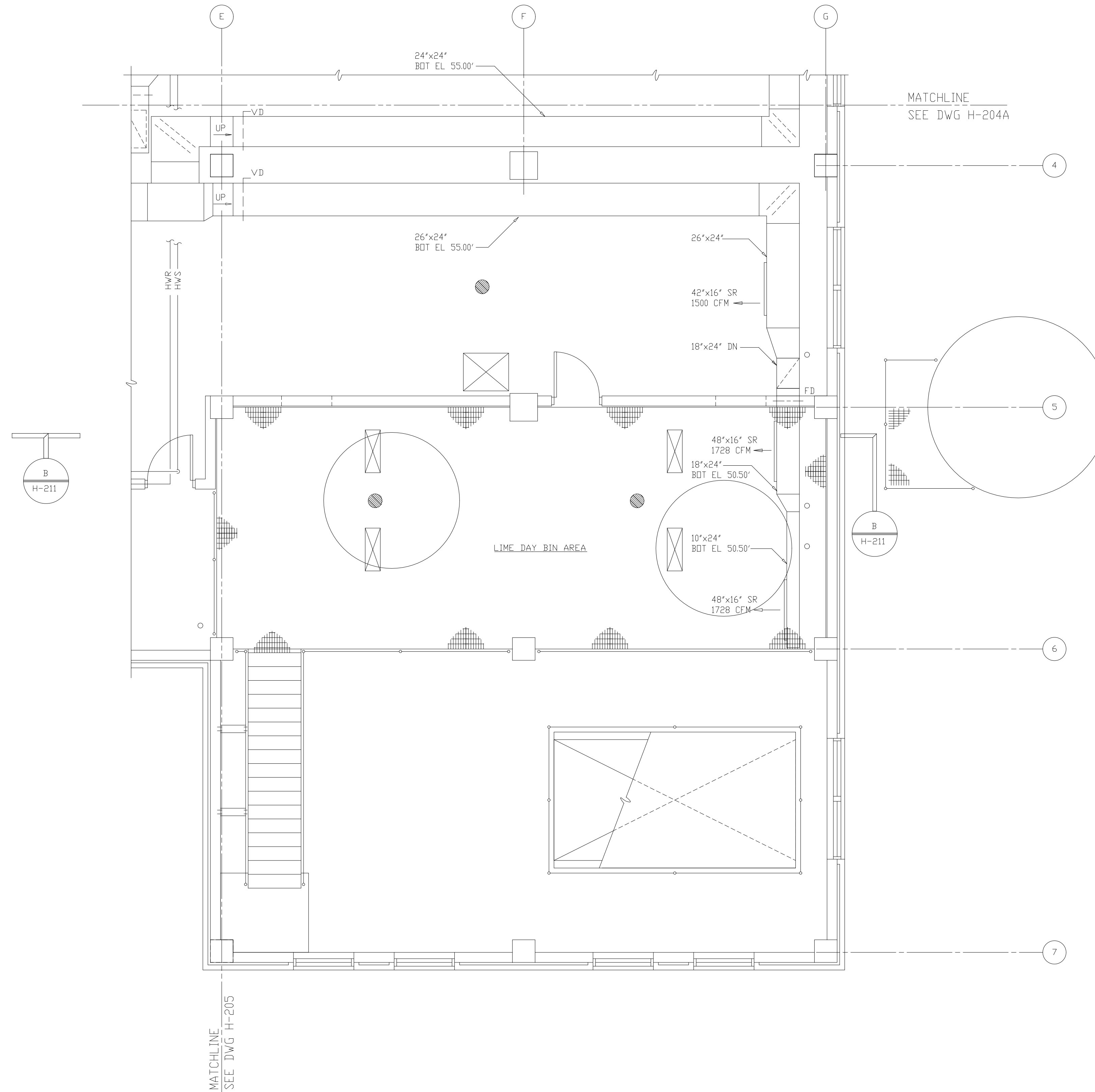
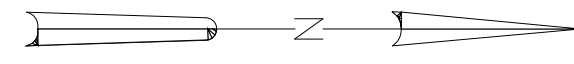
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
HVAC
PLAN AT ELEVATION 43.00
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H-204
SHEET		117 OF 199

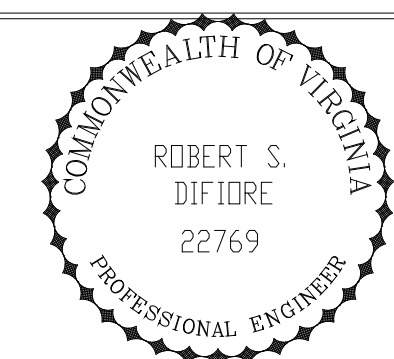
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- NOTES:
- 1 FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING H-201
 - 2 FOR EQUIPMENT SCHEDULE, SEE DRAWING H-212 AND 213.
 - 3 FOR CONTROL DIAGRAM, SEE DRAWING H-216.
 - 4 FOR PIPING SCHEMATIC AT EQUIPMENT, BUILDING ENTRY, AND DETAILS, SEE DRAWINGS H-214 AND H-215.
 - 5 FOR CONTINUATION OF PIPING AND DUCTWORK DOWN, SEE DRAWING H203
 - 6 FOR CONTINUATION OF PIPING AND DUCTWORK UP, SEE DRAWING H-207

RECORD DRAWING

DESIGNED	HFB
DRAWN	WAM
CHECKED	
PROJ. ENGR.	AB/RNC
BY	
APPROVED	



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Environmental Engineers & Scientists
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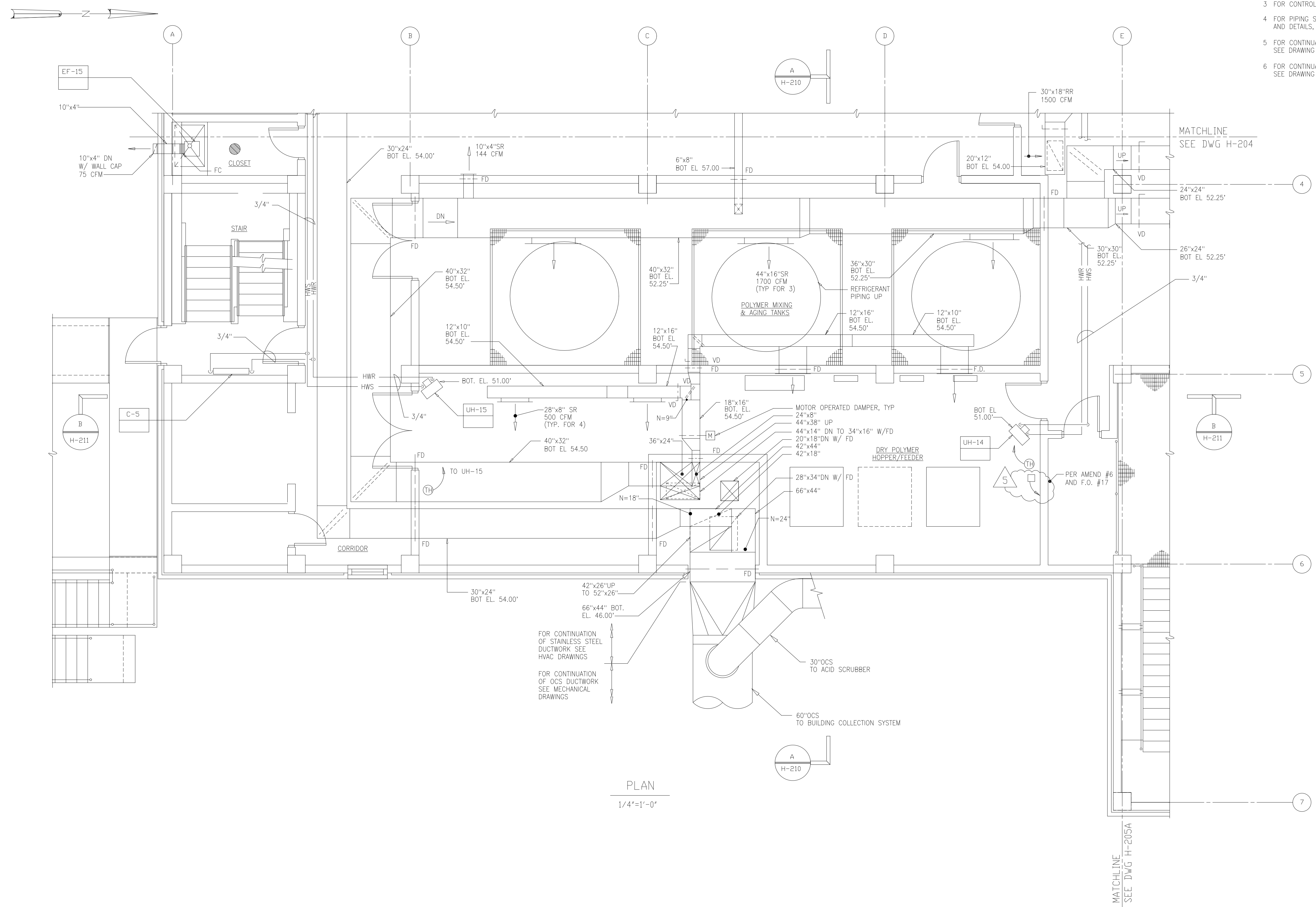
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
HVAC
PLAN AT ELEVATION 43.00
SHEET 4

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H205A
	SHEET	118A OF 199

PLOT: D:\HW\171019.Dwg FILE: H:\DATA\DWG\171019.HW.DWG BY: MATS DATE: FILE: .RWD

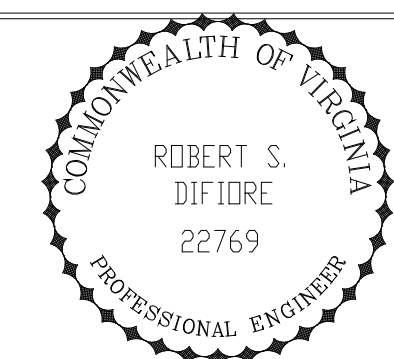
- NOTES:
- 1 FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING H-201
 - 2 FOR EQUIPMENT SCHEDULE, SEE DRAWING H-212 AND 213.
 - 3 FOR CONTROL DIAGRAM, SEE DRAWING H-216.
 - 4 FOR PIPING SCHEMATIC AT EQUIPMENT, BUILDING ENTRY, AND DETAILS, SEE DRAWINGS H-214 AND H-215.
 - 5 FOR CONTINUATION OF PIPING AND DUCTWORK DOWN, SEE DRAWING H203
 - 6 FOR CONTINUATION OF PIPING AND DUCTWORK UP, SEE DRAWING H-207



PLAN
1/4"=1'-0"

RECORD DRAWING

DESIGNED	HFB
DRAWN	WAM
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



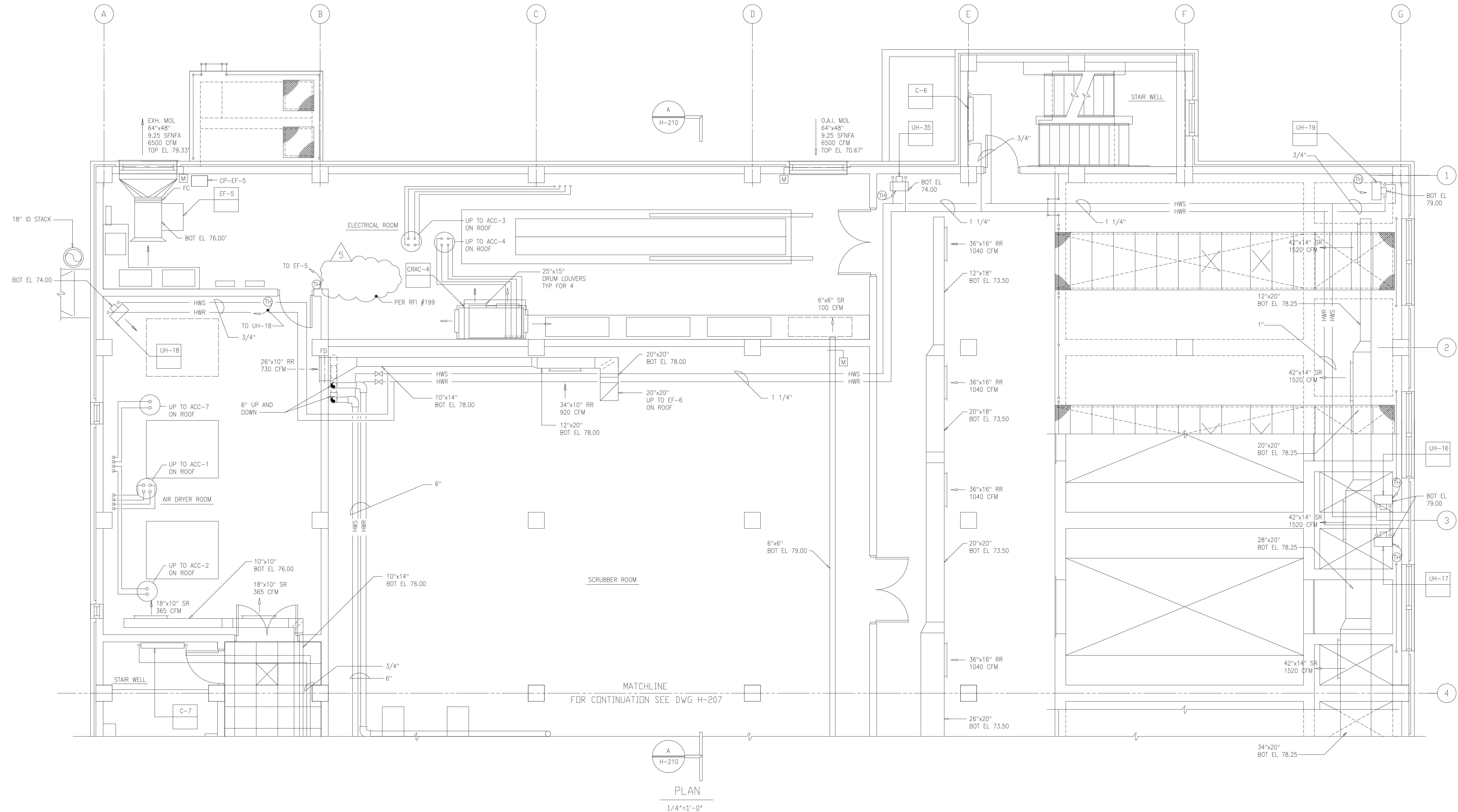
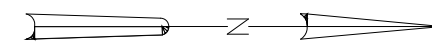
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Environmental Engineers & Scientists
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
HVAC
PLAN AT ELEVATION 43.00
SHEET 3

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H-205
	SHEET	118 OF 199

FILED: 09/14/94 10:09 AM FILED IN: 09/14/94 10:09 AM BY: JMT/MSJ



PLAN
1/4" = 1'-0"

RECORD DRAWING

DESIGNED	HFB
DRAWN	WAM
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	
NO.	ISSUED FOR
DATE	BY

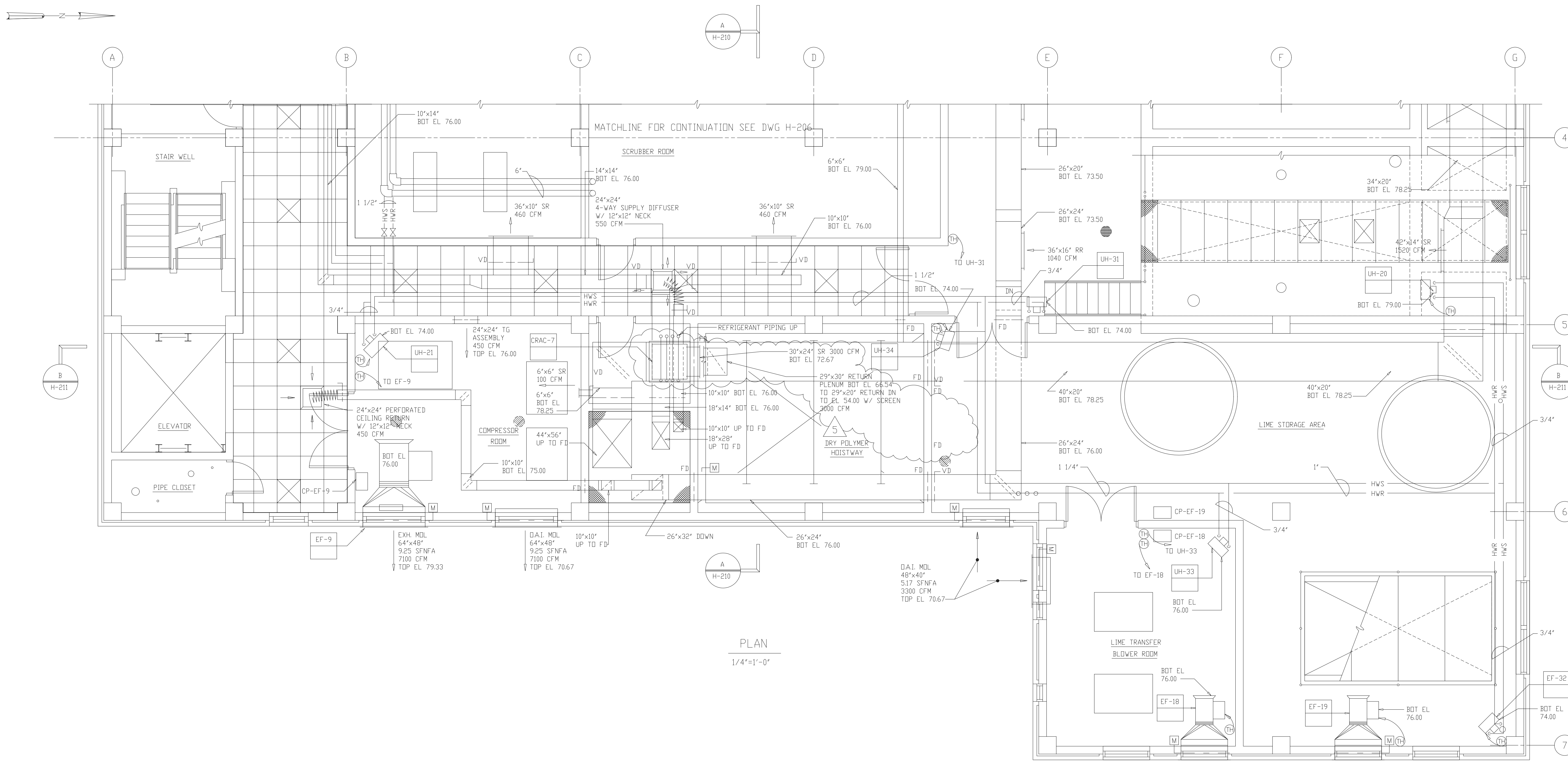
COMMONWEALTH OF VIRGINIA
ROBERT S. DIFIORE
 22769
 PROFESSIONAL ENGINEER

HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 HVAC
 PLAN AT ELEVATION 66.00
 SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H-206
	SHEET	119 OF 199

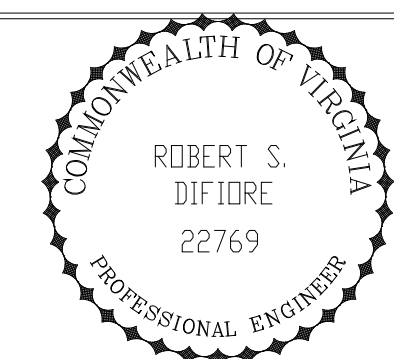


PLAN
1/4"=1'-0"

RECORD DRAWING

5	RECORD DRAWING	4-99	MKS
4	WPS CONST.-LAND APP. REDES.	4-96	RSD
3	WPS APPROVAL-LAND APP. REDES.	2-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
NO.	ISSUED FOR	DATE	BY

DESIGNED	HFB
DRAWN	WAM
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

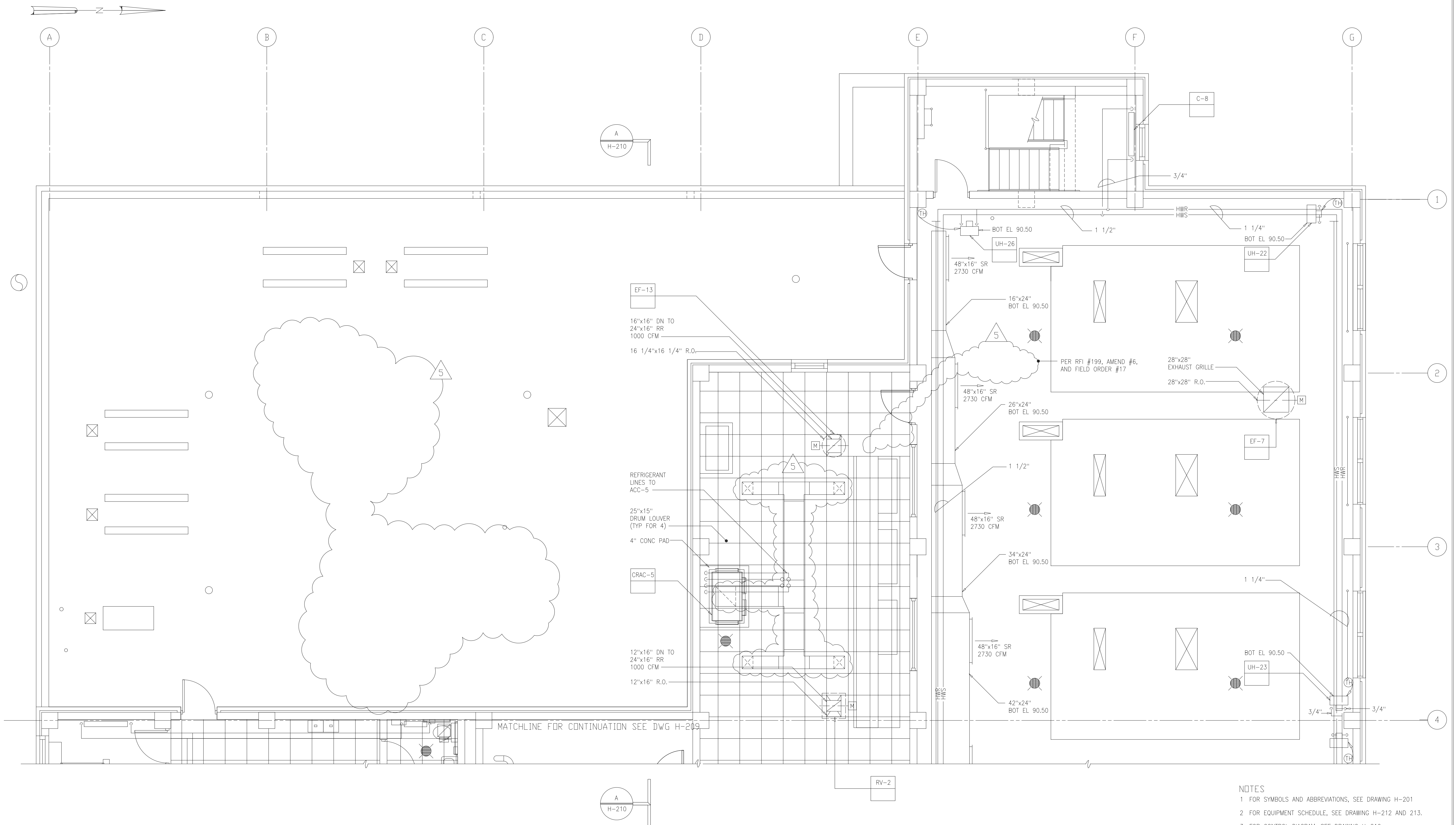


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
HVAC
PLAT AT ELEVATION 66.00
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H-207
	SHEET	120 OF 199

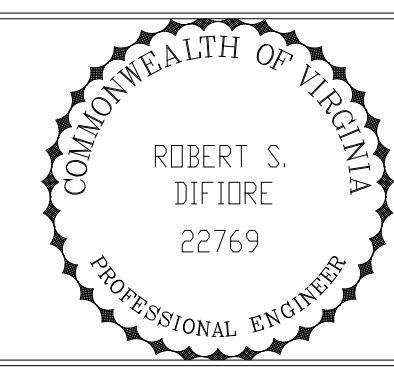


PLAN
1/4"=1'-0"

- NOTES
- 1 FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING H-201
 - 2 FOR EQUIPMENT SCHEDULE, SEE DRAWING H-212 AND 213.
 - 3 FOR CONTROL DIAGRAM, SEE DRAWING H-216.
 - 4 FOR PIPING SCHEMATIC AT EQUIPMENT, BUILDING ENTRY, AND DETAILS, SEE DRAWINGS H-214 AND H-215.
 - 5 FOR CONTINUATION OF PIPING AND DUCTWORK DOWN, SEE DRAWING H206

RECORD DRAWING

DESIGNED	HF.B
DRAWN	WAM
CHECKED	
PROJ.ENGR.	AB/RNC
	J.J.B.
	J.J.B.
NO.	ISSUED FOR
DATE	BY
APPROVED	



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Environmental Engineers & Scientists
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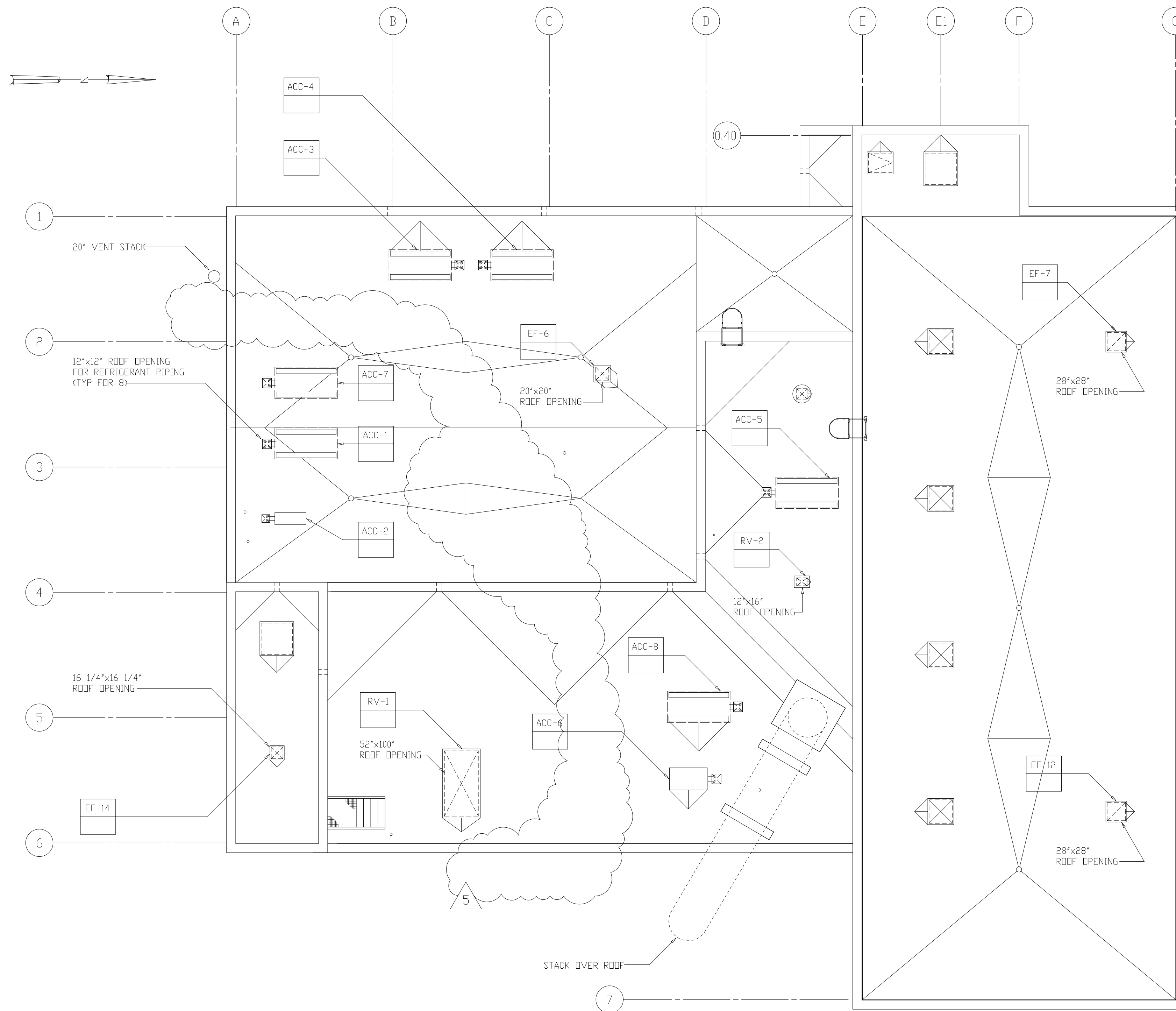
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
HVAC
PLAN AT ELEVATION 82.50
SHEET 1

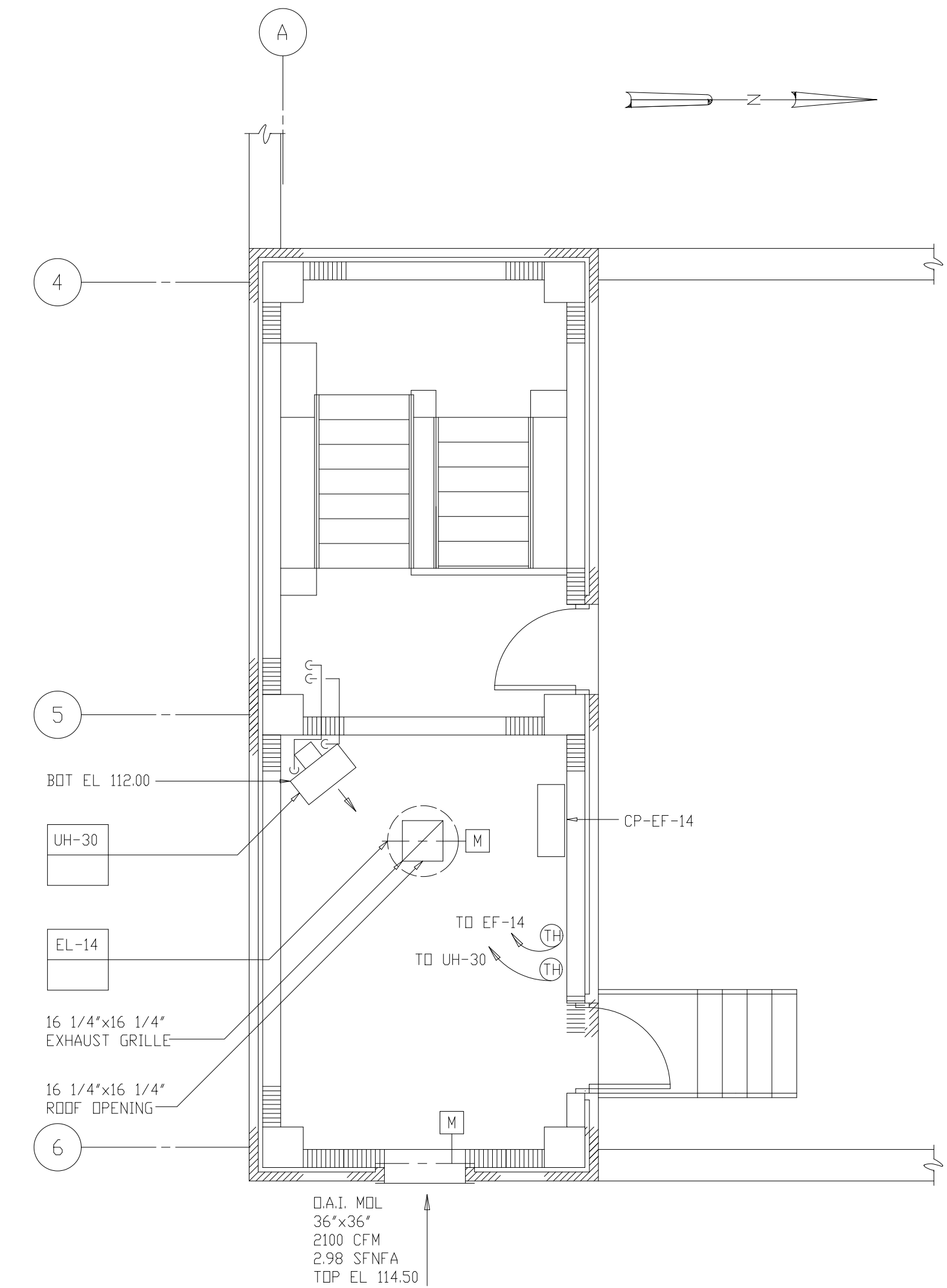
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H-208
	SHEET	121 OF 199

FILED: 10/10/94 10:00 AM FILED IN 100408645311-0006 BY AMTB REF FILE = RDC

- NOTES:
- 1 FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING H-201.
 - 2 FOR EQUIPMENT SCHEDULE, SEE DRAWING H-212 AND 213.
 - 3 FOR CONTROL DIAGRAM, SEE DRAWING H-216.
 - 4 FOR PIPING SCHEMATIC AT EQUIPMENT, BUILDING ENTRY, AND DETAILS, SEE DRAWINGS H-214 AND H-215.
 - 5 FOR CONTINUATION OF PIPING AND DUCTWORK DOWN, SEE DRAWING H206.



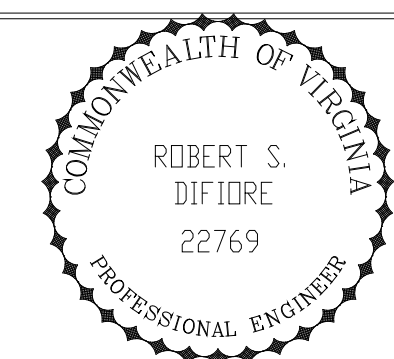
ROOF PLAN
1/8"=1'-0"



PLAN AT ELEVATION 100.50
1/4"=1'-0"

RECORD DRAWING

DESIGNED	HFJ
DRAWN	WAM
CHECKED	
PROJ. ENGR.	AB/RNC
REGULATORY APPROVAL	
ISSUED FOR	
DATE	BY
APPROVED	



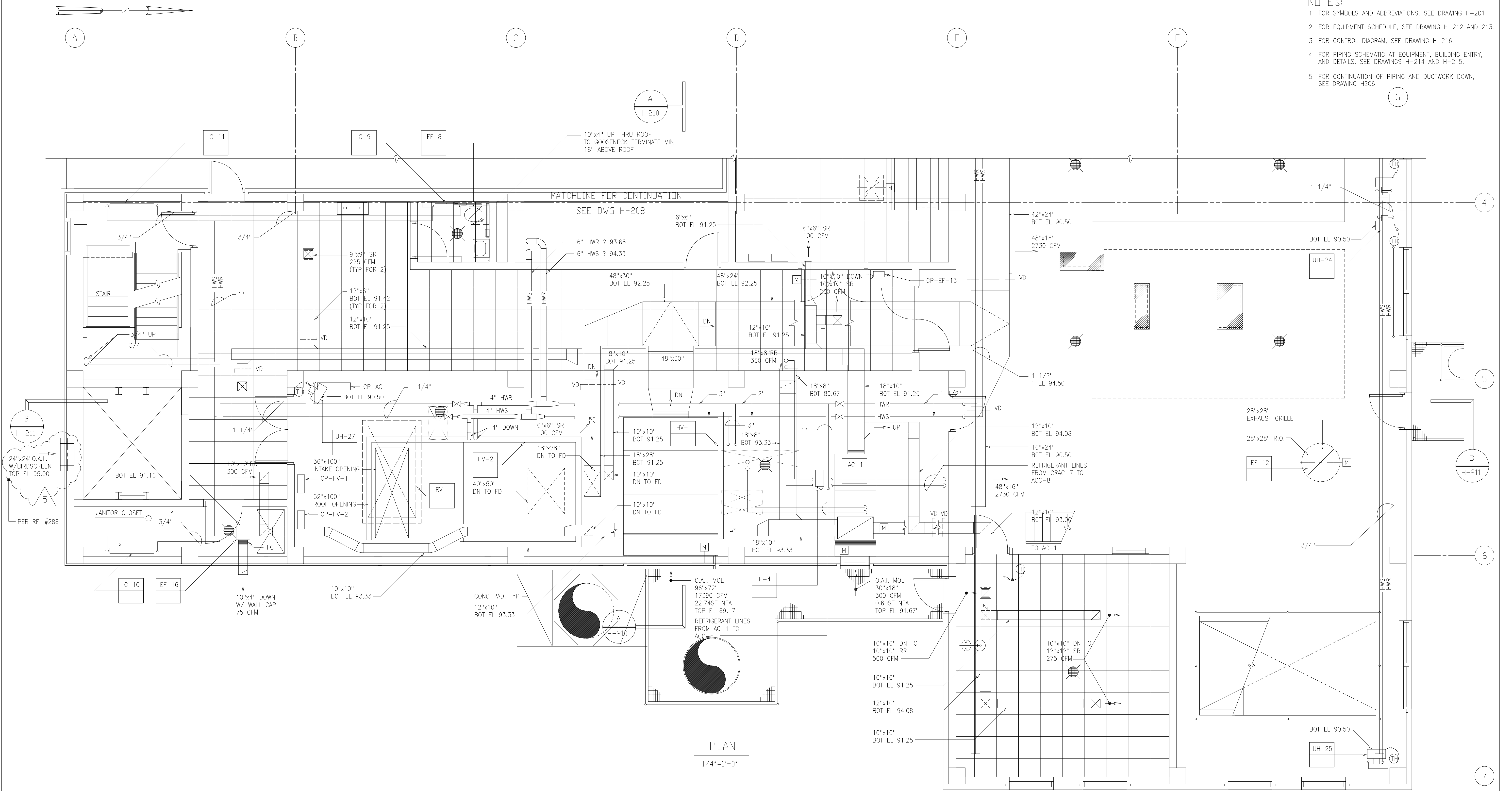
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
HVAC
PLAN AT EL. 100.50 &
ROOF PLAN

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H209A
	SHEET	122A OF 199

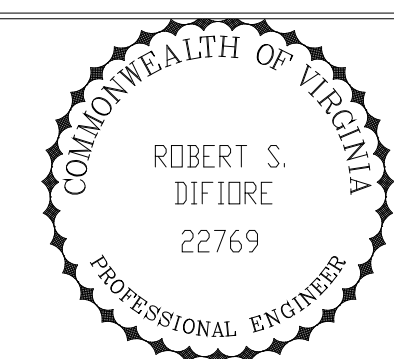
- NOTES:
- 1 FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING H-201
 - 2 FOR EQUIPMENT SCHEDULE, SEE DRAWING H-212 AND 213.
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 - 4 FOR PIPING SCHEMATIC AT EQUIPMENT, BUILDING ENTRY, AND DETAILS, SEE DRAWINGS H-214 AND H-215.
 - 5 FOR CONTINUATION OF PIPING AND DUCTWORK DOWN, SEE DRAWING H206



PLAN
1/4"=1'-0"

RECORD DRAWING

DESIGNED	HFB
DRAWN	WAM
CHECKED	
PROJ. ENGR.	AB/RNC
BY	J.J.B.
APPROVED	



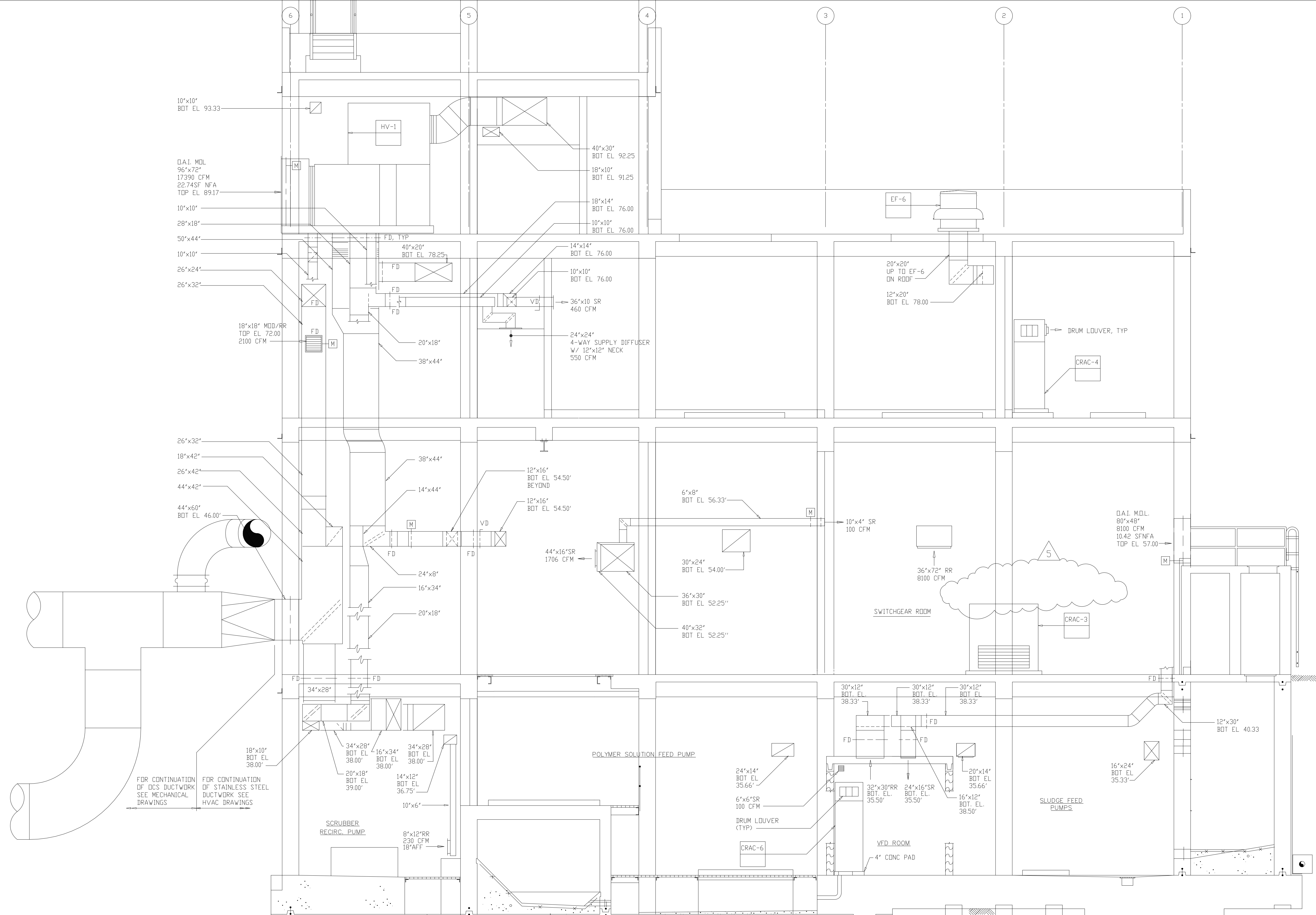
HAZENAND SAWYER
Environmental Engineers & Scientists
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
HVAC
PLAN AT ELEVATION 82.50
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H-209
	SHEET	122 OF 199

FILED: H:\2004\12\09 12:09 2004 FILED: H:\2004\12\09 12:09 2004 by: M115 SHG FILE: H06



FOR CONTINUATION OF DCS DUCTWORK SEE MECHANICAL DRAWINGS

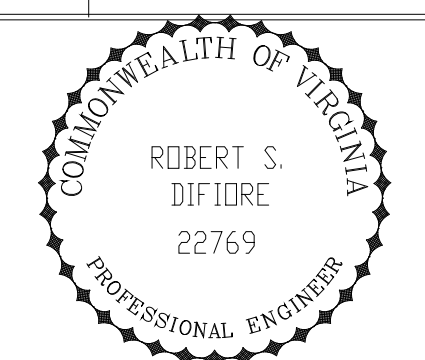
FOR CONTINUATION OF STAINLESS STEEL DUCTWORK SEE HVAC DRAWINGS

SECTION A
1/4"=1'-0" H202

RECORD DRAWING

9	RECORD DRAWING	4-99	MKS						
8	WP4,5,6,7 CONST.-LAND APP. REDES.	4-96	RSD						
7	WP6,7 APPROVAL-LAND APP. REDES.	3-96	RSD						
6	WP3 CONST.-LAND APP. REDES.	3-96	RSD						
5	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD						
4	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD						
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD						
2	CONSTRUCTION	9-94	JJB						
1	REGULATORY APPROVAL	9-94	JJB						
NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR

DESIGNED	HFB
DRAWN	WAM
CHECKED	
PROJ ENGR	AB/RNC
APPROVED	

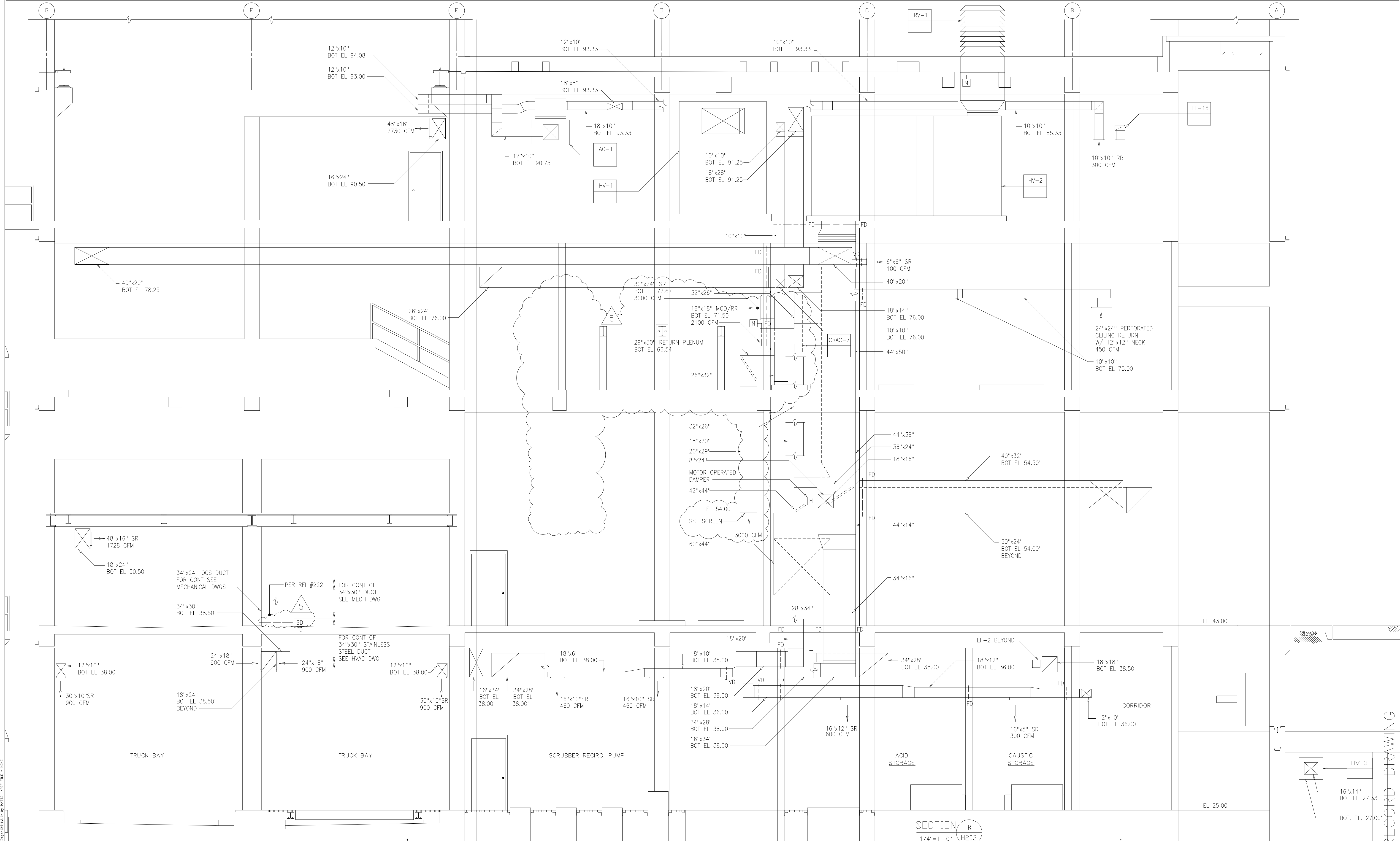


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

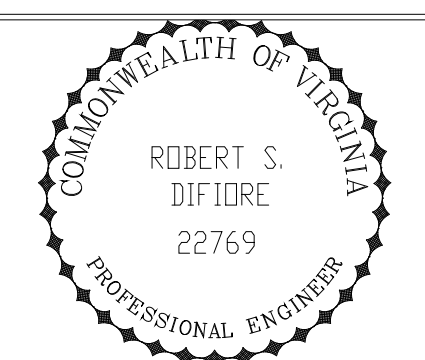
CENTRIFUGE DEWATERING BUILDING
HVAC
SECTION - SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H210
	SHEET	123 OF 199



9	RECORD DRAWING	4-99	MKS				
8	WP4,5,6,7 CONST.-LAND APP. REDES.	4-96	RSD				
7	WP6,7 APPROVAL-LAND APP. REDES.	3-96	RSD				
6	WP3 CONST.-LAND APP. REDES.	3-96	RSD				
5	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD				
4	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD				
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD				
2	CONSTRUCTION	9-94	JJB				
1	REGULATORY APPROVAL	9-94	JJB				
NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY

DESIGNED: HFB
 DRAWN: WAM
 CHECKED:
 PROJENGR: AB/RNC
 APPROVED:



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 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 HVAC
 SECTION - SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	H211
	SHEET	124 OF 199

RECORD DRAWING

HEATING AND VENTILATING UNIT SCHEDULE

UNIT No	LOCATION	AREA SERVED	MANUFACTURER & MODEL No	ARRANGEMENT	DISCHARGE	CFM	MIN OA CFM	EXT SP (IN WG)	TOTAL SP	SUPPLY FAN				MOTOR				FILTERS		HEATING COIL							NOTES					
										DIA IN	TYPE	RPM	BHP	RPM	ELEC	HP	MIN AREA (SF)	MAX PD CLN (IN WG)	TYPE	MODEL No.	ROWS	No COILS	SIZE	AIR				WATER				
																								MBH	EAT (F)	LAT (F)		PD (IN WG)	GPM	EWT (F)	LWT (F)	PD (FT. WG)
HV-1	HVAC ROOM EL 82.50	NON-ODOROUS	AIR ENTERPRISE SIZE 27	HORIZONTAL DRAW-THRU	FRONT	17,500	17,500	3.0	4.67	27	DWDI	1460	16.8	1800	460/3/60	20	40	.25	5B*	5WS0702B	2	1	39"x84"	907.64	14	62.13	0.27	95.5	180*	160*	6.30	1,2,3
HV-2	HVAC ROOM EL 82.50	ODOROUS	AIR ENTERPRISE SIZE 28	HORIZONTAL DRAW-THRU	BOTTOM	28,500	28,500	3.0	4.74	36	DWDI	1035	26.20	1800	460/3/60	30	64	.25	5B*	5WS0702B	2	2	33"x84"	1525.83	14	62.82	0.44	144	180*	160*	4.69	1,2,3
HV-3	GALLERY	GALLERY	AIR ENTERPRISE SIZE 10	HORIZONTAL DRAW-THRU	TOP HORIZONTAL	1350	1350	0.75	1.93	10	DWDI	2899	0.62	3600	460/3/60	1	3.0	.25	5B*	5WQ1201B	3	1	18"x18"	70.25	14	61.98	0.18	6.50	180*	160*	1.71	1,2,3
HV-4	HVAC ROOM EL 25.00	ODOROUS	AIR ENTERPRISE SIZE 15	VERTICAL DRAW-THRU	TOP	9,300	9,300	1.5	2.93	22	DWDI	1420	5.42	1800	460/3/60	7.5	20	.25	5B*	5WS1002B	2	1	30"x52.5"	555.5	14	70.29	0.42	53.5	180*	160*	2.63	1,2,3

NOTES: 1 DIRTY FILTER PRESS. DROP SHALL NOT EXCEED 0.3 INCH W.G. 2 WITH CORROSION RESISTANT CONSTRUCTION. 3 WITH INTERNAL FACE & BYPASS DAMPERS

GRAVITY ROOF VENTILATOR SCHEDULE

UNIT No	LOCATION	UNIT SERVED	SERVICE	MANUFACTURER & MODEL No	TYPE	CFM	HEIGHT (IN.)	ROOF OPENING (IN)	MAX. AIR P.D. (IN WG)	NOTES
1	ROOF	HV-2	SUPPLY	PENN VENTILATOR	LOUVERED PENN HOUSE	34, 215	54	100x52	0.1	1,2,3
2	ROOF	EF-13	SUPPLY	PENN VENTILATOR	LOUVERED PENN HOUSE	1000	12	12X16	0.1	1,2,3

NOTES: 1 WITH MOTOR OPERATED DAMPER. 2 WITH CORROSION RESISTANT CONSTRUCTION. 3 COMPLETE WITH PRE-FABRICATED ROOF CURB & DAMPER ACCESS SECTION.

CONTROL ROOM AIR CONDITIONER SCHEDULE

UNIT No	LOCATION	AREA SERVED	MANUFACTURER & MODEL No	TYPE	CAPACITY BTU/HR			FAN DATA			DX-COOLING COIL DATA				REHEAT		FILTER AREA S.F.	COMPRESSOR		ELECTRIC	NOTES
					TOTAL	SENSIBLE	NUMBER	CFM	H.P.	TYPE	FACE AREA S.F.	ROWS	VELOCITY F.P.M.	STAGES	K.W.	QTY.		KW			
																			A-FRAMES		
1	ELECTRICAL RM. EL. 25.00	ELECTRICAL RM.	LIEBERT-3UE-75A	I	74,400	62,700	2	3350	1.0	A-FRAMES	12.5	3	252	3	10	82.8	2	2.25	460/3/60	1,2,3,4	
2	POLYMER CNT. RM. EL. 25.00	POLYMER CONT. RM.	LIEBERT-DME-037E	II	32,300	26,500	1	1320	3/4	A-FRAMES	12.5	3	252	3	10	82.8	2	2.25	460/3/60	1	
3	SWITCHGEAR ROOM EL. 43	SWITCHGEAR ROOM	LIEBERT-3UE-114A	I	114,200	90,200	2	4650	1.5	A-FRAMES	14.2	3	313	3	15	82.8	2	3.73	460/3/60	1,2,3,4	
4	ELECTRICAL RM. EL. 66.00	ELECTRICAL RM.	LIEBERT-3UE-114A	I	114,200	90,200	2	4650	1.5	A-FRAMES	14.2	3	313	3	15	82.8	2	3.73	460/3/60	1,2,3,4	
5	CENTRIFUGE CONT. RM. EL. 82.50	CENTRIFUGE CNT. RM.	LIEBERT-3UE-75A	I	74,400	62,700	2	3350	1.0	A-FRAMES	12.5	3	252	3	10	82.8	2	2.25	460/3/60	1,2,3,4	
6	VFD ROOM EL. 25.00	VFD ROOM	LIEBERT-BU-067A	III	60,600	57,200	1	2800	1.5	FLAT	6.8	4	420	2	15	3.06	1	4.40	460/3/60	1,2,3,4	
7	DRY POLYMER HOPPER EL. 66.00	DRY POLYMER HOPPER	LIEBERT-BU-067A	III	60,600	57,200	1	2800	2.0	FLAT	6.8	4	420	2	15	3.06	1	4.40	460/3/60	1,4	

NOTES: 1 CAPACITY AT 75 DEGREES F D.B., 62.5 DEGREES F W.B. WITH 24" HIGH DISCHARGE PLENUM AND DRUM LOUVERS, FINISH TO MATCH WITH THE UNIT. 2 WITH RETURN AIR GRILLS MOUNTED ON FRONT OF UNIT. 3 UP FLOW TYPE. 4 REFRIGERATION R-22. 5 NOISE LEVEL NOT TO EXCEED 68 DB AT FIVE (5) FEET. 6 PIPE SIZES SHALL BE VERIFIED AND SIZED BY MFG.

AIR COOLED CONDENSER SCHEDULE (CRAC)

UNIT No	LOCATION	AREA SERVED	UNIT SERVED	MANUFACTURER & MODEL No	AMBIENT TEMP. (F)	SUCTION TEMP. (F)	HEAT REJECTION AT 25 (F) TEMP. DIFF. BTU/HR.	TOTAL CFM	CONDENSER FANS			REFRIGERANT CONNECTORS (IN)		ELEC.	NOTES	
									DIA. IN.	QTY.	HP EA.	#	HOT GAS			LIQUID
CRAC-1	ELECTRICAL RM. EL. 25.00	ELECTRICAL RM.	LIEBERT-DCDL-119	95	40	119,225	6155	26	2	1/4	2	7/8	5/8	460/3/60	5,6,7	
CRAC-2	POLYMER CNT. RM. EL. 25.00	POLYMER CNT. RM.	LIEBERT-DMC-037A	95	40	44,200	1400	26	1	1/5	1	1 1/8	5/8	480/3/60	5,7	
CRAC-3	SWITCHGEAR ROOM EL. 43	SWITCHGEAR ROOM	LIEBERT-DCDL-143	95	40	142,700	5735	26	2	1/4	2	1 1/8	7/8	460/3/60	5,6,7	
CRAC-4	ELECTRICAL ROOM EL. 66.00	ELECTRICAL ROOM	LIEBERT-DCDL-143	95	40	142,700	5735	26	2	1/4	2	1 1/8	7/8	460/3/60	5,6,7	
CRAC-5	CENTRIFUGE CNT. RM. EL. 82.50	CENTRIFUGE CNT. RM.	LIEBERT-DCDL-119	95	40	119,225	6155	26	2	1/4	2	7/8	5/8	460/3/60	5,6,7	
CRAC-6	VFD ROOM EL. 25.00	VFD ROOM	LIEBERT-DCST-119	95	40	119,225	6155	26	2	1/4	1	1 1/8	7/8	460/3/60	5,6,7	
CRAC-7	DRY POLYMER HOPPER EL. 66.00	DRY POLYMER HOPPER	LIEBERT-DCST-119	95	40	119,225	6155	26	2	1/4	1	1 1/8	7/8	460/3/60	5,6,7	

PER RFI #205

PER RFI #205

FAN SCHEDULE

FAN NO.	LOCATION	AREA SERVED	SERVICE	MANUFACTURER & MODEL No	TYPE	CFM	S.P. (IN WG)	WHEEL DIA. IN.	FAN RPM	MAX BHP	MOTOR				NOTES	FAN INTERLOCK SCHEDULE	
											HP	RPM	ELEC.	DRIVE		WITH	CONTROL
EF-1	ELECTRICAL ROOM EL. 25.00	ELECTRICAL ROOM	EMER. EXH.	INDUSTRIAL AIR-022-015-700	INLINE AXIAL	3300	1.0	15	2251	1.30	1 1/2	1750	460/3/60	BELT	2,3,5	HOA & TH	
EF-2	CAUSTIC STORAGE RM.	EL. 25.00	EXH.	INDUSTRIAL AIR-022-015-700	INLINE AXIAL	2220	.750	15	1664	.51	3/4	1750	460/3/60	BELT	2,3,5	HOA & HV-1	
EF-3	SWITCHGEAR ROOM EL. 43	SWITCHGEAR ROOM	EMER. EXH.	INDUSTRIAL AIR-022-027-700	INLINE AXIAL	8100	.750	27	993	2.10	3	1750	460/3/60	BELT	2,3,5	M.O.L. HOA & TH	
EF-4	TOILET EL. 43.00	TOILET	EXH.	PENN-ZEPHYR-RA-27L	INLINE CAB.	150	.250	-	1525	-	1/25	1525	115/1/60	DIRECT	2,3,4,7	- LIGHT-SWITCH	
EF-5	ELECTRICAL ROOM EL. 66.00	ELECTRICAL ROOM	EMER. EXH.	INDUSTRIAL AIR-022-027-700	INLINE AXIAL	6500	.500	27	802	1.11	1 1/2	1750	460/3/60	BELT	2,3,5	M.O.L. HOA & TH	
EF-6	PT. SOURCE SCRUBBER RM. EL. 66	PT. SOURCE SCRUB. ROOM	EXH.	PENN-FUMEX-14B	ROOF CENTR.	1650	.300	14	890	-	1/3	1750	460/3/60	BELT	1,2,6	HV-1 HOA & HV-1	
EF-7	ROOF	CENTRIFUGE ROOM	EXH.	PENN-FUMEX-FX-30B	ROOF CENTER	6500	.375	30	515	.905	1 1/2	1725	460/3/60	BELT	1,2,6	HV-1 HOA & HV-1	
EF-8	TOILET - EL. 82.50	TOILET	EXH.	PENN-ZEPHYR-RA-25L	INLINE CAB.	75	.250	-	1342	-	1/250	1342	115/1/60	DIRECT	2,3,4,7	AC-1 -	
EF-9	COMPRESSOR ROOM EL. 66.00	COMPRESSOR ROOM	EMER. EXH.	INDUSTRIAL AIR-022-027-700	INLINE AXIAL	7100	.500	27	847	1.31	1 1/2	1750	460/3/60	BELT	2,3,5	M.O.L. HOA & TH	
EF-10	SLUDGE PUMP ROOM EL. 25.00	VFD ROOM	EMER. EXH.	INDUSTRIAL AIR-022-012-700	INLINE AXIAL	2300	1 1/2	12	3192	1.21	1 1/2	1750	460/3/60	BELT	2,3,5	M.O.L. HOA & TH	
EF-11	GALLERY	GALLERY	EXH.	INDUSTRIAL AIR-022-012-700	INLINE AXIAL	1300	.500	12	1819	.22	1/2	1750	460/3/60	BELT	2,3,5	M.O.L. HOA & HV-3	
EF-12	ROOF	CENTRIFUGE ROOM	EXH.	PENN-FUMEX-FX-30B	ROOF CENTER	6500	.375	30	515	.905	1 1/2	1725	460/3/60	BELT	1,2,6	M.O.L. HOA & HV-1	
EF-13	ROOF	CENTRIFUGE CNT. RM.	EXH.	PENN-FUMEX-FX-10B	ROOF CENTER	1000	.375	13	1010	.183	1/4	1750	115/1/60	BELT	1,2,6	M.O.D. START-STOP	
EF-14	ROOF	ELEVATOR MACHINE ROOM	EMER. EXH.	PENN-FUMEX-FX-13B	ROOF CENTER	2100	.375	13	1358	.457	3/4	1750	460/3/60	BELT	1,2,6	M.O.L. HOA & TH	
EF-15	JANITOR CLOSET EL. 43.00	JANITOR CLOSET	EXH.	PENN-ZEPHYR-RA-25L	INLINE CAB.	75	.250	-	1342	-	1/250	1342	115/1/60	DIRECT	2,3,4,7	- LIGHT-SWITCH	
EF-16	JANITOR CLOSET - EL. 82.50	JANITOR CLOSET	EXH.	PENN-ZEPHYR-RA-25L	INLINE CAB.	75	.250	-	1342	-	1/250	1342	115/1/60	DIRECT	2,3,4,7	- LIGHT-SWITCH	
SF-17	BOILER ROOM EL. 43.00	BOILER ROOM	SUPPLY	AIR ENTERPRISE SIZE 18	SUPPLY CAB.	6200	1.0	18	1384	1.77	3	1800	460/3/60	BELT	2,3,8	M.O.L. HOA-TH-BOILER	
EF-18	LIME TRANSFER BLOWER RM EL. 66	LIME TRANSFER BLOWER RM	EXH.	INDUSTRIAL AIR-022-015-700	INLINE AXIAL	3300	.5	15	2251	1.30	1 1/2	1750	460/3/60	BELT	2,3,5	M.O.L. HOA & TH	
EF-19	LIME STORAGE AREA EL. 66.00	LIME STORAGE AREA	EXH.	INDUSTRIAL AIR-022-015-700	INLINE AXIAL	3300	.5	15	2251	1.30	1 1/2	1750	460/3/60	BELT	2,3,5	M.O.L. HOA & TH	

NOTES: 1 WITH MOTOR OPERATED DAMPER. 2 WITH CORROSION RESISTANT COATINGS. 3 WITH HANGERS & VIBRATION ISOLATORS. 4 WITH SOLID STATE SPEED CONTROL. 5 WITH COMPANION FLANGES, INLET BELL WITH SCREEN WERE REQ'D & MOUNTING FEET. 6 COMPLETE WITH PRE-FABRICATED ROOF CURB & DAMPER ACCESS SECTION. 7 PROVIDE CEILING GRILLE. 8 WITH MEDIUM CAPACITY FILTER MIXING BOX W/RETURN & MODULATING MOTORIZED DAMPERS.

CONVECTOR SCHEDULE

UNIT No	LOCATION	MANUFACTURER & MODEL No	TYPE	MBH	WATER				ENCLOSURE			NOTES
					GPM	ENT. (F)	LVG (F)	MAX PD (FT)	HEIGHT (IN.)	DEPTH (IN.)	LENGTH (IN.)	
C-1	STAIRS 101	TRANE	SFG	4.4	0.45	180*	160*	.059	16 <td>6 <td>50</td> <td>1</td> </td>	6 <td>50</td> <td>1</td>	50	1
C-2	STAIRS 108	TRANE	SFG	4.9	0.51	180*	160*	.063	16 <td>6</td> <td>56</td> <td>1</td>	6	56	1
C-3	STAIRS 201 EL. 43	TRANE	SFG	8.7	0.9	180*	160*	.165	38	8	68	1
C-4	TOILET 207 EL. 43	TRANE	SFG	4.7	0.49	180*	160*	.063	16 <td>6</td> <td>56</td> <td>1</td>	6	56	1
C-5	STAIRS 210 EL. 43	TRANE	SFG	8.2	0.85	180*	160*	.158	38	8	62	1
C-6	STAIRS 301 EL. 66	TRANE	SFG	6.0	0.62	180*	160*	.151	20	8	56	1
C-7	STAIRS 306 EL. 66	TRANE	SFG	4.4	0.45	180*	160*	.059	16 <td>6</td> <td>50</td> <td>1</td>	6	50	1
C-8	STAIRS 401	TRANE	SFG	6.0	0.62	180*	160*	.151	20	8	56	1
C-9	TOILET 409	TRANE	SFG	4.4	0.45	180*	160*	.059	16 <td>6</td> <td>50</td> <td>1</td>	6	50	1
C-10	JANITORS CLOSET 411	TRANE	SFG	8.8	0.91	180*	160*	.165	38 <td>8</td> <td>68</td> <td>1</td>	8	68	1
C-11	STAIRS 403	TRANE	SFG	8.2	0.85	180*	160*					

AIR CONDITIONING UNIT SCHEDULE

UNIT No	LOCATION	AREA SERVED	MANUFACTURER & MODEL No	ARRANGEMENT	DISCHARGE	CFM	MIN DA CFM	EXT SP (IN WG)	TOTAL SP	SUPPLY FAN			MOTOR			FILTERS		HEATING COIL								COOLING COIL					NOTES									
										DIA. IN.	TYPE	RPM	BHP	RPM	ELEC	HP	MIN AREA (SQF)	MAX PD CLN (IN WG)	TYPE	MODEL No.	RDWS	SIZE	AIR				WATER					TYPE	MODEL No.	RDWS	SIZE	AIR				
																							MBH	EAT (F)	LAT (F)	PD (IN WG)	GPM	EWT (F)	LWT (F)	PD (FT. WG)						MBH	ENT DB	ENT WB	LVG DB	LVG WB
AC-1	HVAC ROOM EL. 66.00 & 82.50	EL. 66.00 & 82.50	AIR ENTERPRIZE SIZE 10	HORIZONTAL DRAW-THRU	TOP HORIZONTAL	1800	300	1.50	2.59	10	DWDI	3180	0.990	3600	460/3PH	2.0	4.4	0.25	5*	5WQ0701B	1	18"x32"	54.71	59.30	86.92	0.10	5.0	180	160	1.20	5*	5ENI305B	5	18"x32"	61.30	80.90	67.40	56.99	56.76	1,2,3,4,5

- NOTES:
- TOTAL STATIC PRESSURE INCLUDES 0.3 INCH W.G. FOR DIRTY FILTER.
 - WITH CORROSION RESISTANT COATING.
 - WITH RETURN AND OUTSIDE AIR MODULATING MOTORIZED DAMPERS.
 - WITH MEDIUM CAPACITY FILTER MIXING BOX.
 - WITH 3-WAY MIXING VALVE.

PUMP SCHEDULE

PUMP No	LOCATION	EQUIPMENT SERVED	SERVICE	MANUFACTURER & MODEL No	TYPE	GPM	HEAD (FT)	MIN EFF (%)	MAX BHP	IN-LET (IN)	OUT LET (IN)	MOTOR			NOTES
												HP	RPM	ELEC.	
P-1	BOILER ROOM EL. 43	BOILER	HOT WATER	BELL & GOSSETT-1510-4E	END SUCTION	475	85	70	-	5	4	20	1750	460/3/60	-
P-2	BOILER ROOM EL. 43	BOILER	HOT WATER	BELL & GOSSETT-1510-4E	END SUCTION	475	85	70	-	5	4	20	1750	460/3/60	1
P-3															NOT USED
P-4	HVAC ROOM	AC-1	HOT WATER	B&G-SERIES PR-1	BOOSTER	5	12	-	-	1	1	1/6	1750	115/1/60	-

- NOTE:
- STAND-BY

AIR COOLED CONDENSER SCHEDULE

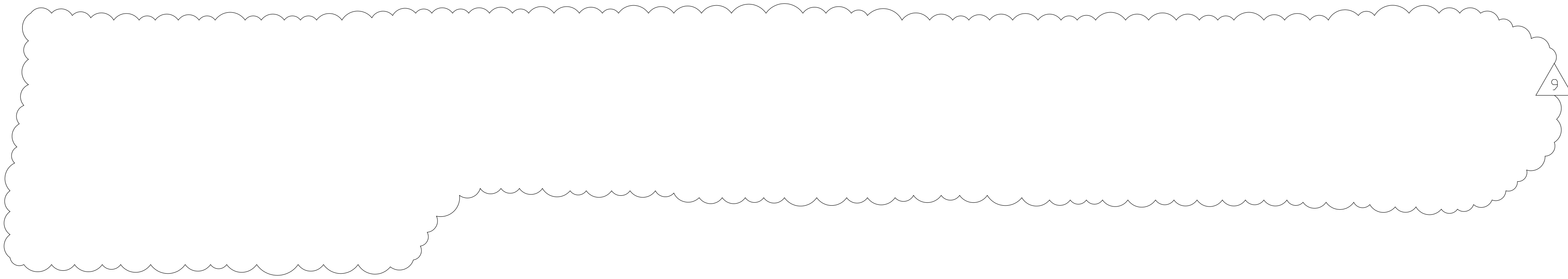
UNIT No	LOCATION	AREA SERVED	UNIT SERVED	MANUFACTURER & MODEL No	AMBIENT TEMP. (F)	SUCTION TEMP. (F)	HEAT REJECTION AT 25 (F) TEMP. DIFF. BTU/HR.	TOTAL CFM	COMPRESSOR			CONDENSER FANS			REFRIGERANT CONNECTORS (IN)		ELEC.	NOTES
									HP	DIA. IN.	QTY.	HP	EA.	#	HOT GAS	LIQUID		
6	ROOF	EL. 66.00 & 82.50	AC-1	TECHNICAL SYSTEMS CORP. 2000-FS-5	95	45	64,800	5100	5	24	1	7/8	1	1-1/8	1/2	460/3/60	1,2,3,4	

- NOTES:
- REFRIGERATION R-22.
 - FOR AIR CONDITIONER, SEE SEPARATE SCHEDULE.
 - PROVIDE EPOXY COATINGS.
 - PIPE SIZES SHALL BE VERIFIED AND SIZED BY MFG.

BOILER SCHEDULE

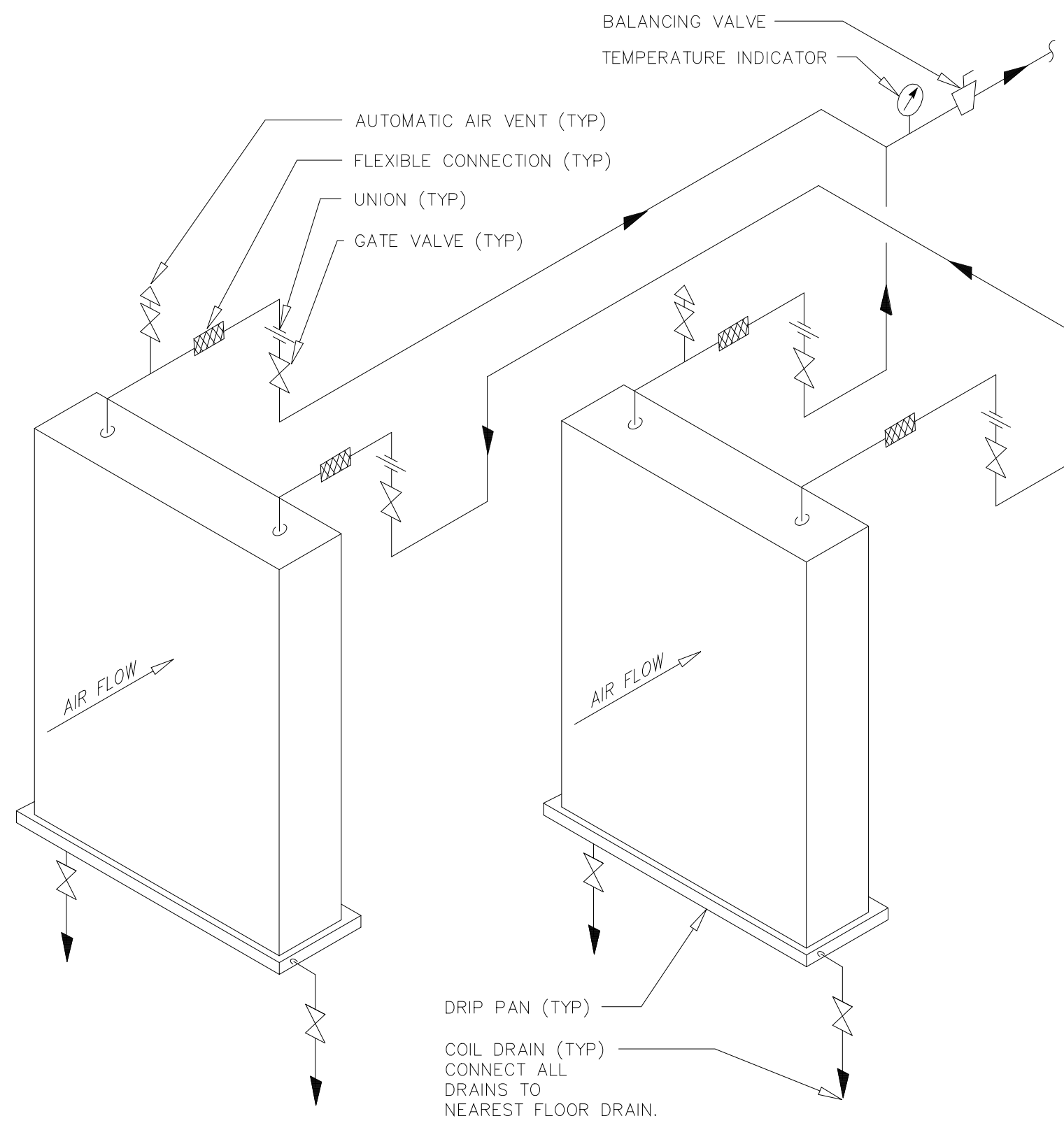
UNIT No	LOCATION	MANUFACTURER & MODEL No	S.B.I. GROSS OUTPUT (EDR)	S.B.I. NET OUTPUT (MBH)	OPERATING PRESSURE PSIG	WORKING PRESSURE RATING OF BOILER (PSIG)	FIRING RATE *(CFH)	HEATING SURFACE WATERSIDE (SF)	HEATING SURFACE FIRESIDE (SF)	FURNACE VOLUME MINIMUM (CF)	MAXIMUM HEAT RELEASE (BTU/CF)	FORCED DRAFT FAN MOTOR					BOILER TYPE	DESIGN WATER TEMP. *F	NOTES
												CFM.	S.P.	HP.	VOLTS	PHASE			
HWB-1	BOILER ROOM	CLEAVER BROOKS CB150LE	-	5,021	40	125	6,280	820	750	33.2	162,000	-	-	10	460	3	FIRE TUBE	180	1, 2

- NOTES:
- WITH LOW EMISSION OPTION.
 - *BASED ON 1000 BTU/CF - NATURAL GAS.

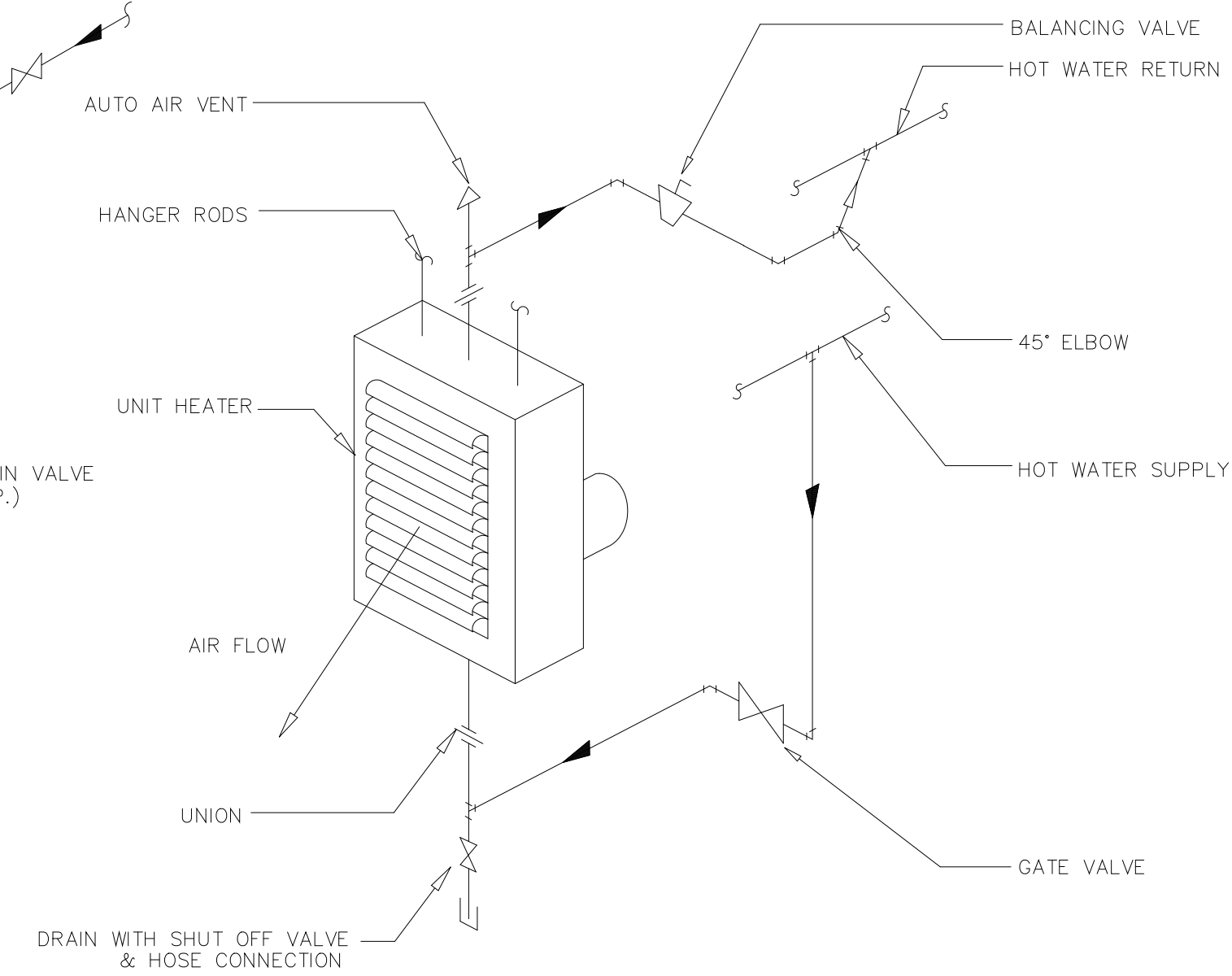


RECORD DRAWING

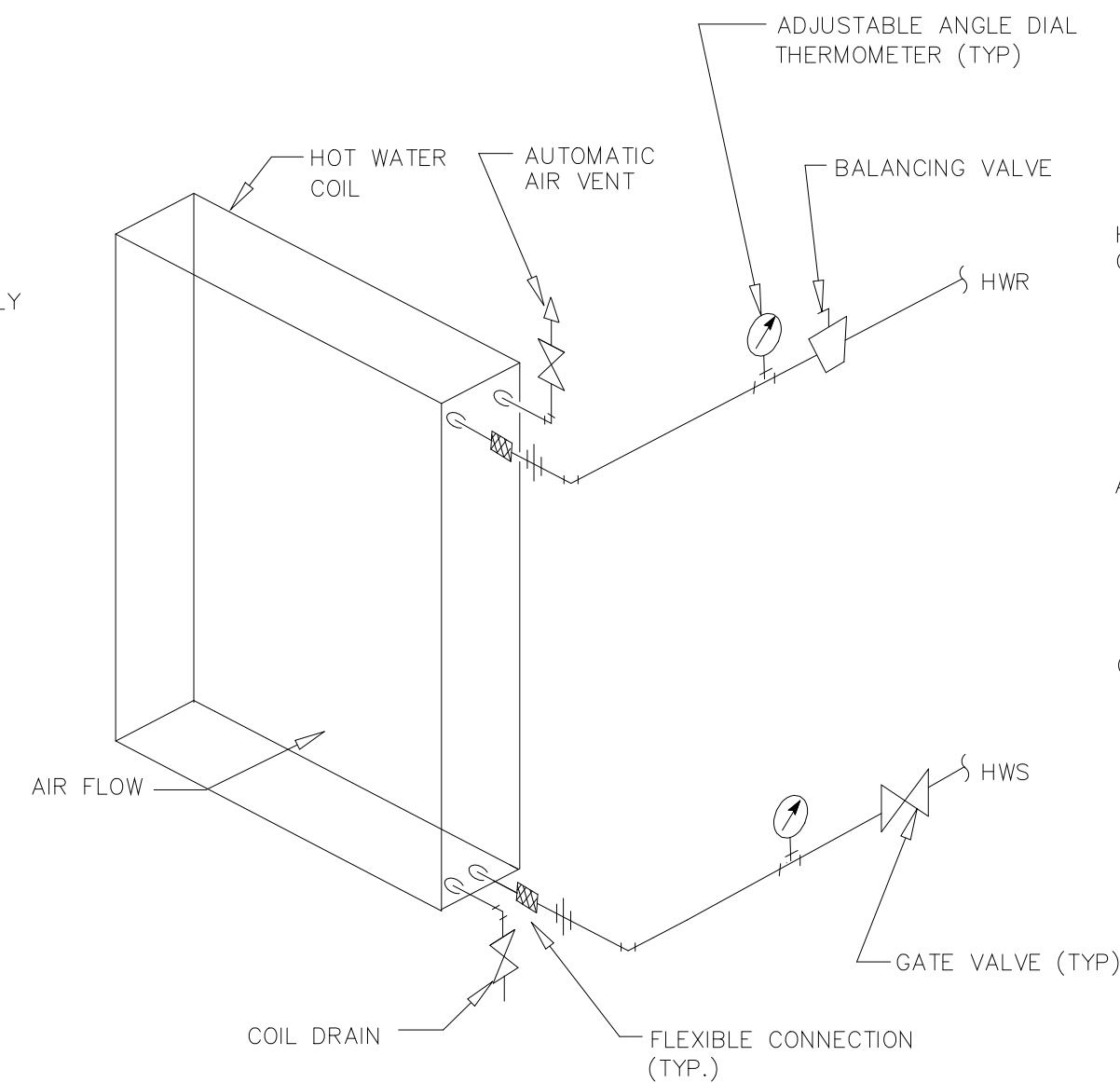
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10%;">9</td><td style="width: 50%;">RECORD DRAWING</td><td style="width: 10%;">4-99</td><td style="width: 10%;">MKS</td><td style="width: 10%;"></td><td style="width: 5%;"></td></tr> <tr><td>8</td><td>WP4.5.6/7 CONST.-LAND APP. REDES.</td><td>4-96</td><td>RSD</td><td></td><td></td></tr> <tr><td>7</td><td>WP6/7 APPROVAL-LAND APP. REDES.</td><td>3-96</td><td>RSD</td><td></td><td></td></tr> <tr><td>6</td><td>WP3 CONST.-LAND APP. REDES.</td><td>3-96</td><td>RSD</td><td></td><td></td></tr> <tr><td>5</td><td>WP5 APPROVAL-LAND APP. REDES.</td><td>2-96</td><td>RSD</td><td></td><td></td></tr> <tr><td>4</td><td>WP4 APPROVAL-LAND APP. REDES.</td><td>1-96</td><td>RSD</td><td></td><td></td></tr> <tr><td>3</td><td>WP3 APPROVAL-LAND APP. REDES.</td><td>9-94</td><td>RSD</td><td></td><td></td></tr> <tr><td>2</td><td>CONSTRUCTION</td><td>9-94</td><td>JJB</td><td></td><td></td></tr> <tr><td>1</td><td>REGULATORY APPROVAL</td><td>9-94</td><td>JJB</td><td></td><td></td></tr> <tr><td>NO.</td><td>ISSUED FOR</td><td>DATE</td><td>BY</td><td>NO.</td><td>ISSUED FOR</td><td>DATE</td><td>BY</td></tr> </table>	9	RECORD DRAWING	4-99	MKS			8	WP4.5.6/7 CONST.-LAND APP. REDES.	4-96	RSD			7	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD			6	WP3 CONST.-LAND APP. REDES.	3-96	RSD			5	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD			4	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD			3	WP3 APPROVAL-LAND APP. REDES.	9-94	RSD			2	CONSTRUCTION	9-94	JJB			1	REGULATORY APPROVAL	9-94	JJB			NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	<p>DESIGNED _____ HFB DRAWN _____ WAM CHECKED _____ PROJ. ENGR. _____ AB/RNC APPROVED _____</p>		<p>HAZENAND SAWYER Environmental Engineers & Scientists RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA</p>	<p>ARLINGTON COUNTY WATER POLLUTION CONTROL PLANT UPGRADE AND EXPANSION - PHASE III A SOLIDS PROCESSING FACILITIES</p>	<p>CENTRIFUGE DEWATERING BUILDING HVAC EQUIPMENT SCHEDULES SHEET 2</p>	<p>THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.</p>	<p>DATE SEPT 94 H & S JOB NUMBER 2843 CONTRACT NUMBER 93-02-WPC DRAWING NUMBER H213 SHEET 126 OF 199</p>
9	RECORD DRAWING	4-99	MKS																																																																		
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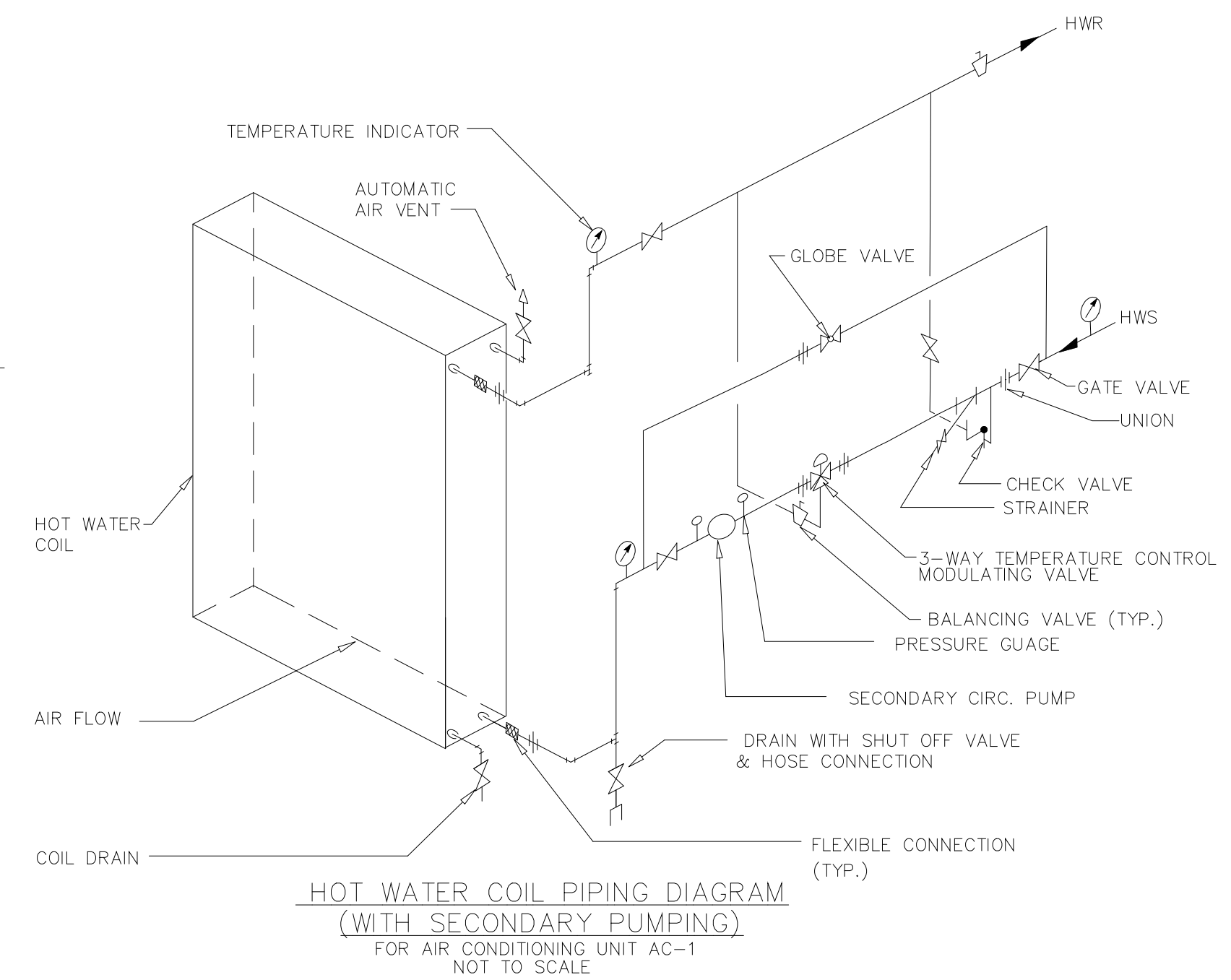
DUAL HOT WATER COIL PIPING DIAGRAM
FOR HEATING & VENTILATING UNIT, HV-2
(NOT TO SCALE)



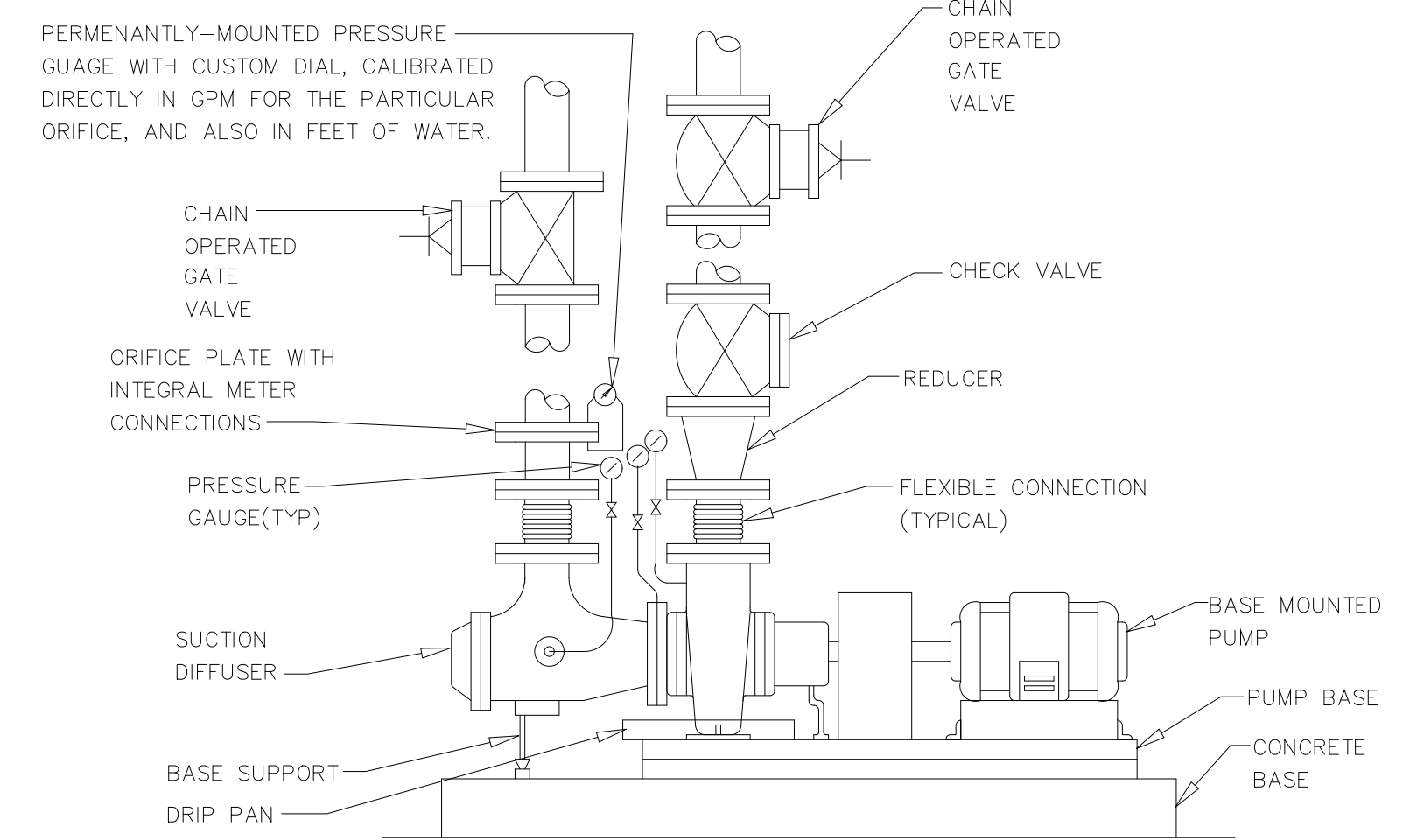
UNIT HEATER HOT WATER PIPING DIAGRAM
(NOT TO SCALE)



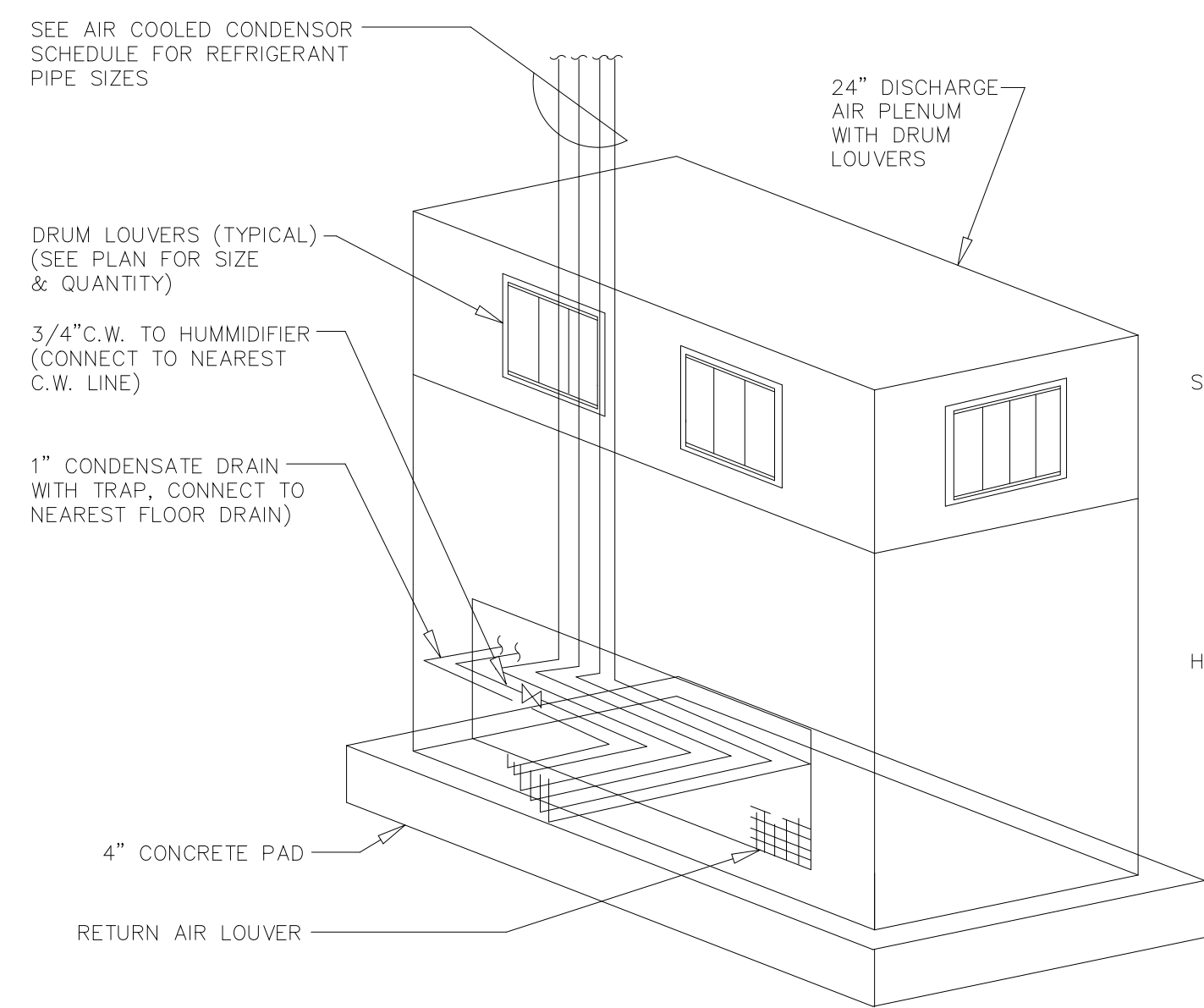
HOT WATER COIL PIPING DIAGRAM
FOR HEATING & VENTILATING UNIT - HV-1, 3
(NOT TO SCALE)



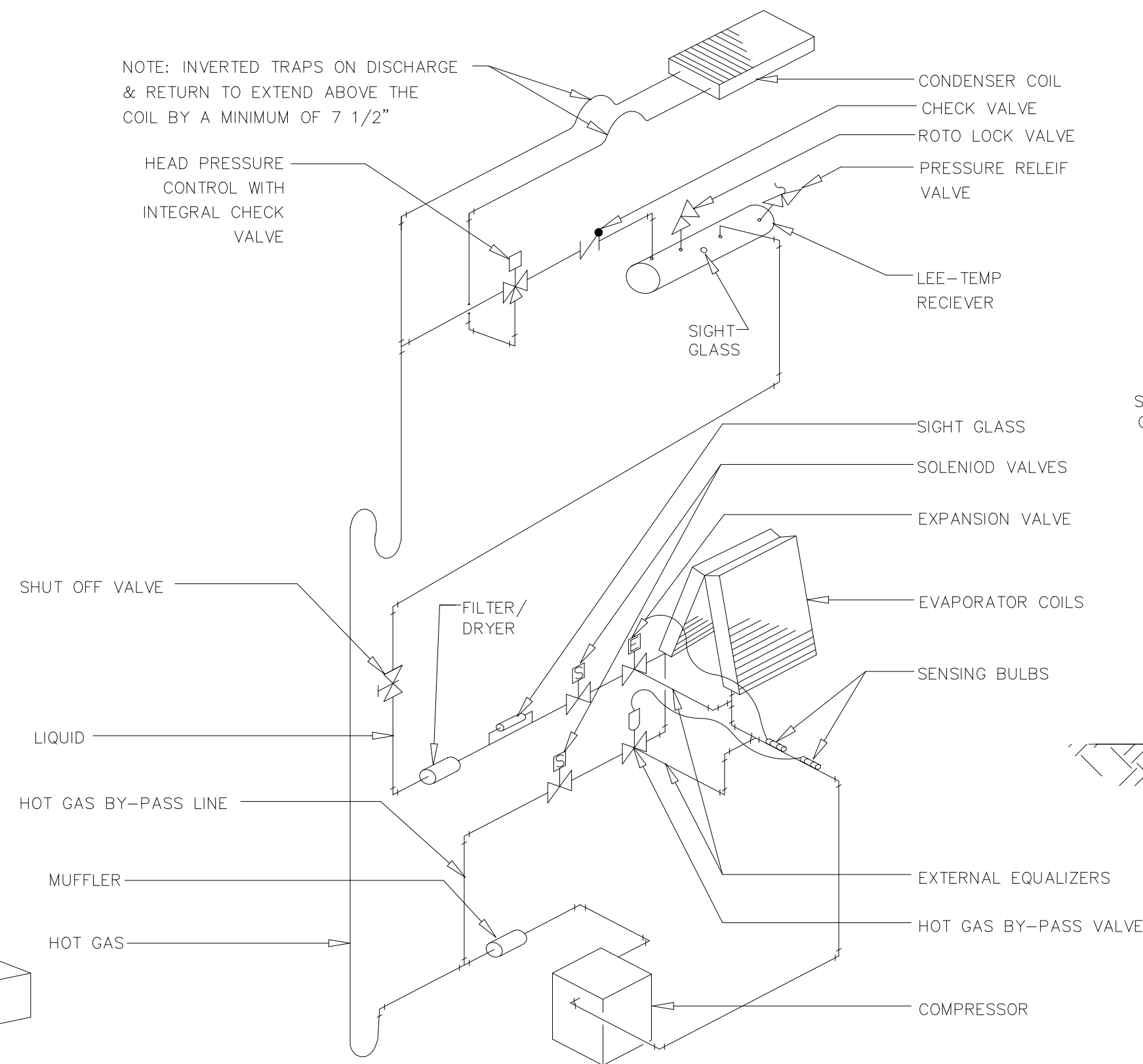
HOT WATER COIL PIPING DIAGRAM
(WITH SECONDARY PUMPING)
FOR AIR CONDITIONING UNIT AC-1
(NOT TO SCALE)



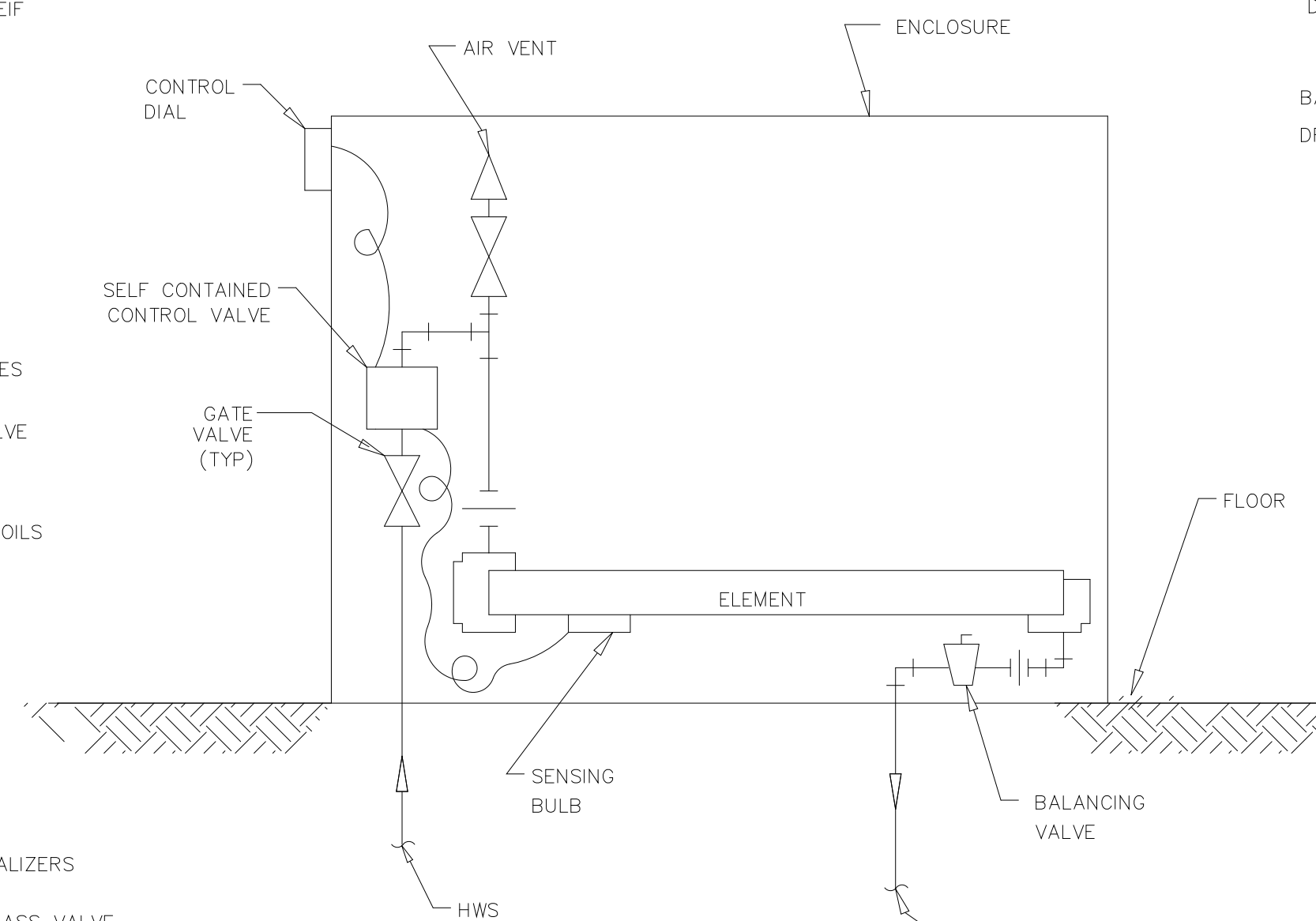
END SUCTION BASE MOUNTED PUMP DETAIL
(NOT TO SCALE)
NOTE: MOUNT GATE VALVES MIN. 8'-0" AFF



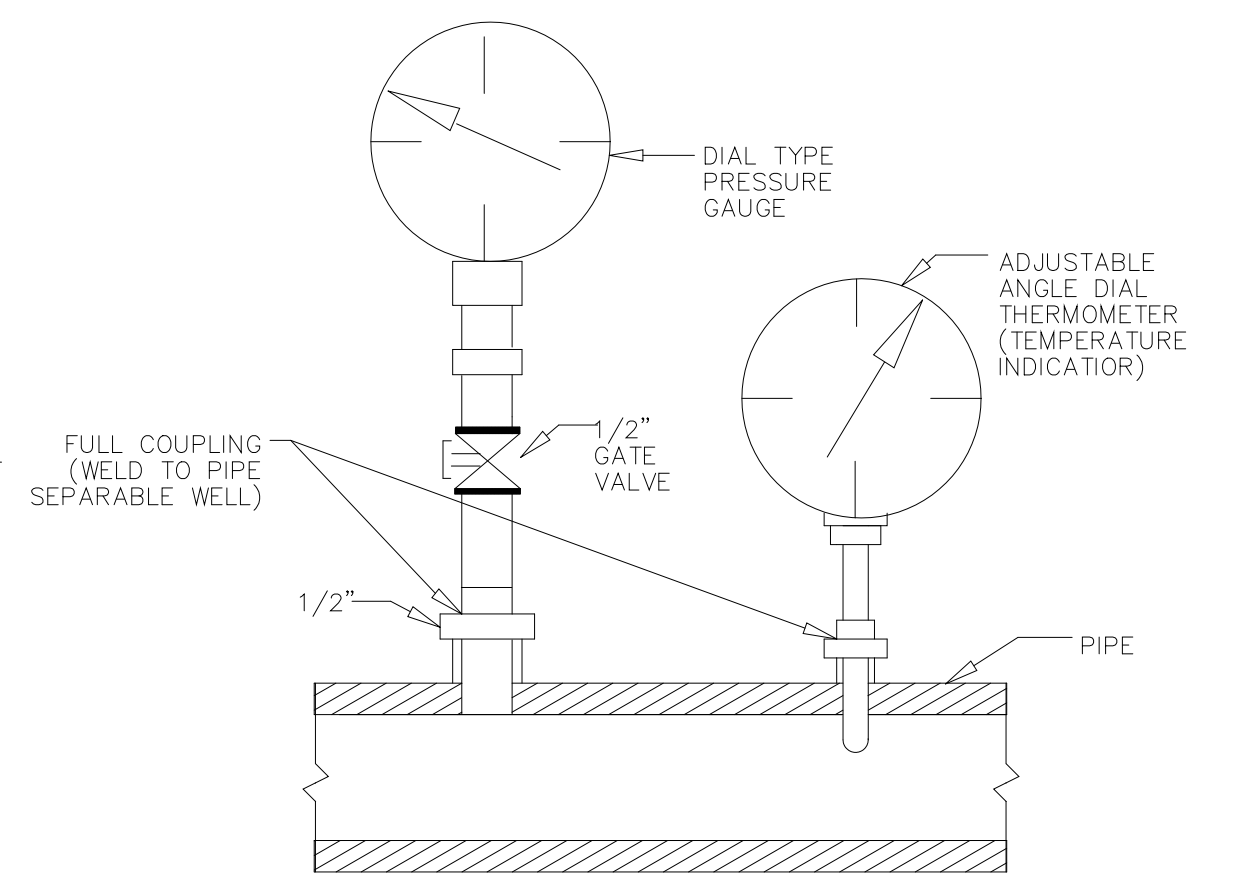
PIPING SCHEMATIC FOR CONTROL ROOM AIR CONDITIONING UNIT
(NOT TO SCALE)



REFRIGERANT PIPING DETAIL - UNIT IS DUAL CIRCUIT - SINGLE CIRCUIT SHOWN
(NOT TO SCALE)



CONVECTOR PIPING SCHEMATIC
(NOT TO SCALE)



TYPICAL PRESSURE AND TEMPERATURE GAUGE INSTALLATION
(NOT TO SCALE)
RECORD DRAWING

PLOT DATE 04/10/02 3:29pm FILE: H:\DRAFTING\193-H214.dwg BY: MATHS

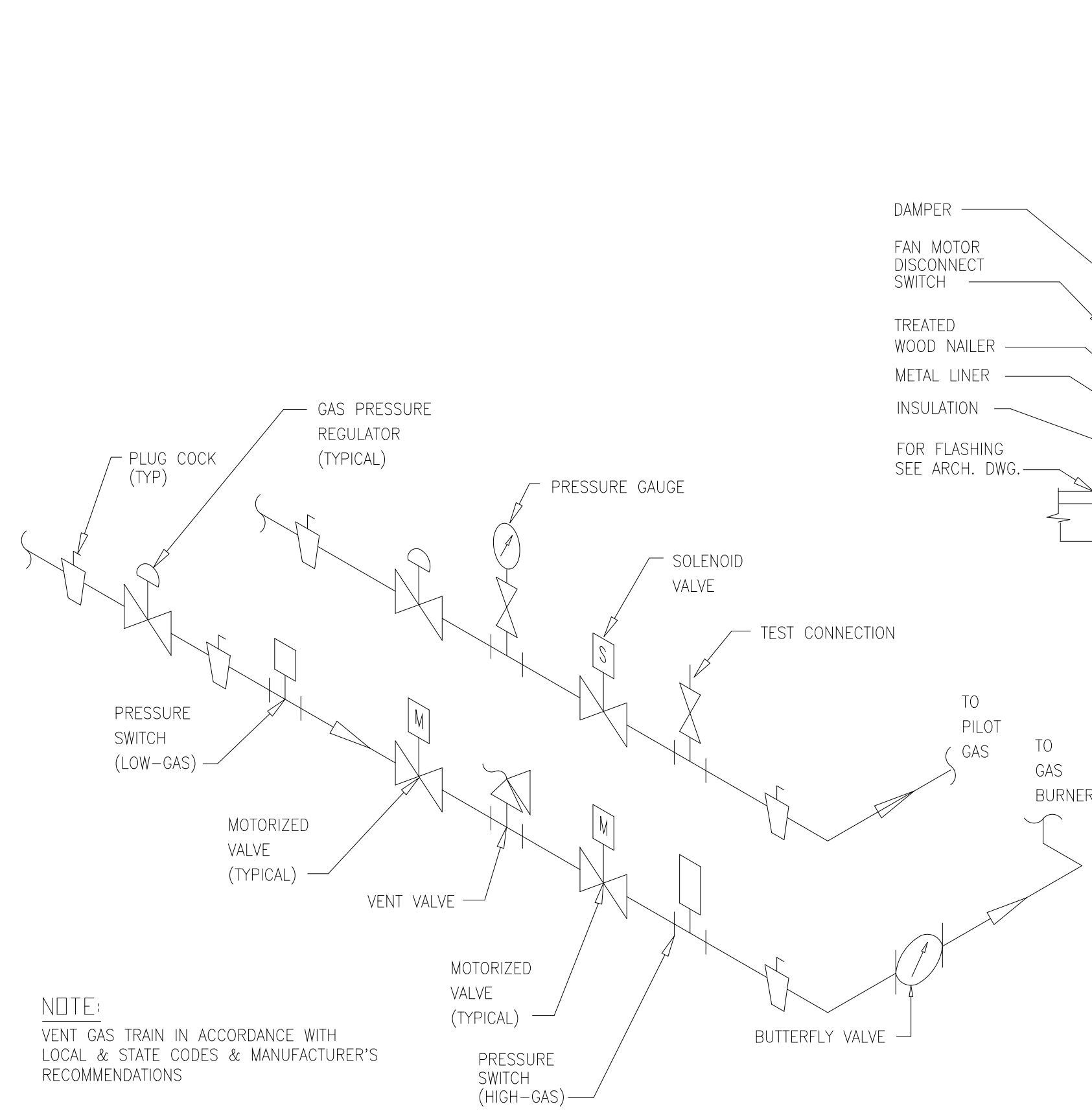
DESIGNED	JR			
DRAWN	RS			
CHECKED	DB			
PROJ. ENGR.	DB			
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	J.J.B.
NO.	ISSUED FOR	DATE	BY	APPROVED

HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

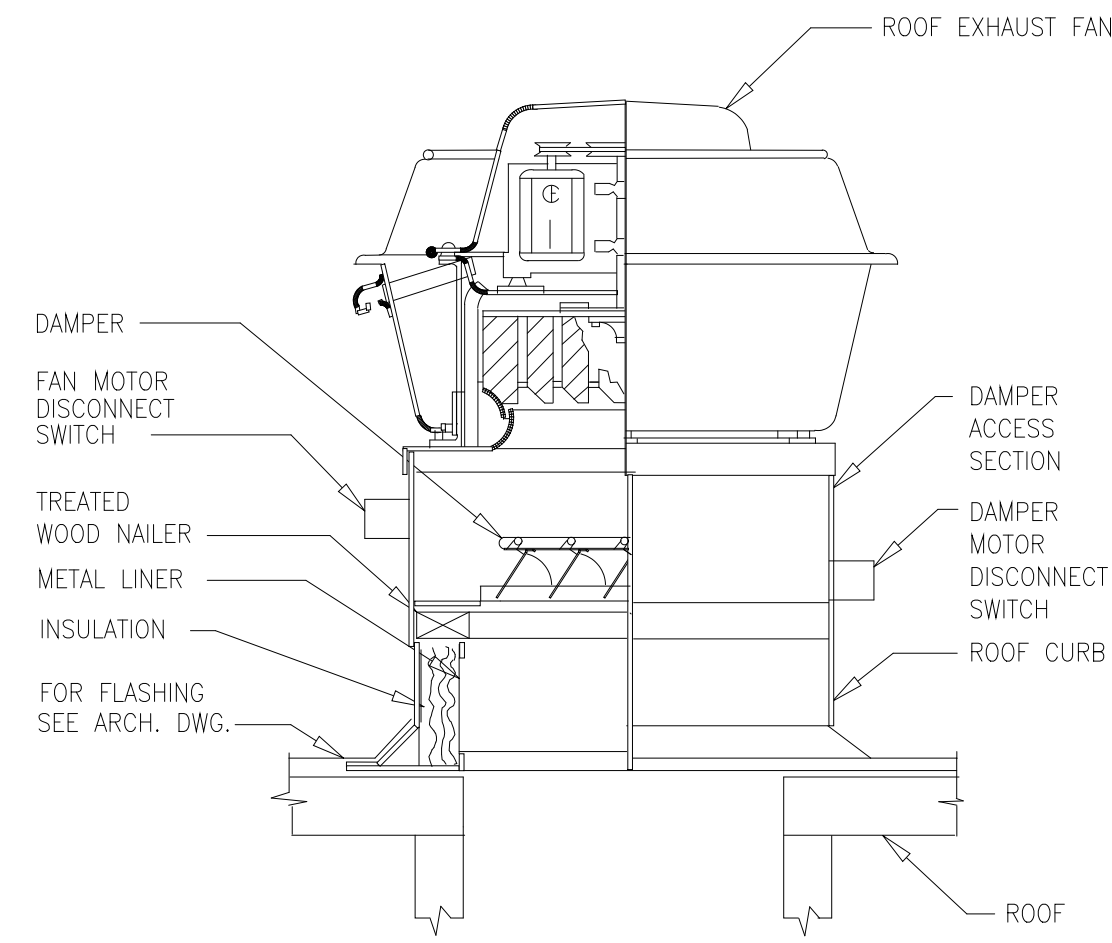
CENTRIFUGE DEWATERING BUILDING
HVAC
DETAILS & SCHEMATICS
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC	DRAWING NUMBER H214
	SHEET 127 OF 199	

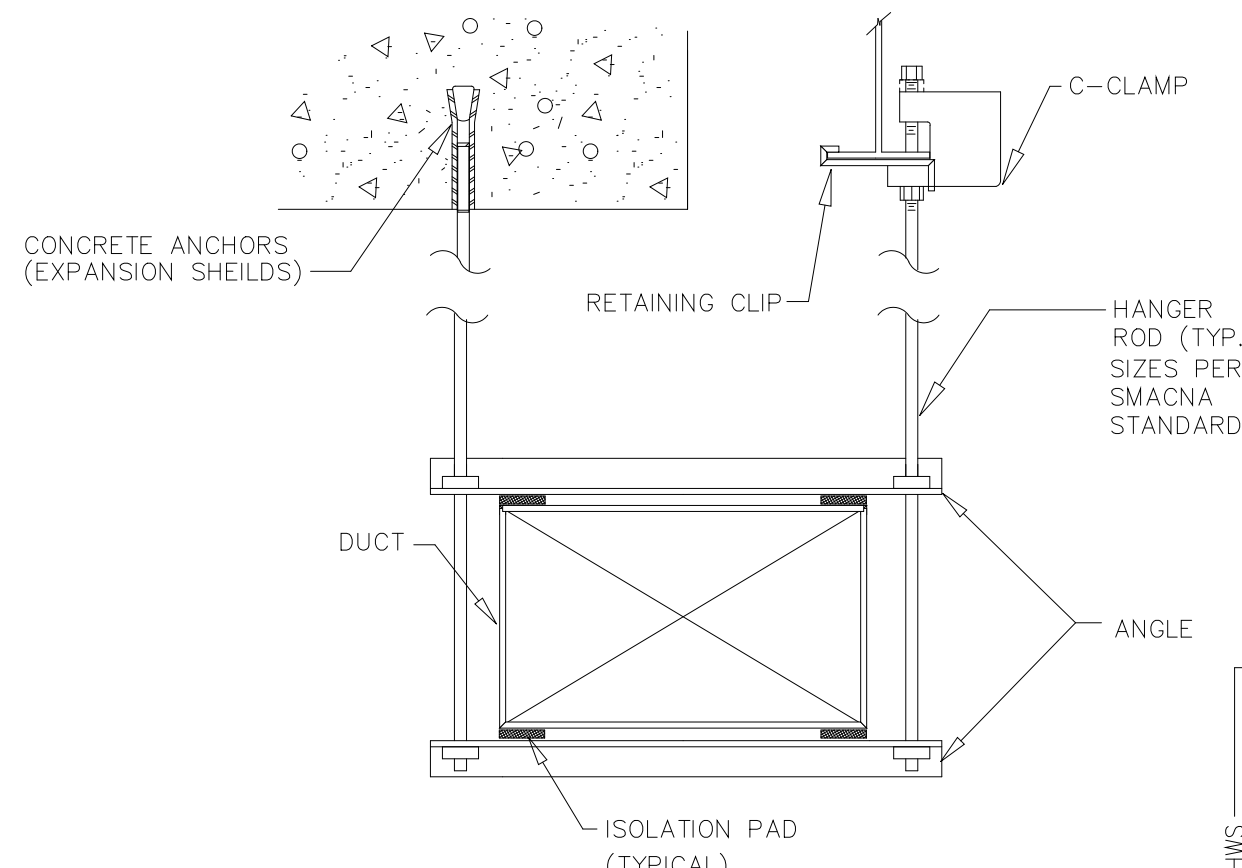


GAS TRAIN DETAIL
NTS

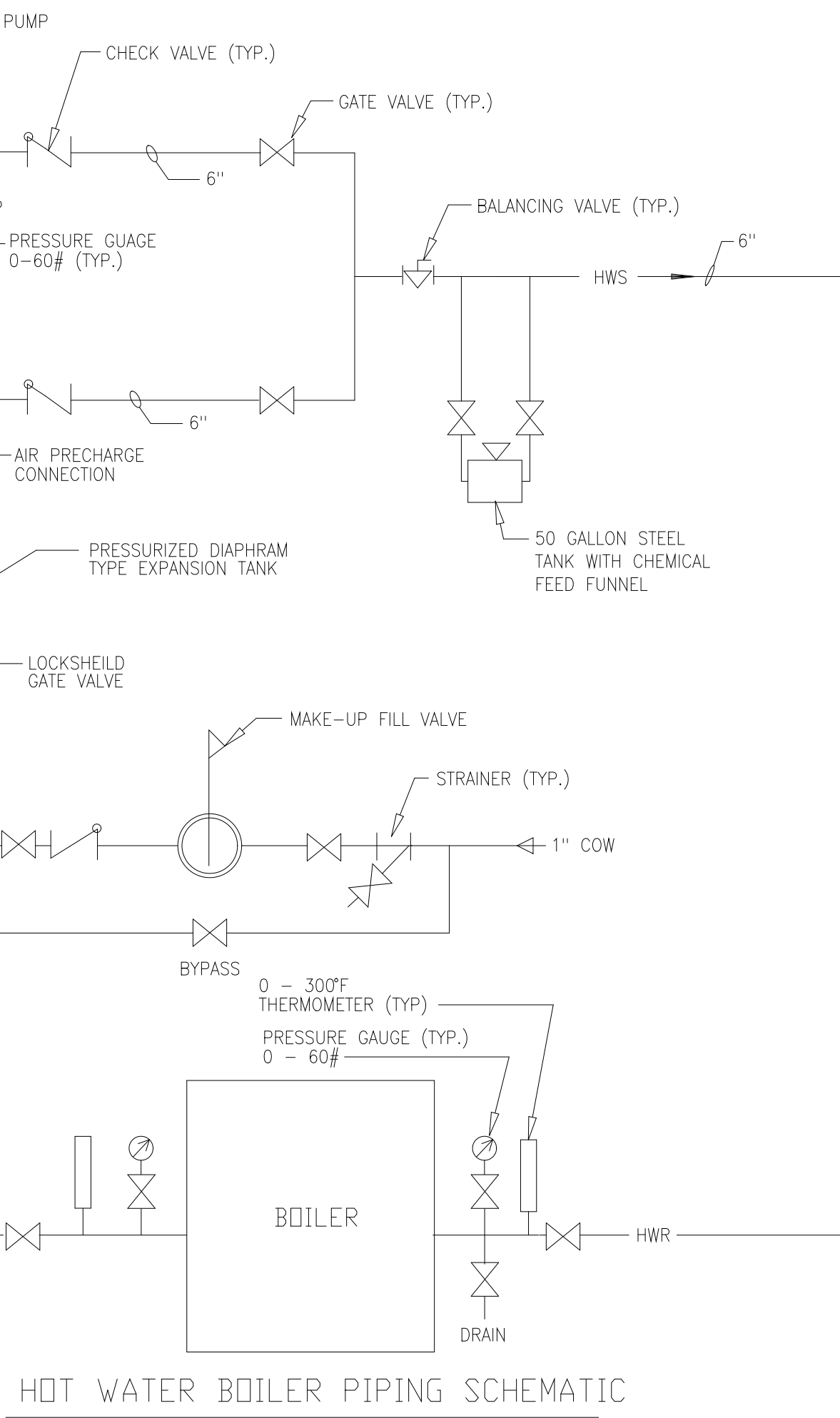
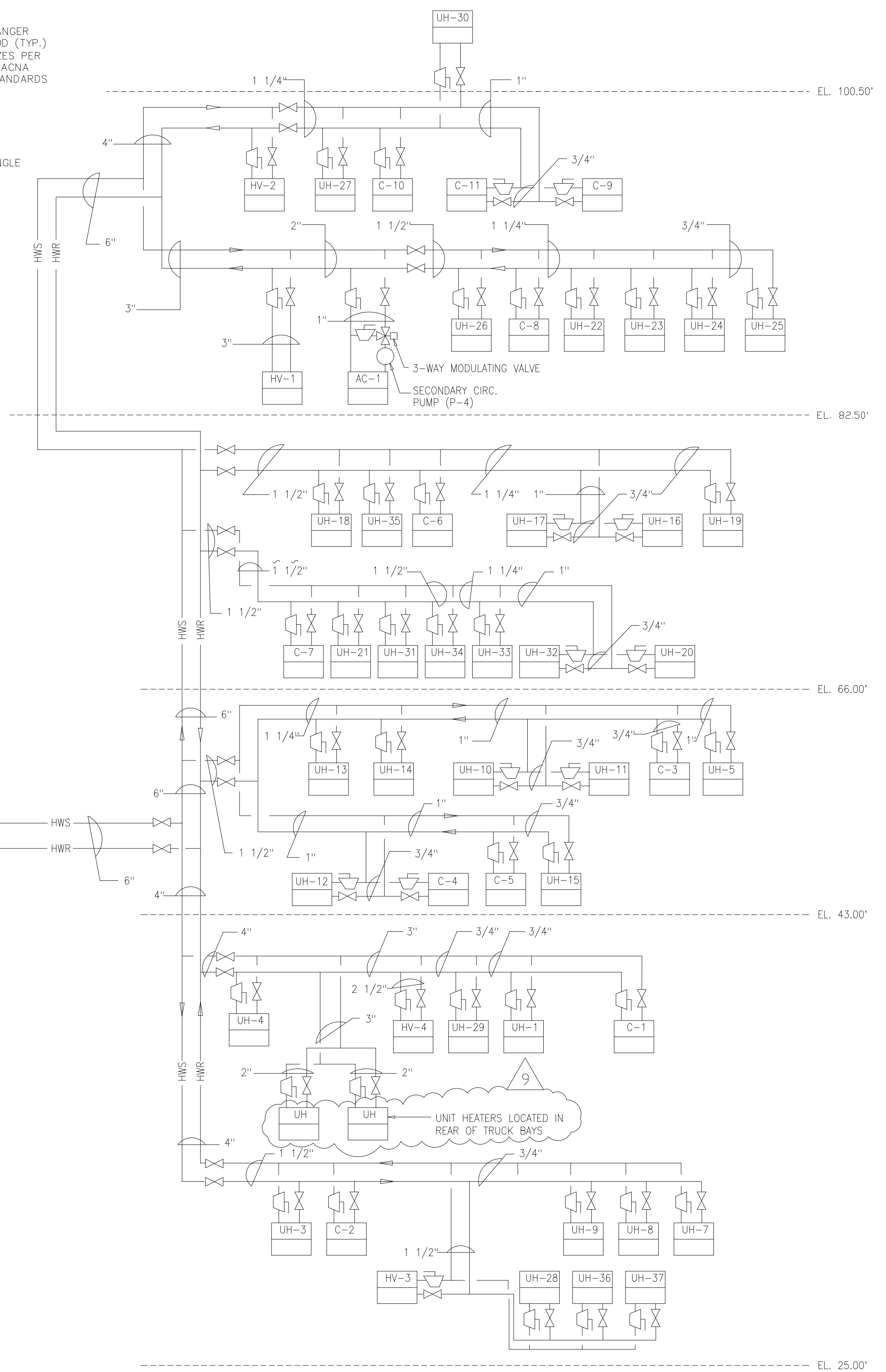
NOTE:
VENT GAS TRAIN IN ACCORDANCE WITH LOCAL & STATE CODES & MANUFACTURER'S RECOMMENDATIONS



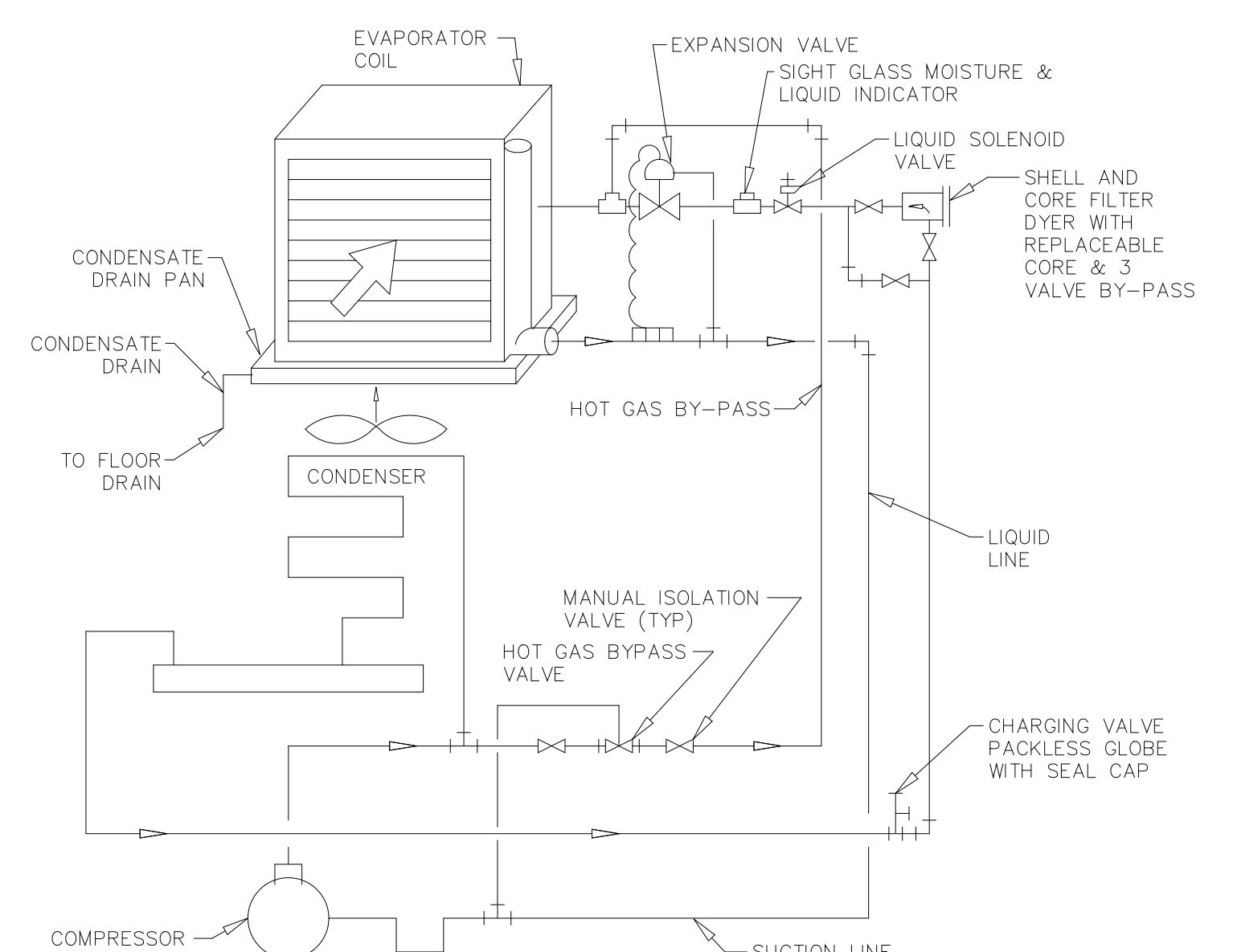
ROOF EXHAUSTER DETAIL
NTS



DUCT HANGING DETAIL
NTS



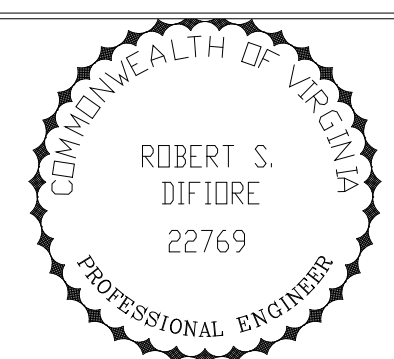
HOT WATER BOILER PIPING SCHEMATIC
NTS



SCHEMATIC REFRIGERANT PIPING DIAGRAM
FOR AIR CONDITIONING UNIT AC-1
NTS

- NOTES:
- 1) PIPING ROUTING SHALL BE DESIGNED TO:
 - A) MINIMIZE THE ACCUMULATION OF LIQUID REFRIGERANT IN THE COMPRESSOR CRANKCASE.
 - B) RETURN OIL TO THE COMPRESSOR AT SAME RATE AT WHICH IT LEAVES.
 - 2) PIPE SIZES SHALL BE VERIFIED AND SIZED BY MFR.

9	RECORD DRAWING	4-99	MKS						
8	WP4.5,6,7/7 CONST.-LAND APP.REDES.	4-96	RSD			DESIGNED	HF B		
7	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD			DRAWN	WAM		
6	WP3 CONST.-LAND APP. REDES.	3-96	RSD			CHECKED			
5	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD			PRJ.ENGR.	AB/RNC		
4	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD						
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD						
2	CONSTRUCTION	9-94	JJB						
1	REGULATORY APPROVAL	9-94	JJB						
ND.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	APPROVED	



HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

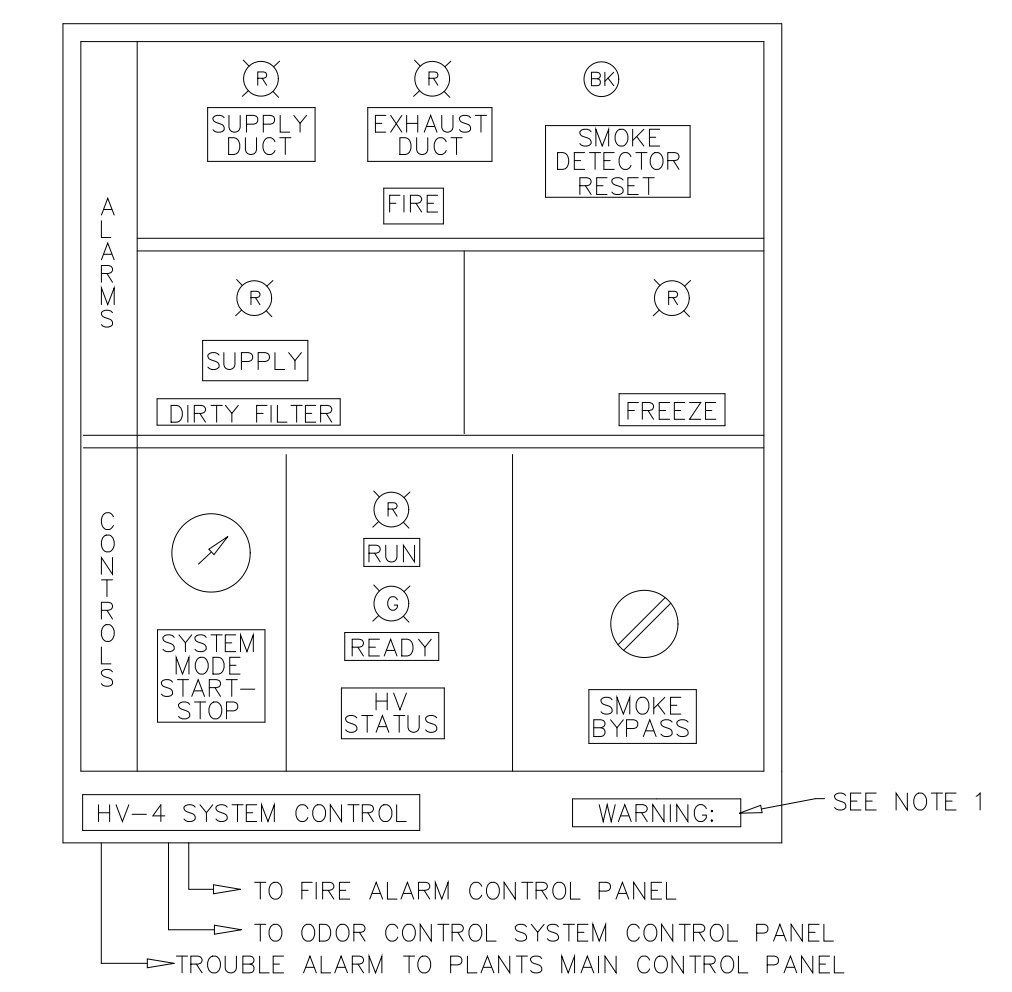
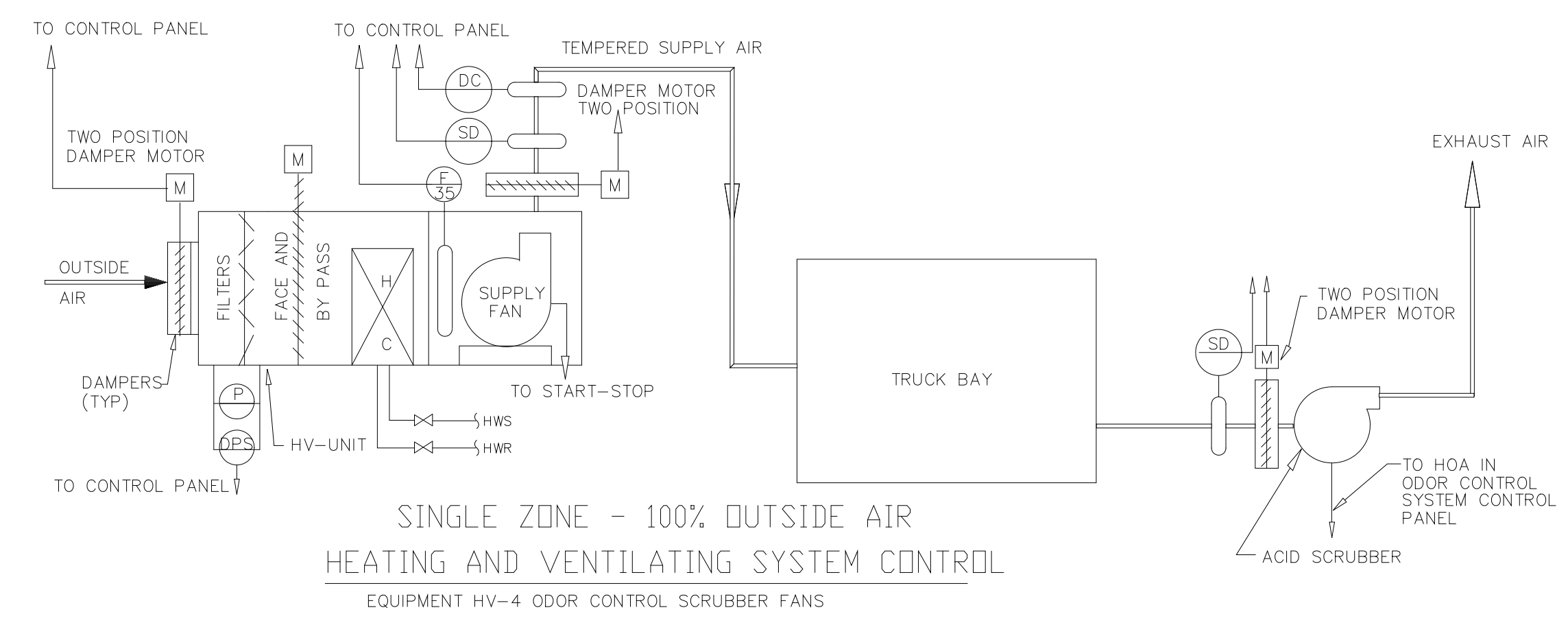
CENTRIFUGE DEWATERING BUILDING
HVAC
DETAILS & SCHEMATICS
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER H215
	SHEET 128 OF 199

RECORD DRAWING

NOTES:
 1 PER FIELD ORDER #21, ALL COMMENTS REGARDING FIRE DAMPERS ARE TO BE INCORPORATED / FURTHER ADDRESSED DURING THE SHOP DRAWING SUBMITTAL PROCESS TO ARLINGTON COUNTY INSPECTION SERVICES FOR REVIEW AND PERMITTING.

5

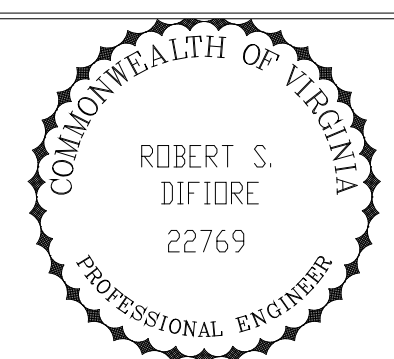


RECORD DRAWING

PLOT DATE 04/14/02 3:29pm FILE: H:\0303\p0303\10303\10303.dwg PLOT BY MATS REF FILE = NONE

NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY
5	RECORD DRAWING	4-99	MKS				
4	WP6/7 CONST.-LAND APP. REDES.	4-96	RSD				
3	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD				
2	CONSTRUCTION	9-94	JJB				
1	REGULATORY APPROVAL	9-94	JJB				

DESIGNED HFB
 DRAWN WAM
 CHECKED
 PROJ.ENGR. AB/RNC
 APPROVED

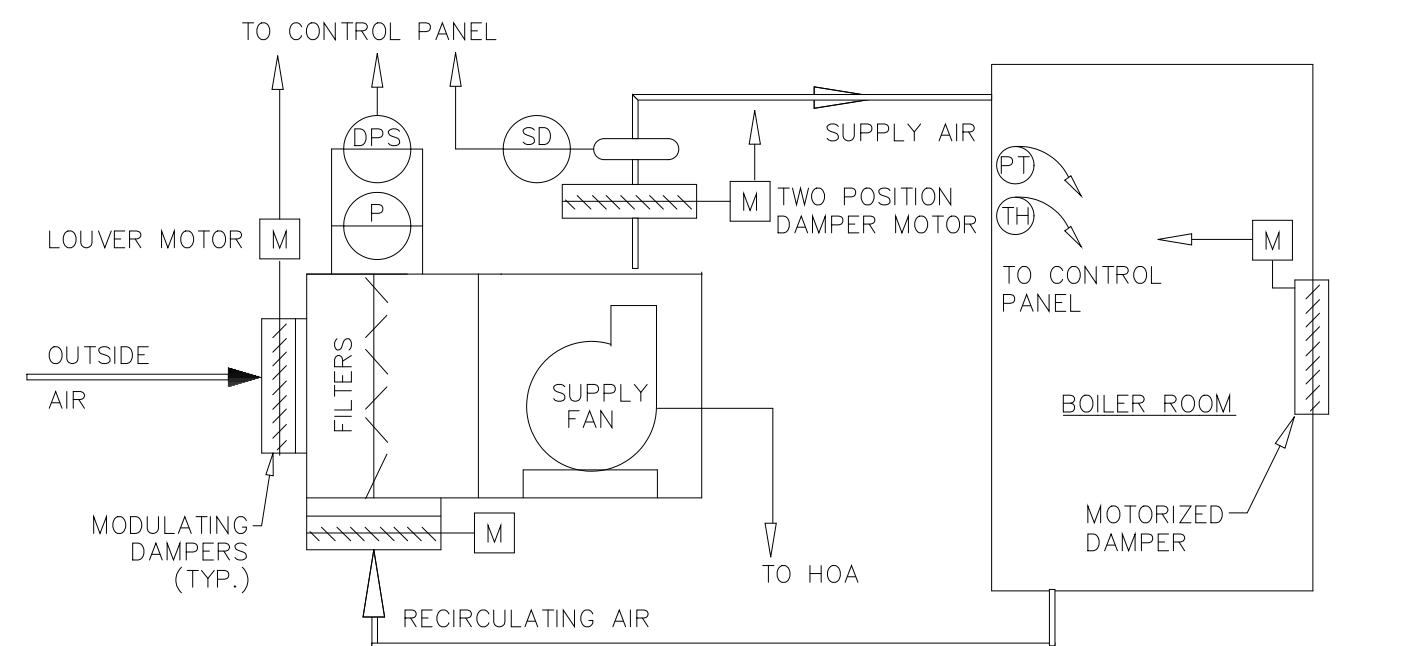


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 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

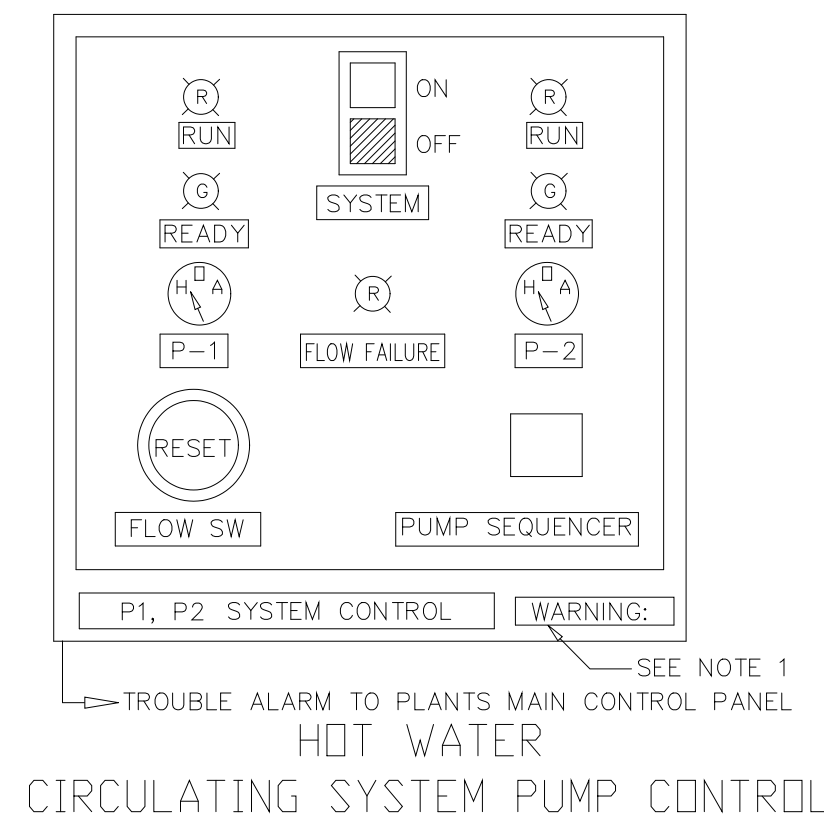
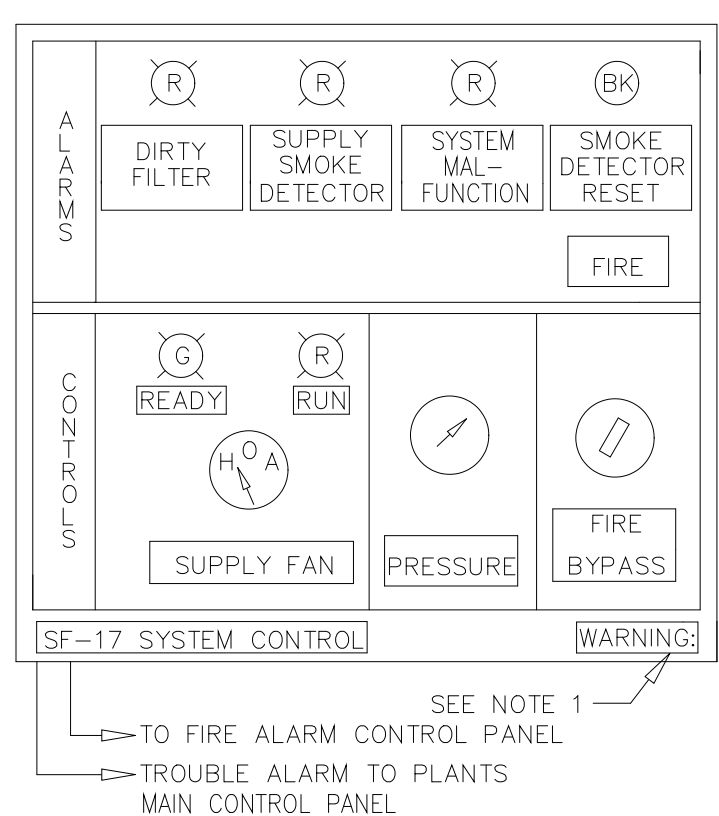
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 HVAC
 CONTROL DIAGRAMS

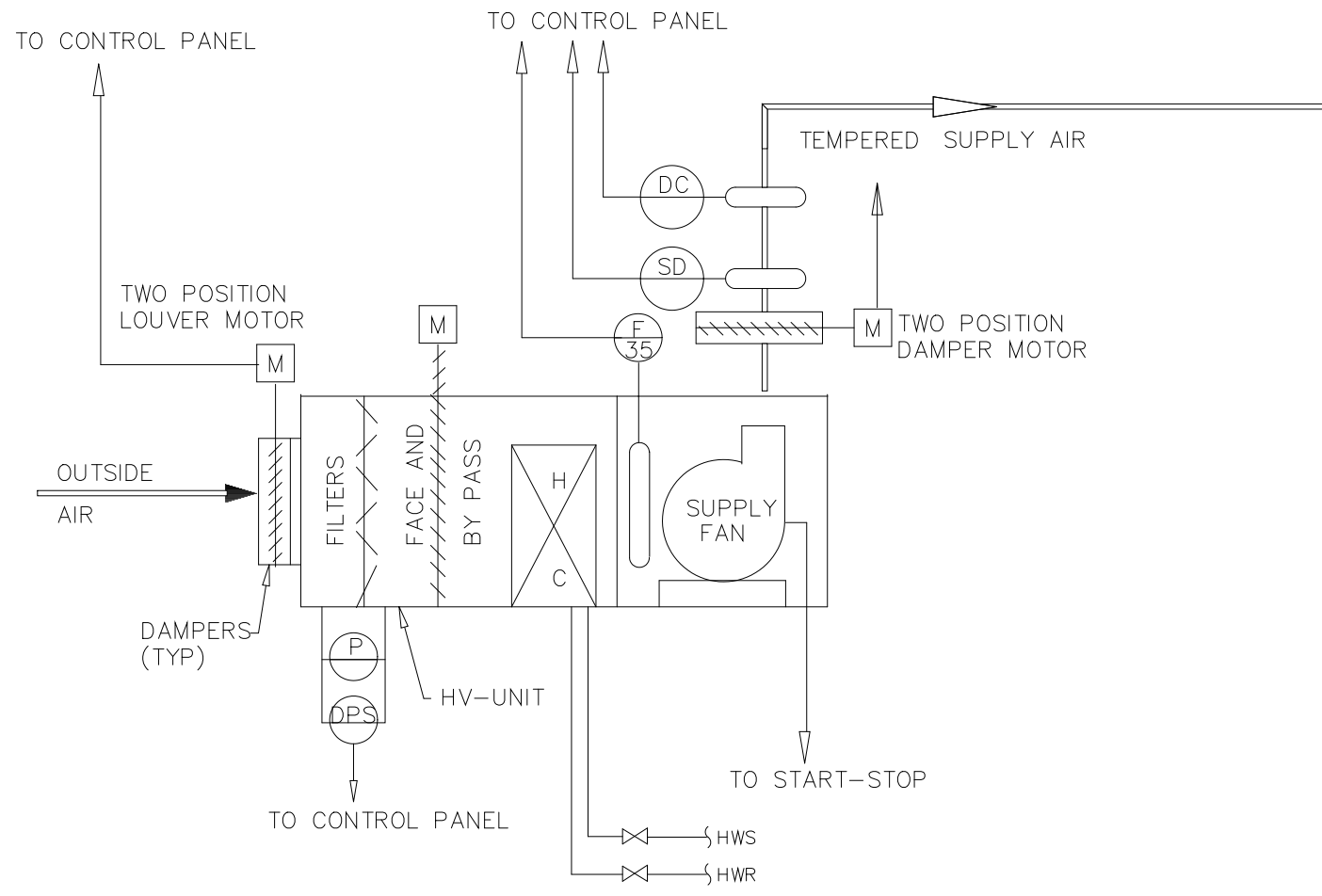
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER H216A
	SHEET 129A OF 199



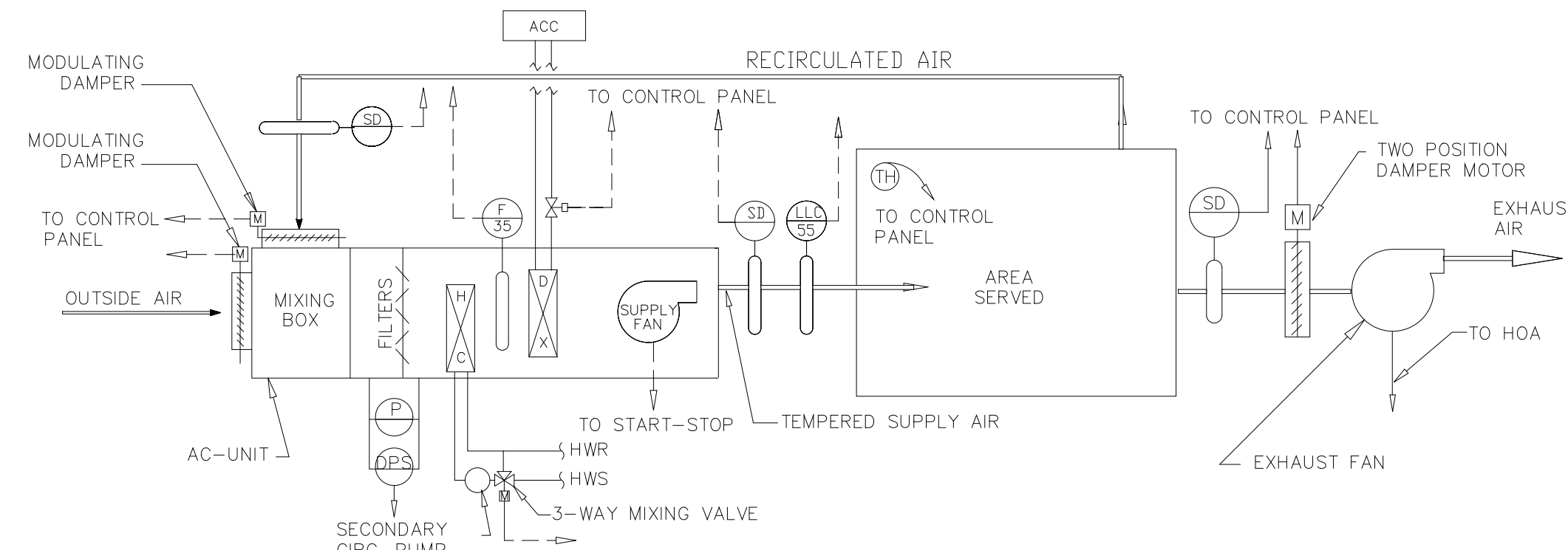
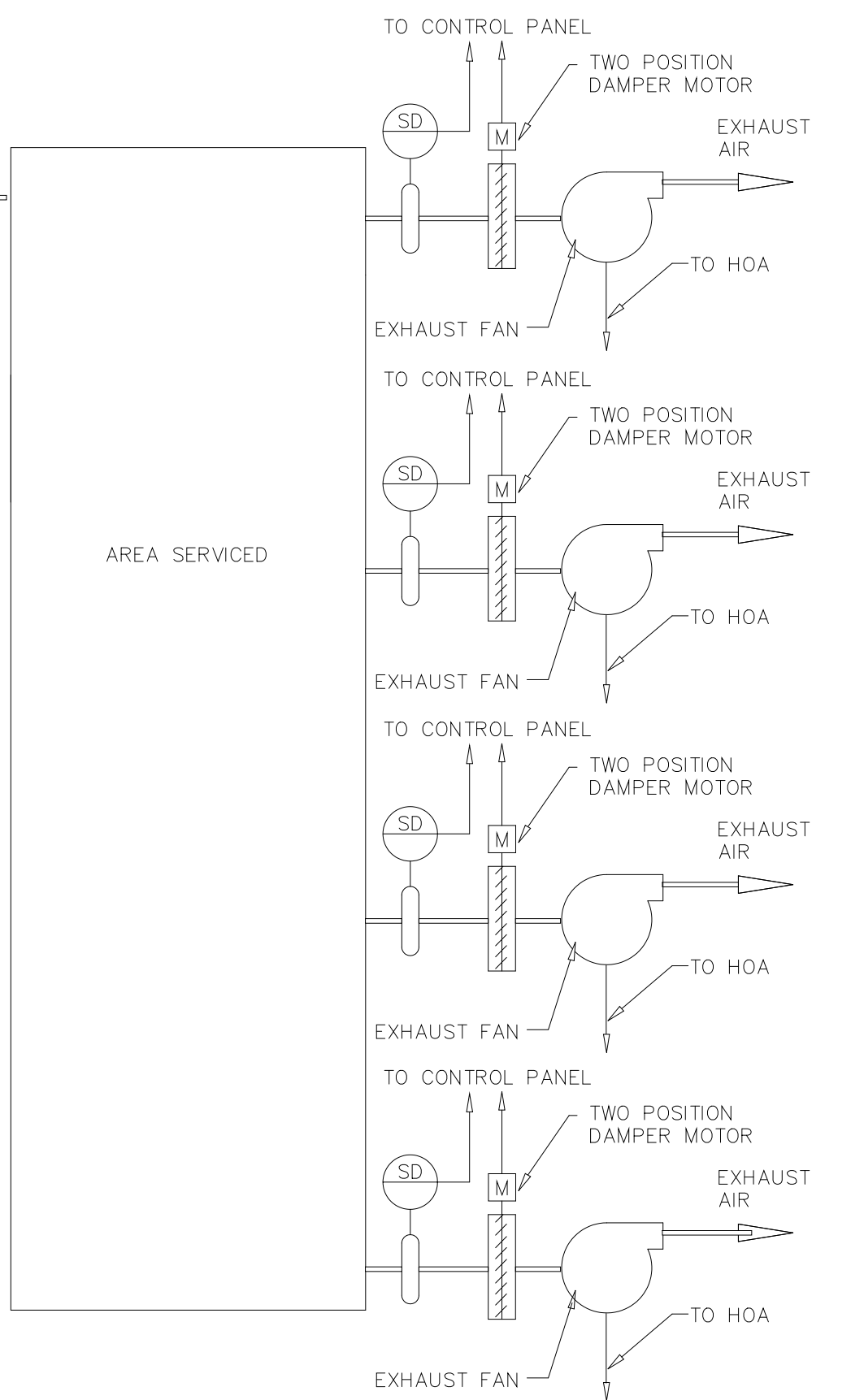
SUPPLY FAN SYSTEM CONTROL
BOILER RM., EQUIPMENT SF-17



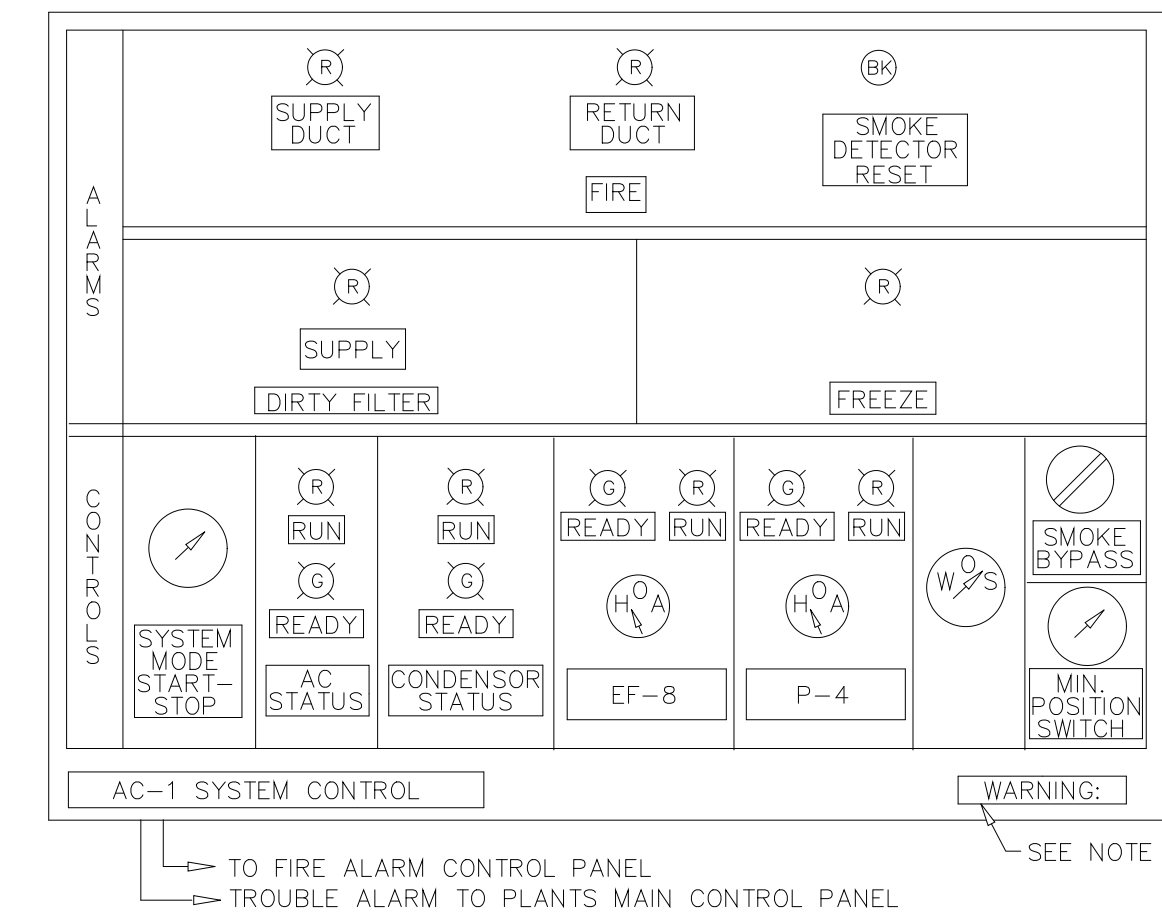
CIRCULATING SYSTEM PUMP CONTROL



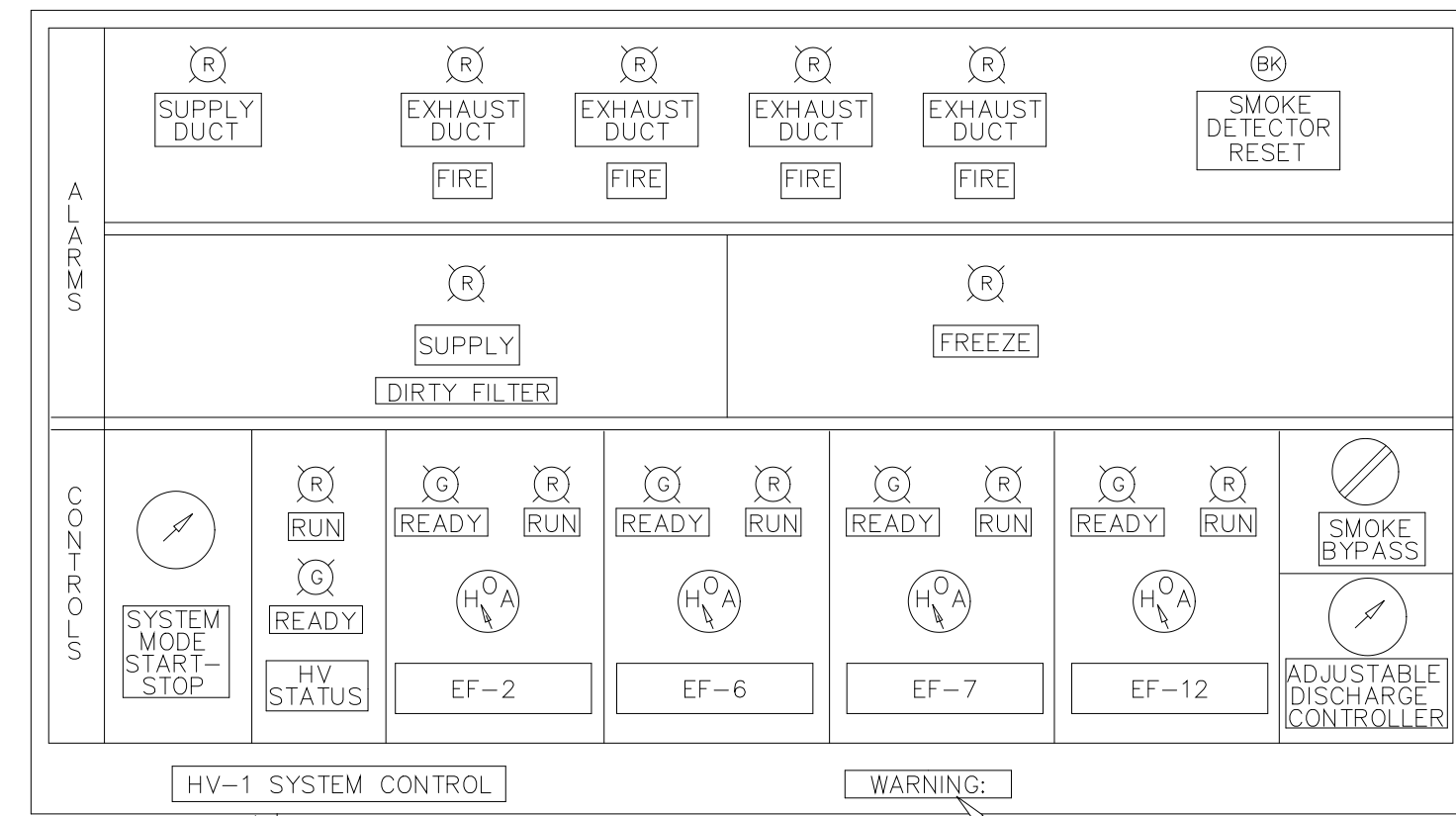
SINGLE ZONE - 100% OUTSIDE AIR HEATING AND VENTILATING SYSTEM CONTROL
EQUIPMENT HV-1, EF-2, 6, 7 & 12.



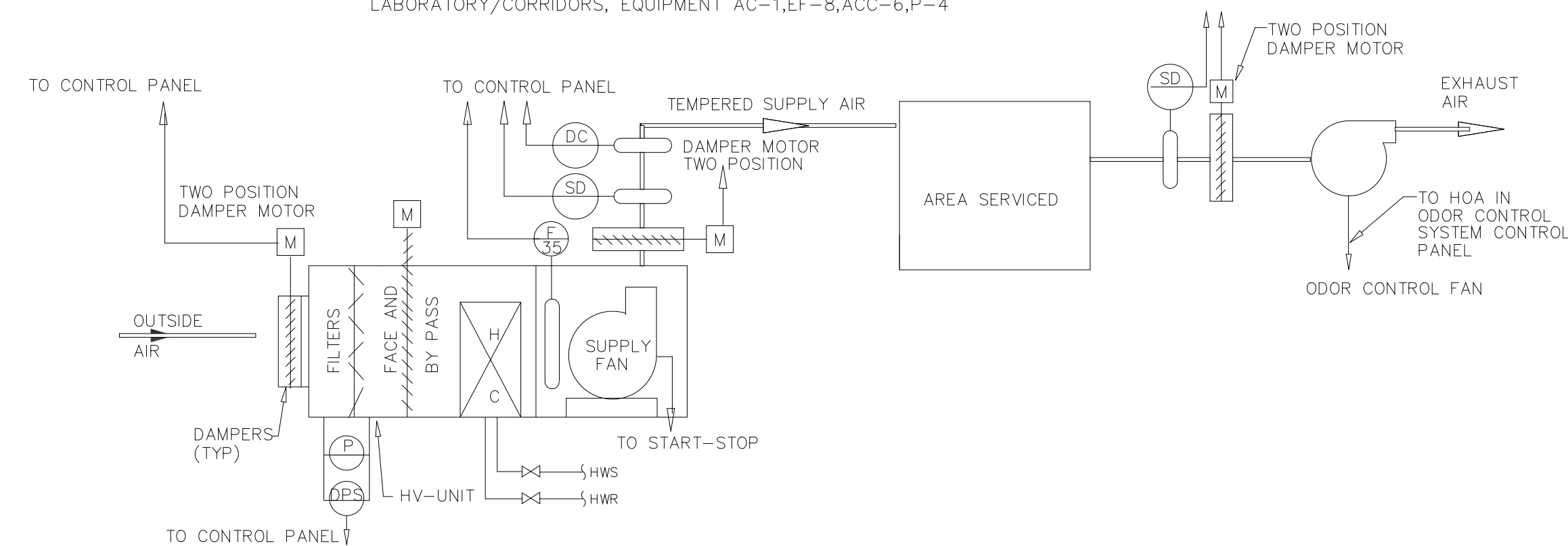
SINGLE ZONE - OUTSIDE AIR WITH RECIRCULATION HEATING, VENTILATION AND AIR CONDITIONING SYSTEM CONTROL
LABORATORY/CORRIDORS, EQUIPMENT AC-1, EF-8, ACC-6, P-4



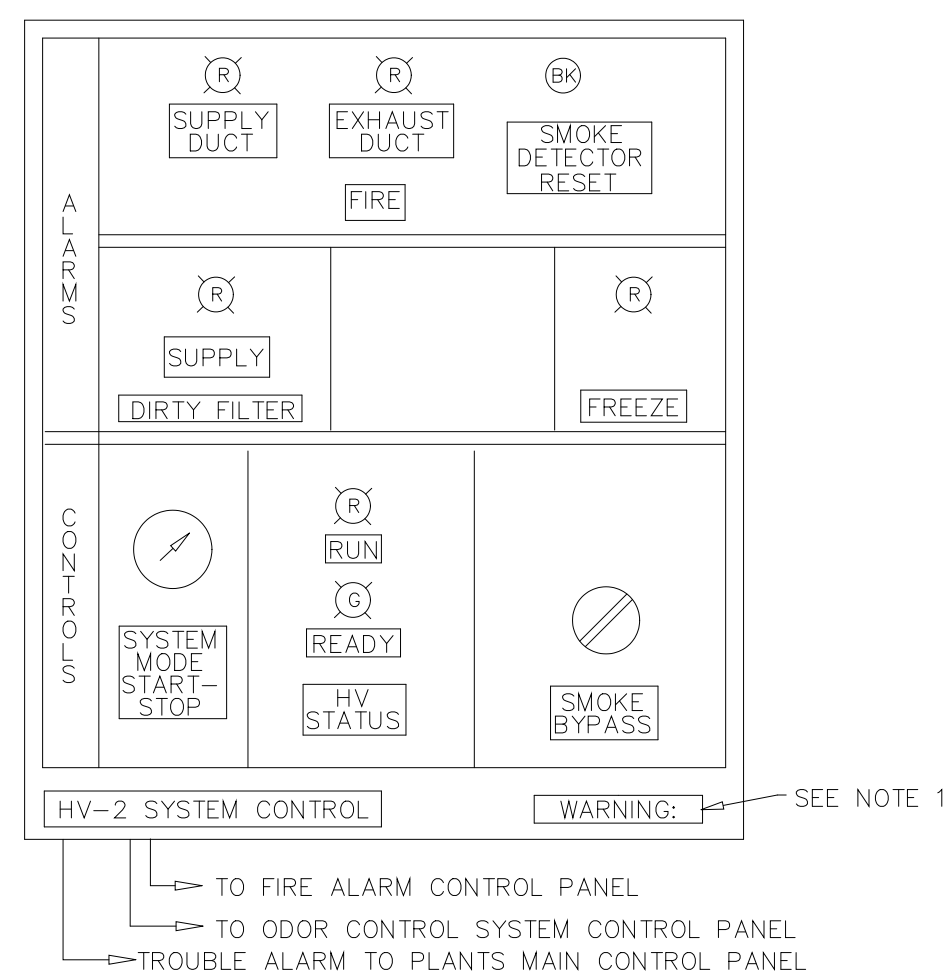
AC-1 SYSTEM CONTROL



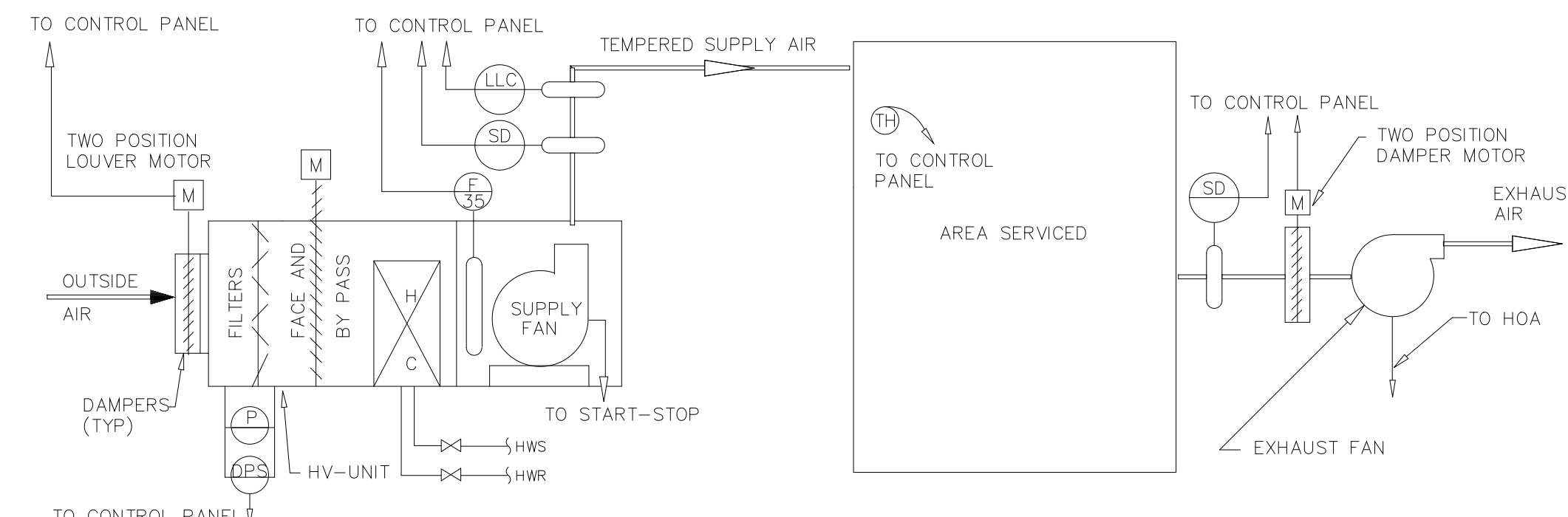
HV-1 SYSTEM CONTROL



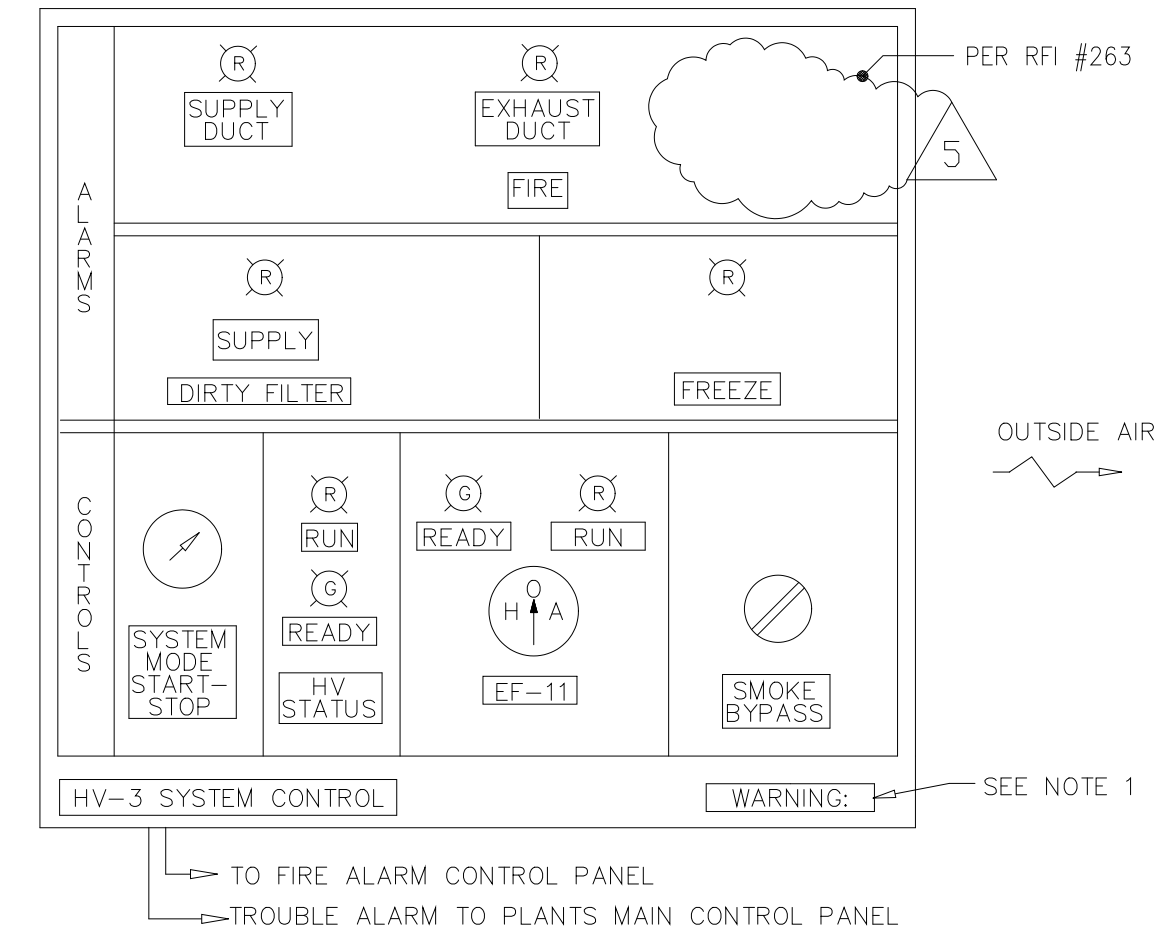
SINGLE ZONE - 100% OUTSIDE AIR HEATING AND VENTILATING SYSTEM CONTROL
EQUIPMENT HV-2 ODOR CONTROL SCRUBBER FANS



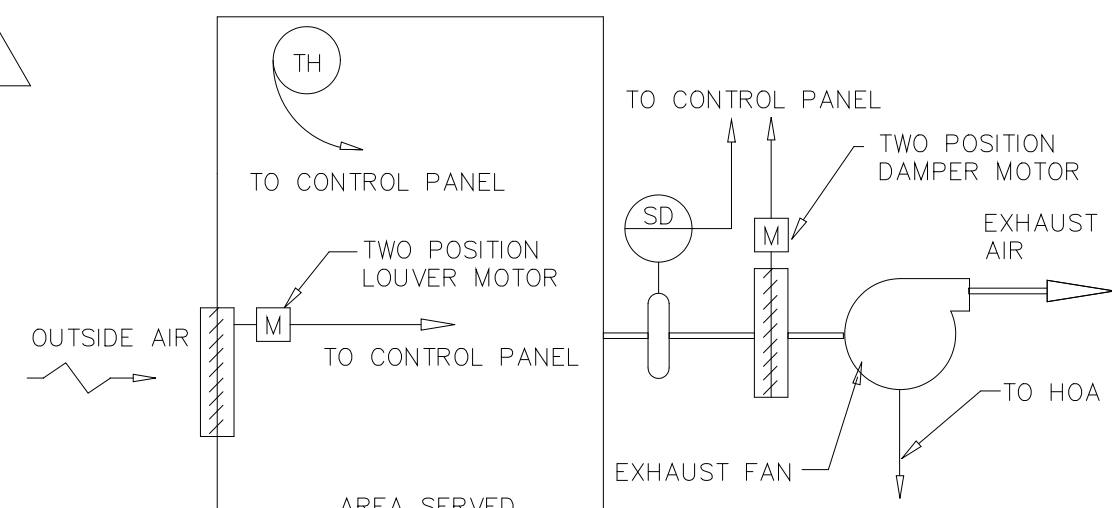
HV-2 SYSTEM CONTROL



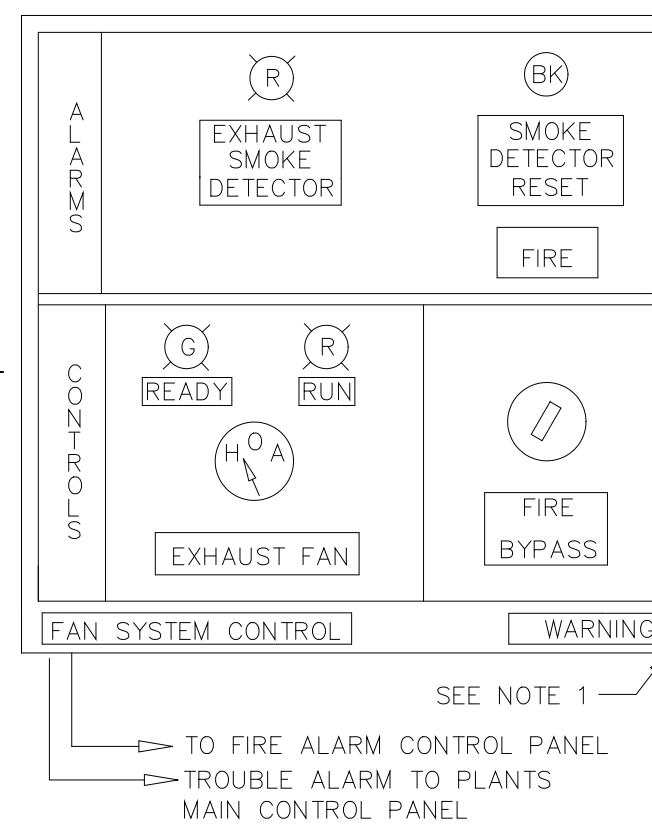
SINGLE ZONE - 100% OUTSIDE AIR HEATING AND VENTILATING SYSTEM CONTROL
EQUIPMENT HV-3, EF-11



HV-3 SYSTEM CONTROL



THERMOSTATICALLY CONTROLLED FAN SYSTEM
EQUIPMENT EF-1, 3, 5, 9, 10, 14, 18 & 19



FAN SYSTEM CONTROL

CONTROL SYMBOLS

	PRESSURE SWITCH		HAND-OFF-AUTOMATIC
	SMOKE DETECTOR		HEATING COIL
	DIFFERENTIAL PRESSURE SWITCH		COOLING COIL
	DISCHARGE CONTROLLER		MOTOR
	TYPE OF DEVICE		PRESSURE TRANSMITTER
	FREEZESTAT		THERMOSTAT
	LOW LIMIT CONTROLLER		WINTER-OFF-SUMMER SWITCH

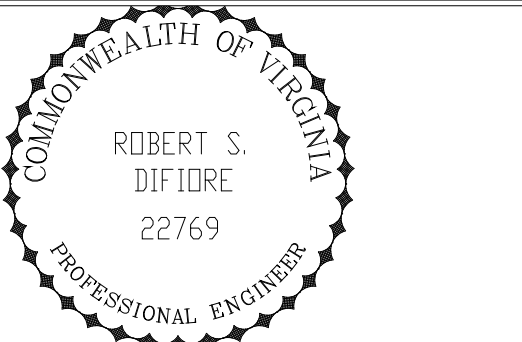
NOTE:
1 PLACE A RED WARNING SIGN CONSPICUOUSLY ON THE FACE OF EACH HVAC CONTROL PANEL WHICH READS AS FOLLOWS.

WARNING
THIS PANEL CONNECTED TO MULTIPLE SOURCES OF POWER

2 FOR OPERATION OF DAMPERS, REFER TO SEQUENCE OF OPERATION IN SPECIFICATIONS.

NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY
8	RECORD DRAWING	4-99	MKS				
7	WP5,6,7 CONST.-LAND APP. REDES.	4-96	RSD				
6	WP6,7 APPROVAL-LAND APP. REDES.	3-96	RSD				
5	WP3 CONST.-LAND APP. REDES.	3-96	RSD				
4	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD				
3	WP3 APPROVAL-LAND APP. REDES.	1-96	RSD				
2	CONSTRUCTION	9-94	JB				
1	REGULATORY APPROVAL	9-94	JB				

DESIGNED HF B
DRAWN WAM
CHECKED _____
PROJ.ENGR. AB/RNC
APPROVED _____



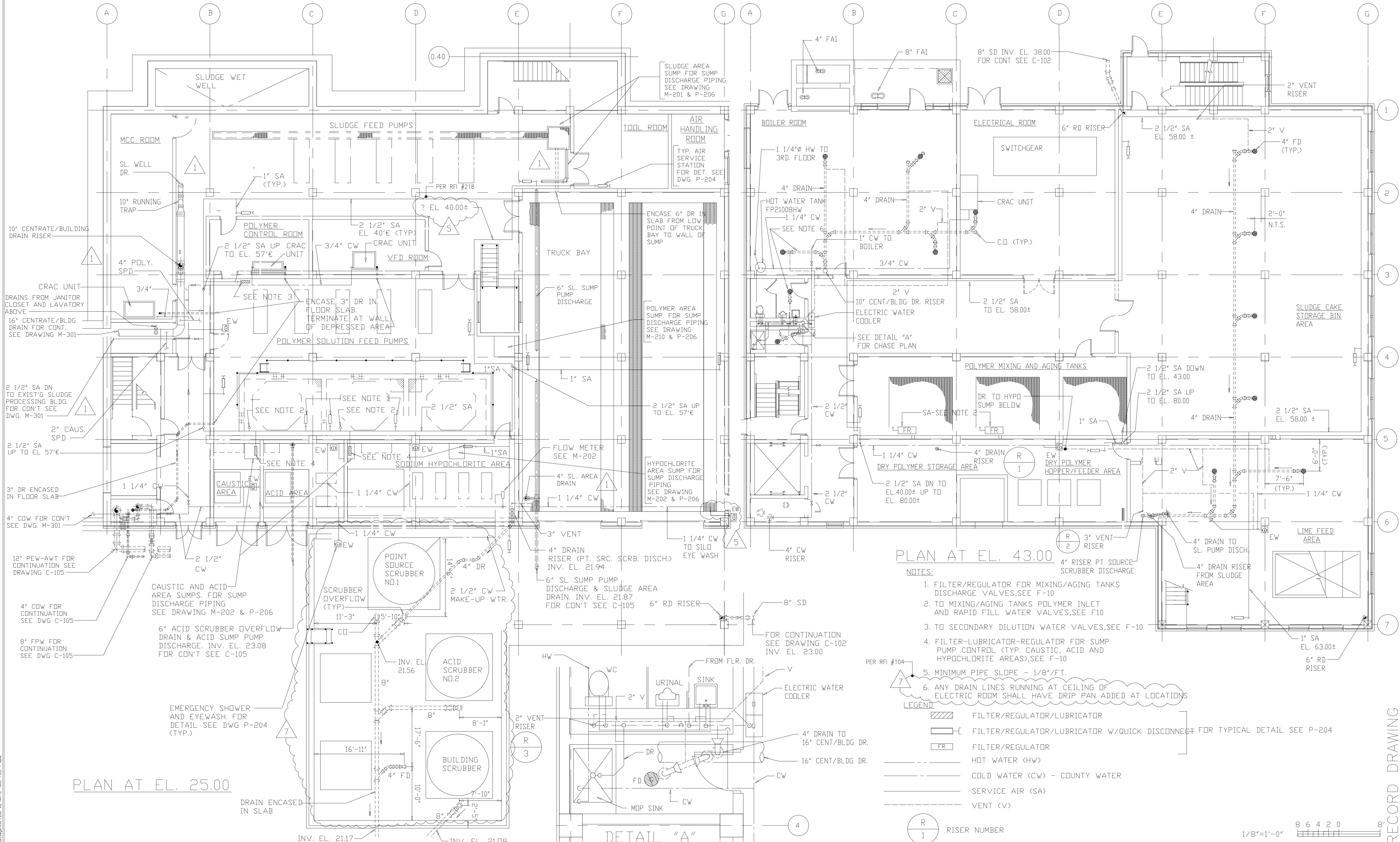
Hazenand Sawyer
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
HVAC
CONTROL DIAGRAMS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER H216
	SHEET 129 OF 199

RECORD DRAWING



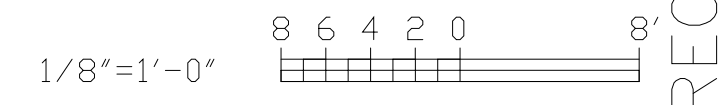
PLAN AT EL. 43.00

PLAN AT EL. 25.00

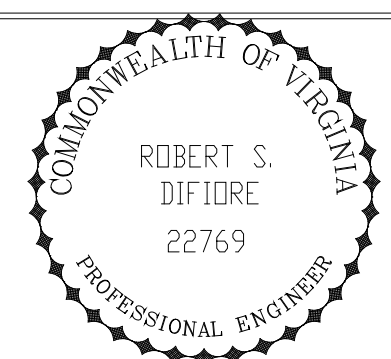
- NOTES:
1. FILTER/REGULATOR FOR MIXING/AGING TANKS DISCHARGE VALVES, SEE F-10
 2. TO MIXING/AGING TANKS POLYMER INLET AND RAPID FILL WATER VALVES, SEE F10
 3. TO SECONDARY DILUTION WATER VALVES, SEE F-10
 4. FILTER-LUBRICATOR-REGULATOR FOR SUMP PUMP CONTROL (TYP. CAUSTIC, ACID AND HYPOCHLORITE AREAS), SEE F-10
 5. MINIMUM PIPE SLOPE - 1/8"/FT.
 6. ANY DRAIN LINES RUNNING AT CEILING OF ELECTRIC ROOM SHALL HAVE DRIP PAN ADDED AT LOCATIONS

- LEGEND
- [Symbol] FILTER/REGULATOR/LUBRICATOR
 - [Symbol] FILTER/REGULATOR/LUBRICATOR W/QUICK DISCONNECT FOR TYPICAL DETAIL SEE P-204
 - [Symbol] FILTER/REGULATOR
 - [Symbol] HOT WATER (HW)
 - [Symbol] COLD WATER (CW) - COUNTY WATER
 - [Symbol] SERVICE AIR (SA)
 - [Symbol] VENT (V)

R 1 RISER NUMBER



7	RECORD DRAWING	6-99	MKS	DESIGNED	K.H., J.S.
6	WP-4 CONST.-LAND APP.REDES.	4-96	J.J.B.	DRAWN	K.J.S.
5	WP-3 CONST.-LAND APP.REDES.	4-96	J.J.B.	CHECKED	A.B.
4	WP-4 APPROVAL-LAND APP.REDES.	3-96	J.J.B.	PROJ.ENGR.	J.J.B.
3	WP-3 APPROVAL-LAND APP.REDES.	1-96	J.J.B.		
2	CONSTRUCTION	11-94	J.J.B.		
1	COUNTY REGULATORY APPROVAL ISSUED FOR	11-94	J.J.B.		
NO.		DATE	BY	APPROVED	



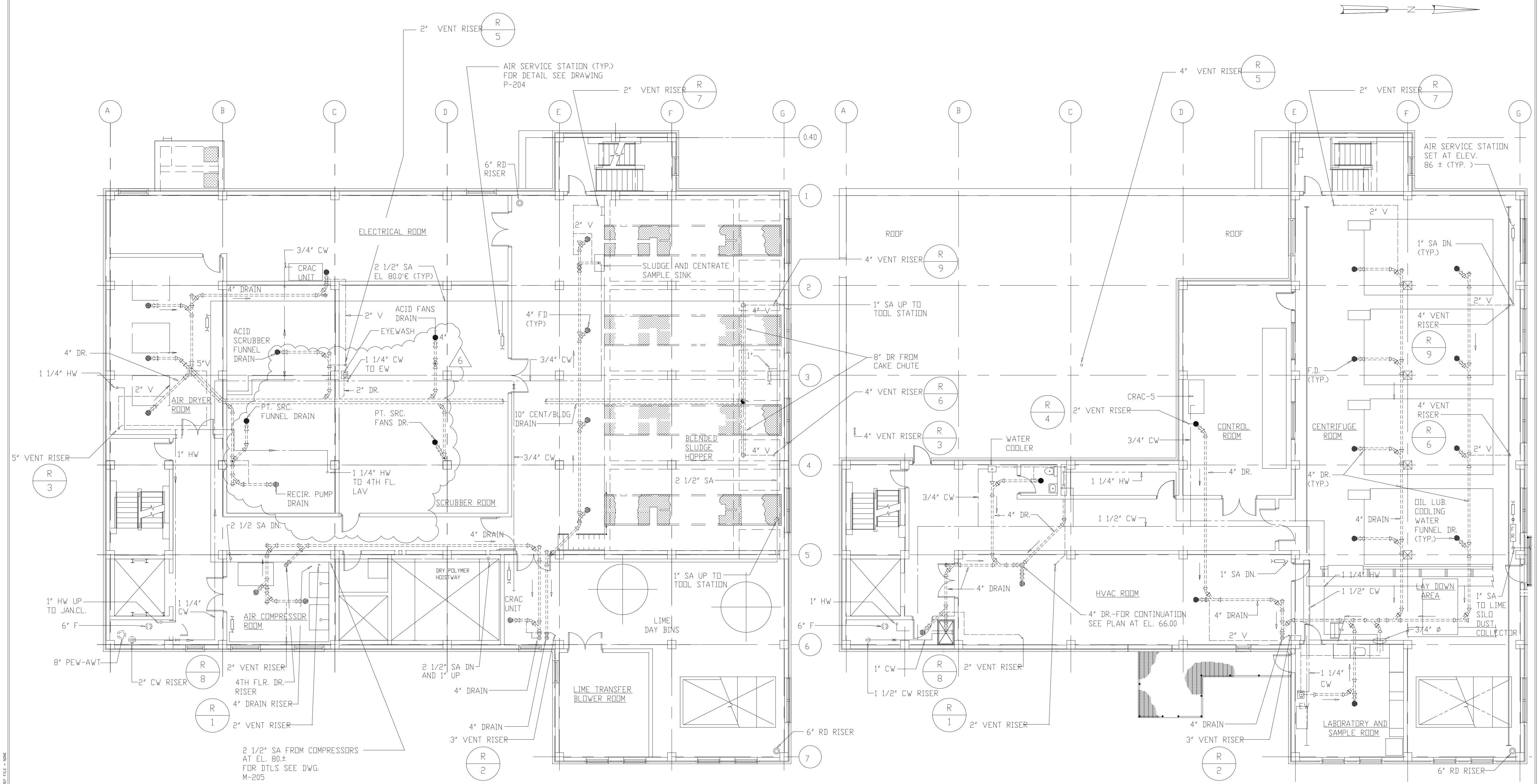
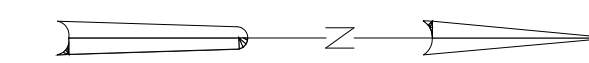
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
PLUMBING
PLANS AT EL. 25.00 & EL. 43.00

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC	DRAWING NUMBER P-201
	SHEET 130 OF 199	

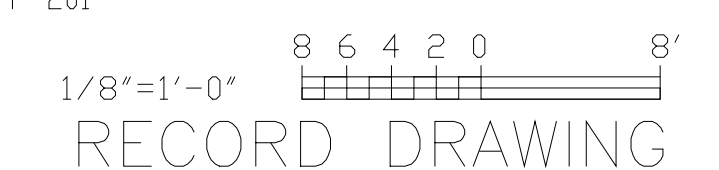
RECORD DRAWING



PLAN AT EL. 66.00

PLAN AT EL. 82.50

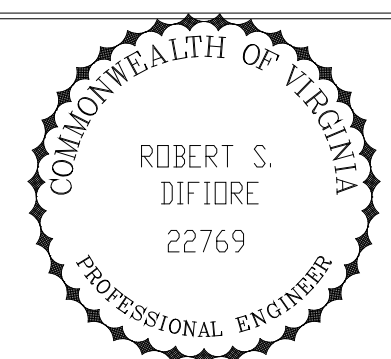
FOR NOTES AND LEGEND SEE DRAWING P-201



RECORD DRAWING

6	RECORD DRAWING	4-99	MKS.
5	WP5,6/7 CONST.-LAND APPREDES.	4-96	J.J.B.
4	WP6/7 APPROVAL-LAND APPREDES.	3-96	J.J.B.
3	WP-5 APPROVAL-LAND APPREDES.	2-96	J.J.B.
2	CONSTRUCTION	11-94	J.J.B.
1	COUNTY REGULATORY APPROVAL ISSUED FOR	11-94	J.J.B.
NO.		DATE	BY

DESIGNED	K.H., J.S.
DRAWN	K.J.S.
CHECKED	A.B.
PROJ.ENGR.	J.J.B.
	J.J.B.
APPROVED	

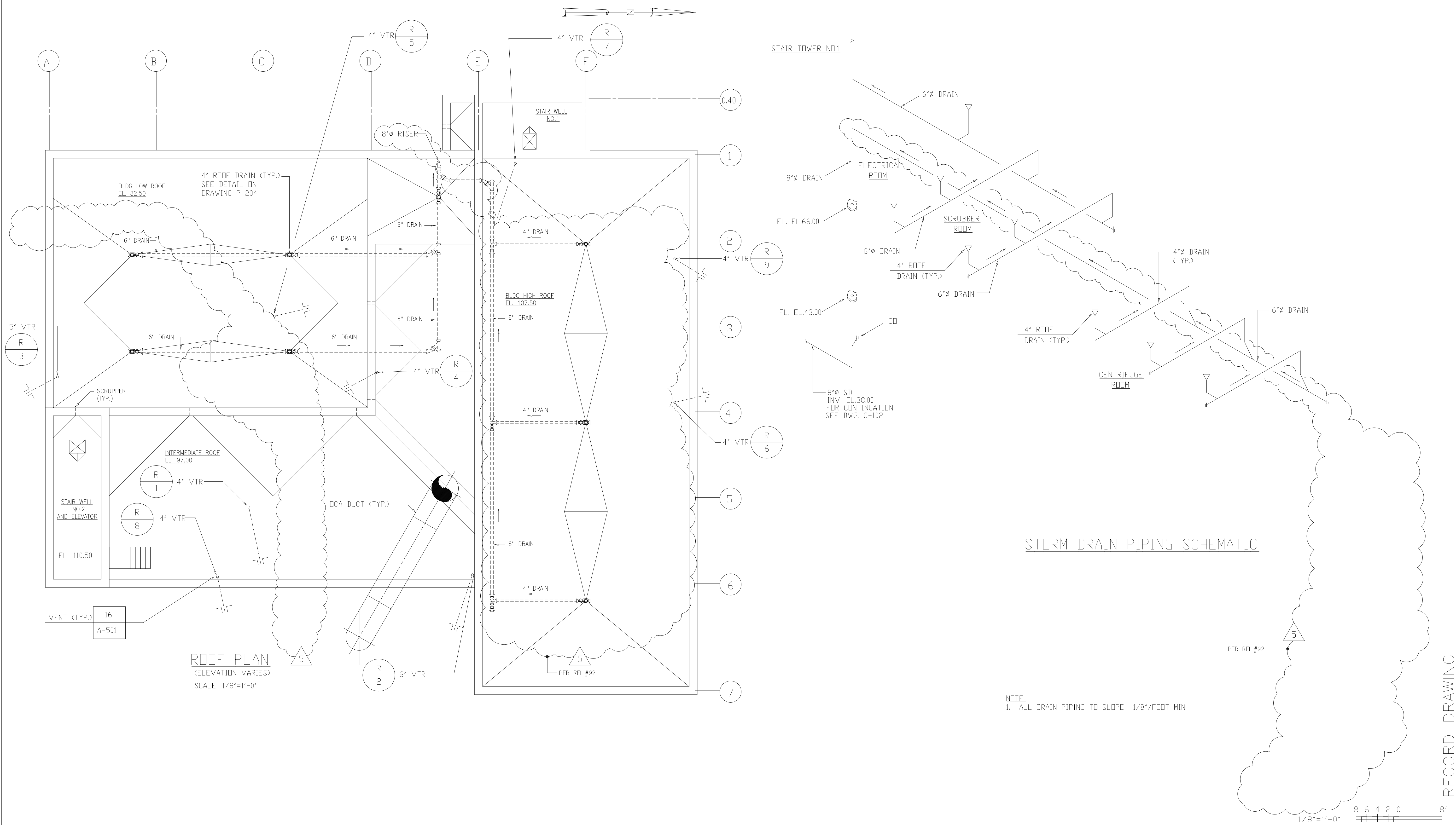


HAZENAND SAWYER
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RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

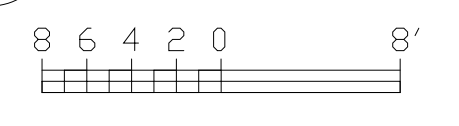
CENTRIFUGE DEWATERING BUILDING
PLUMBING
PLANS AT EL. 66.00 & 82.50

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER P-202
	SHEET 131 OF 199



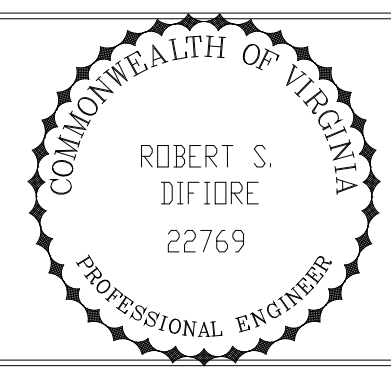
STORM DRAIN PIPING SCHEMATIC

NOTE:
1. ALL DRAIN PIPING TO SLOPE 1/8"/FOOT MIN.



RECORD DRAWING

DESIGNED	A.A.B.
DRAWN	K.J.S.
CHECKED	A.A.B.
PROJ.ENGR.	J.J.B.
CONSTRUCTION	J.J.B.
COUNTY REGULATORY APPROVAL	J.J.B.
ISSUED FOR	
DATE	BY
APPROVED	

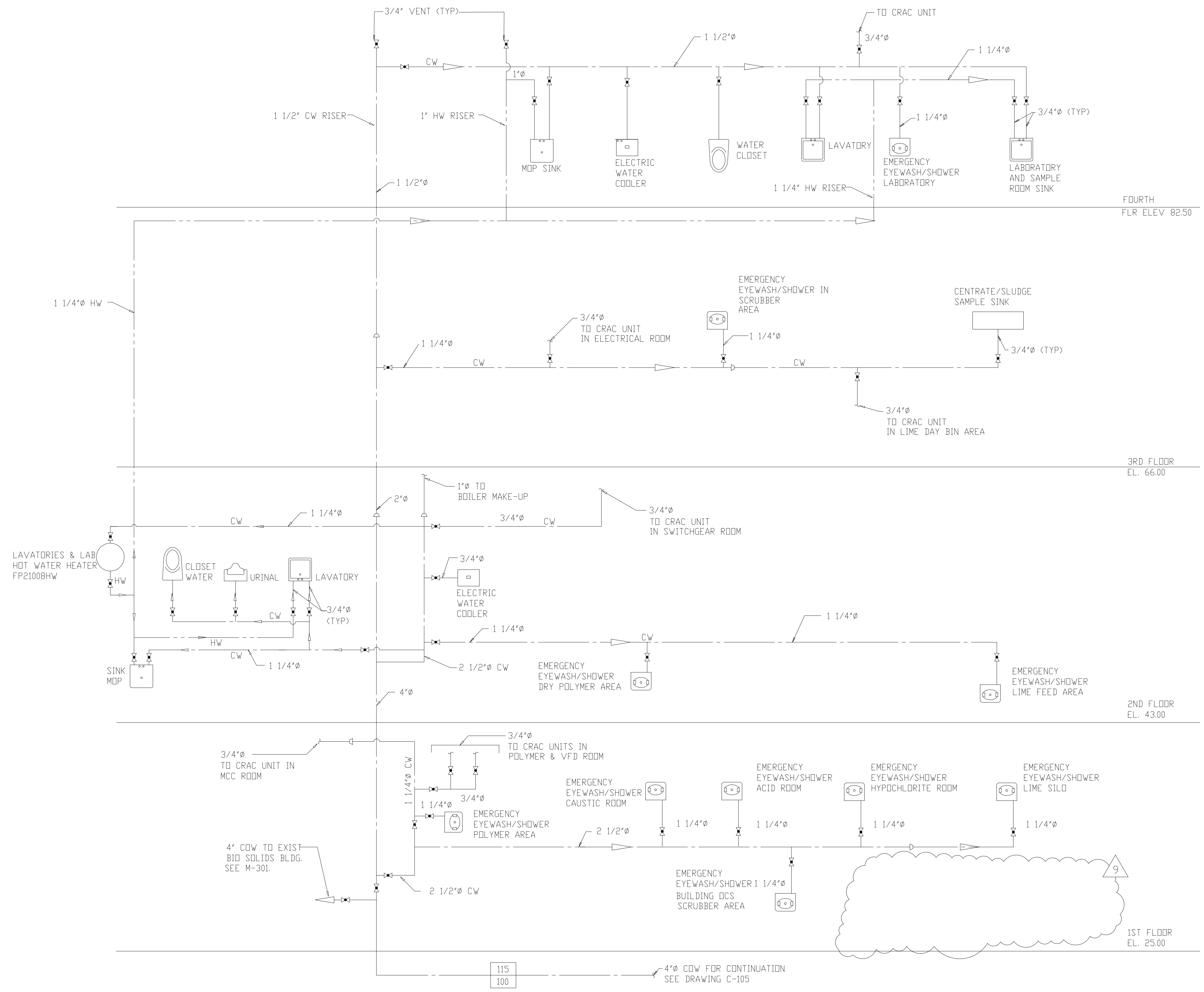


HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
PLUMBING
ROOF PLAN AND STORM DRAIN RISER
DIAGRAM

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER P-203
	SHEET 132 OF 199

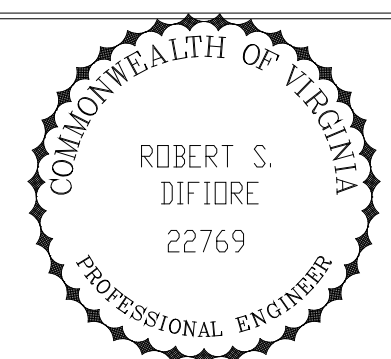


LEGEND

——	HOT WATER
- - - -	COLD WATER
-	MAX FLOW RATE (GPM)
-	AVG FLOW RATE (GPM)

RECORD DRAWING

NO.	COUNTY REGULATORY APPROVAL ISSUED FOR	DATE	BY	APPROVED
9	RECORD DRAWING	4-99	MKS	DESIGNED R.H.
8	WP4,5,6/7 CONST.-LAND APPREDES.	4-96	J.J.B.	DRAWN J.H.R./J.F.
7	WP6/7 APPROVAL-LAND APPREDES.	3-96	J.J.B.	CHECKED A.A.B.
6	WP-3 CONST.-LAND APPREDES.	3-96	J.J.B.	PROJ.ENGR. J.B.B.
5	WP-5 APPROVAL-LAND APPREDES.	2-96	J.J.B.	J.J.B.
4	WP-4 APPROVAL-LAND APPREDES.	1-96	J.J.B.	J.J.B.
3	WP-3 APPROVAL-LAND APPREDES.	1-96	J.J.B.	J.J.B.
2	CONSTRUCTION	9-94	J.J.B.	J.J.B.
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	J.J.B.

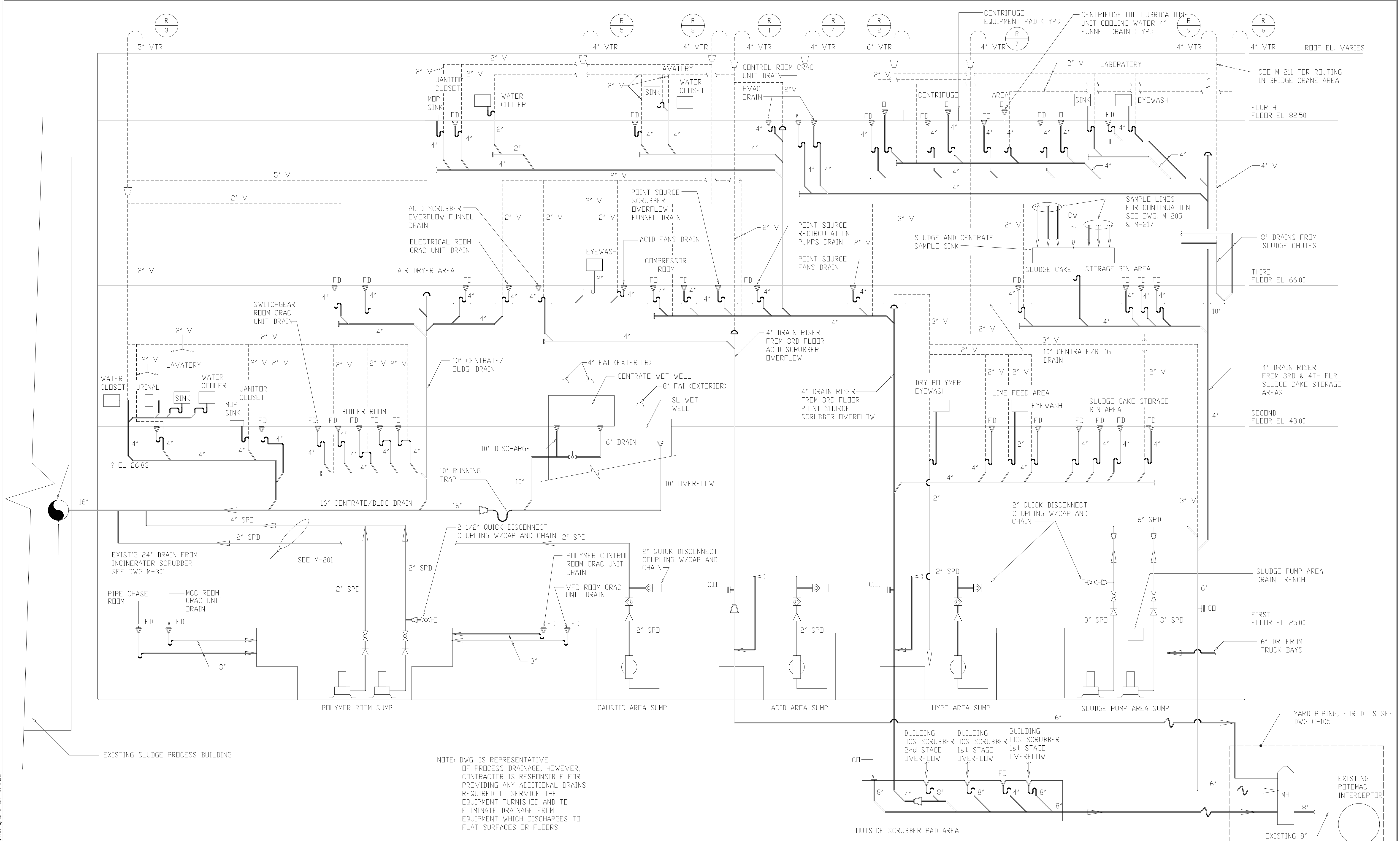


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Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
PLUMBING
RISER DIAGRAMS
HOT AND COLD WATER SUPPLY

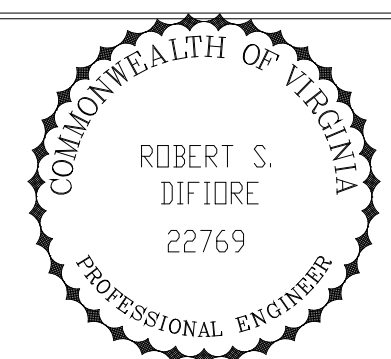
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER P-205
	SHEET 134 OF 199



NOTE: DWG. IS REPRESENTATIVE OF PROCESS DRAINAGE, HOWEVER, CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY ADDITIONAL DRAINS REQUIRED TO SERVICE THE EQUIPMENT FURNISHED AND TO ELIMINATE DRAINAGE FROM EQUIPMENT WHICH DISCHARGES TO FLAT SURFACES OR FLOORS.

RECORD DRAWING

7	RECORD DRAWING	4-99	MKS	DESIGNED	K.H.
6	WP6/7 CONST.-LAND APPR.EDES.	4-96	J.J.B.	DRAWN	K.J.S.
5	WP6/7 APPROVAL-LAND APPR.EDES.	3-96	J.J.B.	CHECKED	A.B.
4	WP3 CONST.-LAND APPR.EDES.	3-96	J.J.B.	PROJ.ENGR.	J.J.B.
3	WP3 APPROVAL-LAND APPR.EDES.	1-96	J.J.B.		
2	CONSTRUCTION	9-94	J.J.B.		
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.		
NO.	ISSUED FOR	DATE	BY	APPROVED	

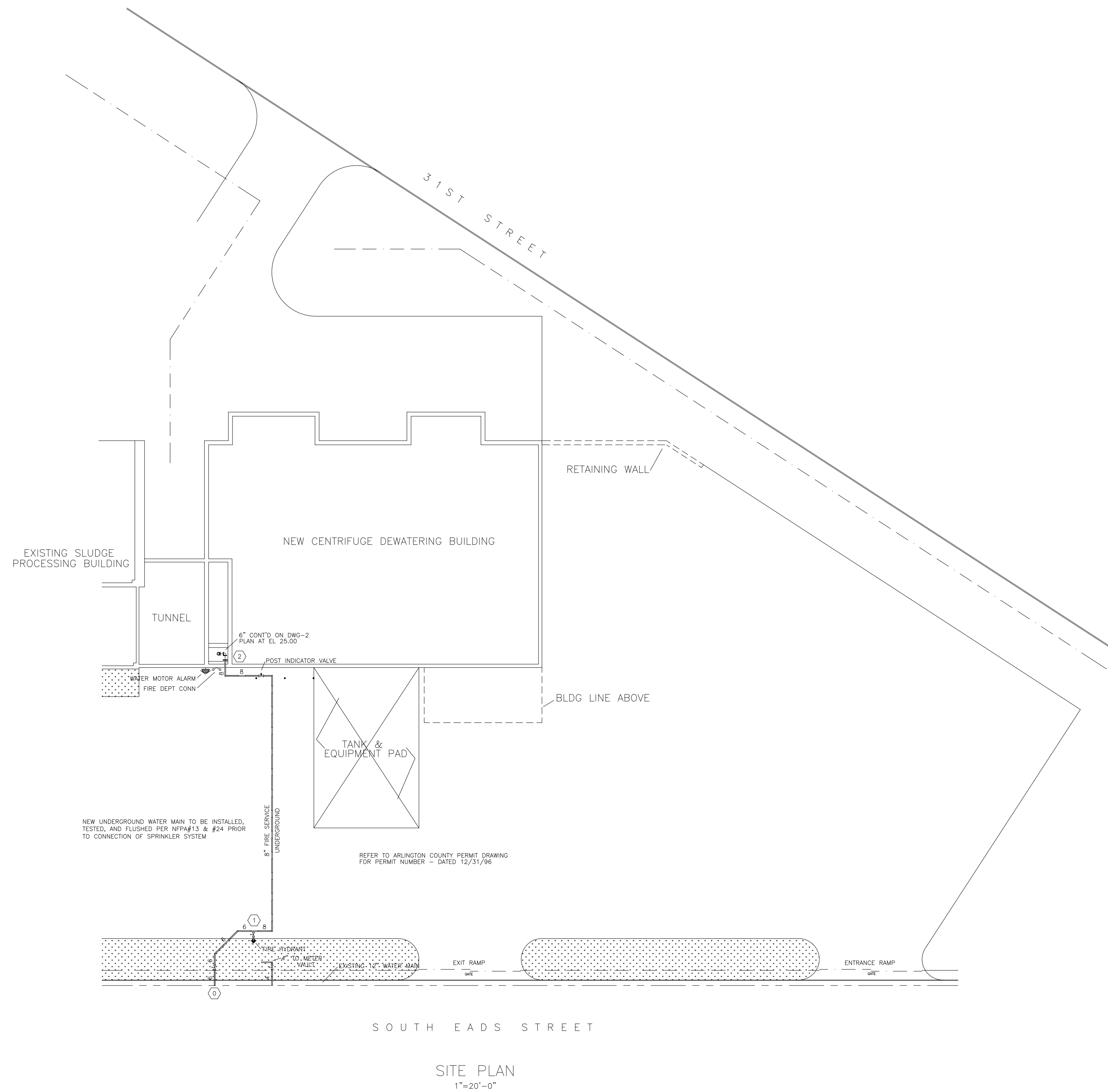


HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

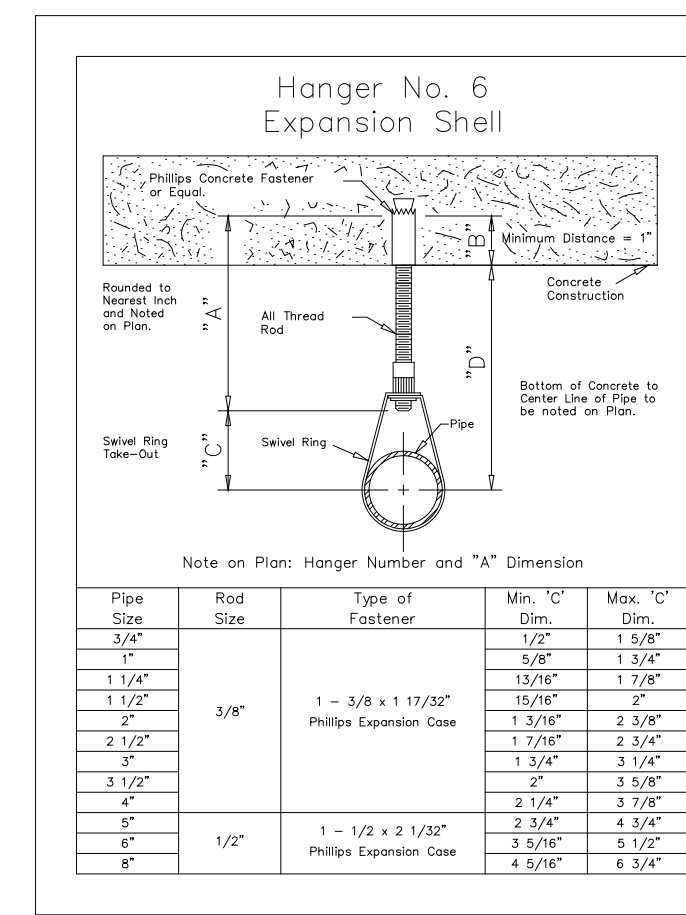
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
PLUMBING
RISER DIAGRAM - PROCESS
AND SANITARY DRAINAGE

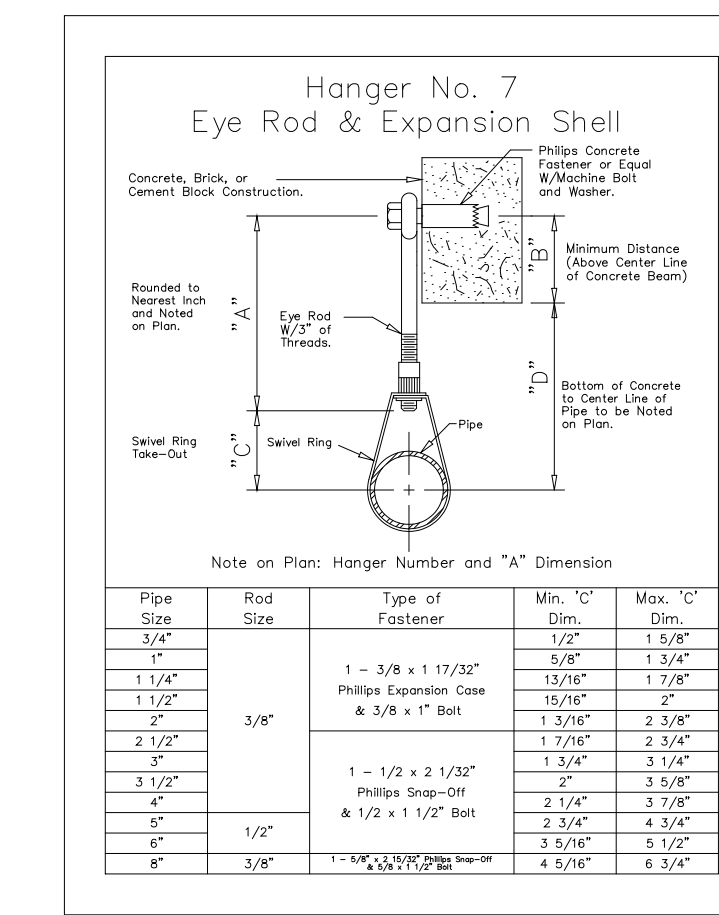
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
H & S JOB NUMBER 2843	DRAWING NUMBER P-206
CONTRACT NUMBER 93-02-WPC	SHEET 135 OF 199



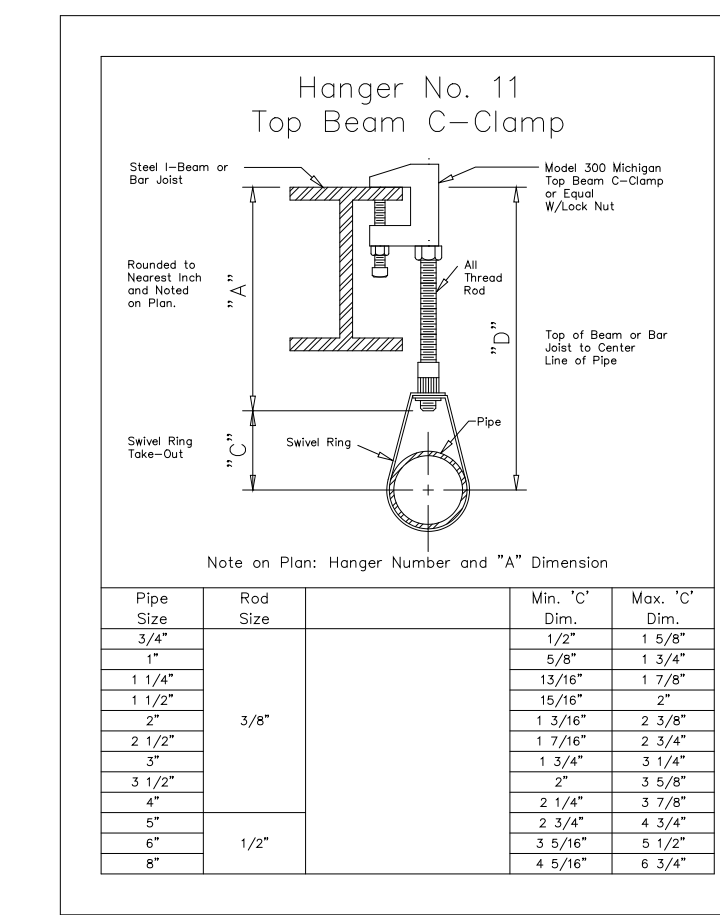
SITE PLAN
1"=20'-0"



ALL HANGER COMPONENTS TO BE CADMIUM PLATED



ALL HANGER COMPONENTS TO BE CADMIUM PLATED



ALL HANGER COMPONENTS TO BE CADMIUM PLATED

PIPE SUPPORT DETAILS
NO SCALE

GENERAL NOTES

SYSTEM TYPE: WET DRY DELUGE PREACTION OTHER

SYSTEM IS DESIGNED AND TO BE INSTALLED PER NFPA13 & [4 ISO FM BOCA OTHER

PIPE SIZING: HYDRAULIC CALCULATIONS PIPE SCHEDULE

PIPE TYPE: MAINS: _____ BRANCH LINES: _____
 SCH-40 THINWALL
 THINWALL XL-PIPE
 XL-PIPE GALV.
 GALV. COPPER
 COPPER PLASTIC

FITTING TYPE: MAINS: _____ BRANCH LINES: _____
 PLAIN-END GROOVED
 PLAIN-END PLAIN-END
 SCREWED SCREWED
 WELDED WELDED
 OTHER

FITTING MATERIAL: CAST IRON MALLEABLE IRON FORGED STEEL
 DUCTILE IRON COPPER PLASTIC OTHER

FITTING CLASS: 125 150 250 300 OTHER

PIPE SLEEVES: FIRE WALLS MASONRY WALLS ALL WALLS
 GALV. SCH-40 THINWALL SHI METAL OTHER

BUY AMERICAN ACT: YES NO

ALL DIMENSIONS AND ELEVATIONS ARE TO CENTERLINE OF PIPE

ALL PIPE AND HANGER LENGTHS ARE CUT DIMENSIONS (EXCEPT COPPER AND PLASTIC SYSTEMS ARE CENTER/CENTER) UNLESS OTHERWISE NOTED

*0" DENOTES CENTERLINE OF PIPE TO BOT./TOP STEEL
 0'-0" - CENTERLINE OF PIPE ABOVE REFERENCED PLANE
 - - APPROXIMATE HANGER LOCATION
 O - HYDRAULIC REFERENCE POINT

OWNER TO PROVIDE HEAT THROUGHOUT WET SPRINKLER AREAS AND IN ENCLOSURES FOR DRY PIPE, DELUGE, AND OTHER TYPES OF VALVES CONTROLLING WATER SUPPLIES TO SPRINKLER SYSTEMS

OWNER TO MAINTAIN SPRINKLER SYSTEMS AS PER NFPA #25

ALL PIPE AND FITTINGS ARE COATED WITH CORROSION PROOF EPOXY PAINT (FURNISHED AND APPLIED BY OTHERS)

ANY DUCTWORK/CONDUIT NOT SHOWN MEET THE FOLLOWING CRITERIA:
 *18" OR GREATER FROM SPRINKLER DEFLECTOR
 *48" OR LESS IN WIDTH

PIPE AND SPRINKLER LOCATIONS TO BE COORDINATED WITH ALL OTHER TRADES AT THE JOB SITE BY THE FOREMAN AND THE DESIGNER SHALL BE NOTIFIED OF ANY CHANGES PRIOR TO INSTALLATION OF WORK.

WATER DATA

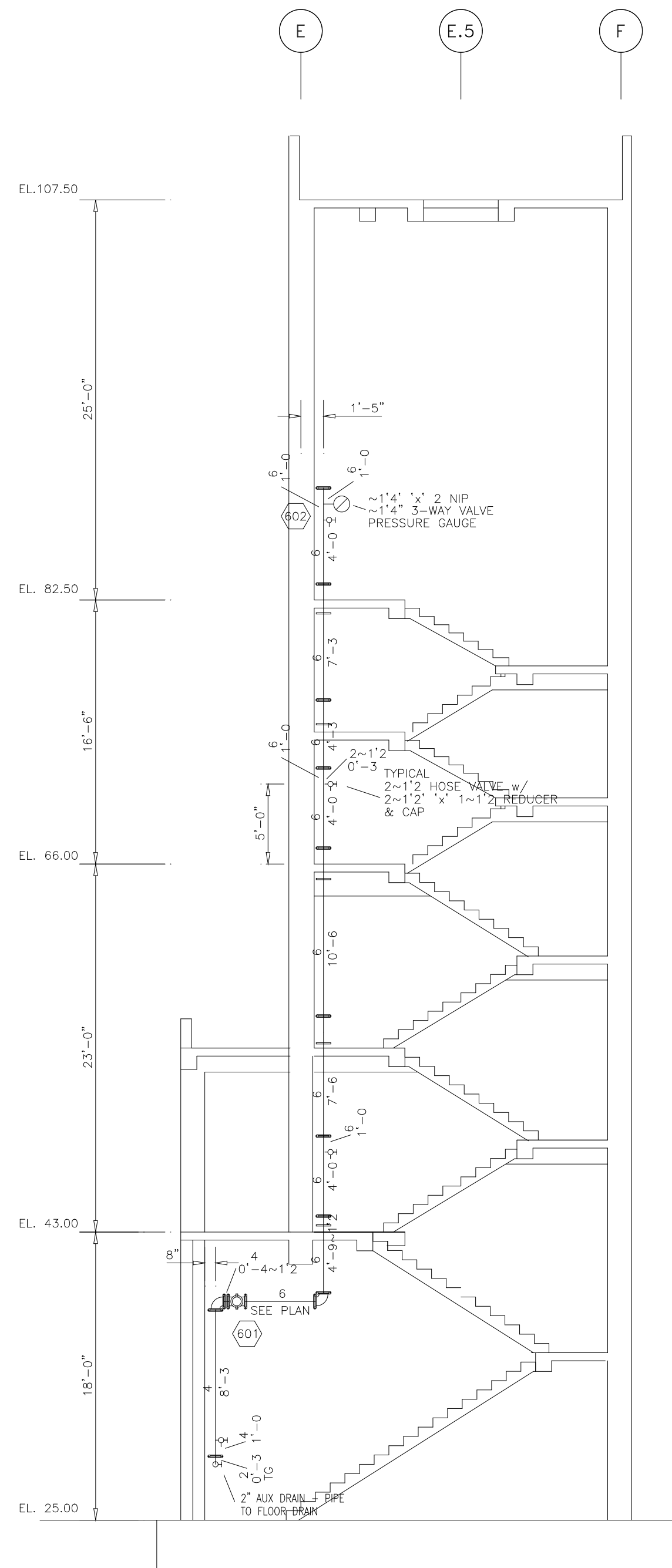
STATIC PSI 92 RESIDUAL PSI 80 @ 2788 GPM FLOWING
 MAIN SIZE & TYPE 12" DUCTILE IRON DEAD END CIRCULATING
 TEST TAKEN AT EADS STREET BY WATER DEPT DATE 6-13-97

	ANGLE IRON HEADER DETAIL		PIPE/UNISTRUT HEADERS		MATERIAL SPECIFICATION		LEGEND		NOTES				DESIGN CRITERIA				SPRINKLERS				REVISIONS			
	SIZE & LENGTH OF SLOT SLOT A SLOT B	HIR NO. REQ ANGLE IRON SIZE L-IRON LENGTH	HIR NO. REQ SIZE LENGTH	HIR NO. REQ SIZE LENGTH	SEE GENERAL NOTES	SEE GENERAL NOTES	SEE GENERAL NOTES	SEE GENERAL NOTES	HYDRAULIC REFERENCE POINT FINISH FLOOR TO E OF PIPE TOP OF STEEL TO E OF PIPE SHOT GUN RISER OR STANDPIPE ALARM VALVE RISER BUTTERFLY VALVE DISA V. VALVE GLOBE VALVE PIPE HANGER (TYPE & ROD LETH NOTED ON PLAN) WATER FLOW SWITCH ELECTRIC BELL WATER MOTOR ALARM (ZING) FIRE DEPT. CONNECTION	BY WSC BY OTHERS	CITY CONNECTION PUMP OR EQUIPMENT PADS VALVE PIT CONSTRUCTION ELECTRIC POWER WIRING ELECTRIC CONTROL WIRING ELECTRIC ALARM WIRING	PAINTING OF PIPE AIR SUPPLY TRENCHING & BACKFILLING HEISTING OF MATERIALS SETTING OF SLEEVES CUT/PATCH CONC. OR PAVING	HEADS CENTER OF CEILING TILES? YES: X NO: _____ HOSE VALVE THREADS: SYS./ZONE NO. AREA MAX SPACING PIPE SIZING REMOTE AREA HOSE DEMAND REQUIRED AT	SYMBOL QUAN MAKE MODEL SIZE TEMP FINISH POSITION DT OR PLATE	NO. DATE BY DESCRIPTION 1 11/11/96 HED COORDINATION 2 11/27/96 HED ISSUED FOR APPROVAL 3 04/16/97 HED REVISED PER REVIEW 4 07/11/97 HED REVISED PER CODE OFFICIAL 5 09/10/97 HED REVISED PER CODE OFFICIAL 6 10/29/97 HED DELETE PREACTION SYSTEMS 7 02/12/99 HED CORRECT SITE PLAN SCALE									

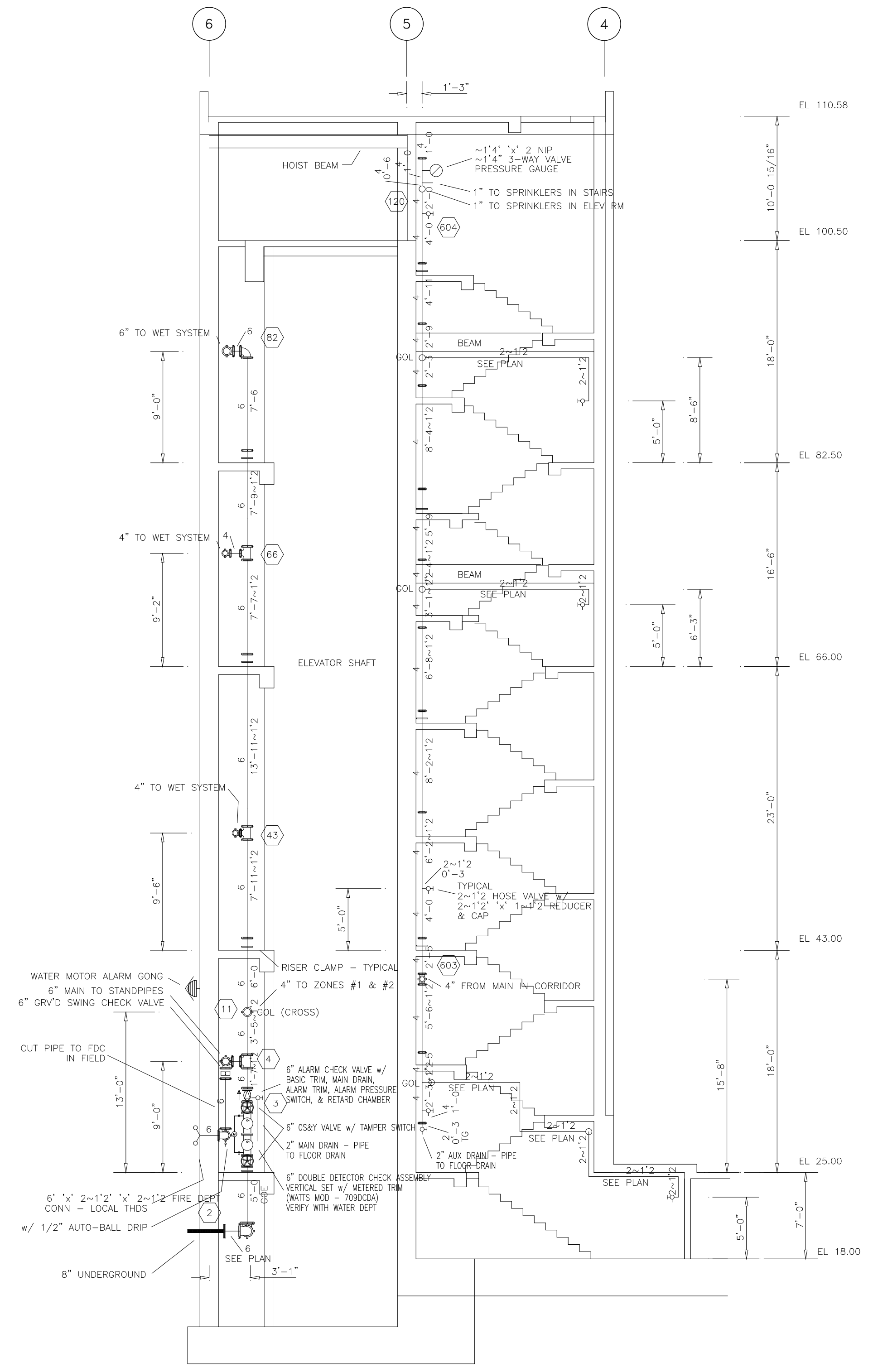
PROJECT: WATER POLLUTION CONTROL PLANT SOLIDS PROCESSING PLANT ARLINGTON COUNTY, VA.

DATE: 10-22-96
 DRAWN BY: DAVIS HEAVY CONSTRUCTION CO
 CHECKED BY: HED
 SCALE: AS NOTED
 SHEET: 136 OF 199
 DRAWING NUMBER: P-210

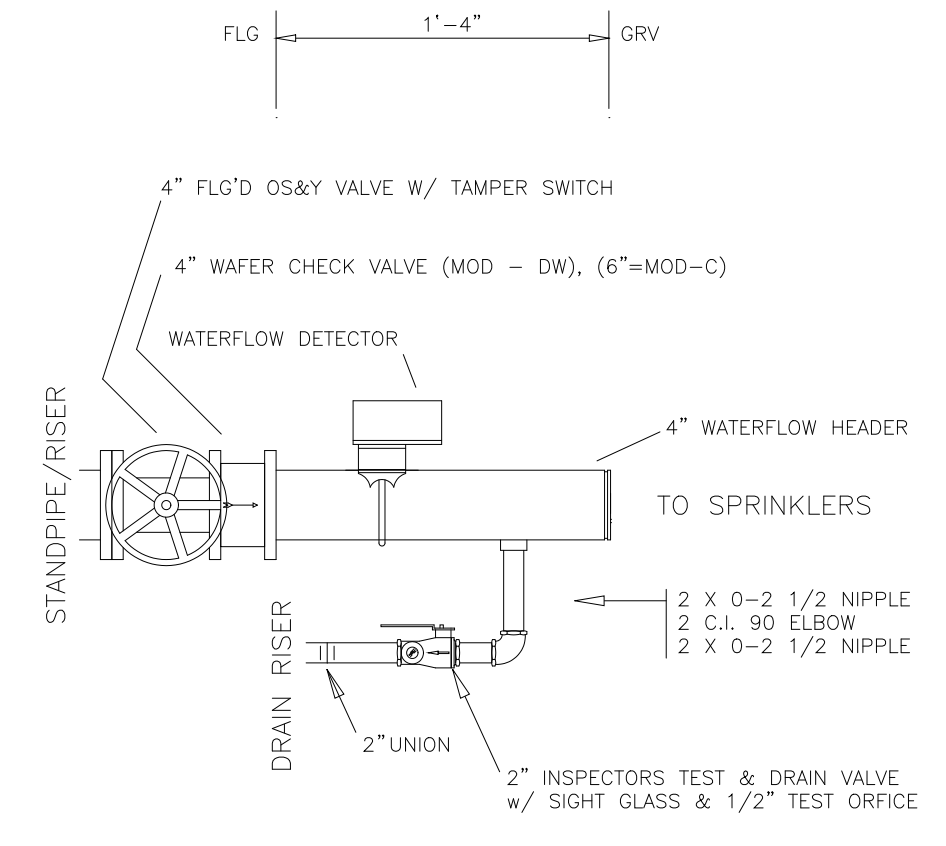
WORSAM SPRINKLER CO., INC.
 10830 GOLFBRIDGE RD.
 SUITE 300
 ANNAPOLIS JUNCTION, MD 20701 (410) 792-9265



STAIR NO. 2

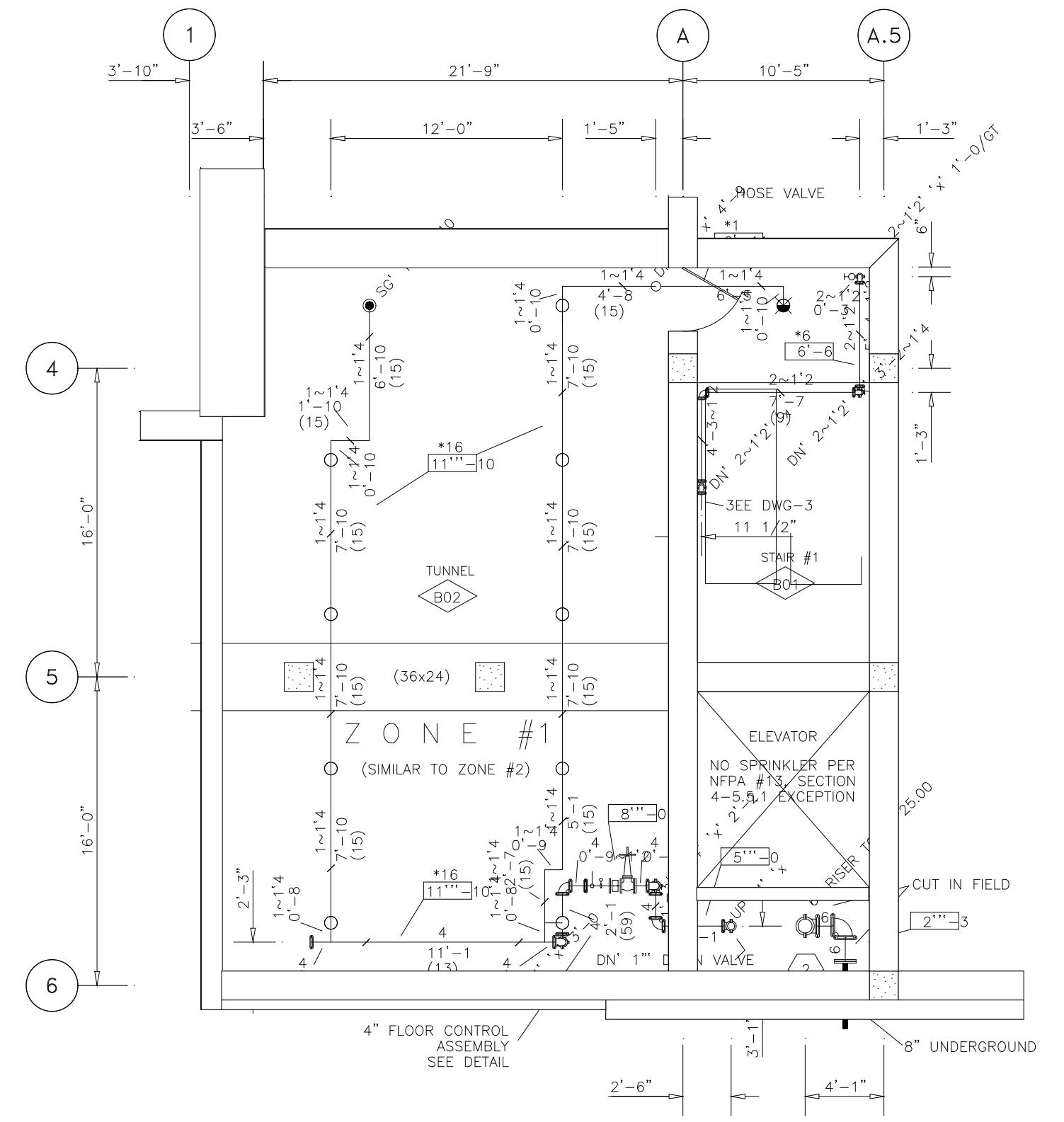


STAIR NO. 1



SECTIONAL FLOOR CONTROL - (TYPICAL)
NO SCALE

NOTE: PIPE DRAIN RISER TO FLOOR DRAIN



TOP OF BEAMS ARE 14\"/>

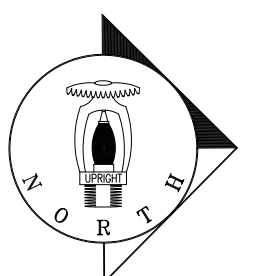
PARTIAL PLAN AT 18.00

ALL HANGERS ARE #6 CONCRETE EXPANSION CASE UNLESS OTHERWISE NOTED

ROOM SCHEDULE

NO.	OCCUPANCY	CEILING TYPE	HGT.
B01	STAIR #1	CONC.	VARIABLE
B02	TUNNEL	CONC.	13'-0"

PIPE AND SPRINKLER LOCATIONS TO BE COORDINATED WITH ALL OTHER TRADES AT THE JOB SITE BY THE FOREMAN AND THE DESIGNER SHALL BE NOTIFIED OF ANY CHANGES PRIOR TO INSTALLATION OF WORK.



ANGLE IRON HEADER DETAIL				PIPE/UNISTRUT HEADERS			
SIZE & LENGTH OF SLOT	SLOT A	SLOT B	HR NO.	NO. REQ.	ANGLE IRON SIZE	L-IRON LENGTH	HR NO.

MATERIAL SPECIFICATION	

LEGEND	

NOTES	

DESIGN CRITERIA	

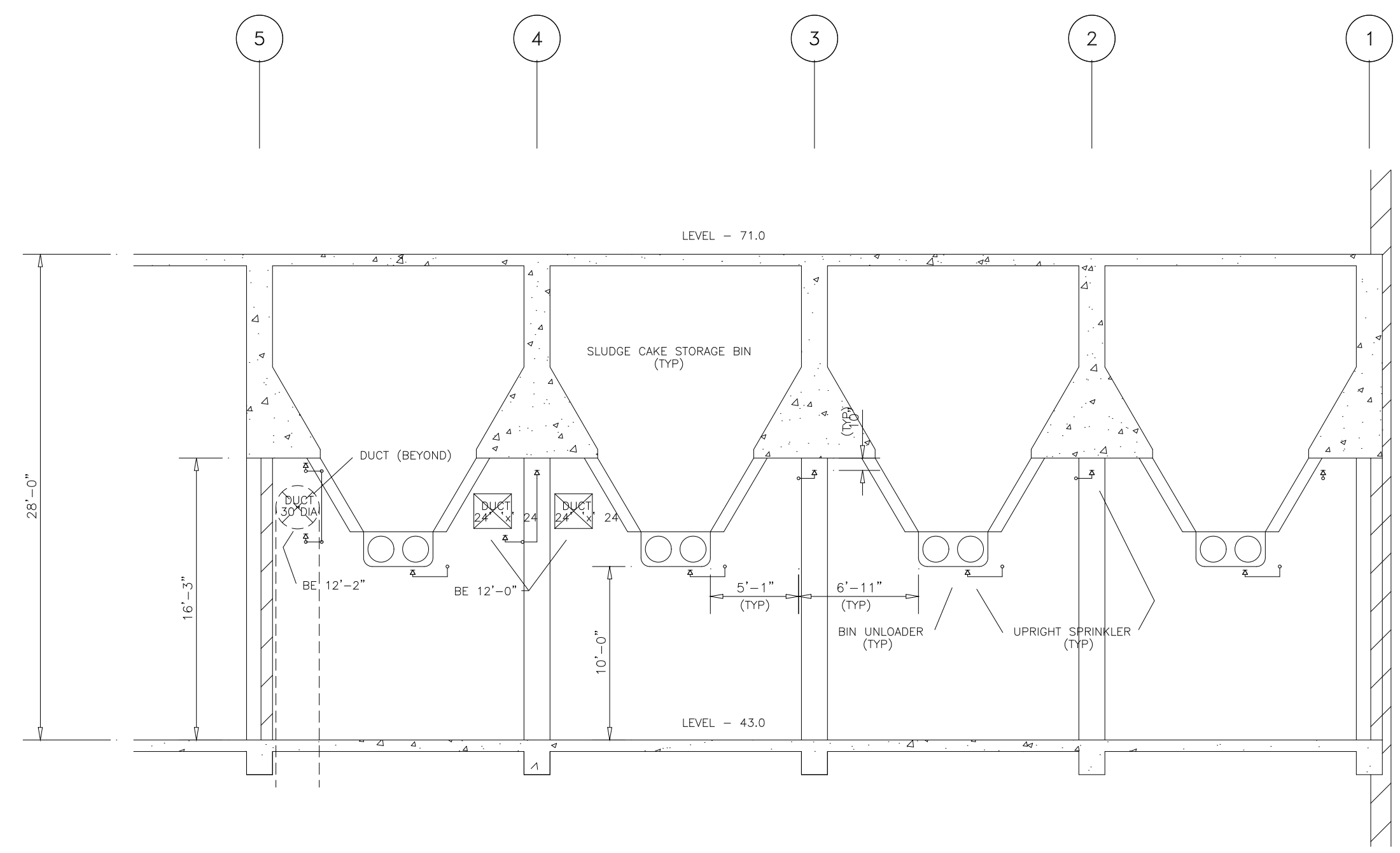
SPRINKLERS	

REVISIONS	

PROJECT: WATER POLLUTION CONTROL PLANT
SOLIDS PROCESSING PLANT
ARLINGTON COUNTY, VA.

DATE: 10-22-96
SCALE: 3/16"=1'-0"

WORSHAM SPRINKLER CO., INC.
10830 GOLFBRIDGE RD.
SUITE 300
ANNAPOLIS JUNCTION, MD 20701 (410) 792-9265



BUILDING SECTION - LEVEL 43.0

PIPE AND SPRINKLER LOCATIONS TO BE COORDINATED WITH ALL OTHER TRADES AT THE JOB SITE BY THE FOREMAN AND THE DESIGNER SHALL BE NOTIFIED OF ANY CHANGES PRIOR TO INSTALLATION OF WORK.

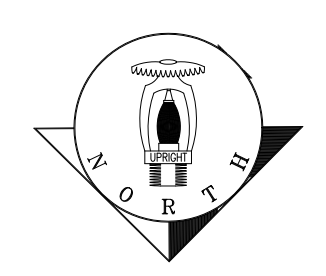
PROJECT: WATER POLLUTION CONTROL PLANT
SOLIDS PROCESSING PLANT
ARLINGTON COUNTY, VA.

DATE: 10-22-96
SCALE: 3/32"=1'-0"

WORSHAM SPRINKLER CO., INC.
10830 GOLFORD RD.
SUITE 300
MINNEAPOLIS JUNCTION, MO 20701 (410) 792-9265

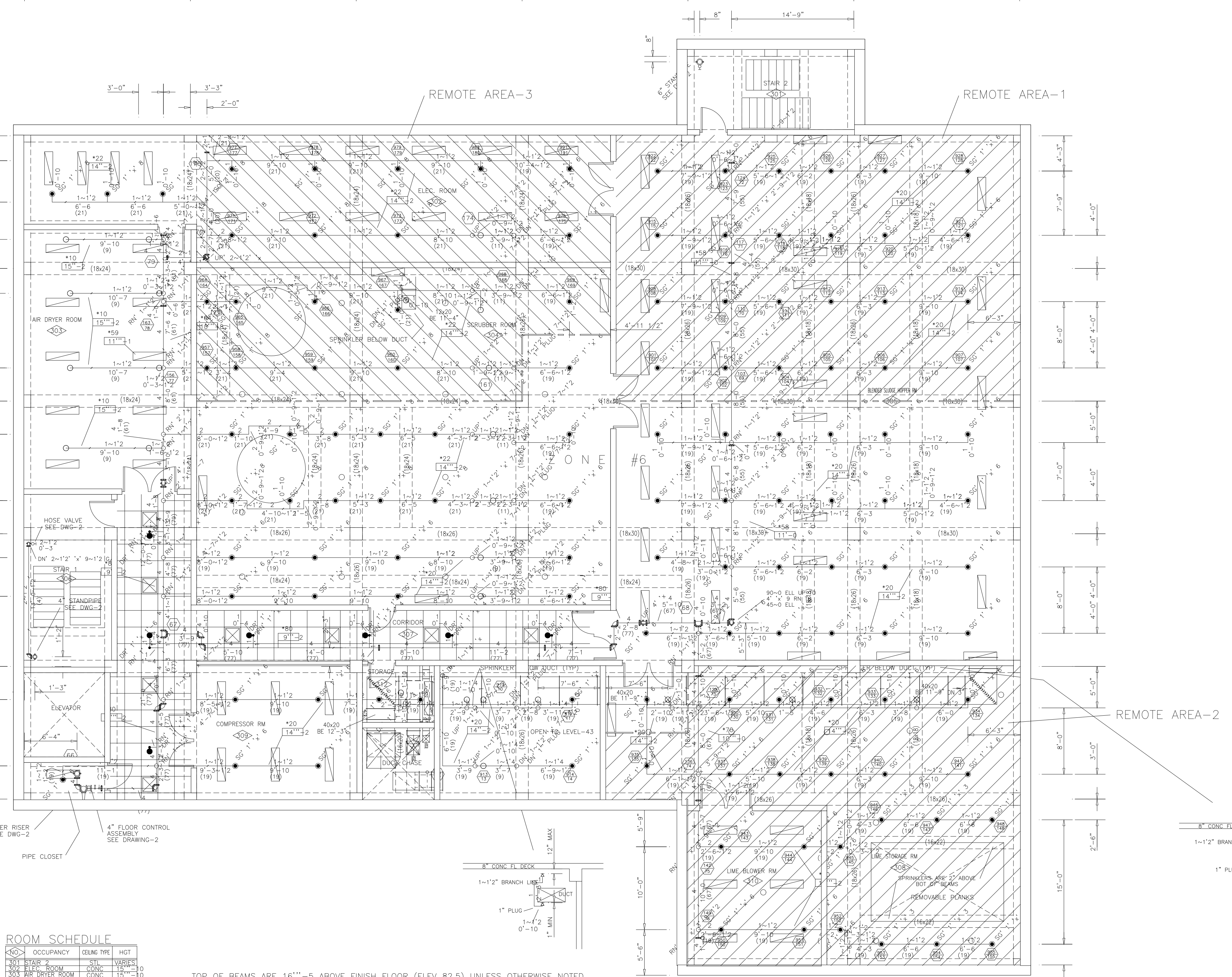
SHEET 139a OF 199 DRAWING NUMBER P-213a

ANGLE IRON HEADER DETAIL				PIPE/UNISTRUT HEADERS				MATERIAL SPECIFICATION		LEGEND		NOTES				DESIGN CRITERIA				SPRINKLERS				REVISIONS					
SIZE & LENGTH OF SLOT	SLOT A	SLOT B		HDR NO.	NO. REQ.	ANGLE IRON SIZE	L-IRON LENGTH	HR NO.	NO. REQ.	SIZE	LENGTH	BY WSC	BY OTHERS	BY WSC	BY OTHERS	SYMBOL	QUAN.	MAKE	MODEL	SIZE	TEMP.	FINISH	POSITION	BT	PLATE	NO.	DATE	BY	DESCRIPTION
SEE GENERAL NOTES												CITY CONNECTION				PAINTING OF PIPE				HEADS CENTER OF CEILING TILES? YES: <input type="checkbox"/> X NO: <input type="checkbox"/>				COORDINATION					
SEE GENERAL NOTES												PUMP OR EQUIPMENT PADS				AIR SUPPLY				HOSE VALVE THREADS:				ISSUED FOR APPROVAL					
SEE GENERAL NOTES												VALVE PIT CONSTRUCTION				TRENCHING & BACKFILLING				SYS./ZONE NO.				REVISED PER REVIEW					
SEE GENERAL NOTES												ELECTRIC POWER WIRING				HEAVING OF MATERIALS				AREA				REVISED PER CODE OFFICIAL					
SEE GENERAL NOTES												ELECTRIC CONTROL WIRING				SETTING OF SLEEVES				MAX SPACING				REVISED PER CODE OFFICIAL					
SEE GENERAL NOTES												ELECTRIC ALARM WIRING				CUT/PATCH CONC. OR PAVING				PIPE SIZING				REVISED PER CODE OFFICIAL					
SEE GENERAL NOTES																				REMOVE AREA				REVISED PER CODE OFFICIAL					
SEE GENERAL NOTES																				HOSE DEMAND				REVISED PER CODE OFFICIAL					
SEE GENERAL NOTES																				INSIDE				REVISED PER CODE OFFICIAL					
SEE GENERAL NOTES																				OUTSIDE				REVISED PER CODE OFFICIAL					
SEE GENERAL NOTES																				REQUIRED AT				REVISED PER CODE OFFICIAL					
SEE GENERAL NOTES																				G.P.M./P.S.I.				REVISED PER CODE OFFICIAL					
SEE GENERAL NOTES																				TOTAL ON CONTRACT				REVISED PER CODE OFFICIAL					



A 20'-0" B 20'-0" C 20'-0" D 20'-0" E 20'-0" F 20'-0" G

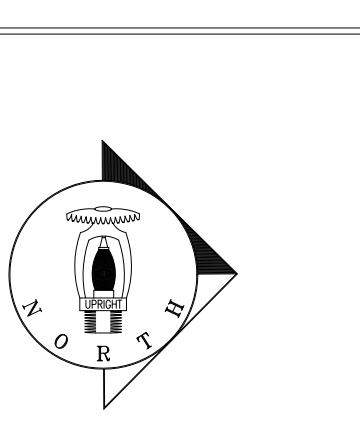
10'-4"
16'-0"
16'-0"
16'-0"
16'-0"
16'-0"
20'-0"
7



ROOM SCHEDULE

NO.	OCCUPANCY	CEILING TYPE	HGT.
301	STAIR 2	CSL	VARIABLES
302	ELEC. ROOM	CONC.	15'-0"
303	AIR DRYER ROOM	CONC.	12'-0"
304	SCRUBBER ROOM	CONC.	15'-0"
305	BRUSH WASH RM	CONC.	15'-0"
306	STAIR 1	CONC.	15'-0"
307	CORRIDOR	ACT	8'-6"
308	LIME BLOWER RM	CONC.	12'-0"
309	COMPRESSOR RM	CONC.	12'-0"
310	LIME BLOWER RM	CONC.	12'-0"
311	STORAGE	CONC.	15'-0"
312	STORAGE	CONC.	15'-0"

TOP OF BEAMS ARE 16"±5 ABOVE FINISH FLOOR (ELEV 82.5) UNLESS OTHERWISE NOTED
 ALL HANGERS ARE #6 CONCRETE EXPANSION CASE UNLESS OTHERWISE NOTED
 ADD SPRINKLERS AS REQUIRED FOR ALL DUCTWORK/CONDUIT OBSTRUCTIONS NOT SHOWN AS DEFINED BY NFPA #13



ANGLE IRON HEADER DETAIL		PIPE/UNISTRUT HEADERS		MATERIAL SPECIFICATION	
SIZE & LENGTH OF SLOT	SIZE	SIZE	LENGTH	SEE GENERAL NOTES DWG-1	SEE GENERAL NOTES DWG-1
ATTACH ABOVE HOR'S WITH	ATTACH ABOVE HOR'S WITH	ATTACH WITH		SEE GENERAL NOTES DWG-1	SEE GENERAL NOTES DWG-1

LEGEND

- HYDRAULIC REFERENCE POINT
- FINISH FLOOR TO E OF PIPE
- TOP OF STEEL TO E OF PIPE
- SHOT GUN RISER OR STANDPIPE
- ALARM VALVE RISER
- BUZZER VALVE
- ISA V. VALVE
- GLUE VALVE
- PIPE HANGER (TYPE & RIB LHM NOTED ON PLAN)
- WATER FLOW SWITCH
- ELECTRIC BELL
- WATER MOTOR ALARM (ZONG)
- PIPE REPT. CONNECTION

NOTES

BY	DATE	DESCRIPTION
BY WSC		CITY CONNECTION
BY WSC		PUMP OR EQUIPMENT PADS
BY WSC		VALVE PIT CONSTRUCTION
BY WSC		ELECTRIC POWER WIRING
BY WSC		ELECTRIC CONTROL WIRING
BY WSC		ELECTRIC ALARM WIRING

DESIGN CRITERIA

SYST./ZONE	AREA	MAX SPACING	PIPE SIZING	EMPR	REMOTE AREA	HOSE DEMAND	INSIDE	OUTSIDE	REQUIRED AT
AREA-1	10290	VARY	CRD-2	.20	1500	100	150	150	788.02/83.04
AREA-2	10290	VARY	CRD-2	.20	1500	100	150	150	818.94/90.65
AREA-3	10290	VARY	CRD-2	.20	1500	100	150	150	750.72/79.49

SPRINKLERS

SYMBOL	QUAN	MAKE	MODEL	SIZE	TEMP	FINISH	POSITION	PLATE	NO.	DATE	BY	DESCRIPTION
⊖	23	RELIABLE	G	1/2	286	BRASS	SSU	SPRING	1	11/11/96	HED	COORDINATION
●	125	RELIABLE	G	1/2	286	BRASS	SSU	SPRING	2	11/27/96	HED	ISSUED FOR APPROVAL
⊗	3	RELIABLE	G	1/2	212	CHROME	SSP	ROSSSD	3	04/16/97	HED	REVISED PER REVIEW
⊗	3	RELIABLE	G	1/2	212	CHROME	SSP	ROSSSD	4	07/11/97	HED	REVISED PER CODE OFFICIAL
⊗	5	RELIABLE	G	1/2	212	CHROME	SSP	ROSSSD	5	09/10/97	HED	REVISED PER CODE OFFICIAL
⊗	6	RELIABLE	G	1/2	212	CHROME	SSP	ROSSSD	6	09/10/97	HED	ADD PIPE CUTS
⊗	7	RELIABLE	G	1/2	212	CHROME	SSP	ROSSSD	7	02/29/97	HED	DELETE PREACTION SYSTEM
⊗	8	RELIABLE	G	1/2	212	CHROME	SSP	ROSSSD	8	02/29/97	HED	ADD REMOTE AREAS

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	11/11/96	HED	COORDINATION
2	11/27/96	HED	ISSUED FOR APPROVAL
3	04/16/97	HED	REVISED PER REVIEW
4	07/11/97	HED	REVISED PER CODE OFFICIAL
5	09/10/97	HED	REVISED PER CODE OFFICIAL
6	09/10/97	HED	ADD PIPE CUTS
7	02/29/97	HED	DELETE PREACTION SYSTEM
8	02/29/97	HED	ADD REMOTE AREAS

PIPE AND SPRINKLER LOCATIONS TO BE COORDINATED WITH ALL OTHER TRADES AT THE JOB SITE BY THE FOREMAN AND THE DESIGNER SHALL BE NOTIFIED OF ANY CHANGES PRIOR TO INSTALLATION OF WORK.

PROJECT: WATER POLLUTION CONTROL PLANT SOLIDS PROCESSING PLANT ARLINGTON COUNTY, VA.

CONTRACTOR: DAVIS HEAVY CONSTRUCTION CO. 5 OF 6

DATE: 10-22-96

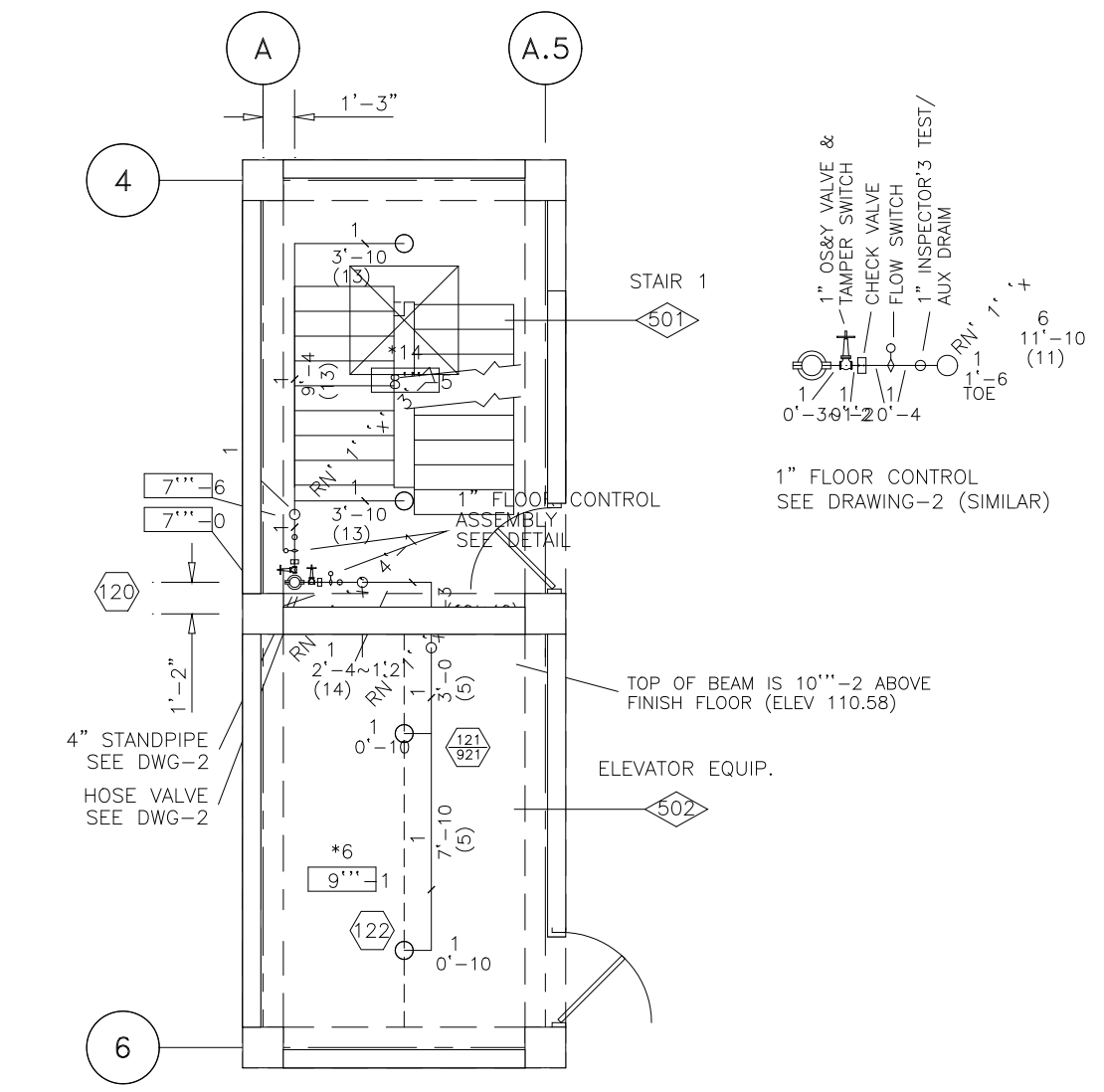
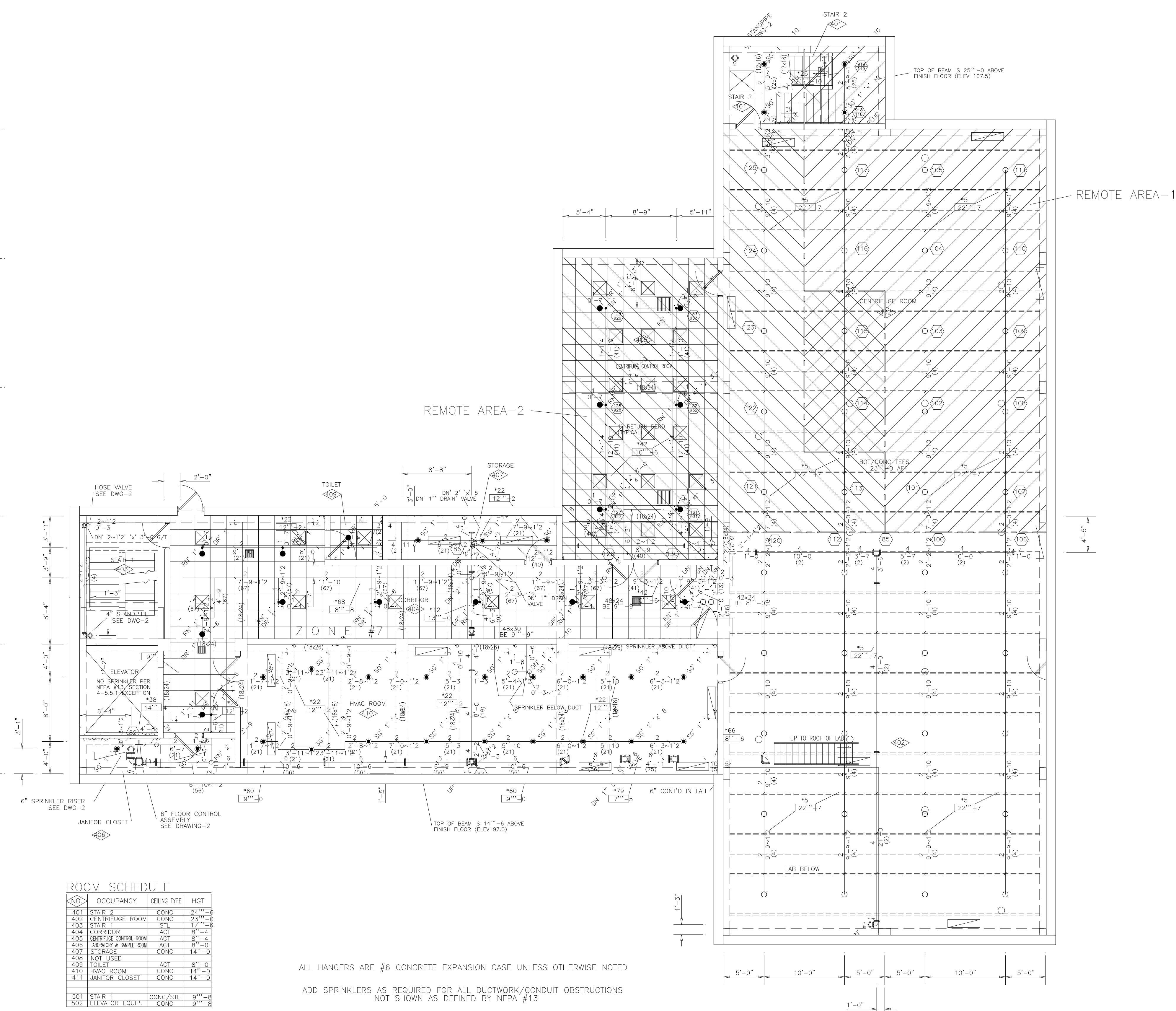
SCALE: 3/16"=1'-0"

WORSHAM SPRINKLER CO., INC. 10830 CALIFORNIA RD. SUITE 300 ANNAPOLIS JUNCTION, MD 20701 (410) 792-3265

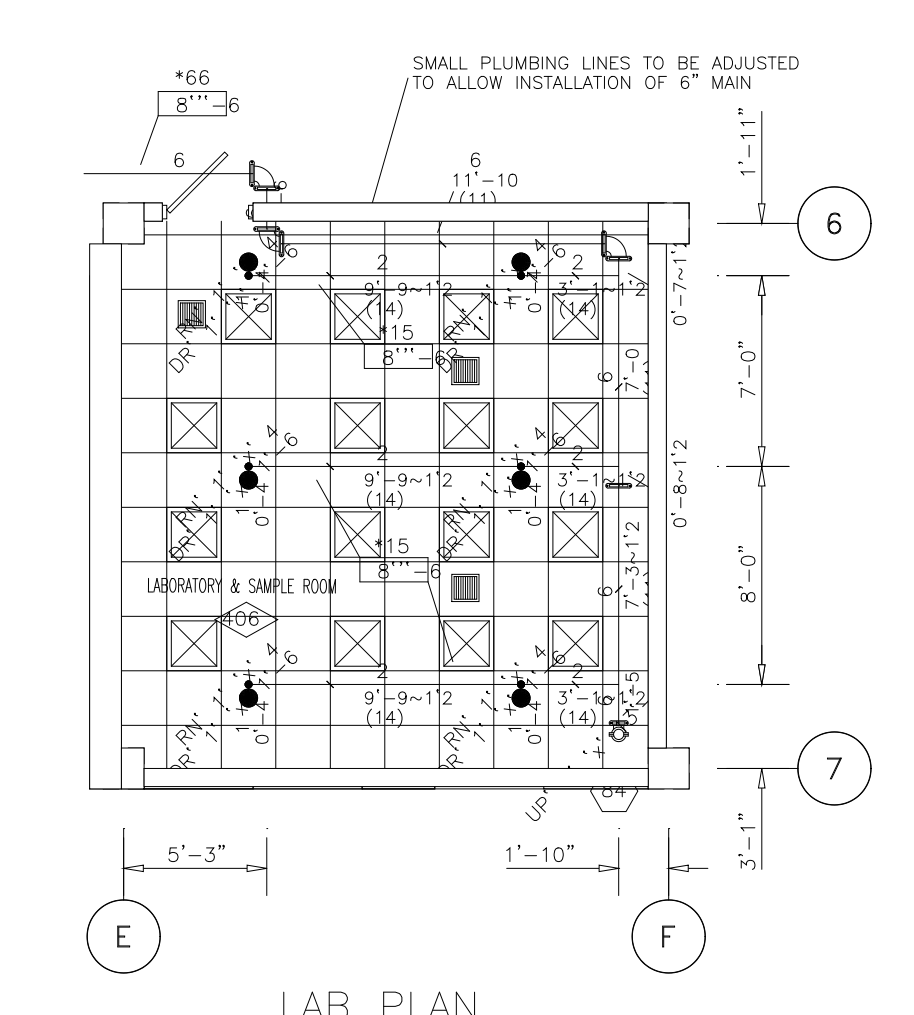
SHEET 139b OF 199 DRAWING NUMBER P-213b

A 20'-0" B 20'-0" C 20'-0" D 20'-0" E 20'-0" F 20'-0" G

1 10'-4"
2 16'-0"
3 16'-0"
4 16'-0"
5 16'-0"
6 16'-0"
7 20'-0"



PLAN - EL 100.50



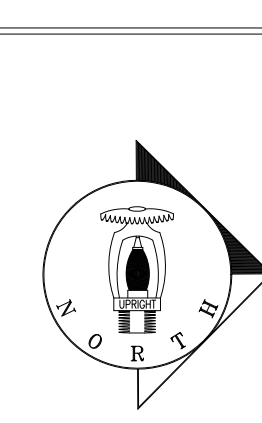
LAB PLAN

ROOM SCHEDULE

NO.	OCCUPANCY	CEILING TYPE	HGT
401	STAIR 2	CONC	23'-0"
402	CENTRIFUGE ROOM	CONC	23'-0"
403	STAIR 1	STL	17'-0"
404	CORRIDOR	ACT	8'-0"
405	CENTRIFUGE CONTROL ROOM	ACT	8'-4"
406	LABORATORY & SAMPLE ROOM	ACT	8'-0"
407	STORAGE	CONC	14'-0"
408	NOT USED		
409	TOILET	ACT	8'-0"
410	HVAC ROOM	CONC	14'-0"
411	JANITOR CLOSET	CONC	14'-0"
501	STAIR 1	CONC/STL	9'-8"
502	ELEVATOR EQUIP.	CONC	9'-8"

ALL HANGERS ARE #6 CONCRETE EXPANSION CASE UNLESS OTHERWISE NOTED
ADD SPRINKLERS AS REQUIRED FOR ALL DUCTWORK/CONDUIT OBSTRUCTIONS NOT SHOWN AS DEFINED BY NFPA #13

PIPE AND SPRINKLER LOCATIONS TO BE COORDINATED WITH ALL OTHER TRADES AT THE JOB SITE BY THE FOREMAN AND THE DESIGNER SHALL BE NOTIFIED OF ANY CHANGES PRIOR TO INSTALLATION OF WORK.



ANGLE IRON HEADER DETAIL				PIPE/UNISTRUT HEADERS			
SIZE & LENGTH OF SLOT	SLOT A	SLOT B	HDR NO.	ANGLE IRON SIZE	L-IRON LENGTH	HP NO.	PIPE SIZE
ATTACH ABOVE HDR'S WITH				ATTACH ABOVE HDR'S WITH			ATTACH WITH

MATERIAL SPECIFICATION	LEGEND
SEE GENERAL NOTES DWG-1	HYDRAULIC REFERENCE POINT
SEE GENERAL NOTES DWG-1	FINISH FLOOR TO E OF PIPE
SEE GENERAL NOTES DWG-1	TOP OF STEEL TO E OF PIPE
SEE GENERAL NOTES DWG-1	SHOT GUN RISER OR STANDPIPE
SEE GENERAL NOTES DWG-1	ALARM VALVE RISER
SEE GENERAL NOTES DWG-1	BUZZER VALVE
SEE GENERAL NOTES DWG-1	ISA V. VALVE
SEE GENERAL NOTES DWG-1	GLUE VALVE
SEE GENERAL NOTES DWG-1	PIPE HANGER (TYPE & RED LETH NOTED ON PLAN)
SEE GENERAL NOTES DWG-1	WATER FLOW SWITCH
SEE GENERAL NOTES DWG-1	ELECTRIC BELL
SEE GENERAL NOTES DWG-1	WATER MOTOR ALARM (ZING)
SEE GENERAL NOTES DWG-1	FIRE DEPT. CONNECTION

NOTES
CITY CONNECTION
PUMP OR EQUIPMENT PADS
VALVE PIT CONSTRUCTION
ELECTRIC POWER WIRING
ELECTRIC CONTROL WIRING
ELECTRIC ALARM WIRING

DESIGN CRITERIA									
HEADS CENTER OF CEILING TILES? YES: X NO: _____									
HOSE VALVE THREADS: _____									
SYS./ZONE NO.	AREA	MAX SPACING	PIPE SIZING	ENR	REMOTE AREA	HOSE DEMAND	INSIDE	OUTSIDE	REQUIRED AT
AREA-1	7410	VARY	ORD-2	.20	1500	100	150		588.70/64.06
AREA-2	732	VARY	ORD-2	.20	1500	100	150		642.70/74.99
ELEV MACH RM	168	84	ORD-1	.15	168	100	150		280.11/60.83

SPRINKLERS									
SYMBOL	QUAN	MAKE	MODEL	SIZE	TEMP	FINISH	POSITION	BT	PLATE
⊖	55	RELIABLE	G	1/2	286	BRASS	SSU	SPRIG	2
●	19	RELIABLE	G	1/2	286	BRASS	SSU	SPRIG	3
●	22	RELIABLE	G	1/2	212	CHROME	SSP	RECESSED	3

REVISIONS									
NO.	DATE	BY	DESCRIPTION						
1	11/11/96	HED	COORDINATION						
2	11/27/96	HED	ISSUED FOR APPROVAL						
3	04/11/97	HED	REVISED PER REVIEW						
4	07/11/97	HED	REVISED PER CODE OFFICIAL						
5	09/30/97	HED	REVISED PER CODE OFFICIAL						
6	09/30/97	HED	ADD PIPE CUTS						
7	10/29/97	HED	DELETE REACTION SYSTEM						
8	02/12/98	HED	ADD REMOTE AREA						
9									

PROJECT: WATER POLLUTION CONTROL PLANT SOLIDS PROCESSING PLANT ARLINGTON COUNTY, VA.

DATE: 10-22-96

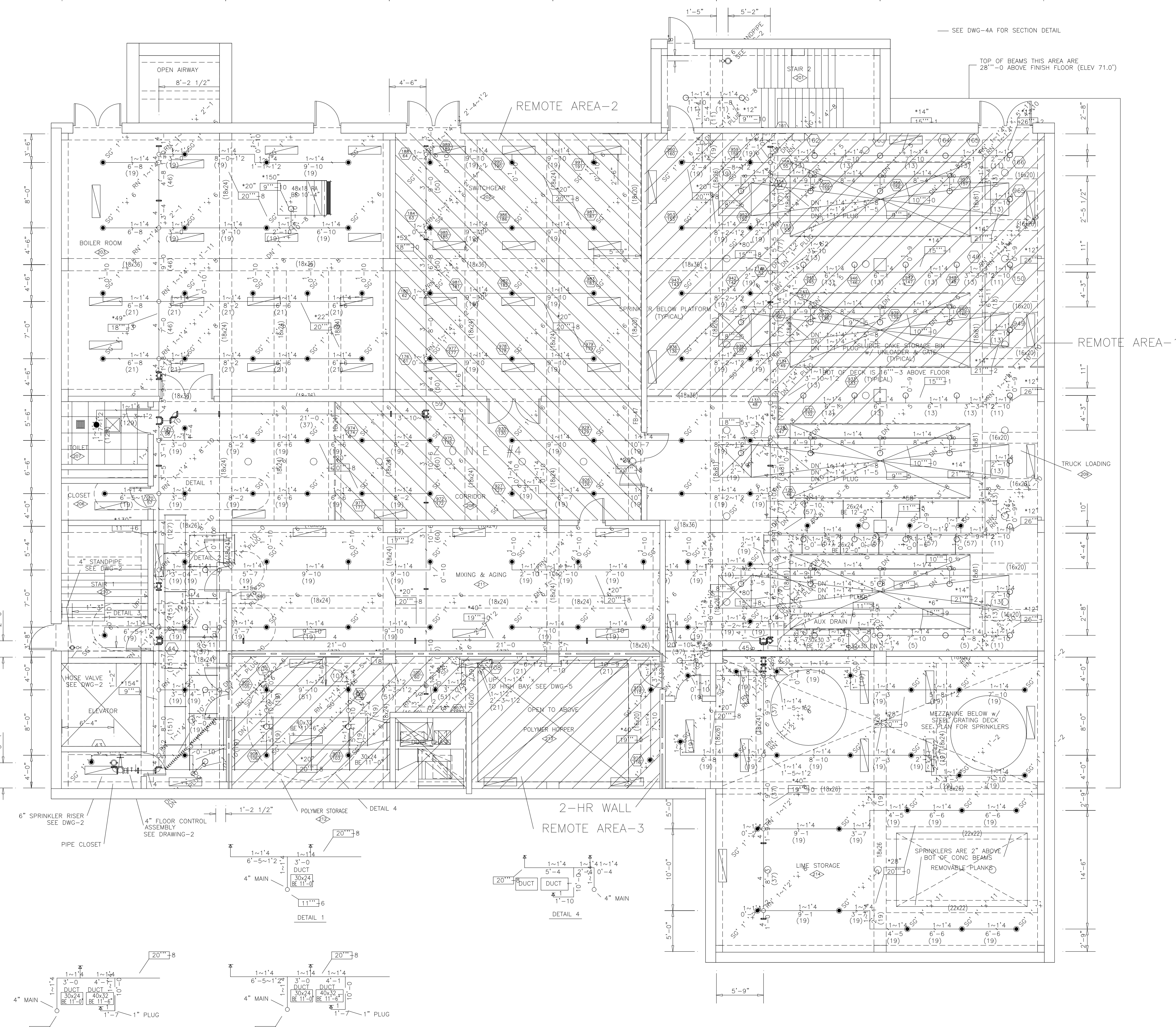
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WORSHAM SPRINKLER CO., INC. 10830 CALIFORNIA RD. ANNAPOLIS JUNCTION, MD 20701 (410) 792-9265

SHEET 139c OF 199 DRAWING NUMBER P-213c

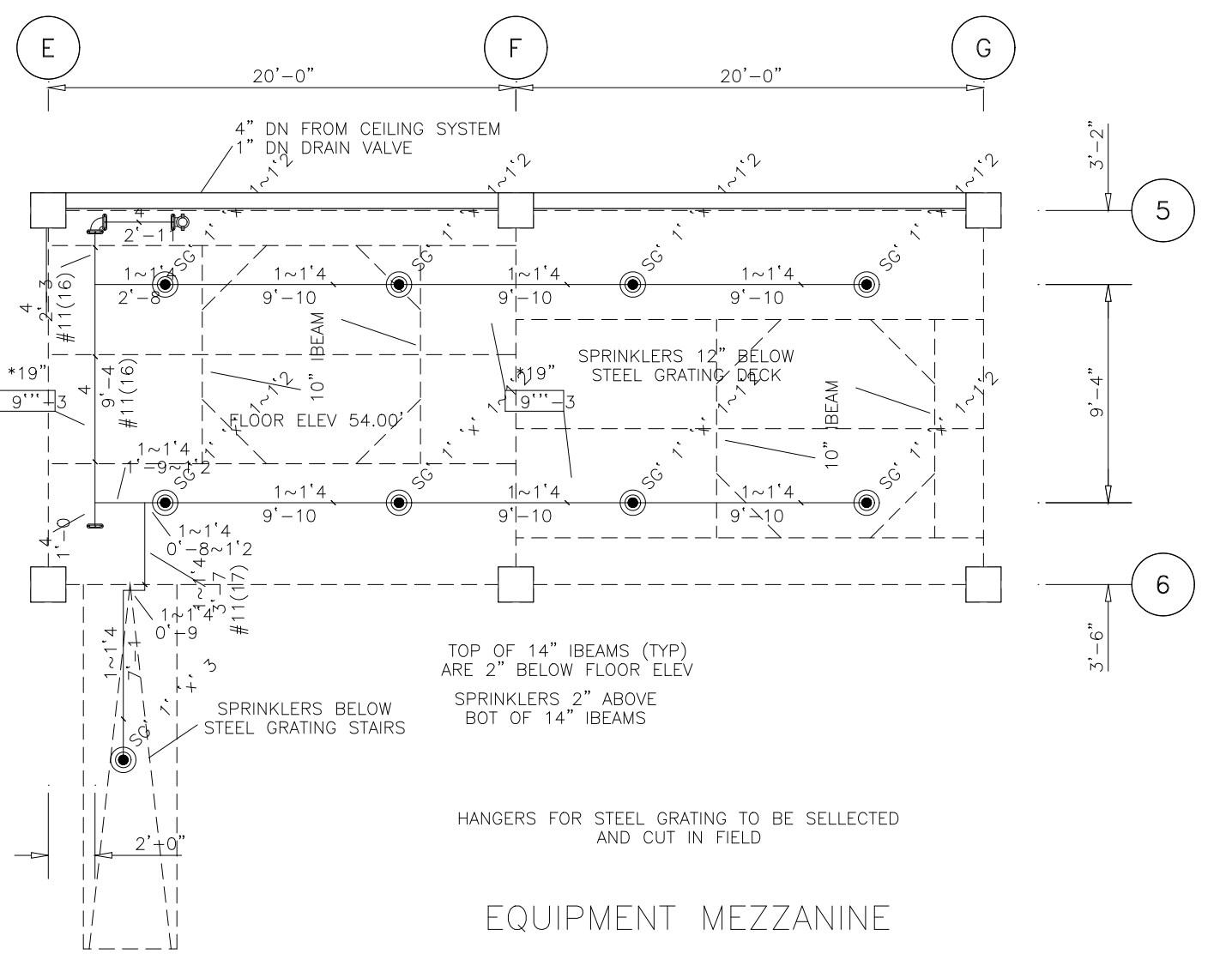
A 20'-0" B 20'-0" C 20'-0" D 20'-0" E 20'-0" F 20'-0" G

1 10'-4"
2 16'-0"
3 16'-0"
4 16'-0"
5 16'-0"
6 16'-0"
7 20'-0"



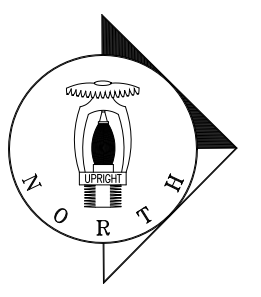
ROOM SCHEDULE

NO.	OCCUPANCY	CEILING TYPE	HGT
201	STAIR	STL	VARIES
202	SWITCHGEAR	CONC	22'-4"
203	BOILER ROOM	CONC	22'-4"
204	NOT USED		
205	NOT USED		
206	CLOSET	CONC	22'-4"
207	TOILET	CONC	22'-4"
208	CORRIDOR	CONC	22'-4"
209	TRUCK LOADING	CONC	VARIES
210	STAIR	STL	VARIES
211	MIXING & AGING	CONC	22'-4"
212	POLYMER STORAGE	CONC	22'-4"
213	POLYMER HOPPER	CONC	VARIES
214	LIME STORAGE	CONC	22'-4"
215	NOT USED		
216	NOT USED		



TOP OF BEAMS ARE 23'-0" ABOVE FINISH FLOOR (ELEV 43.0') UNLESS OTHERWISE NOTED
 ALL HANGERS ARE #6 CONCRETE EXPANSION CASE UNLESS OTHERWISE NOTED
 ADD SPRINKLERS AS REQUIRED FOR ALL DUCTWORK/CONDUIT OBSTRUCTIONS NOT SHOWN AS DEFINED BY NFPA #13

PIPE AND SPRINKLER LOCATIONS TO BE COORDINATED WITH ALL OTHER TRADES AT THE JOB SITE BY THE FOREMAN AND THE DESIGNER SHALL BE NOTIFIED OF ANY CHANGES PRIOR TO INSTALLATION OF WORK.



ANGLE IRON HEADER DETAIL		PIPE/UNISTRUT HEADERS	
SIZE & LENGTH OF SLOT	HDR NO. REQ.	ANGLE IRON SIZE	L-IRON LENGTH
SLOT A			
SLOT B			
ATTACH ABOVE HDR'S WITH		ATTACH ABOVE HDR'S WITH	

MATERIAL SPECIFICATION	LEGEND
SEE GENERAL NOTES DWG-1	HYDRAULIC REFERENCE POINT
SEE GENERAL NOTES DWG-1	FINISH FLOOR TO E OF PIPE
SEE GENERAL NOTES DWG-1	TOP OF STEEL TO E OF PIPE
SEE GENERAL NOTES DWG-1	SHOT GUN RISER OR STANDPIPE
SEE GENERAL NOTES DWG-1	ALARM VALVE RISER
SEE GENERAL NOTES DWG-1	BUZZERLY VALVE
SEE GENERAL NOTES DWG-1	OSA V. VALVE
SEE GENERAL NOTES DWG-1	GLUE VALVE
SEE GENERAL NOTES DWG-1	PIPE HANGER (TYPE & RED LETH NOTED ON PLAN)
SEE GENERAL NOTES DWG-1	WATER FLOW SWITCH
SEE GENERAL NOTES DWG-1	ELECTRIC BELL
SEE GENERAL NOTES DWG-1	WATER MOTOR ALARM (ZONG)
SEE GENERAL NOTES DWG-1	PIPE DEPT. CONNECTION

NOTES		DESIGN CRITERIA	
BY WSC	BY OTHERS	HEADS CENTER OF CEILING TILES? YES: X NO: _____	HOSE VALVE THREADS: _____
CITY CONNECTION	PAINTING OF PIPE	SYS./ZONE	AREA
PUMP OR EQUIPMENT PADS	AIR SUPPLY	MAX SPACING	PIPE SIZING
VALVE PIT CONSTRUCTION	TRENCHING & BACKFILLING	HOSE DEMAND	REQUIRED AT
ELECTRIC POWER WIRING	HEATING OF MATERIALS	AREA-1	9490 VARY ORD-1 1:15 1500 100 150 898.03/83.28
ELECTRIC CONTROL WIRING	SETTING OF SLEEVES	AREA-2	9490 VARY ORD-1 1:15 1500 100 150 578.37/39.85
ELECTRIC ALARM WIRING	CUT/PATCH CONC. OR PAVING	AREA-3	800 VARY ORD-1 1:15 800 100 150 497.09/67.30

SPRINKLERS		REVISIONS	
SYMBOL	QUAN	NO.	DATE
54	RELIABLE	1	11/11/96
110	RELIABLE	2	11/27/96
8	RELIABLE	3	04/16/97
		4	07/11/97
		5	09/10/97
		6	09/30/97
		7	10/29/97
		8	01/12/98
		9	

PROJECT: WATER POLLUTION CONTROL PLANT SOLIDS PROCESSING PLANT ARLINGTON COUNTY, VA.

DATE: 10-22-96

SCALE: 3/16"=1'-0"

WORSHAM SPRINKLER CO., INC. 10830 CALIFORNIA RD. SUITE 300 ANNAPOLIS JUNCTION, MD 20701 (410) 792-3265

SHEET 139 OF 199 DRAWING NUMBER P-213

GENERAL NOTES
(APPLICABLE TO ALL DRAWINGS)

- ALL POWER AND LIGHTING CONDUITS ARE SHOWN DIAGRAMMATICALLY EXACT RUNS SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR IN THE FIELD, EXCEPT WHERE SPECIFICALLY DIMENSIONED ON PLANS.
- ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING WALLS AND BEAMS EXCEPT WHERE OTHERWISE SHOWN ON PLAN.
- EXPOSED CONDUIT SHALL BE SUPPORTED FROM WALLS AND/OR CEILING BY APPROVED HANGERS OF ANGLE OR CHANNEL CONSTRUCTION.
- EXPANSION FITTINGS OF THE APPROVED TYPE SHALL BE FURNISHED AND INSTALLED WHERE CONDUITS EXPOSED OR CONCEALED PASS THROUGH STRUCTURAL JOINTS. OZ/GEDNEY TYPE "DXX" FOR EXPOSED AND TYPE "DX" FOR CONCEALED OR EQUAL. SEE STRUCTURAL DRAWINGS FOR LOCATION OF STRUCTURAL JOINTS.
- EXACT CONDUIT STUB-UP LOCATIONS ARE TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR BASED ON THE CERTIFIED MANUFACTURER'S DRAWINGS OF THE RESPECTIVE EQUIPMENT. CONDUITS SHALL BE INSTALLED TO AGREE WITH THE EQUIPMENT FURNISHED.
- CONDUIT FOR POWER AND 120V SYSTEM PASSING THROUGH CONCRETE FLOORS OR WALLS BELOW GRADE SHALL BE INSTALLED WITH APPROVED CONDUIT SEALING FITTINGS. OZ/GEDNEY TYPE "WSK" OR EQUAL.
- ALL 3 PHASE MOTOR STARTERS SHALL BE NEMA SIZE 1 EXCEPT AS NOTED.
- IN GENERAL THE FOLLOWING MOUNTING DIMENSIONS ABOVE FINISHED FLOOR SHALL BE ADHERED TO EXCEPT AS NOTED ON PLANS:
RECEPTACLES = 1' - 6"
AND MANUAL MOTOR STARTERS = 4' - 6"
- ALL PANELBOARD CIRCUIT BREAKERS SHALL BE RATED AT 20 AMPS UNLESS NOTED OTHERWISE.
- ALL POWER AND 120V CONDUITS SHALL BE 3/4" WITH 3 # 12 AWG. UNLESS NOTED OTHERWISE.
- ALL INSTRUMENTATION FIELD DEVICES REQUIRING 120V AC SUPPLY WILL HAVE LOCAL ON-OFF DISCONNECT SWITCH SEE DETAIL #8. E239
- ALL RECEPTACLES, SWITCHES, FITTINGS, BOXES, ETC. SHOWN IN PLANS SHALL BE WEATHERPROOF AND CORROSIVE RESISTANT UNLESS NOTED OTHERWISE.
- ALL EXPOSED CONDUITS AND FITTINGS SHALL BE RIGID GALVANIZED STEEL. UNLESS NOTED OTHERWISE.
- ALL BOXES AND PANELS SHALL BE NEMA 4X STAINLESS STEEL UNLESS NOTED OTHERWISE.
- EACH EXTERIOR LIGHTING FIXTURE SHOWN IN THE PLANS SHALL HAVE HAND-OFF-AUTO SELECTOR SWITCH. MOUNT "HQA" SWITCH NEAR THE LIGHTING FIXTURE AT ELEVATION 4'-6" ABOVE GRADE.
HAND POSITION - LIGHT IS ON
AUTO POSITION - PHOTOCELL CONTROLLED
OFF - LIGHT IS OFF
- CONDUITS FOR EXTERIOR LIGHTINGS AND RECEPTACLES SHALL BE CONCEALED IN WALLS.
- ALL CONDUIT RUNS SHOWN ON THE PLANS AS HAVING MORE THAN THREE (3) 90 DEGREE BENDS SHALL BE PROVIDED WITH PULL BOXES OR FITTINGS (PULL OUTLETS).
- PER RFI #333, THE USE OF A CONDUIT PISTON / COMPRESSED AIR FOR 3/4" AND 1" CONDUIT IS APPROVED.

POWER LAYOUT DRAWING SYMBOLS

- STRESS CONE AS REQUIRED
- CONDUIT EXPOSED.
- CONDUIT CONCEALED IN CEILING, WALLS, BELOW OR IN FLOOR SLAB.
- GROUND CABLE # 4/0 AWG. COPPER UNLESS NOTED OTHERWISE.
- MATCH LINE

POWER LAYOUT DRAWING SYMBOLS

- EXPOSED CONDUIT
- BURIED CONDUIT
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP
- CONDUIT CAPPED
- EXPLOSION - PROOF CONDUIT SEAL
- CONDUIT EXPANSION FITTING
- NEMA 4X STAINLESS STEEL JUNCTION BOX WITH TERMINAL BLOCKS FOR CONTROL WIRING AND DOOR MOUNTED CONTROL STATION. BOX SIZE TO BE DETERMINED BY ELECTRICAL CONTRACTOR.
- NEMA 4X STAINLESS STEEL JUNCTION OR PULL BOX
- SPECIAL PURPOSE GROUNDING TYPE RECEPTACLE SURFACE MOUNTED UNLESS NOTED OTHERWISE CONTRACTOR TO VERIFY VOLTAGE, AMPERAGE & PLUG ARRANGEMENT OF EQUIPMENT BEING FURNISHED
- GROUND ROD
- NON - FUSED DISCONNECT SWITCH NEMA 4X STAINLESS STEEL ENCLOSURE UNLESS NOTED OTHERWISE RATING AS INDICATED ON ONE LINE DIAGRAMS

RECEPTACLE LAYOUT DRAWING SYMBOLS

- TYPICAL HOMERUN TO PANELBOARD. TICK MARKS INDICATE WIRE QUANTITY, NUMBERS INDICATE CIRCUITRY. ALL HOMERUNS SHALL BE 3/4" G.S. CONDUIT WITH 3#12 AWG UNLESS NOTED OTHERWISE.
- MANUAL MOTOR STARTER, NEMA 4X STAINLESS STEEL ENCLOSURE SURFACE MOUNTED, UNLESS NOTED OTHERWISE.
- DUPLEX GROUNDING TYPE CONVENIENCE RECEPTACLE, SURFACE MOUNTED, SUITABLE FOR AREA OF INSTALLATION. R - INDICATES RECEPTACLE 3 - INDICATES CIRCUIT NO. GF - GROUND FAULT INTERRUPTING TYPE
- LIGHTING JUNCTION BOX SIZE TO BE DETERMINED BY ELECTRICAL CONTRACTOR, SUITABLE FOR AREA OF INSTALLATION.
- LIGHTING SWITCH SUITABLE FOR AREA OF INSTALLATION S - INDICATES SWITCH 2 - INDICATES CIRCUIT NO. HQA - INDICATES HAND-OFF-AUTO SELECTOR SWITCH W - WEATHER PROOF a - SWITCHING
- HIGH INTENSITY DISCHARGE LIGHTING FIXTURE D - FIXTURE TYPE 10 - CIRCUIT NUMBER a - SWITCHING
- FLUORESCENT LIGHTING FIXTURE B - FIXTURE TYPE 13 - CIRCUIT NUMBER a - SWITCH CROSS-HATCH INDICATES EMERGENCY TYPE
- MISCELLANEOUS LIGHTING FIXTURES H - INDICATE FIXTURE TYPE 2 - INDICATE CIRCUIT NO.

ONE LINE DIAGRAM SYMBOLS

- DRAWOUT DEVICES
- AIR CIRCUIT BREAKER
- CURRENT LIMITING FUSE
- CURRENT TRANSFORMER, RATIO AS SHOWN
- POTENTIAL TRANSFORMER, RATIO AS SHOWN
- CONTROL POWER TRANSFORMER, RATIO AS SHOWN
- CONTINUOUS RATING
- MOTOR CIRCUIT PROTECTOR - TRIP RANGE SETTING BASED ON ACTUAL MOTOR FULL LOAD AMPS CONTROL POWER TRANSFORMER
- FVNR CONTACTOR NEMA SIZE 1, OTHER SIZES NOTED BY 2, 3, ETC
- OVERLOAD HEATER RELAY
- SAME AS ABOVE EXCEPT 2 SPEED STARTER
- F - FAST S - SLOW
- 480V 3 POLE MOLDED CASE CIRCUIT BREAKER AT - TRIP RATING AF - FRAME SIZE
- AMMETER
- AMMETER SWITCH, THREE PHASE TYPE
- VOLTMETER
- VOLTMETER SWITCH, THREE PHASE TYPE
- 480V NONFUSED DISCONNECT SWITCH, RATING AS SHOWN
- CIRCULAR CHART RECORDER (KW)
- WATT TRANSDUCER
- SUMMER/ADDER MODULE
- LINE REACTOR
- VARIABLE FREQUENCY DRIVE
- 3% = LINE IMPEDANCE
- 5AMP = RATED CURRENT
- WYE-DELTA STARTER
- HEATER ELEMENT
- POWER TRANSFORMER

ONE LINE DIAGRAM SYMBOLS

- WYE
- DELTA
- LIGHTING PANEL
- IP - INSTRUMENTATION PANEL
- 480V POWER CIRCUIT BREAKER WITH MICRO PROCESSOR BASED TRIP & METERING DEVICE
- ST - STATIC TRIP & METERING DEVICE
- AF - FRAME SIZE
- AT - TRIP RATING

ELEMENTARY WIRING DIAGRAM SYMBOLS

- MOMENTARY CONTACT PUSH BUTTON NORMALLY OPEN
- MOMENTARY CONTACT PUSH BUTTON NORMALLY CLOSED
- MAINTAINED CONTACT PUSH BUTTON WITH MECHANICAL INTERLOCK
- TWO POSITION MAINTAINED CONTACT SELECTOR SWITCH
- THREE POSITION MAINTAINED CONTACT SELECTOR SWITCH
- NORMALLY OPEN } TIME DELAY AFTER COIL ENERGIZED
- NORMALLY CLOSED } TIME DELAY AFTER COIL DE-ENERGIZED
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- LEVEL SWITCH, LIQUID
- PRESSURE OR VACUUM SWITCH
- TEMPERATURE SWITCH
- FLOW SWITCH, AIR OR WATER
- LIMIT SWITCH OR TORQUE SWITCH
- SOLENOID VALVE COIL
- INDICATING PILOT LIGHTS
- W - WHITE B - BLUE
- R - RED A - AMBER
- G - GREEN C - CLEAR
- MOTOR STARTER CONTACTOR COIL
- OTHER COIL DESIGNATIONS
- S - SLOW F - FORWARD L - LOW
- F - FAST R - REVERSE H - HIGH
- O - OPEN C - CLOSE
- RELAY COIL
- MR - MALFUNCTION RELAY LWLR - LO-WATER LEVEL RELAY
- CR - CONTROL RELAY HWLR - HI-WATER LEVEL RELAY
- DLR - OVERLOAD RELAY
- TIME DELAY RELAY COIL
- ELAPSED TIME METER

DESIGNED	CHN
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
NO.	ISSUED FOR
	DATE
	BY
	APPROVED

ROBERT S. DIFIORE
22769

GERALD J. RATASKY
026535

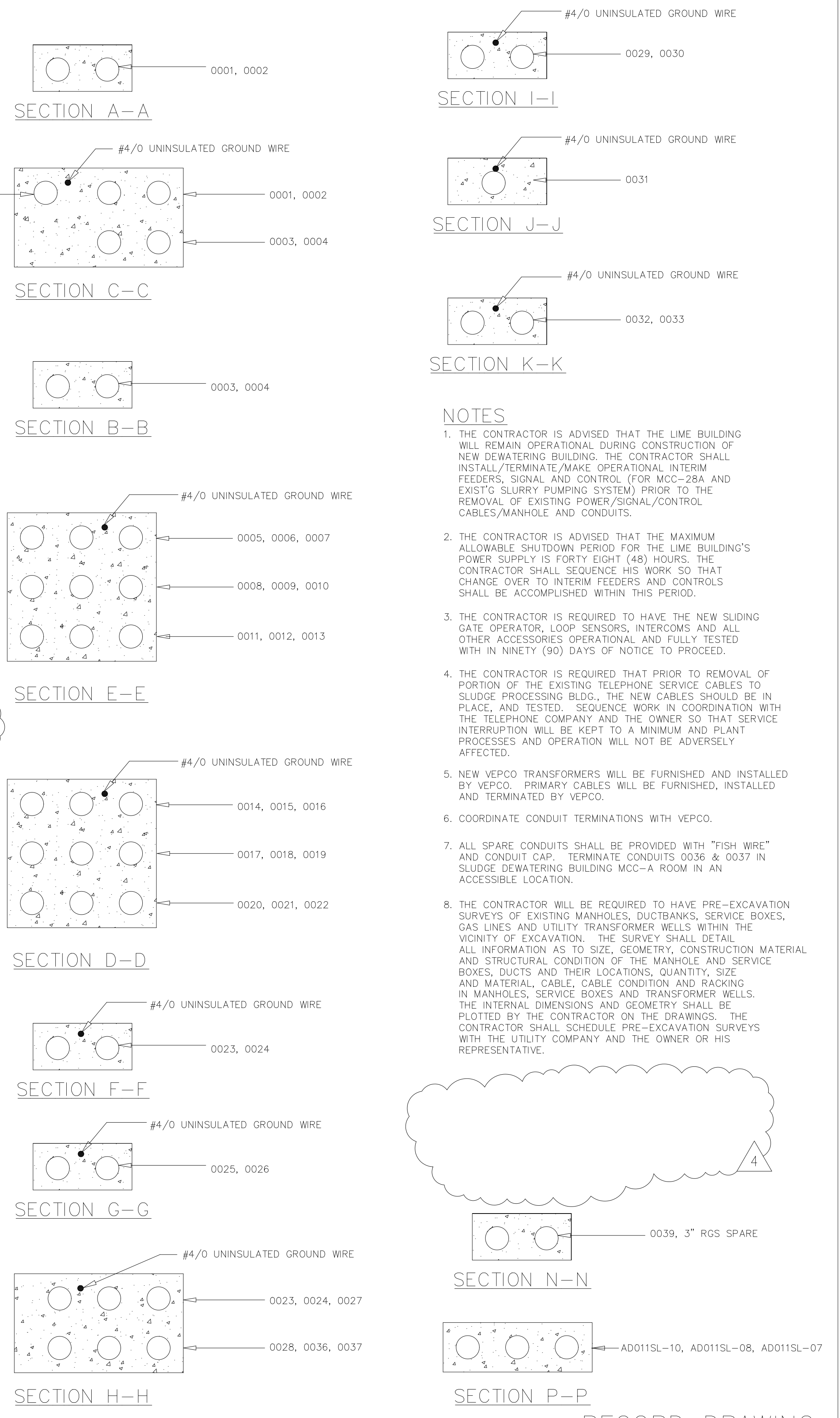
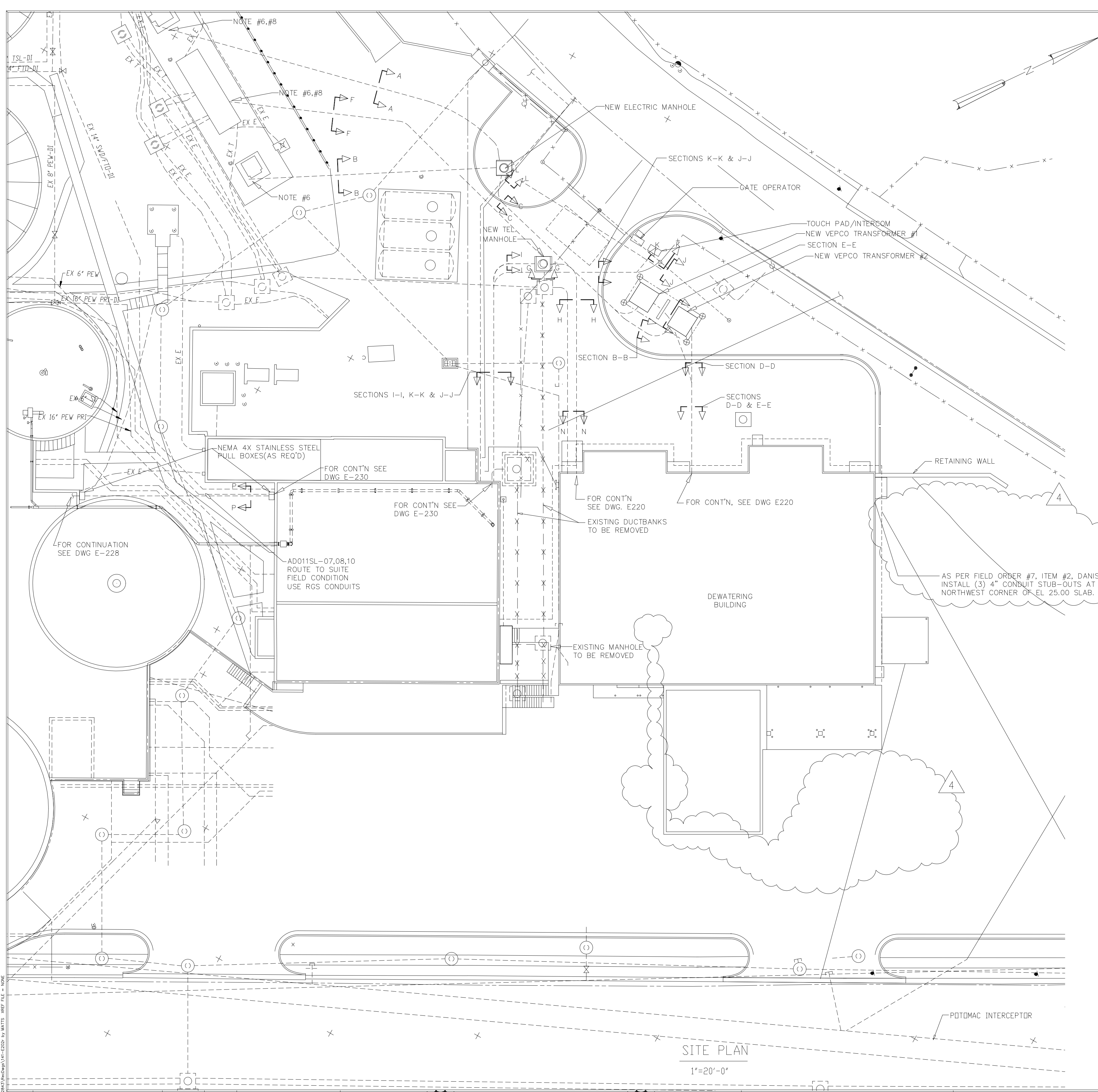
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
GENERAL NOTES AND SYMBOLS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-201
	SHEET	140 OF 199

PLOT DATE 04/17/00 3:46pm FILE: N:\2843\9302\WPC\ELEC\SYM\SYM.DWG PLOT BY: MATTY REF: FILE - NONE



- NOTES**
1. THE CONTRACTOR IS ADVISED THAT THE LIME BUILDING WILL REMAIN OPERATIONAL DURING CONSTRUCTION OF NEW DEWATERING BUILDING. THE CONTRACTOR SHALL INSTALL/TERMINATE/MAKE OPERATIONAL INTERIM FEEDERS SIGNAL AND CONTROL (FOR MCC-26A AND EXIST'G SLURRY PUMPING SYSTEM) PRIOR TO THE REMOVAL OF EXISTING POWER/SIGNAL/CONTROL CABLES/MANHOLE AND CONDUITS.
 2. THE CONTRACTOR IS ADVISED THAT THE MAXIMUM ALLOWABLE SHUTDOWN PERIOD FOR THE LIME BUILDING'S POWER SUPPLY IS FORTY EIGHT (48) HOURS. THE CONTRACTOR SHALL SEQUENCE HIS WORK SO THAT CHANGE OVER TO INTERIM FEEDERS AND CONTROLS SHALL BE ACCOMPLISHED WITHIN THIS PERIOD.
 3. THE CONTRACTOR IS REQUIRED TO HAVE THE NEW SLIDING GATE OPERATOR, LOOP SENSORS, INTERCOMS AND ALL OTHER ACCESSORIES OPERATIONAL AND FULLY TESTED WITH IN NINETY (90) DAYS OF NOTICE TO PROCEED.
 4. THE CONTRACTOR IS REQUIRED THAT PRIOR TO REMOVAL OF PORTION OF THE EXISTING TELEPHONE SERVICE CABLES TO SLUDGE PROCESSING BLDG., THE NEW CABLES SHOULD BE IN PLACE, AND TESTED. SEQUENCE WORK IN COORDINATION WITH THE TELEPHONE COMPANY AND THE OWNER SO THAT SERVICE INTERRUPTION WILL BE KEPT TO A MINIMUM AND PLANT PROCESSES AND OPERATION WILL NOT BE ADVERSELY AFFECTED.
 5. NEW VEPCO TRANSFORMERS WILL BE FURNISHED AND INSTALLED BY VEPCO. PRIMARY CABLES WILL BE FURNISHED, INSTALLED AND TERMINATED BY VEPCO.
 6. COORDINATE CONDUIT TERMINATIONS WITH VEPCO.
 7. ALL SPARE CONDUITS SHALL BE PROVIDED WITH "FISH WIRE" AND CONDUIT CAP. TERMINATE CONDUITS 0036 & 0037 IN SLUDGE DEWATERING BUILDING MCC-A ROOM IN AN ACCESSIBLE LOCATION.
 8. THE CONTRACTOR WILL BE REQUIRED TO HAVE PRE-EXCAVATION SURVEYS OF EXISTING MANHOLES, DUCTBANKS, SERVICE BOXES, GAS LINES AND UTILITY TRANSFORMER WELLS WITHIN THE VICINITY OF EXCAVATION. THE SURVEY SHALL DETAIL ALL INFORMATION AS TO SIZE, GEOMETRY, CONSTRUCTION MATERIAL AND STRUCTURAL CONDITION OF THE MANHOLE AND SERVICE BOXES, DUCTS AND THEIR LOCATIONS, QUANTITY, SIZE AND MATERIAL, CABLE, CABLE CONDITION AND RACKING IN MANHOLES, SERVICE BOXES AND TRANSFORMER WELLS. THE INTERNAL DIMENSIONS AND GEOMETRY SHALL BE PLOTTED BY THE CONTRACTOR ON THE DRAWINGS. THE CONTRACTOR SHALL SCHEDULE PRE-EXCAVATION SURVEYS WITH THE UTILITY COMPANY AND THE OWNER OR HIS REPRESENTATIVE.

DESIGNED	H&S
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	

COMMONWEALTH OF VIRGINIA

ROBERT S. DIFIORE

22769

PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA

GERALD J. RATASKY

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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

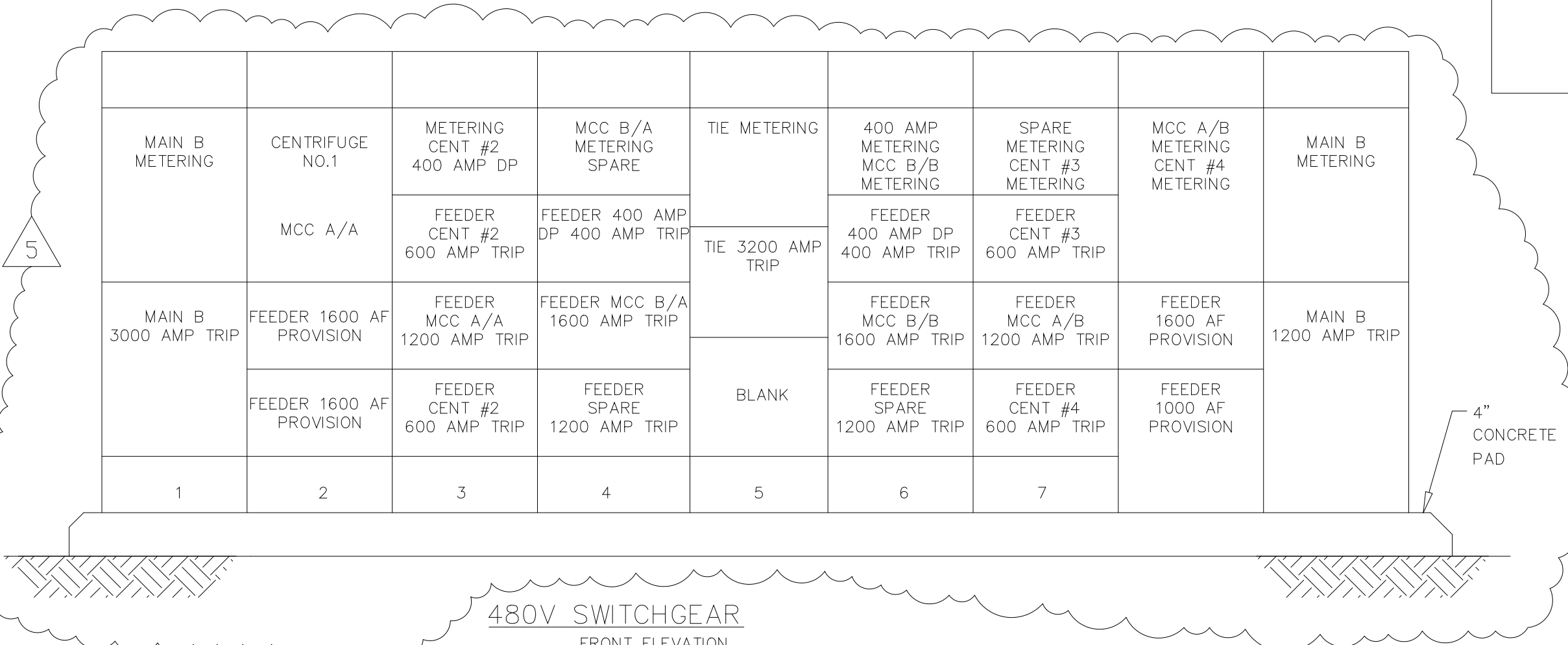
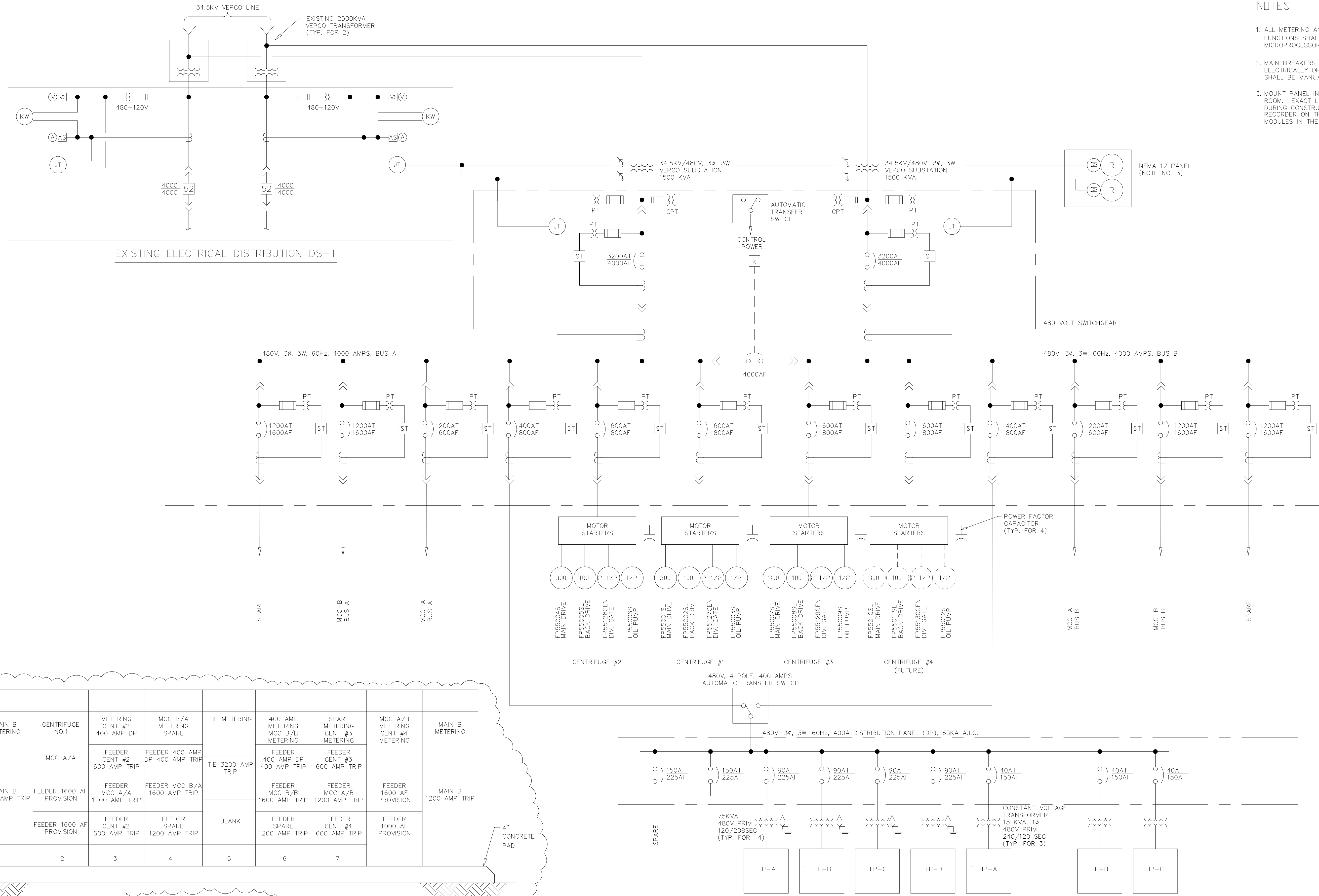
RECORD DRAWING

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
SITE PLAN

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-202
	SHEET	141 OF 199

NOTES:

1. ALL METERING AND PROTECTIVE RELAYING FUNCTIONS SHALL BE ACCOMPLISHED USING MICROPROCESSOR BASED TRIP/METERING UNITS.
2. MAIN BREAKERS AND TIE BREAKERS SHALL BE ELECTRICALLY OPERATED. ALL FEEDER BREAKERS SHALL BE MANUALLY OPERATED.
3. MAIN PANEL IN THE CENTRIFUGE CONTROL ROOM. EXACT LOCATION TO BE DETERMINED DURING CONSTRUCTION. MOUNT CIRCULAR CHART RECORDER ON THE PANEL AND THE ADDER MODULES IN THE PANEL.



RECORD DRAWING

DESIGNED	EC
DRAWN	RS
CHECKED	EC
PROJ.ENGR.	WG
	J.J.B.
	J.J.B.
NO.	APPROVED

3	RECORD DRAWINGS	6-99	F.X.P.
2	CONSTRUCTION	9-94	J.J.B.
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.
	ISSUED FOR	DATE	BY

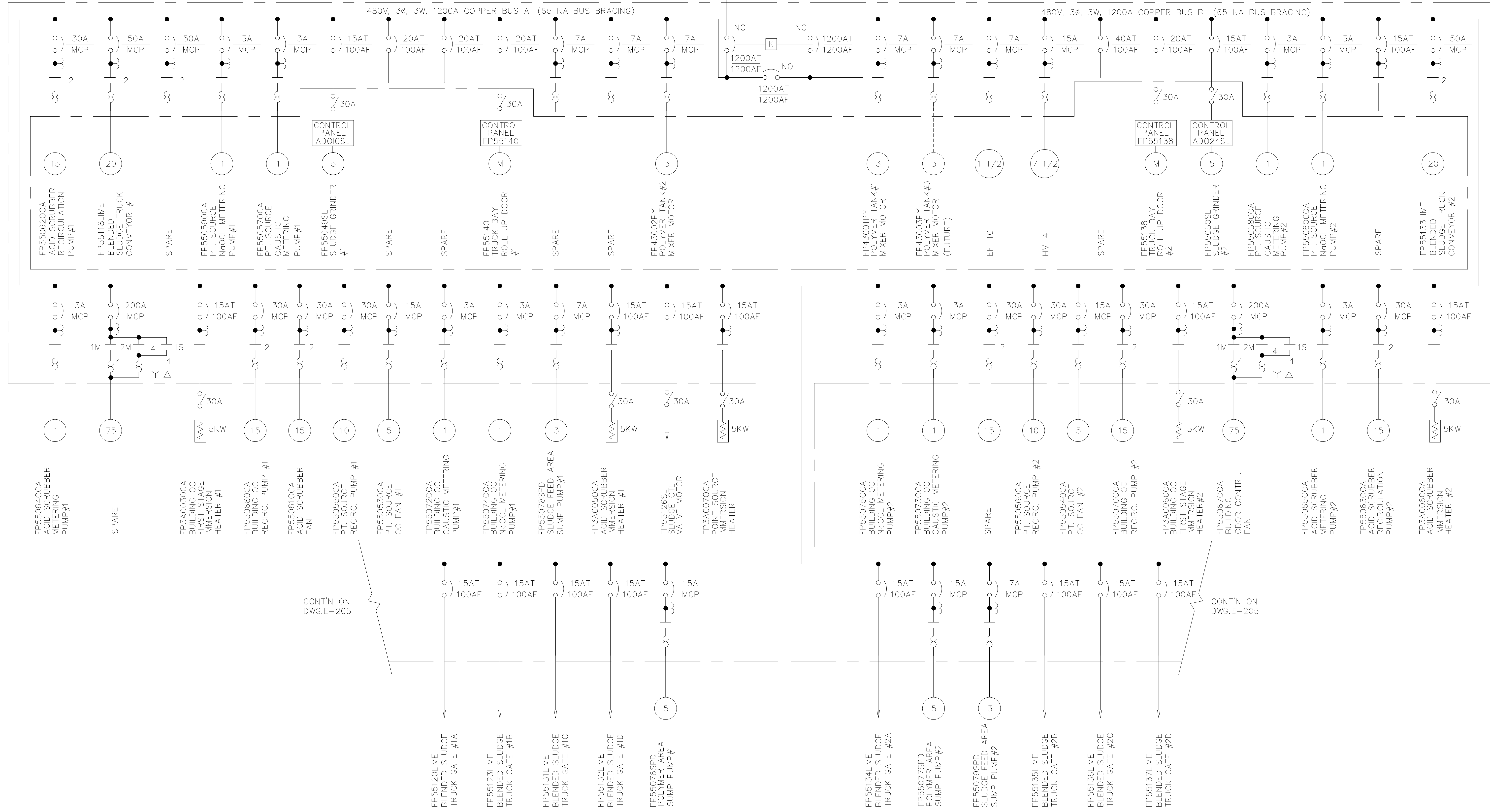
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
SINGLE LINE DIAGRAM
480V SWITCHGEAR

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER E203
	SHEET 142 OF 199

480V, 3Ø, 3W, 60HZ
FROM 480V SWITCHGEAR



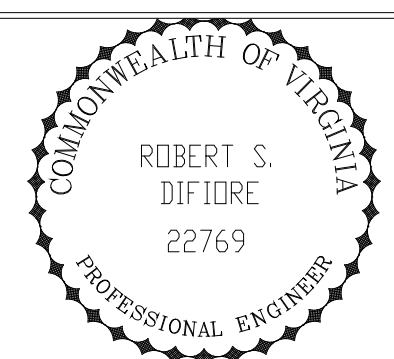
CONT'N ON DWG.E-205

CONT'N ON DWG.E-205

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	APPROVED
6	RECORD DRAWING	6-99	MKS					
5	PH IIIA REDESIGN ARTH. NO.7	6-97	JMM					
4	WP3A CONST.-LAND APP. REDES.	4-96	RSD					
3	WP3A APPROVAL-LAND APP. REDES.	2-96	RSD					
2	CONSTRUCTION	9-94	JJB					
1	REGULATORY APPROVAL	9-94	JJB					

DESIGNED	CHN
DRAWN	WAM
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	



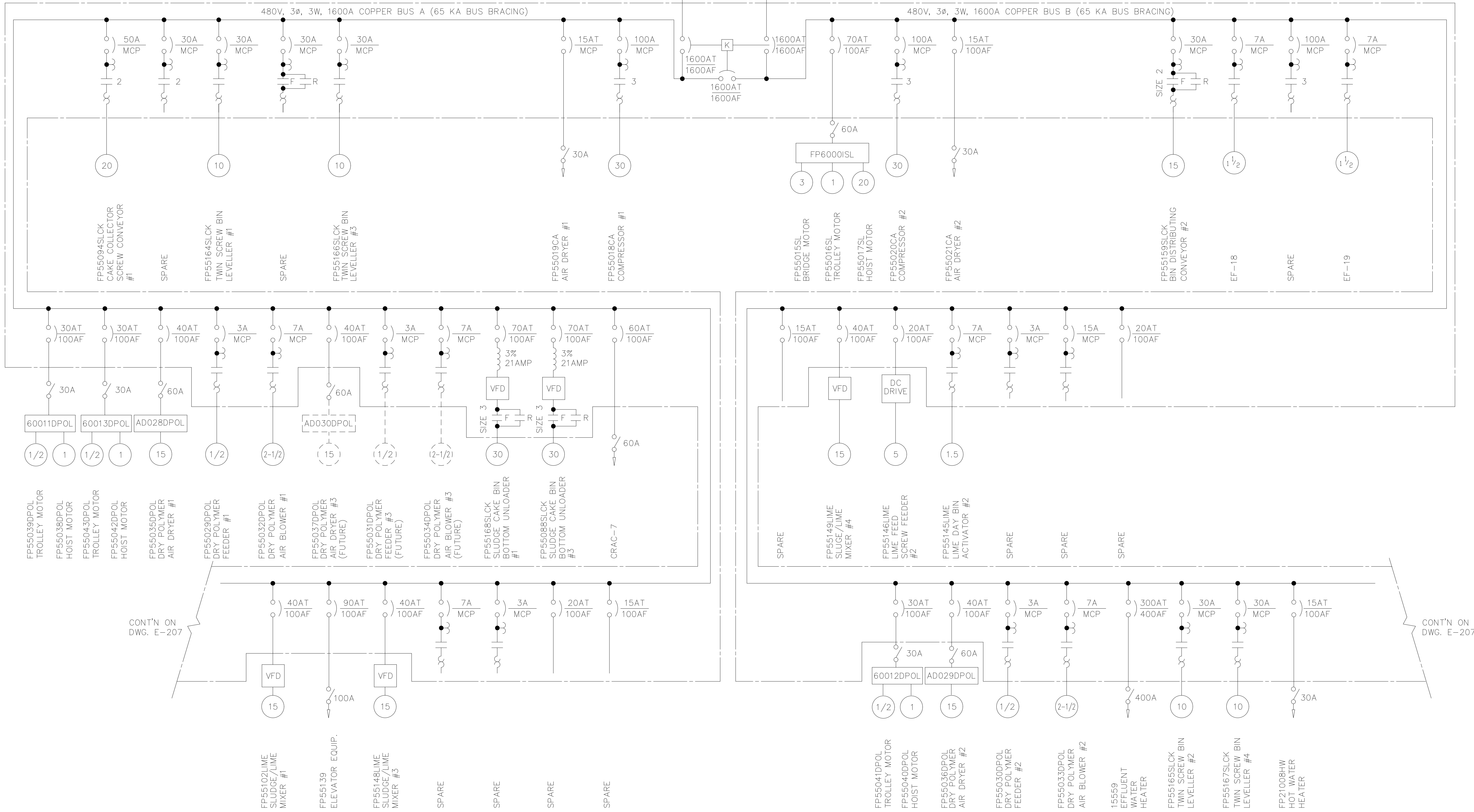
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WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
SINGLE LINE DIAGRAM
MCC-A SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 1994
H & S JOB NUMBER 2843	CONTRACT NUMBER 93-02-WPC
DRAWING NUMBER E-204	SHEET 143 OF 199

480V, 3 ϕ , 3W, 60HZ
FROM 480V SWITCHGEAR



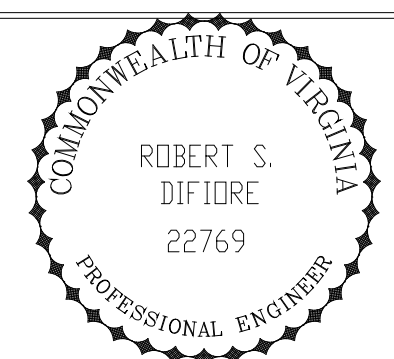
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CONT'N ON DWG. E-207

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	APPROVED
6	RECORD DRAWING	6-99	MKS					
5	PH IIIA REDESIGN ARTH. NO.7	6-97	JMM					
4	WPS CONST.-LAND. APP. REDES.	4-96	RSD					
3	WPS APPROVAL-LAND. APP. REDES.	2-96	RSD					
2	CONSTRUCTION	9-94	JJB					
1	REGULATORY APPROVAL	9-94	JJB					
	ISSUED FOR	DATE	BY					

DESIGNED CHN
DRAWN WAM
CHECKED
PROJ.ENGR. AB/RNC



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RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

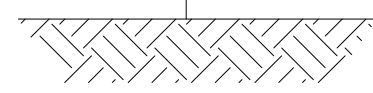
CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
SINGLE LINE DIAGRAM
MCC-B SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 1994
H & S JOB NUMBER 2843	
CONTRACT NUMBER 93-02-WPC	DRAWING NUMBER E-206
SHEET 145	OF 199

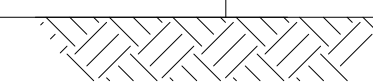
NOTE:

- 1 ALL COMPARTMENTS INDICATED AS 'EQUIPPED SPACE' SHALL HAVE FULL BUSSING AND ALL NECESSARY HARDWARE FOR FUTURE INSERTION OF STARTER CUBICLES WITHOUT MODIFICATION.
- 2 ALL COMPARTMENTS INDICATED AS 'SPARE' SHALL HAVE 'STARTER OR BREAKER' SIZED AS SHOWN IN THE SINGLE LINE DIAGRAM.

FP55155SLCK DISTRIBUTOR SLIDE GATE #1A	FP55013SLCK UNLOADER SLIDE GATE #1A	SPARE	ACC-1	EF-3	HOT WATER PUMPS CONTROL PANEL			HOIST/TROLLEY FP55038DPOL FP55039DPOL	FP55035DPOL DRY POLYMER AIR DRYER #1	FP55164SLCK TWIN SCREW BIN LEVELLER #1	FP55154SLCK BIN DISTRIBUTING CONVEYOR #1	EQUIPPED SPACE	FP55018CA COMPRESSOR #1				FP550201CA COMPRESSOR #2	
FP55156SLCK DISTRIBUTOR SLIDE GATE #1B	FP55014SLCK UNLOADER SLIDE GATE #1B	SPARE	CRAC-3	EF-7	SPACE			HOIST/TROLLEY FP55042DPOL FP55043DPOL	FP55029DPOL DRY POLYMER FEEDER #1	FP55166SLCK TWIN SCREW BIN LEVELLER #3								
FP55157SLCK DISTRIBUTOR SLIDE GATE #1C	FP55089SLCK UNLOADER SLIDE GATE #3A	SPARE	ACC-3	SF-17	BOILER FAN B1	FP55088SLCK SLUDGE CAKE BIN BOTTOM UNLOADER #3	FP55168SLCK SLUDGE CAKE BIN UNLOADER #1	FP55094SLCK CAKE COLLECTOR SCREW CONVEYOR #1	FP55032DPOL DRY POLYMER AIR BLOWER #1		SPARE STARTER		FP55100LIME LIME FEED SCREW FEEDER #1	FP55019CA AIR DRYER #1	MAIN BREAKER	TIE BREAKER	MAIN BREAKER	FP55021CA AIR DRYER #2
FP55158SLCK DISTRIBUTOR SLIDE GATE #1D	FP55090SLCK UNLOADER SLIDE GATE #3B	SPARE	CRAC-5						FP55037DPOL DRY POLYMER AIR DRYER #3			FP55141LIME LIME TRANSFER BLOWER #1	FP55099LIME LIME DAY BIN ACT. #1	EQUIPPED SPACE				EQUIPPED SPACE
FIRE ALARM RELAYS	FP55095SLCK COLLECTOR SLIDE GATE #1A	SPARE	ACC-5		HV-1			SPARE	FP55031DPOL DRY POLYMER FEEDER #3		SPARE		FP55102LIME SLUDGE/LIME MIXER #1					
	FP55096SLCK COLLECTOR SLIDE GATE #1B	CRAC-7	ACC-8	SPARE	FP55139 ELEVATOR			SPARE	FP55034DPOL DRY POLYMER AIR BLOWER #3				FP55148LIME SLUDGE/LIME MIXER #3	SPARE				SPARE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	



EQUIPPED SPACE	FP55159SLCK BIN DISTRIBUTING CONVEYOR #2	FP55165SLCK TWIN SCREW BIN LEVELLER #2	FP5036DPOL DRY POLYMER AIR DRYER #2	HOIST/TROLLEY FP55040DPOL FP55041DPOL			SPACE		EF-12	EF-18	FP55098SLCK COLLECTOR SLIDE GATE #2A	FP55104SLCK COLLECTOR SLIDE GATE #2B
		FP55167SLCK TWIN SCREW BIN LEVELLER #4	FP55030DPOL DRY POLYMER FEEDER #2	BRIDGE/TROLLEY & HOIST FP55015SL FP55016SL FP55015SL			SPACE	HV-2	EF-14	EF-19	FP55086SLCK UNLOADER SLIDE GATE #2A	SPARE
FP55146LIME LIME FEED SCREW FEEDER #2		SPARE STARTER	FP55033DPOL DRY POLYMER AIR BLOWER #2	FP55097SLCK CAKE COLLECTOR SCREW CONVEYOR #2	FP55085SLCK SLUDGE CAKE BIN BOTTOM UNLOADER #2	FP55091SLCK SLUDGE CAKE BIN BOTTOM UNLOADER #4	AC-1		ACC-2	SPARE	FP55087SLCK UNLOADER SLIDE GATE #2B	SPARE
FP55145LIME LIME DAY BIN ACT. #2	FP55150LIME LIME TRANSFER BLOWER #2		SPARE				ACC-6	EF-5	CRAC-4		FP55160SLCK DISTRIBUTOR SLIDE GATE #2A	FP55092SLCK UNLOADER SLIDE GATE #4A
FP55147LIME SLUDGE/LIME MIXER #2			SPARE				SPACE	EF-6	ACC-4		FP55161SLCK DISTRIBUTOR SLIDE GATE #2B	FP55093SLCK UNLOADER SLIDE GATE #4B
FP55149LIME SLUDGE/LIME MIXER #4			FP21008HW HOT WATER HEATER	15559 EFFLUENT WATER HEATER			SPACE	EF-9	ACC-7		FP55162SLCK DISTRIBUTOR SLIDE GATE #2C	FP55163SLCK DISTRIBUTOR SLIDE GATE #2D
19	20	21	22	23	24	25	26	27	28	29	30	31

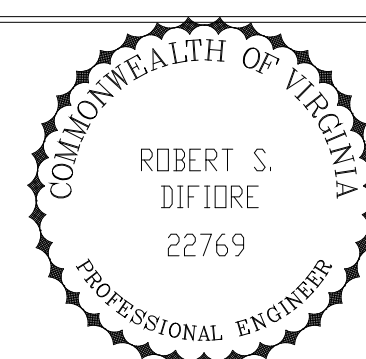


MCC-B

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY
6	RECORD DRAWING	6-99	MKS				
5	PH IIIA REDESIGN ARTH. NO.7	6-97	JMM				
4	WPS CONST-LAND APP. REDES.	4-96	RSD				
3	WPS APPROVAL-LAND APP. REDES.	2-96	RSD				
2	CONSTRUCTION	9-94	JJB				
1	REGULATORY APPROVAL	9-94	JJB				
	ISSUED FOR	DATE	BY		ISSUED FOR	DATE	BY

DESIGNED CHN
 DRAWN WAM
 CHECKED
 PROJ.ENGR. AB/RNC
 APPROVED

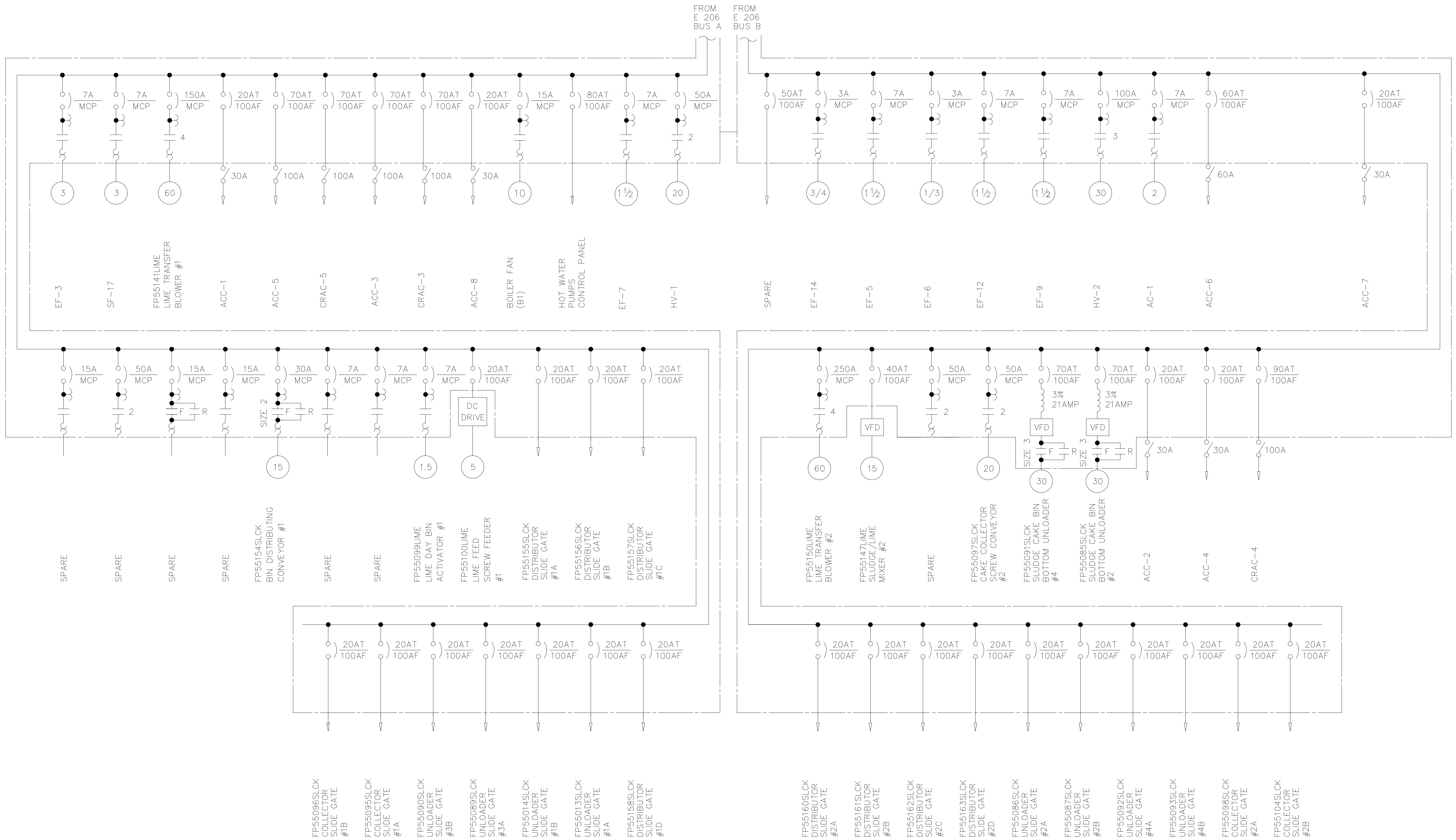


Hazenand Sawyer
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

DEWATERING BUILDING
 ELECTRICAL
 MCC-B LAYOUT
 MCC-B SHEET 2A

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER E207A
	SHEET 146A OF 199



FILE: \\WV01\proj\199\4646.dwg FILE: \\0340\proj\199\116\1007.dwg by: MHTS WSP FILE: WSP

5	RECORD DRAWING	4-99	MKS	DESIGNED	CHN
4	WPS CONST.-LAND APP. REDES.	4-96	RSD	DRAWN	WAM
3	WPS APPROVAL-LAND APP. REDES.	2-96	RSD	CHECKED	
2	CONSTRUCTION	9-94	JJB	PRJ.J.ENGR.	AB/RNC
1	REGULATORY APPROVAL	9-94	JJB	APPROVED	
NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR

COMMONWEALTH OF VIRGINIA
ROBERT S. DIFIORE
 22769
 PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA
GERALD J. RATASKY
 026535
 PROFESSIONAL ENGINEER

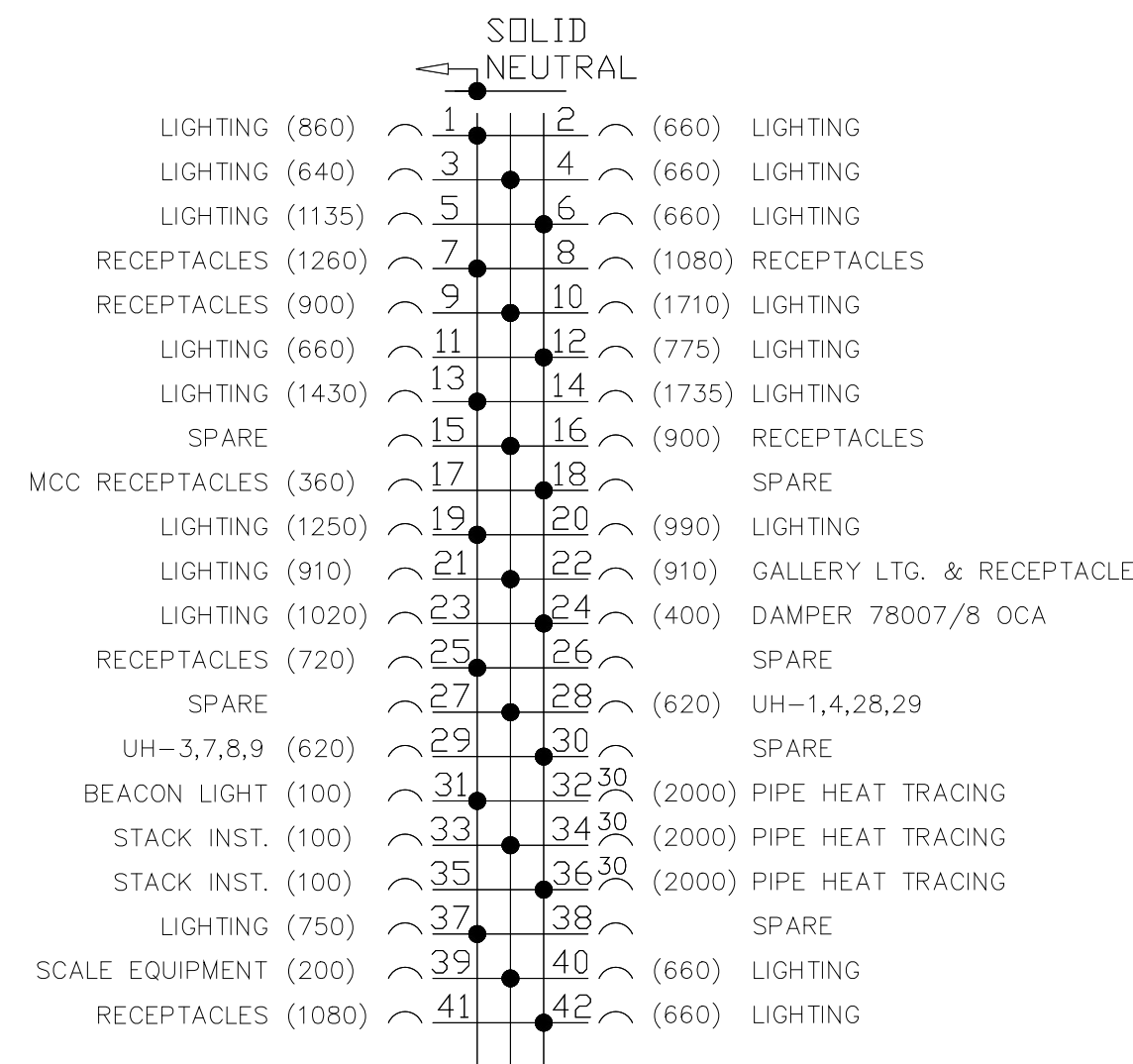
Hazenand Sawyer
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

DEWATERING BUILDING
 ELECTRICAL
 SINGLE LINE DIAGRAM
 MCC-B SHEET 2

RECORD DRAWING

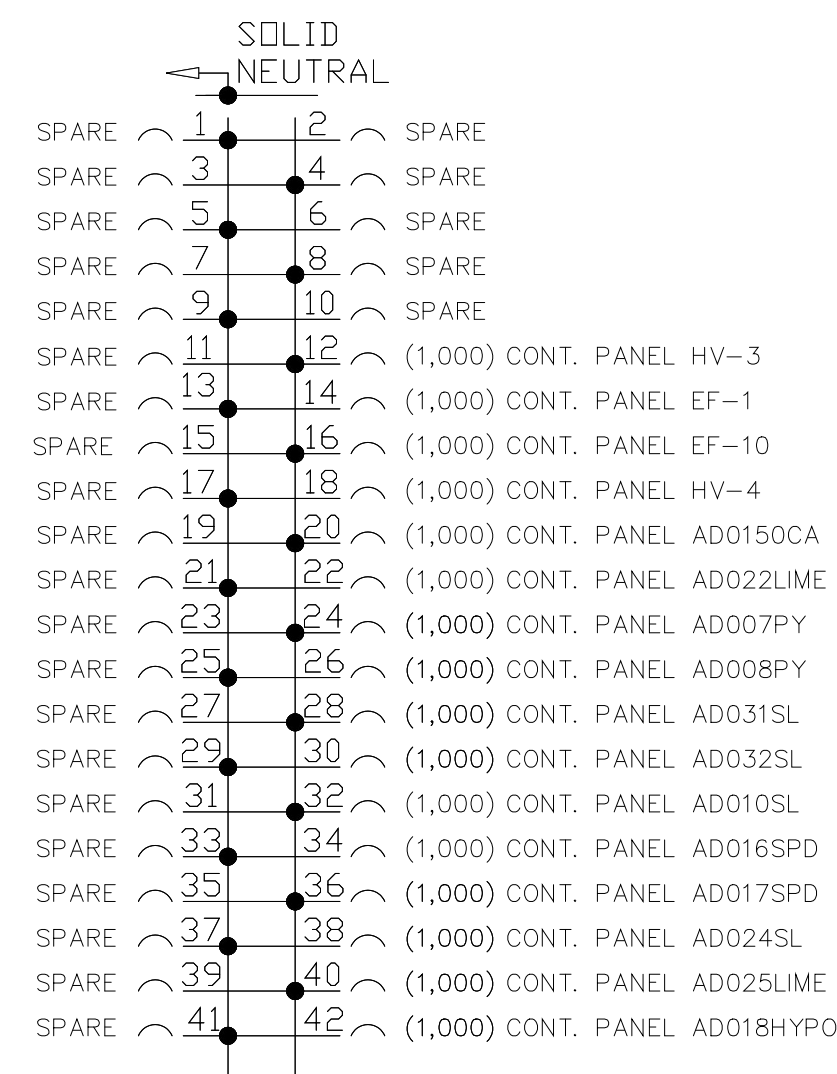
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
H & S JOB NUMBER 2843	CONTRACT NUMBER 93-02-WPC
DRAWING NUMBER E-207	SHEET 146 OF 199



LOAD - WATTS							
	AN	BN	CN	AB	BC	CA	3PHASE
SUB.TOT.	12,835	10,210	9,470	—	—	—	—
TOTAL	32,515						

LIGHTING PANEL, LP-A

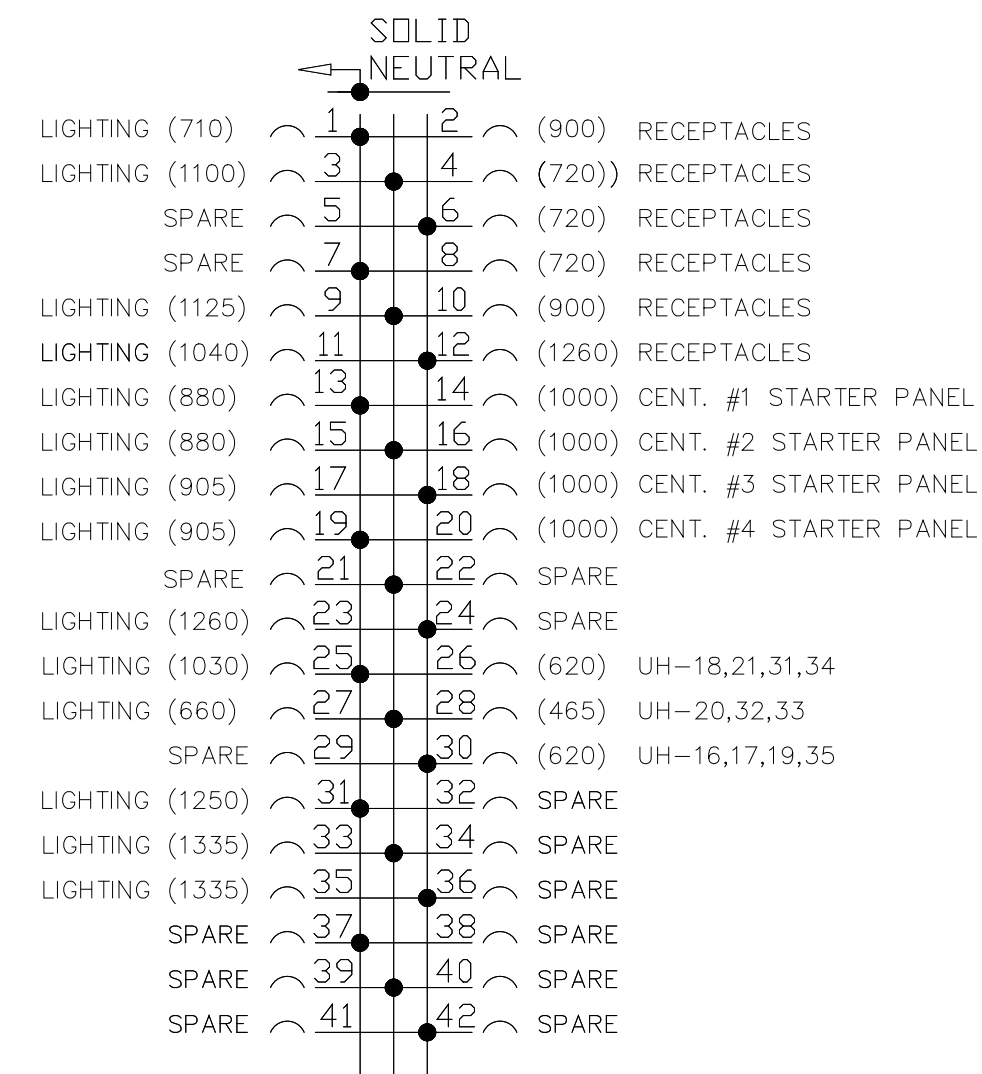
ELEV 25.00
208Y/120V, 3Ø, 4 WIRE
225A MAINS, 225A MAIN BREAKER
42KA A.I.C. RATING



LOAD - WATTS			
	AN	BN	AB
SUB.TOT.	8,000	8,000	—
TOTAL	16,000		

INSTRUMENTATION PANEL, IP-A

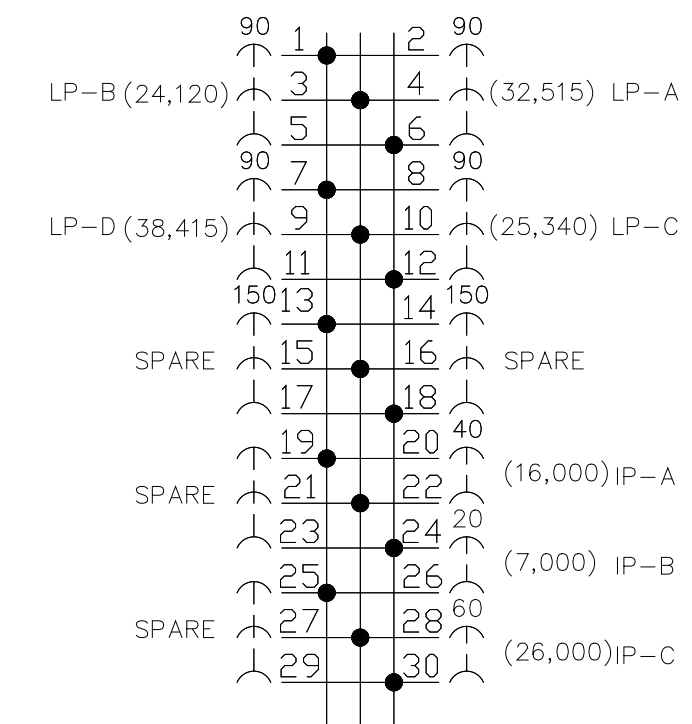
ELEV 25.00
240/120V, 1Ø, 3 WIRE
150A MAINS, 150A MAIN BREAKER
42KA A.I.C. RATING



LOAD - WATTS							
	AN	BN	CN	AB	BC	CA	3PHASE
SUB.TOT.	9015	8185	8140	—	—	—	—
TOTAL	25,340						

LIGHTING PANEL, LP-C

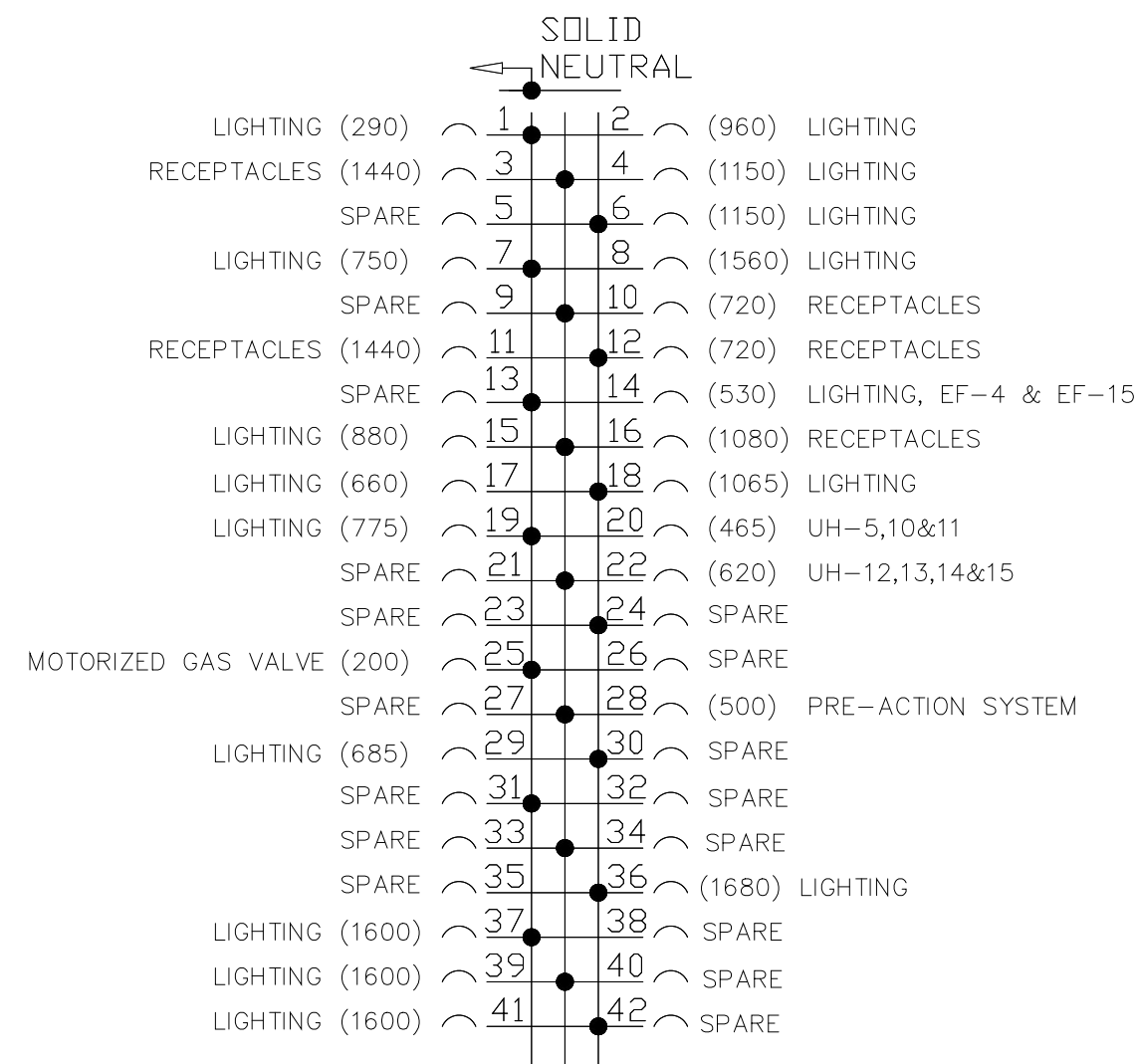
ELEV 66.00
208Y/120V, 3Ø, 4 WIRE
225A MAINS, 225A MAIN BREAKER
42KA A.I.C. RATING



LOAD - WATTS							
	AN	BN	CN	AB	BC	CA	3 PHASE
SUB.TOT.	—	—	—	16,000	26,000	7,000	120,390
TOTAL	169,390						

MAIN DISTRIBUTION PANEL, MDP

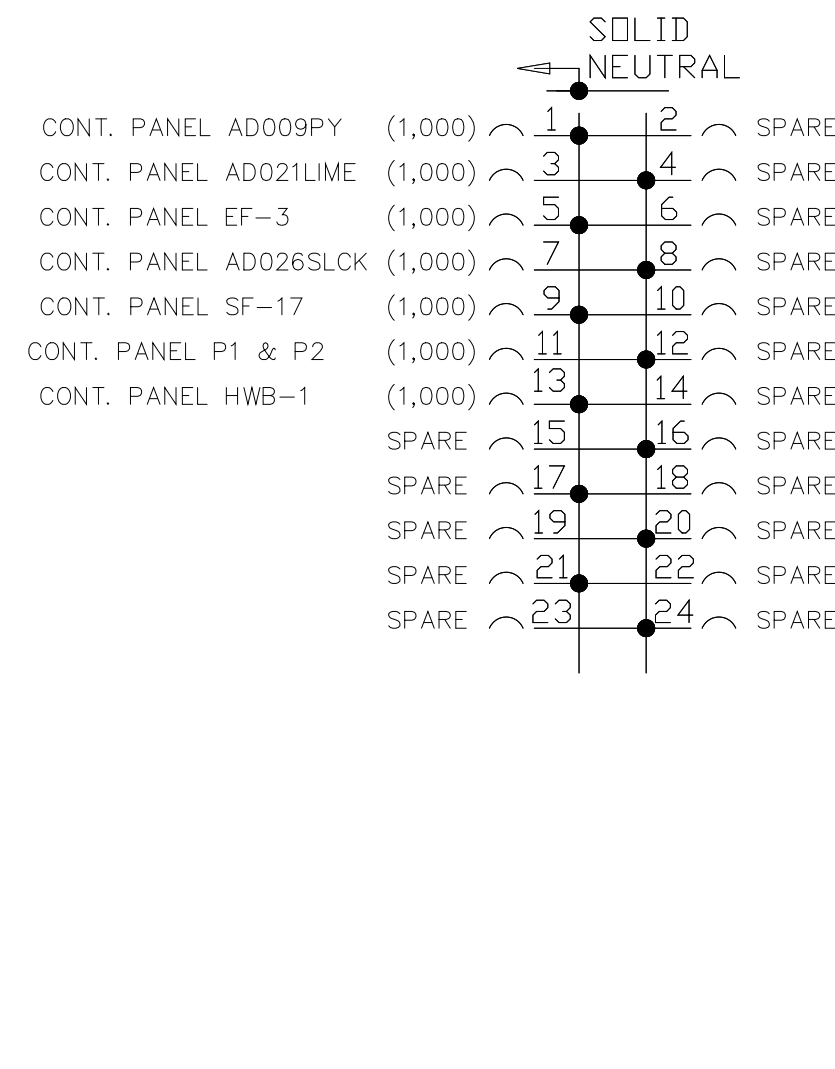
ELEV 43.00
480V, 3Ø, 3 WIRE
400A MAIN, 400A MAIN BREAKER
65KA A.I.C. RATING



LOAD - WATTS							
	AN	BN	CN	AB	BC	CA	3PHASE
SUB.TOT.	7,130	7,990	9,000	—	—	—	—
TOTAL	24,120						

LIGHTING PANEL, LP-B

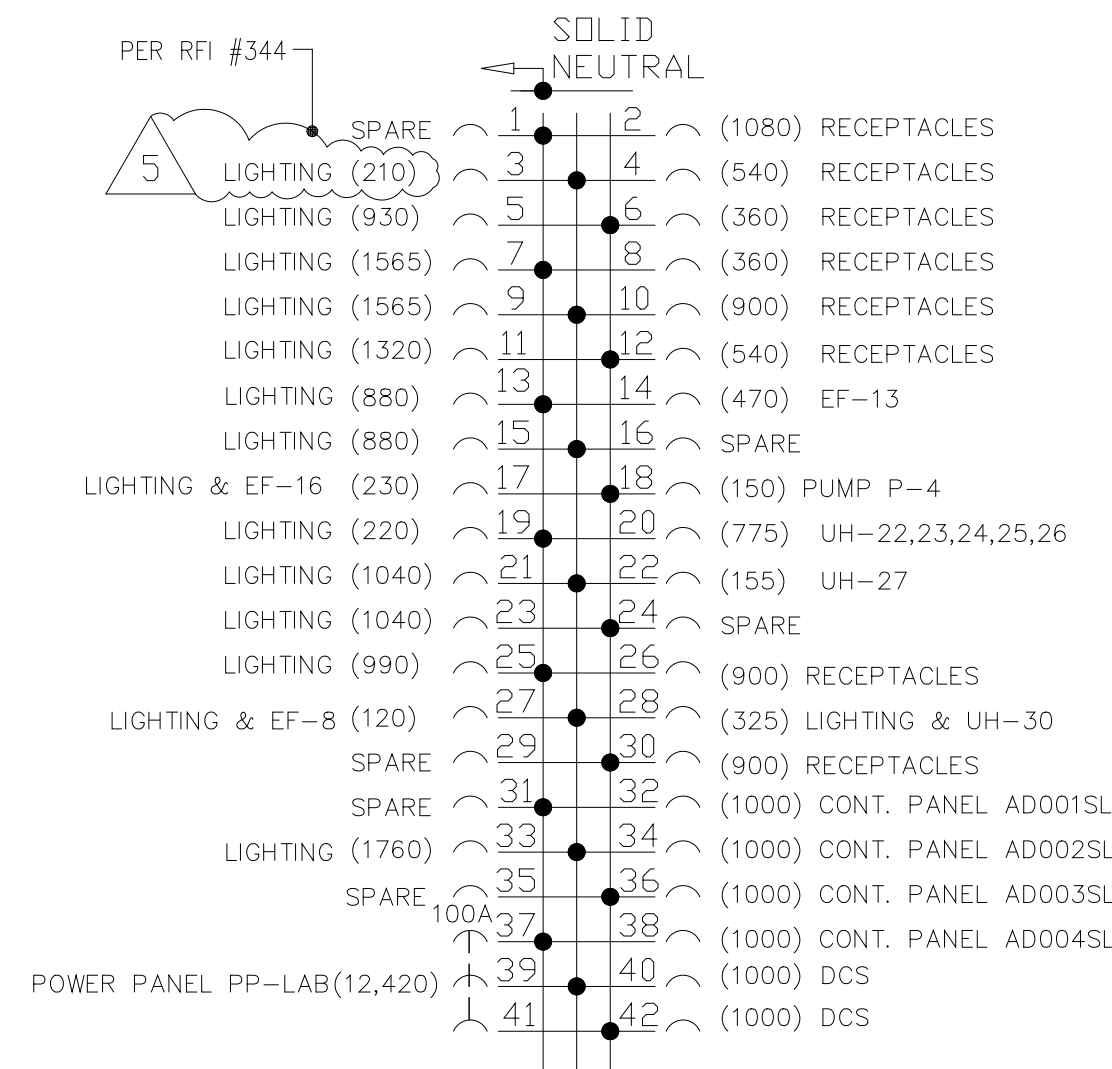
ELEV 43.00
208Y/120V, 3Ø, 4 WIRE
225A MAINS, 225A MAIN BREAKER
42KA A.I.C. RATING



LOAD - WATTS			
	AN	BN	AB
SUB.TOT.	4,000	3,000	—
TOTAL	7,000		

INSTRUMENTATION PANEL, IP-B

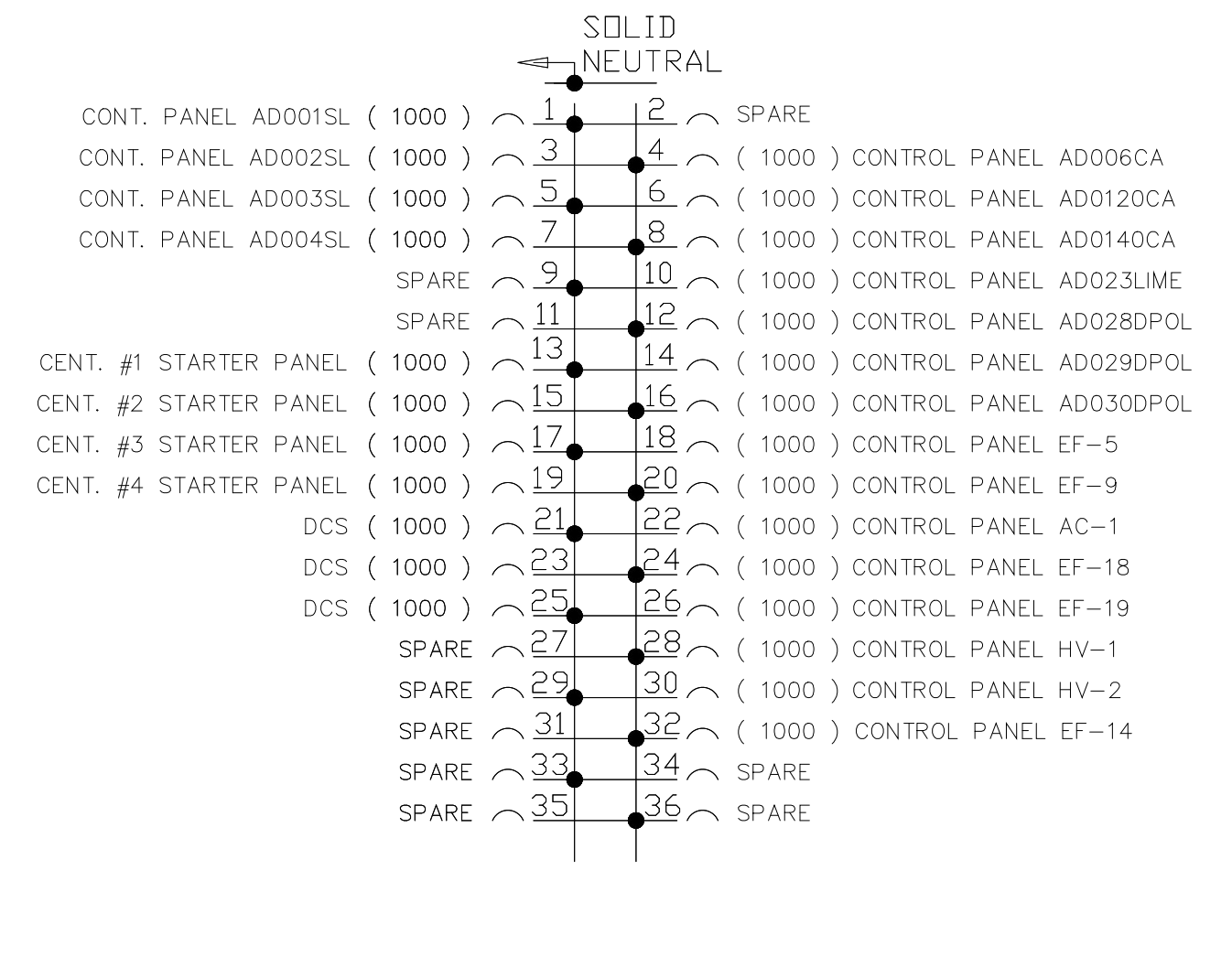
ELEV 43.00
240/120V, 1Ø, 3 WIRE
150A MAINS, 150A MAIN BREAKER
42KA A.I.C. RATING



LOAD - WATTS							
	AN	BN	CN	AB	BC	CA	3PHASE
SUB.TOT.	9,240	9,285	7,470	—	—	—	12,420
TOTAL	38,415						

LIGHTING PANEL, LP-D

ELEV 66.00
208Y/120V, 3Ø, 4 WIRE
225A MAINS, 225A MAIN BREAKER
42KA A.I.C. RATING



LOAD - WATTS			
	AN	BN	AB
SUB.TOT.	13,000	13,000	—
TOTAL	26,000		

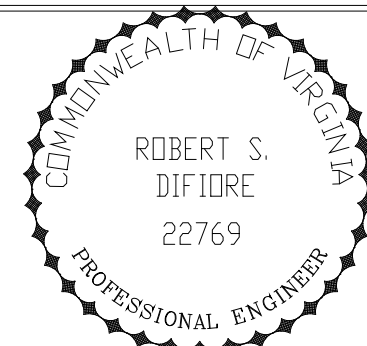
INSTRUMENTATION PANEL, IP-C

ELEV 66.00
240/120V, 1Ø, 3 WIRE
150A MAINS, 150A MAIN BREAKER
42KA A.I.C. RATING

RECORD DRAWING

FILED: 11/20/2019 10:00 AM FILE: H:\2018\18045\18045-157-EP08-100-1.dwg BY: MTL REF: FILE = INCL

DESIGNED	CHN
DRAWN	BRC
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PROJ.ENGR	AB/RNC
APPROVED	

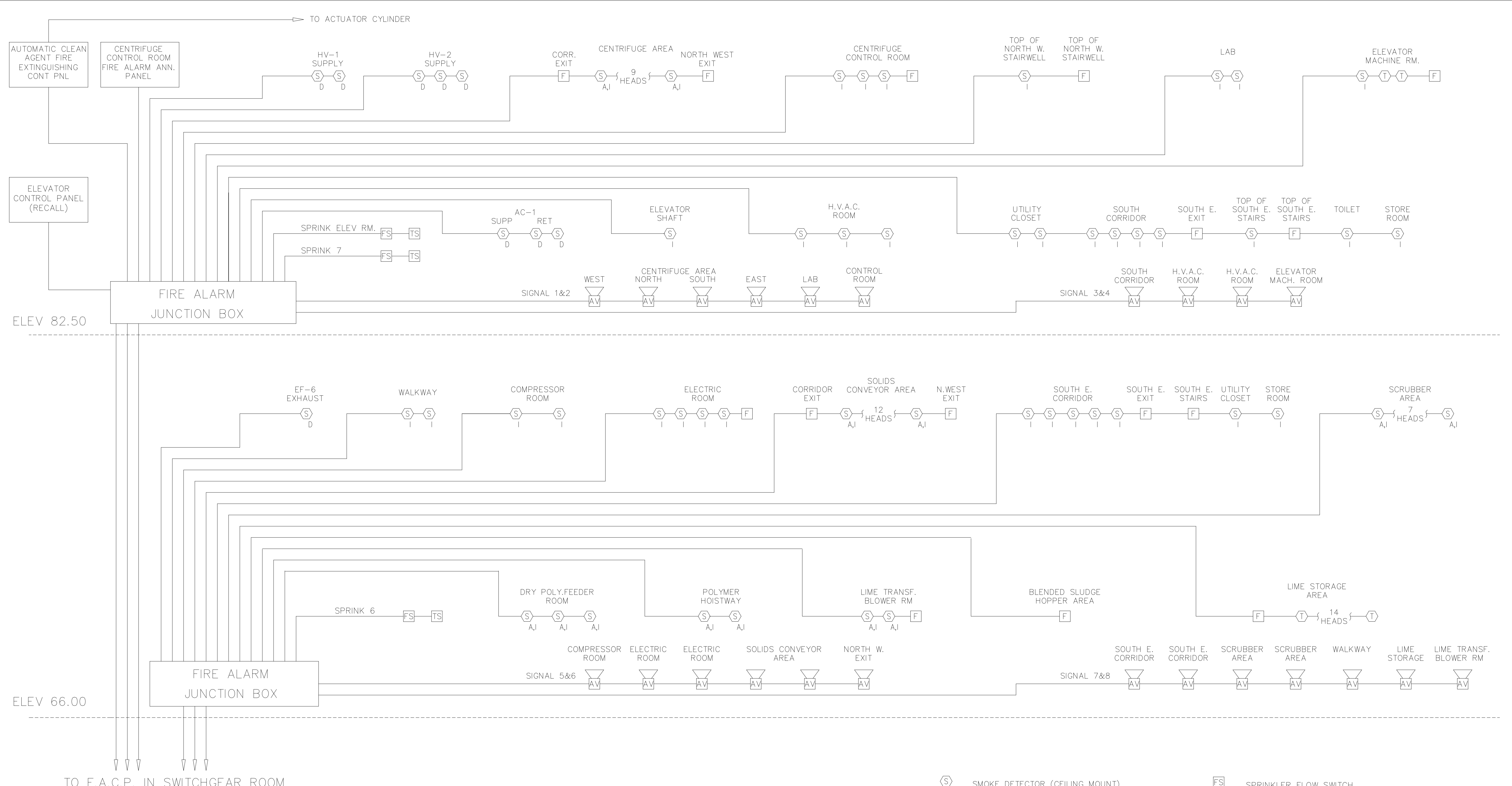


HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
PANEL SCHEDULES

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC	DRAWING NUMBER E-208
	SHEET 147	OF 199



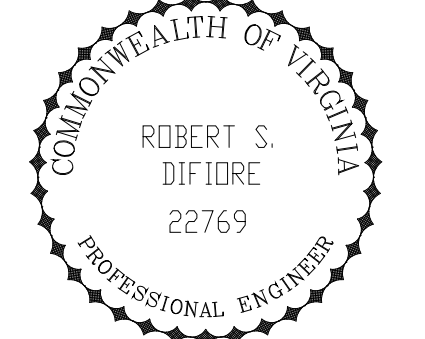
NOTES:
 FIRE ALARM EQUIPMENT QUANTITIES AND LOCATIONS ARE MINIMUM REQUIREMENTS. ACTUAL INSTALLATION SHALL BE PER MANUFACTURERS RECOMMENDATIONS, NFPA AND ALL LOCAL CODE REQUIREMENTS.
 IN ADDITION TO THE ZONES INDICATED, THE AUXILIARY CONTACTS FROM ALL HVAC SYSTEM SMOKE DETECTORS SHALL BE WIRED TO THE F.A.C.P. WITH 1 ZONE PER UNIT.
 EACH GROUPING SHALL BE CONSIDERED AN INDEPENDENT INITIATING ZONE AND SHALL HAVE A UNIQUE CODE AND MESSAGE.

5
 TRANSMIT FIRE ALARM SIGNALS DIRECTLY FROM THE FIRE ALARM CONTROL PANEL TO (DISTRIBUTED CONTROL SYSTEM (DCS)) DCU 2A.
 USE SOLID CONDUCTOR WIRE FOR USE ON HARD WIRED NOTIFICATION (FIRE ALARM SYSTEM) APPLIANCE CIRCUITS. MINIMUM WIRE GAUGE SHALL BE 14 AWG THHN.

- (S) SMOKE DETECTOR (CEILING MOUNT)
 I - IONIZATION TYPE
 P - PHOTOELECTRIC TYPE
 A - ADDRESSABLE (MULTIPLEXED)
 D - DUCT TYPE
- (T) THERMAL DETECTOR (FIXED AND RATE OF RISE)
 X - EXPLOSION PROOF (RATED FOR AREA)
 H - HIGH TEMPERATURE (FOR HIGH AMBIENT)
- (AV) AUDIO/VISUAL ALARM INDICATOR (HORN AND STROBE)
- (F) MANUAL PULL STATION
- (FS) SPRINKLER FLOW SWITCH
- (TS) VALVE TAMPER SWITCH
- SPRINKLER EQUIPMENT INSTALLED BY SPRINKLER CONTRACTOR WIRE & COND. BY ELECTRICAL CONTRACTOR

RECORD DRAWING

DESIGNED	CHN
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	
NO.	ISSUED FOR
	DATE
	BY



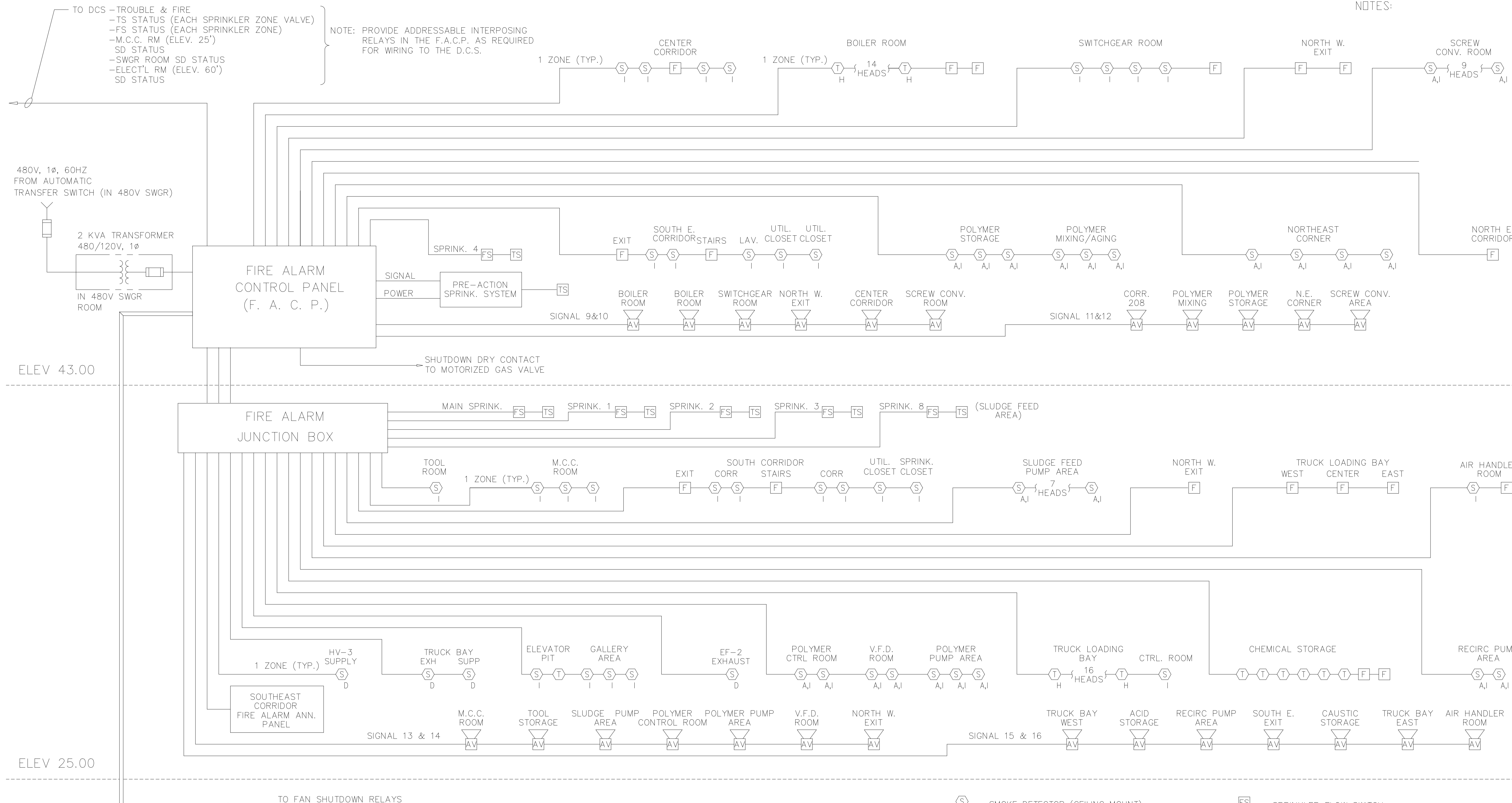
HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 ELECTRICAL
 RISER DIAGRAM
 FIRE ALARM SYSTEM - SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-209
	SHEET	148 OF 199

NOTES:



TO DCS - TROUBLE & FIRE
 -TS STATUS (EACH SPRINKLER ZONE VALVE)
 -FS STATUS (EACH SPRINKLER ZONE)
 -M.C.C. RM (ELEV. 25')
 SD STATUS
 -SWGR ROOM SD STATUS
 -ELECT'L RM (ELEV. 60')
 SD STATUS

NOTE: PROVIDE ADDRESSABLE INTERPOSING RELAYS IN THE F.A.C.P. AS REQUIRED FOR WIRING TO THE D.C.S.

480V, 1 ϕ , 60HZ FROM AUTOMATIC TRANSFER SWITCH (IN 480V SWGR)

2 KVA TRANSFORMER 480/120V, 1 ϕ IN 480V SWGR ROOM

FIRE ALARM CONTROL PANEL (F. A. C. P.)

FIRE ALARM JUNCTION BOX

ELEV 43.00

ELEV 25.00

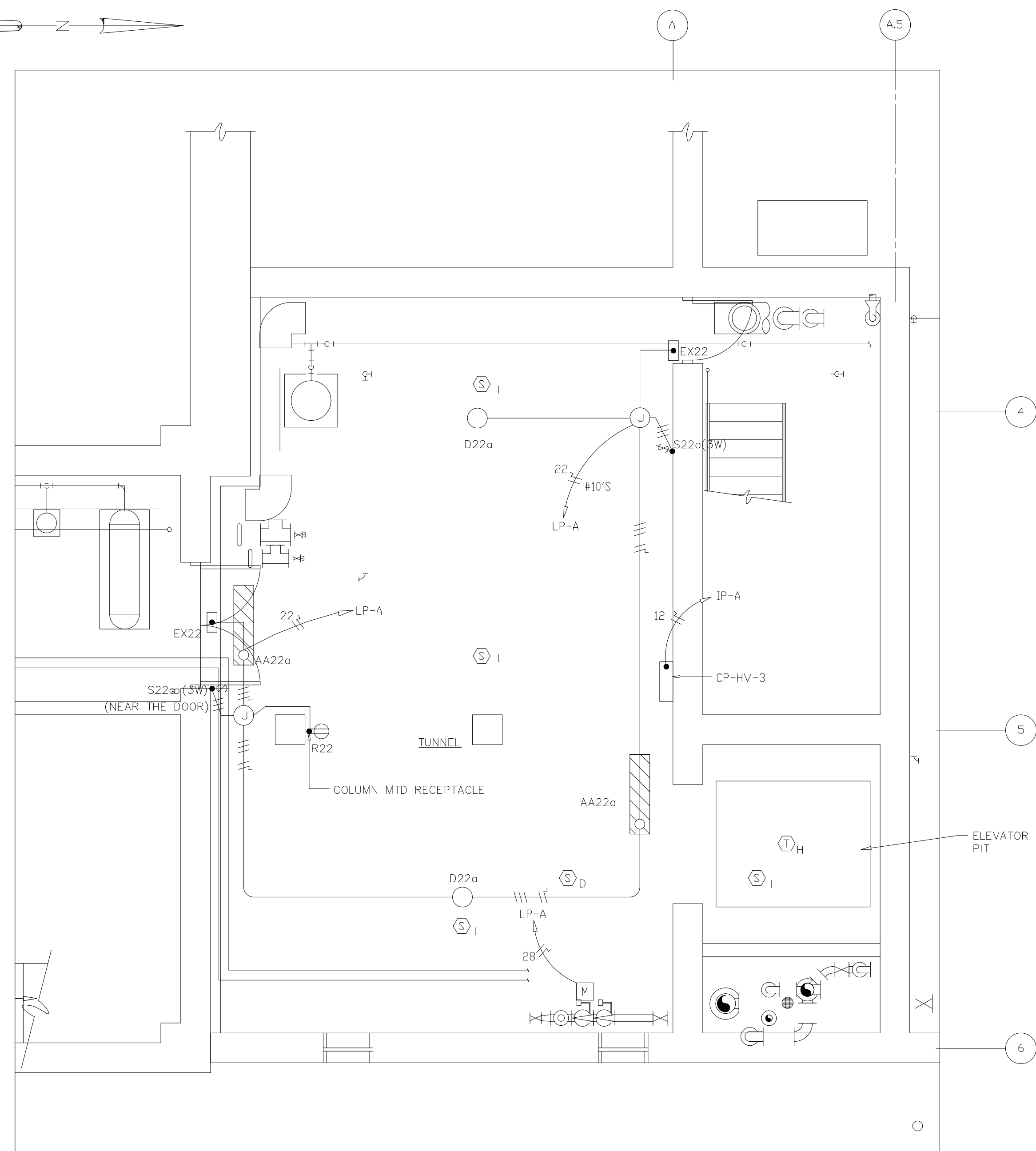
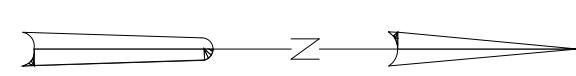
TO FAN SHUTDOWN RELAYS IN ALL MOTOR CONTROL CENTERS, A/C's, H&V UNITS, CRACs, PTACs etc. (FURNISH & INSTALL RELAYS AT ALL REMOTE EQUIPMENT)

NOTES:
 FIRE ALARM EQUIPMENT QUANTITIES AND LOCATIONS ARE MINIMUM REQUIREMENTS. ACTUAL INSTALLATION SHALL BE PER MANUFACTURERS RECOMMENDATIONS, NFPA AND ALL LOCAL CODE REQUIREMENTS.
 IN ADDITION TO THE ZONES INDICATED, THE AUXILIARY CONTACTS FROM ALL HVAC SYSTEM SMOKE DETECTORS SHALL BE WIRED TO THE F.A.C.P. WITH 1 ZONE PER UNIT.
 EACH GROUPING SHALL BE CONSIDERED AN INDEPENDENT INITIATING ZONE AND SHALL HAVE A UNIQUE CODE AND MESSAGE.

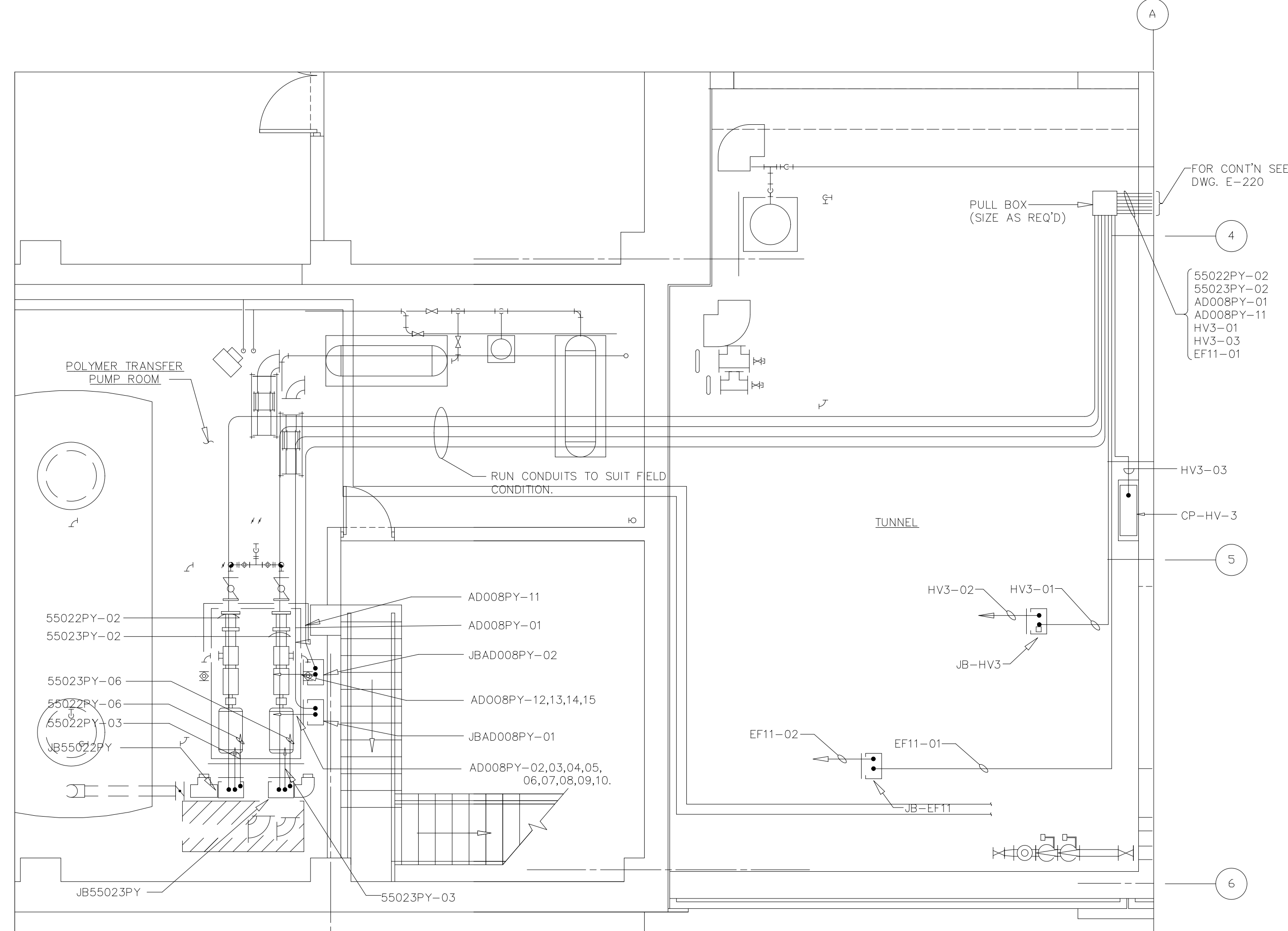
- (S) SMOKE DETECTOR (CEILING MOUNT)
- I - IONIZATION TYPE
- P - PHOTOELECTRIC TYPE
- A - ADDRESSABLE (MULTIPLEXED)
- D - DUCT TYPE
- (T) THERMAL DETECTOR (FIXED AND RATE OF RISE)
- X - EXPLOSION PROOF (RATED FOR AREA)
- H - HIGH TEMPERATURE (FOR HIGH AMBIENT)
- (AV) AUDIO/VISUAL ALARM INDICATOR (HORN AND STROBE)
- (F) MANUAL PULL STATION
- (FS) SPRINKLER FLOW SWITCH
- (TS) VALVE TAMPER SWITCH
- SPRINKLER EQUIPMENT INSTALLED BY SPRINKLER CONTRACTOR WIRE & COND. BY ELECTRICAL CONTRACTOR

RECORD DRAWING

DESIGNED CHN DRAWN BRC CHECKED _____ PROJ. ENGR. AB/RNC J.J.B. APPROVED _____						HAZENAND SAWYER Environmental Engineers & Scientists RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA		ARLINGTON COUNTY WATER POLLUTION CONTROL PLANT UPGRADE AND EXPANSION - PHASE III A SOLIDS PROCESSING FACILITIES		CENTRIFUGE DEWATERING BUILDING ELECTRICAL RISER DIAGRAM FIRE ALARM SYSTEM - SHEET 2		THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94 H & S JOB NUMBER 2843 CONTRACT NUMBER 93-02-WPC DRAWING NUMBER E-210 SHEET 149 OF 199
5	RECORD DRAWING	4-99	MKS										
4	WP6/7 CONST.-LAND APP. REDES.	4-96	RSD										
3	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD										
2	CONSTRUCTION	9-94	JJB										
1	REGULATORY APPROVAL	9-94	JJB										
	ISSUED FOR	DATE	BY	APPROVED									



ELEV. 18.00' - TUNNEL
LIGHTING AND RECEPTACLE PLAN



ELEV. 18.00' - TUNNEL AND POLYMER TRANSFER PUMP ROOM
POWER PLAN

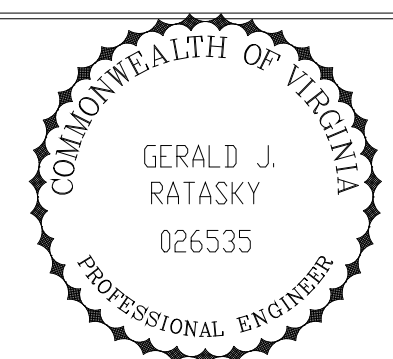
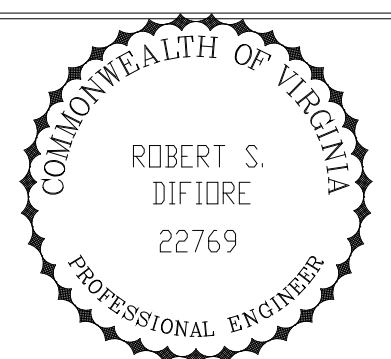
TYPE	WATTS	TYPE LUMINAIRE	MFGR/CATALOG #
A	2-40	PENDANT/CEILING/WALL MOUNTED, FLOURESCENT FIXTURE, ENCLOSED/GASKETED, HIGH IMPACT U.V. RESISTANT ACRYLIC DROP LENS, ALUMINUM WITH POLYESTER POWDER COATING, ADJUSTABLE (110 DEGREE RANGE) MOUNTING BRACKETS, 120VAC HPF BALLAST	PAULUHN TYPE FWN, OR EQUAL
AA	2-40	SAME AS TYPE "A" BUT WITH EMERGENCY BATTERY PACK	SAME AS TYPE "A", OR EQUAL
B	2-40	SAME AS TYPE "A" BUT STAINLESS STEEL	SAME AS TYPE "A", OR EQUAL
BB	2-40	SAME AS TYPE "B" BUT WITH EMERGENCY BATTERY PACK	SAME AS TYPE "A" OR EQUAL
C	2-40	FLOURESCENT FIXTURE ENCLOSED AND GASKETED PENDANT OR CEILING MOUNTED, 120 VAC HPF BALLAST	APPLETON TYPE FRS OR EQUAL
CC	2-40	SAME AS TYPE "C" BUT WITH EMERGENCY POWER PACK	SAME AS TYPE "C", OR EQUAL
D	175	VAPOR PROOF, ENCLOSED AND GASKETED HID (MH) PENDANT/WALL/CEILING MOUNTED, ALL STAINLESS STEEL CONSTRUCTION.	PAULUHN TYPE HAZCOR, OR EQUAL
EX		WALL/CEILING MOUNTED, SELF-CONTAINED EMERGENCY EXIT UNIT, VAPORTIGHT AND CORROSION RESISTANT, 120 VAC	EXIDE TYPE NX-EP-100, OR EQUAL

TYPE	WATTS	TYPE LUMINAIRE	MFGR/CATALOG #
F	400	WATERTIGHT/VAPOR PROOF ALL STAINLESS STEEL CONSTRUCTION HID (MH), HIGH IMPACT TEMPERED GLASS LENS, SPECULAR "AZZAK" REFLECTOR, 120 VAC HPF BALLAST	PAULUHN TYPE NHID, OR EQUAL
G	175	SAME AS TYPE "D" BUT WITH WALL BRACKET AND 30° ANGLE REFLECTOR	SAME AS TYPE "D", OR EQUAL
H	70	WALL MOUNTED HPS LIGHTING FIXTURE WITH INTEGRAL PHOTOCELL, WIRE GROUNDS AND SUITABLE FOR OUTDOOR/WET LOCATIONS	HOLOPHANE TYPE WALLPACK II, OR EQUAL
K	400	METAL HALIDE, INTEGRALLY BALLASTED FLOOD LIGHTS, WITH EXTERNAL PHOTOCELL, MOUNTED ON A TWENTY (20) FOOT ROUND TAPERED OR RECTANGULAR STAINLESS STEEL POLE.	APPLETON G-AM77SH-MT-L LIGHTING FIXTURE, OR EQUAL, G-PB-2 POLE TOP BRACKET AND G-PRTH-20-GAL POLE, OR EQUAL
L	250	METAL HALIDE, ENCLOSED AND GASKETED, VAPOR PROOF, PENDANT/CEILING MOUNTED WITH NEMA V REFRACTOR	APPLETON MERCMASTER II, OR EQUAL
M	2-40	2X2 FLUORESCENT LIGHTING FIXTURE, GRID MOUNTED, PARABOLIC TYPE WITH 2 INCHES DEEP LOUVER, 16 CELLS	LITHONIA FLUORESCENT TYPE PARAMAX 2PM2-2440-16 NYC, OR EQUAL
MM	2-40	SAME AS TYPE "M" BUT WITH EMERGENCY BATTERY PACK	SAME AS TYPE "M"
N	2-40	2X2 FLUORESCENT LIGHTING FIXTURE, GRID MOUNTED, ACRYLIC PRISMATIC DIFFUSER	LITHONIA FLUORESCENT PREMIUM TROFFER TYPE 25P-2U40NYC, OR EQUAL
NN	2-40	SAME AS TYPE "N" BUT WITH EMERGENCY BATTERY PACK	SAME AS TYPE "N"

RECORD DRAWING

FILED: 09/14/94 10:00 AM FILED IN 0240 DRAWING TITLE: ELECTRICAL BY: MMTS REF: FILE # 002

DESIGNED	EC/CHN
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

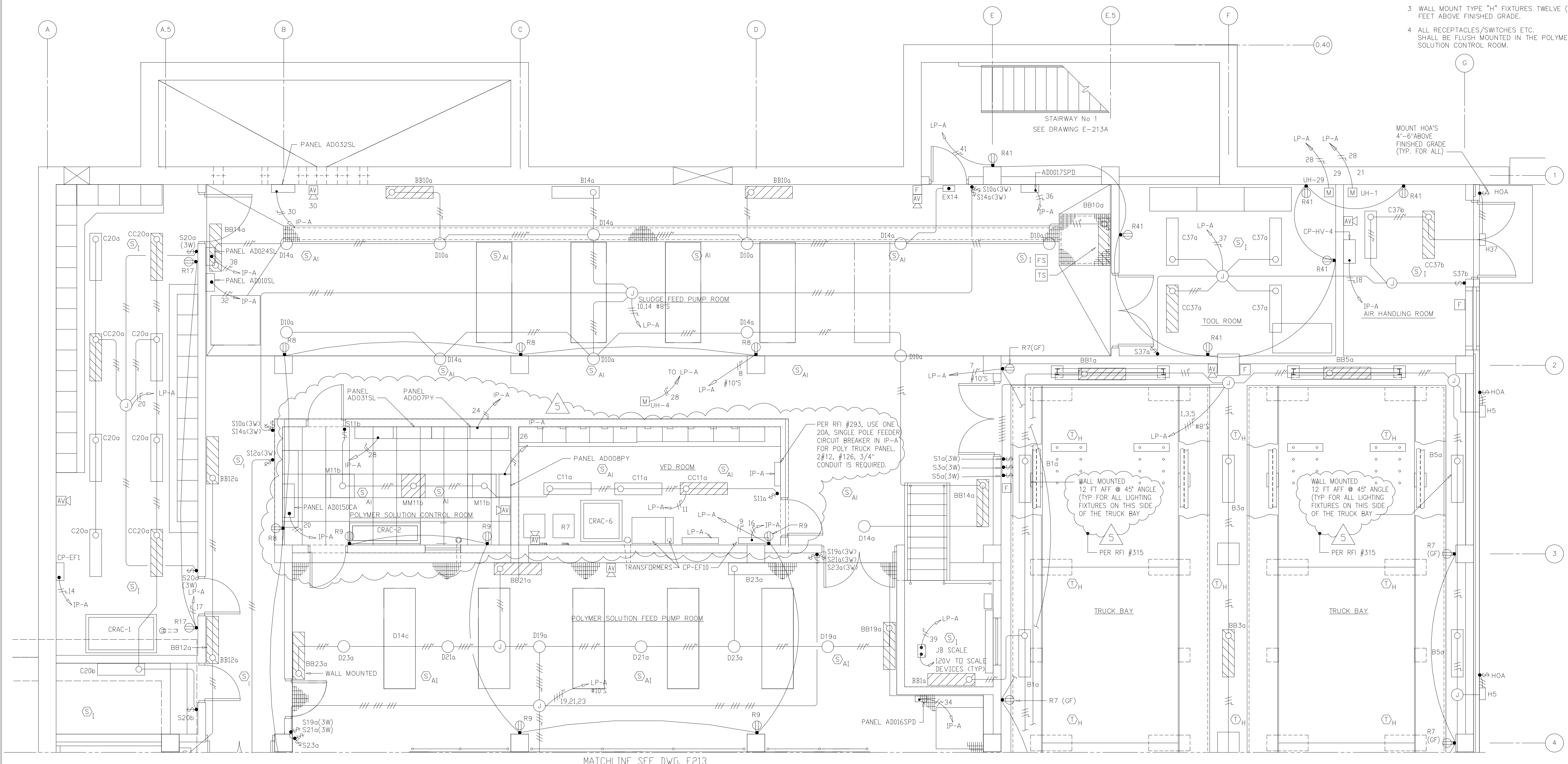
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
LIGHTING & POWER PLAN
TUNNEL/POLYMER TRANSFER PUMP ROOM

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-211
	SHEET	150 OF 199

NOTES:

- 1 ALL FLUORESCENT LIGHTING FIXTURES SHALL BE WALL OR PENDANT MOUNTED TEN (10) FEET ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
- 2 ALL HID LIGHTING FIXTURES SHALL BE PENDANT MOUNTED TWELVE (12) FEET ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
- 3 WALL MOUNT TYPE "H" FIXTURES TWELVE (12) FEET ABOVE FINISHED GRADE.
- 4 ALL RECEPTACLES/SWITCHES ETC. SHALL BE FLUSH MOUNTED IN THE POLYMER SOLUTION CONTROL ROOM.



MATCHLINE SEE DWG. E213

PLAN - EL 25.00
1/4"=1'-0"

RECORD DRAWING

PLOT DATE: 09/17/02 4:09pm FILE: H:\DATA\mwhp\10-10-02\10-10-02.dwg BY: MATHS REF: FILE = NONE

DESIGNED	CHN
DRAWN	WAM
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	

ROBERT S. DIFIDRE
 22769
 PROFESSIONAL ENGINEER

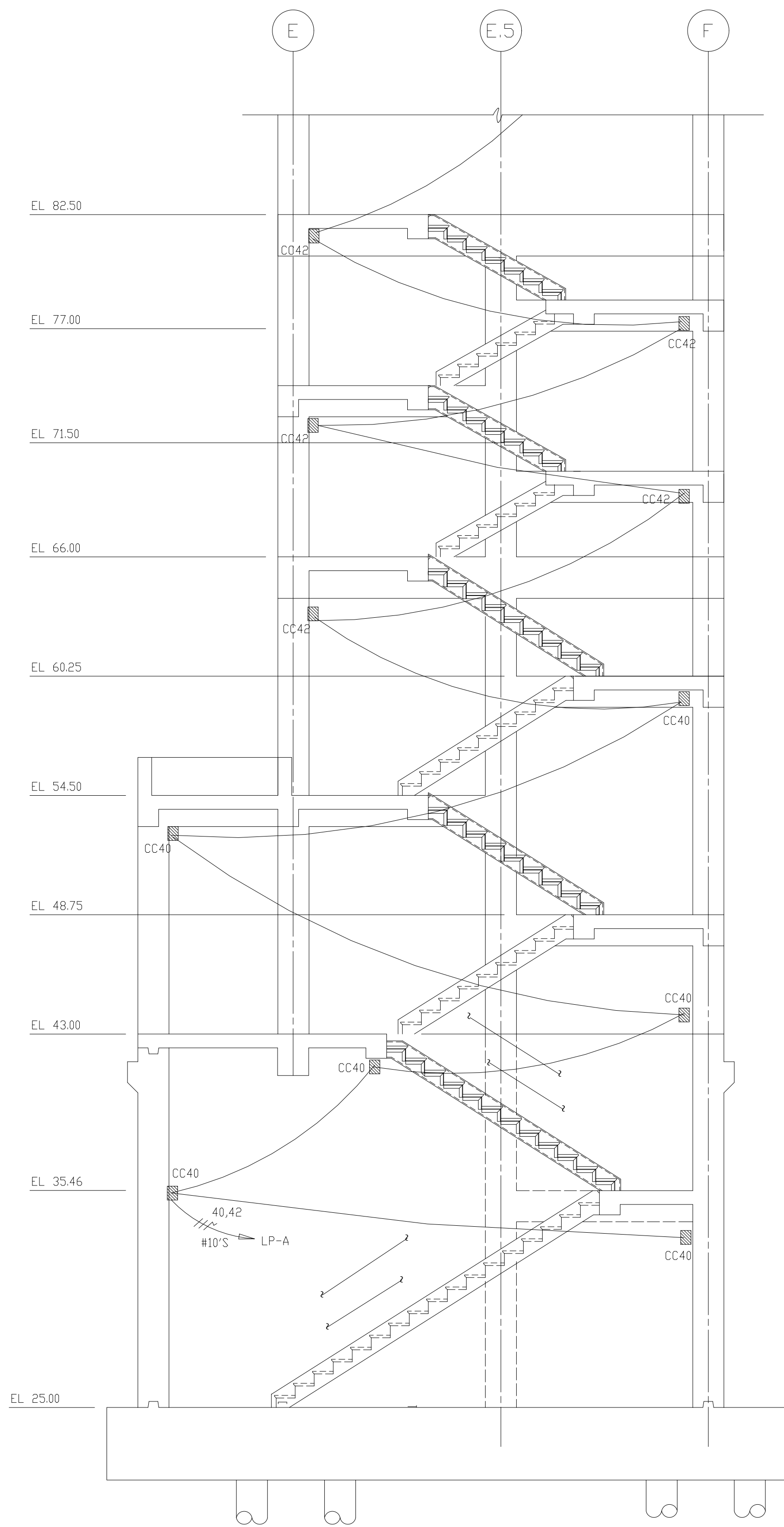
GERALD J. RATASKY
 026535
 PROFESSIONAL ENGINEER

HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

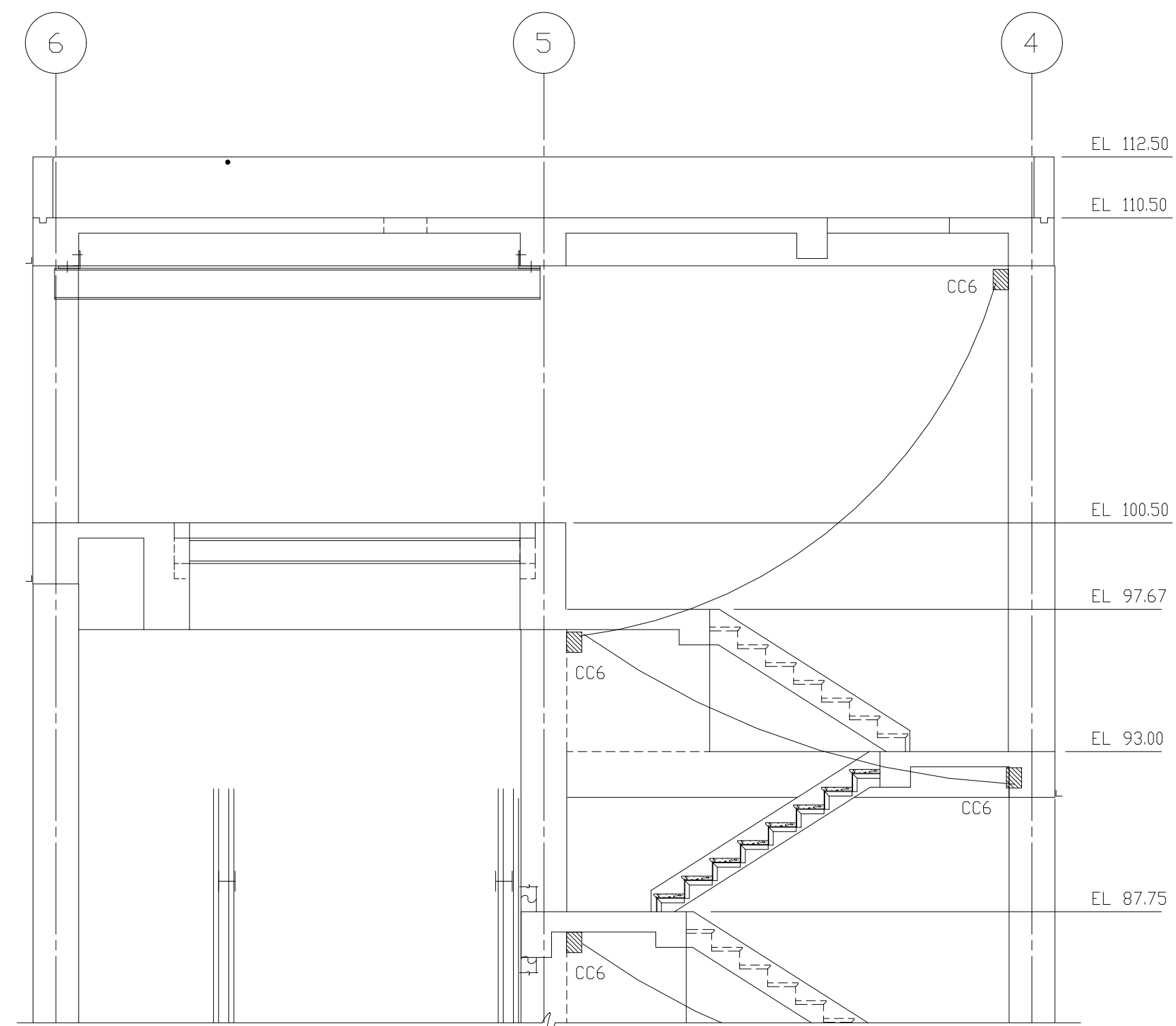
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 ELECTRICAL
 LIGHTING & RECEPTACLE PLAN
 AT EL 25.00 SHEET 1

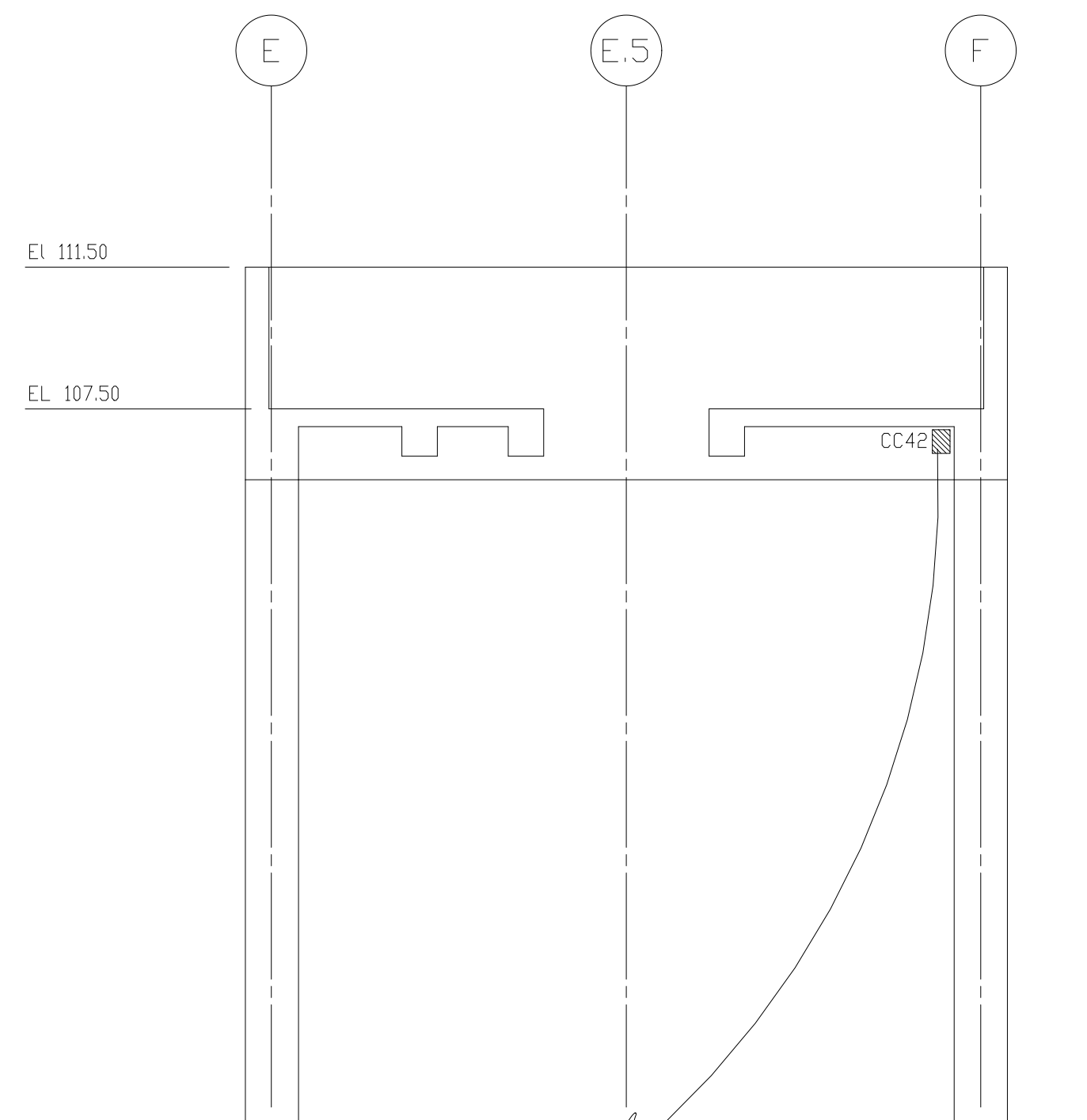
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-212
	SHEET	151 OF 199



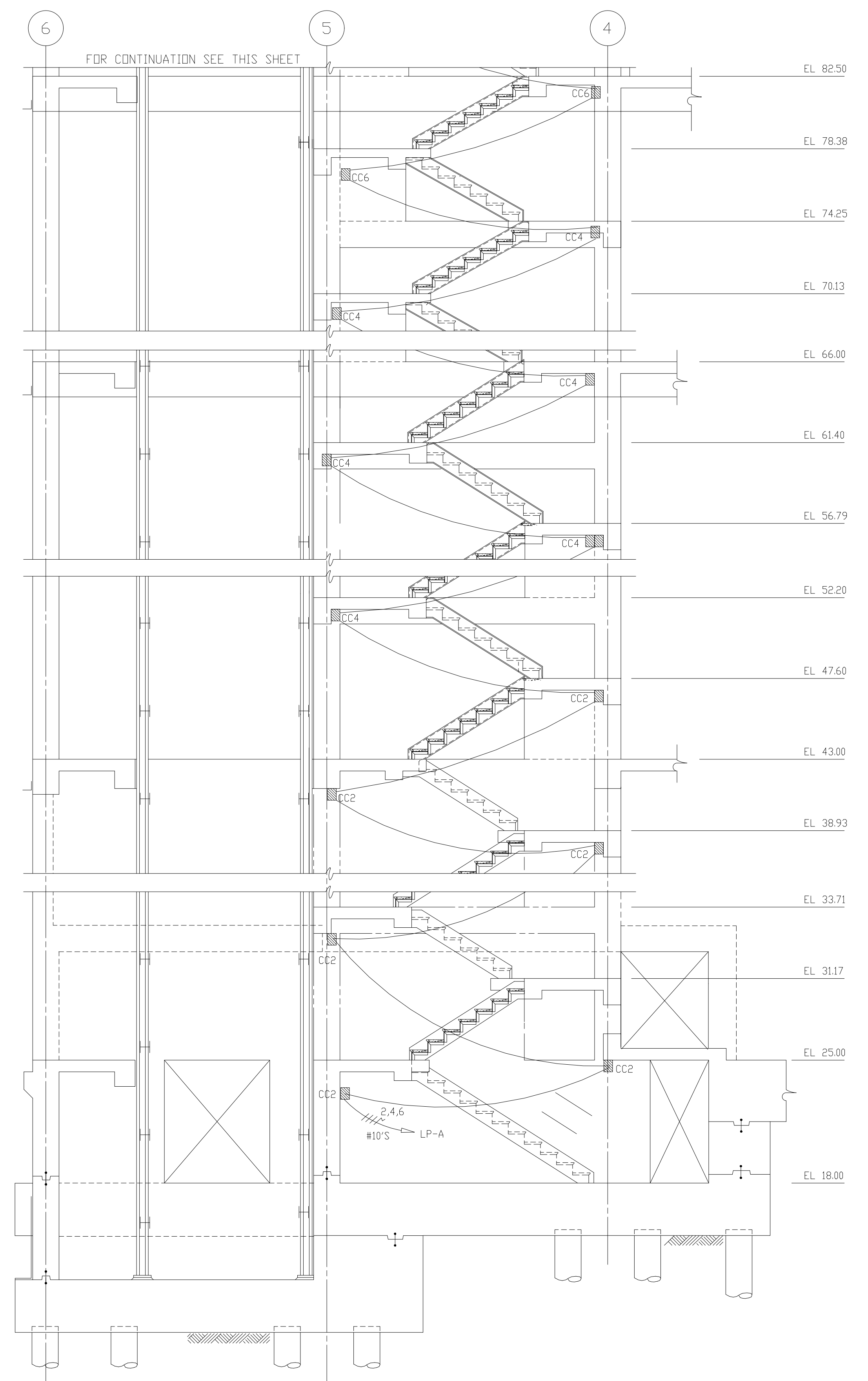
STAIRWAY No 1 LIGHTING
1/4"=1'-0"



FOR CONTINUATION SEE THIS SHEET



FOR CONTINUATION SEE THIS SHEET



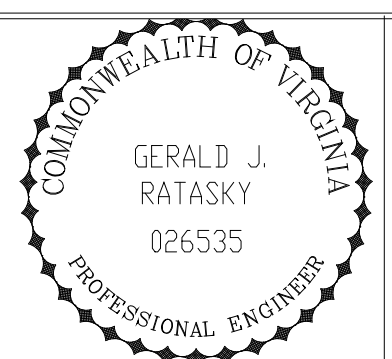
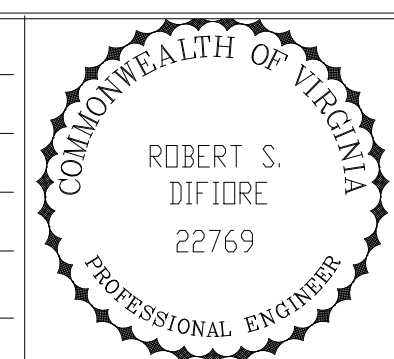
STAIRWAY No 2 LIGHTING
1/4"=1'-0"

RECORD DRAWING

FILED: 08/29/94 10:00 AM PLOT: V:\DRAWINGS\1520A\1520A.dwg BY: MATS. SHEET FILE: 1520A

8	RECORD DRAWING	4-99	MKS															
7	WP3A,4,5,6,7/7 CONST-LAND APP. REDES.	4-96	RSD															
6	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD															
5	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD															
4	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD															
3	WP3A APPROVAL-LAND APP. REDES.	1-96	RSD															
2	CONSTRUCTION	9-94	JJB															
1	REGULATORY APPROVAL	9-94	JJB															
NO.	ISSUED FOR	DATE	BY	NO.	ISSUED FOR	DATE	BY	APPROVED										

DESIGNED: CHN
DRAWN: WAM
CHECKED:
PRJ. ENGR.: AB/RNC

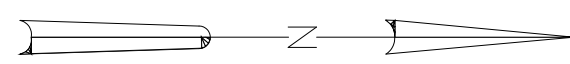


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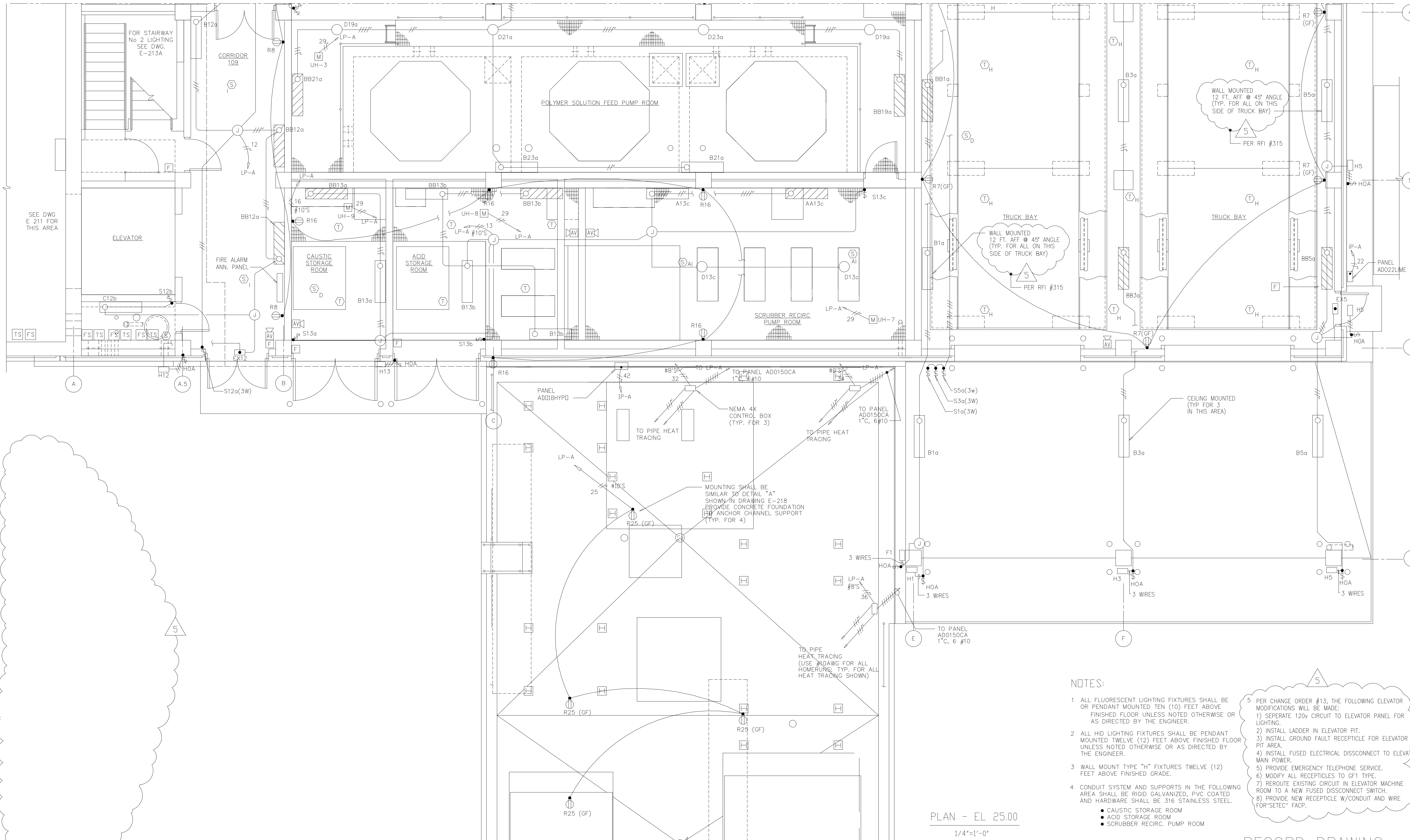
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
LIGHTING & RECEPTACLE
DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER E213A
	SHEET 152A OF 199



MATCHLINE SEE DWG. E212



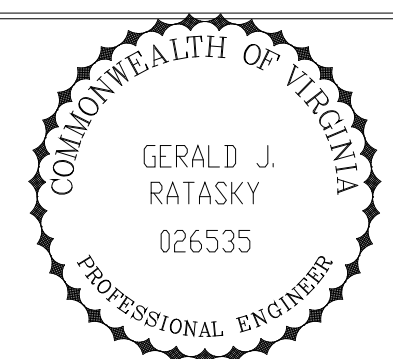
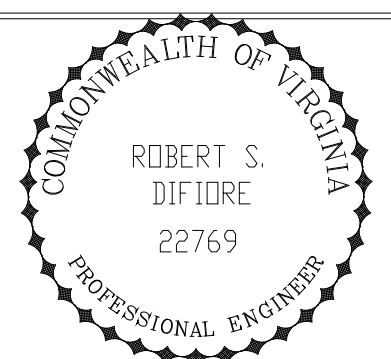
NOTES:

- ALL FLUORESCENT LIGHTING FIXTURES SHALL BE OR PENDANT MOUNTED TEN (10) FEET ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
- ALL HID LIGHTING FIXTURES SHALL BE PENDANT MOUNTED TWELVE (12) FEET ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
- WALL MOUNT TYPE "H" FIXTURES TWELVE (12) FEET ABOVE FINISHED GRADE.
- CONDUIT SYSTEM AND SUPPORTS IN THE FOLLOWING AREA SHALL BE RIGID GALVANIZED, PVC COATED AND HARDWARE SHALL BE 316 STAINLESS STEEL.
 - CAUSTIC STORAGE ROOM
 - ACID STORAGE ROOM
 - SCRUBBER RECIRC. PUMP ROOM
- PER CHANGE ORDER #13, THE FOLLOWING ELEVATOR MODIFICATIONS WILL BE MADE:
 - SEPERATE 120V CIRCUIT TO ELEVATOR PANEL FOR LIGHTING.
 - INSTALL LADDER IN ELEVATOR PIT.
 - INSTALL GROUND FAULT RECEPTACLE FOR ELEVATOR PIT AREA.
 - INSTALL FUSED ELECTRICAL DISCONNECT TO ELEVATOR MAIN POWER.
 - PROVIDE EMERGENCY TELEPHONE SERVICE.
 - MODIFY ALL RECEPTICLES TO GF1 TYPE.
 - REROUTE EXISTING CIRCUIT IN ELEVATOR MACHINE ROOM TO A NEW FUSED DISCONNECT SWITCH.
 - PROVIDE NEW RECEPTICLE W/CONDUIT AND WIRE FOR "SETEC" FACP.

PLAN - EL 25.00
1/4"=1'-0"

RECORD DRAWING

DESIGNED	CHN
DRAWN	WAM
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	



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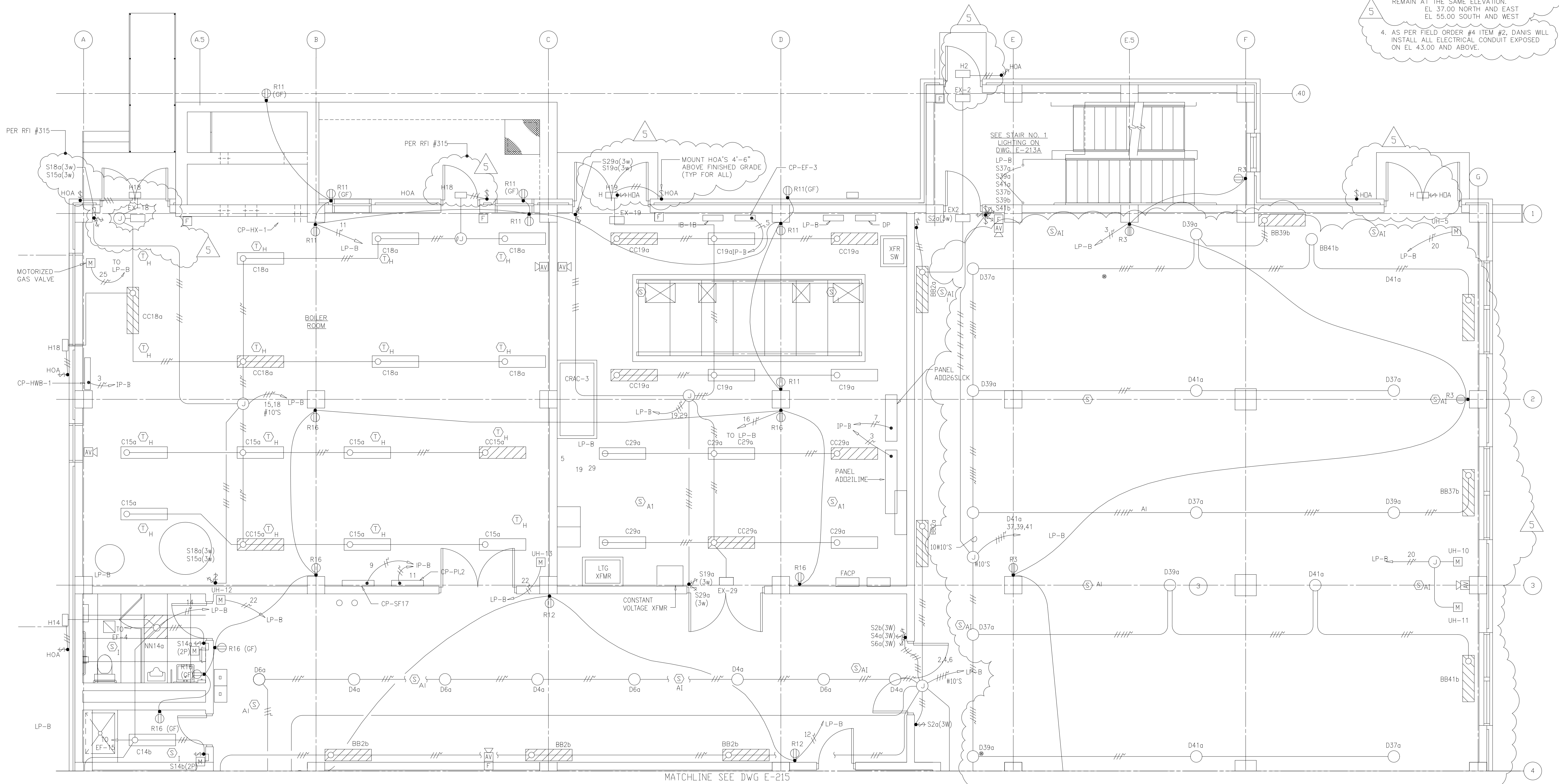
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
LIGHTING & RECEPTACLE PLAN
AT EL 25.00 SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-213
	SHEET	152 OF 199

PLOT DATE: 09/17/94 09:41:10am FILE: H:\DATA\WPC\WPC\152-153.dwg USER: WAM

- NOTES:
1. ALL FLUORESCENT LIGHTING FIXTURES SHALL BE WALL OR PENDANT MOUNTED (10) TEN FEET ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
 2. ALL HID LIGHTING FIXTURES SHALL BE PENDANT MOUNTED TWELVE (12) FEET ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
 3. WALL MOUNT TYPE "H" FIXTURES. LIGHTS SHOULD REMAIN AT THE SAME ELEVATION. EL 37.00 NORTH AND EAST EL 55.00 SOUTH AND WEST
 4. AS PER FIELD ORDER #4 ITEM #2, DANIS WILL INSTALL ALL ELECTRICAL CONDUIT EXPOSED ON EL 43.00 AND ABOVE.

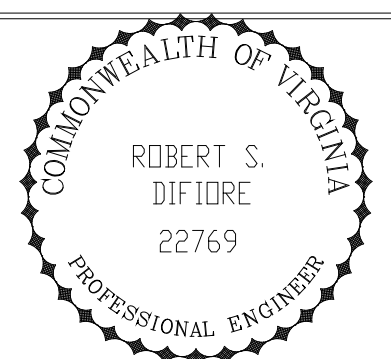


MATCHLINE SEE DWG E-215

RECORD DRAWING

5	RECORD DRAWING	4-99	MKS
4	WP4 CONST.-LAND APP. REDES.	4-96	RSD
3	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD
2	CONSTRUCTION	9-94	JB
1	REGULATORY APPROVAL	9-94	JB
ND.	ISSUED FOR		

DESIGNED CHN
 DRAWN BRC
 CHECKED
 PROJ.ENGR. AB/RNC
 APPROVED



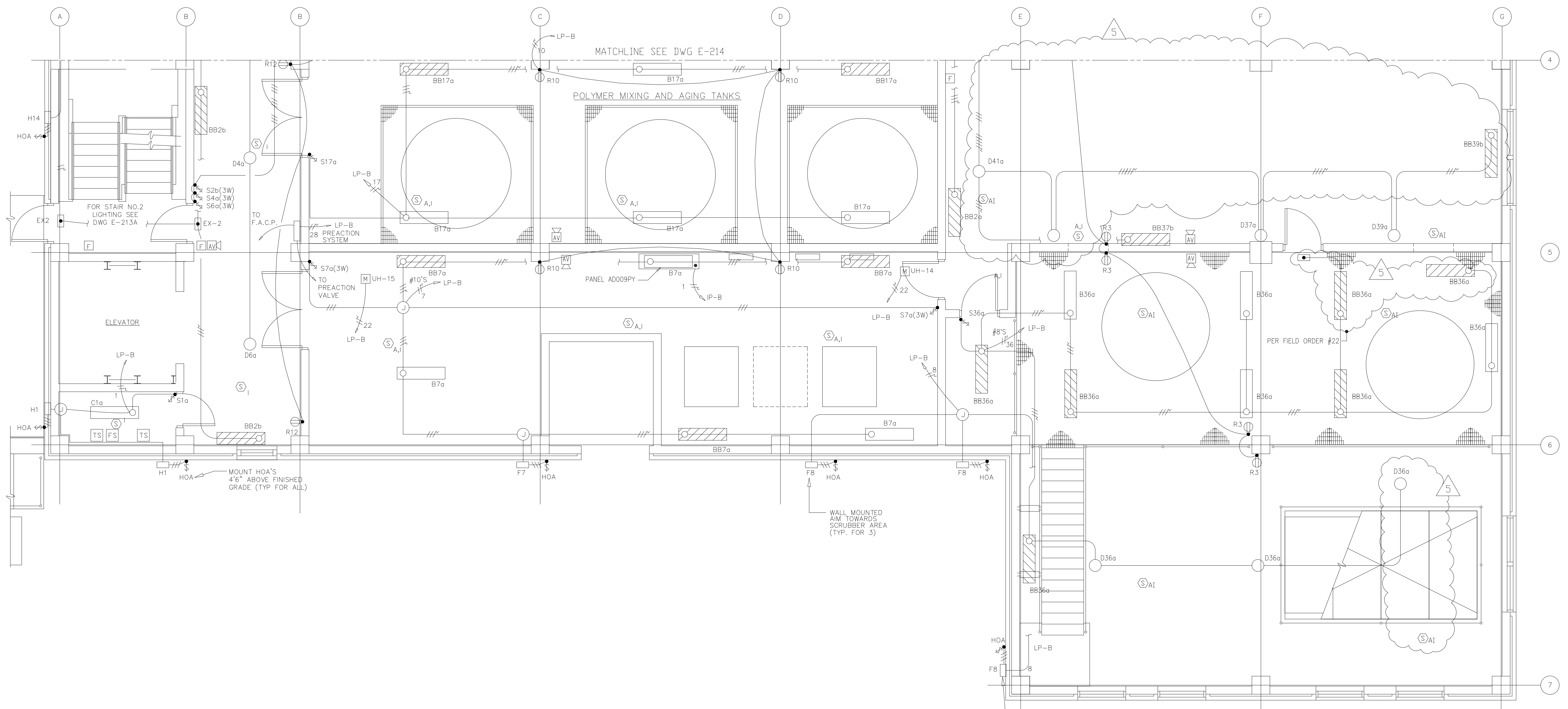
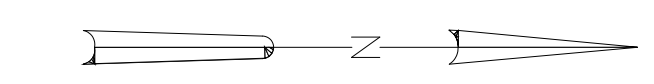
HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 ELECTRICAL
 LIGHTING & RECEPTACLE PLAN
 AT EL. 43.00 SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER E-214
	SHEET 153 OF 199

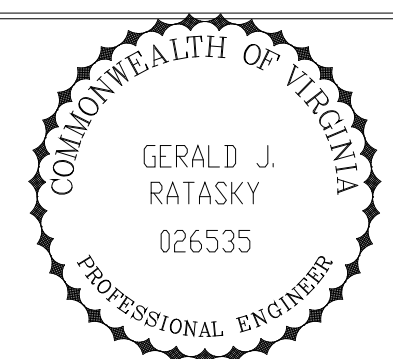
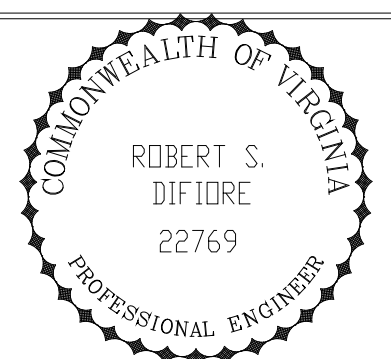
- NOTES:
1. ALL FLUORESCENT LIGHTING FIXTURES SHALL BE WALL OR PENDANT MOUNTED TEN (10) FEET ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
 2. WALL MOUNT TYPE "H" FIXTURES TWELVE (12) FEET ABOVE FINISHED GRADE.
 3. MOUNT TYPE "F" FIXTURES FOURTEEN (14) FEET ABOVE FINISHED GRADE.
 4. PER FIELD ORDER #4 ITEM #2, DANIS WILL INSTALL ALL ELECTRICAL CONDUIT EXPOSED ON EL 43.00 AND ABOVE.



RECORD DRAWING

PLOT DATE 09/12/94 4:10pm FILE: H:\DATA\WPC\WPC\114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000

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DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	



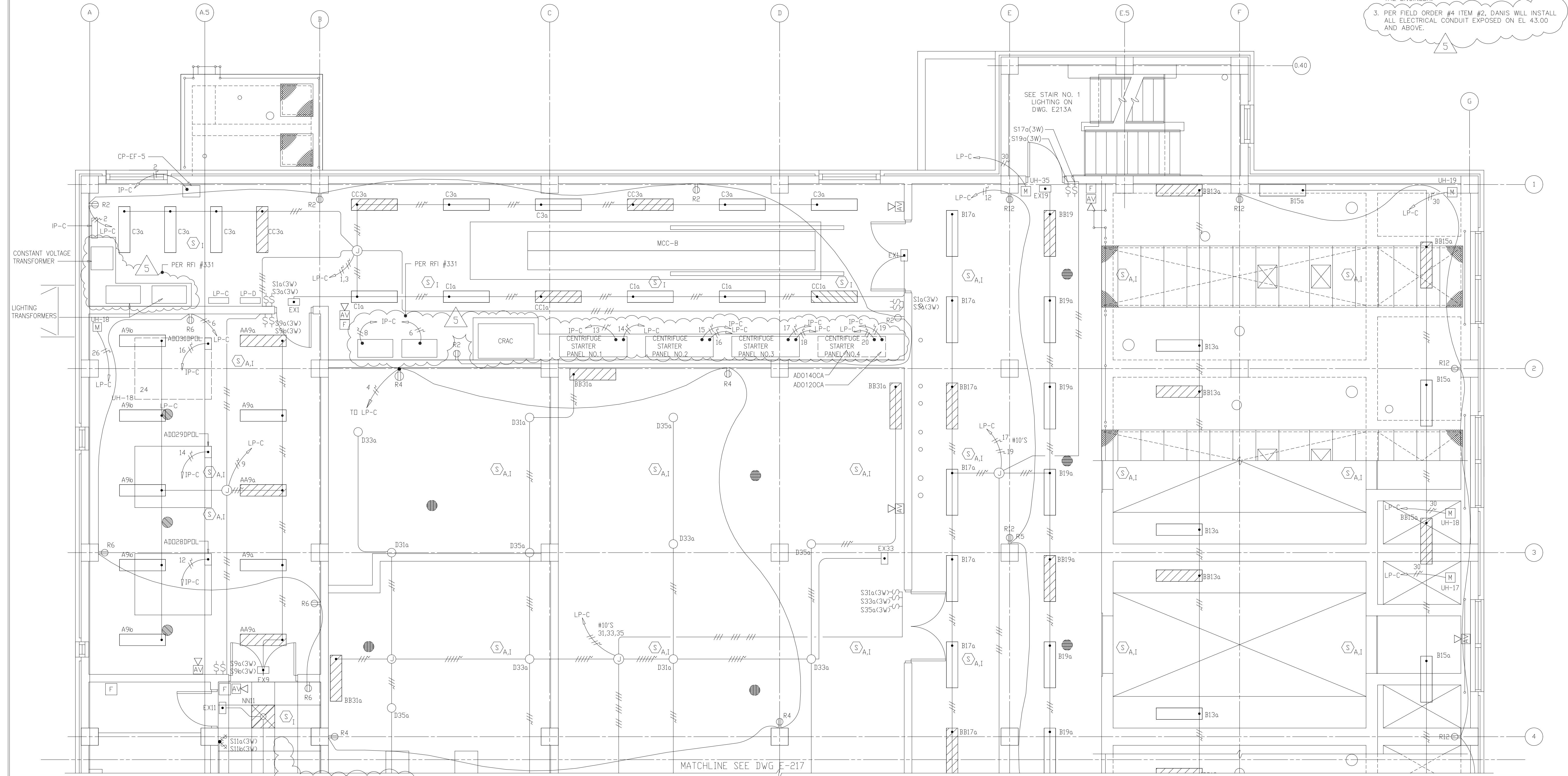
HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 ELECTRICAL
 LIGHTING & RECEPTACLE PLAN
 AT EL. 43.00 SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-215
SHEET 154 OF 199		

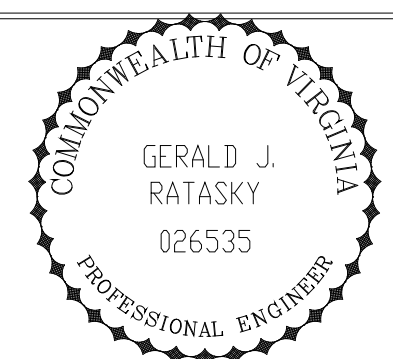
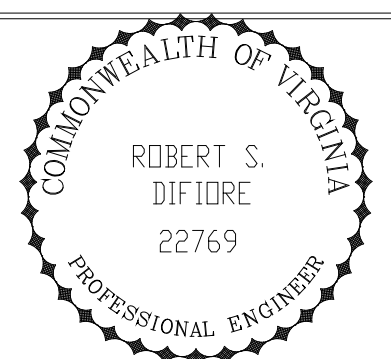
- NOTES:
1. ALL FLUORESCENT LIGHTING FIXTURES SHALL BE WALL OR PENDANT MOUNTED TEN (10) FEET ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
 2. ALL HID LIGHTING FIXTURES SHALL BE PENDANT MOUNTED TWELVE (12) FEET ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
 3. PER FIELD ORDER #4 ITEM #2, DANIS WILL INSTALL ALL ELECTRICAL CONDUIT EXPOSED ON EL. 43.00 AND ABOVE.



RECORD DRAWING

5	RECORD DRAWING	4-99	MKS
4	WP5 CONST.-LAND APP. REDES	4-96	RSD
3	WP5 APPROVAL-LAND APP. REDES.	2-96	RSD
2	CONSTRUCTION	9-94	JB
1	REGULATORY APPROVAL	9-94	JB
ND.	ISSUED FOR		

DESIGNED CHN
 DRAWN BRC
 CHECKED
 PROJ. ENGR. AB/RNC
 APPROVED



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 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

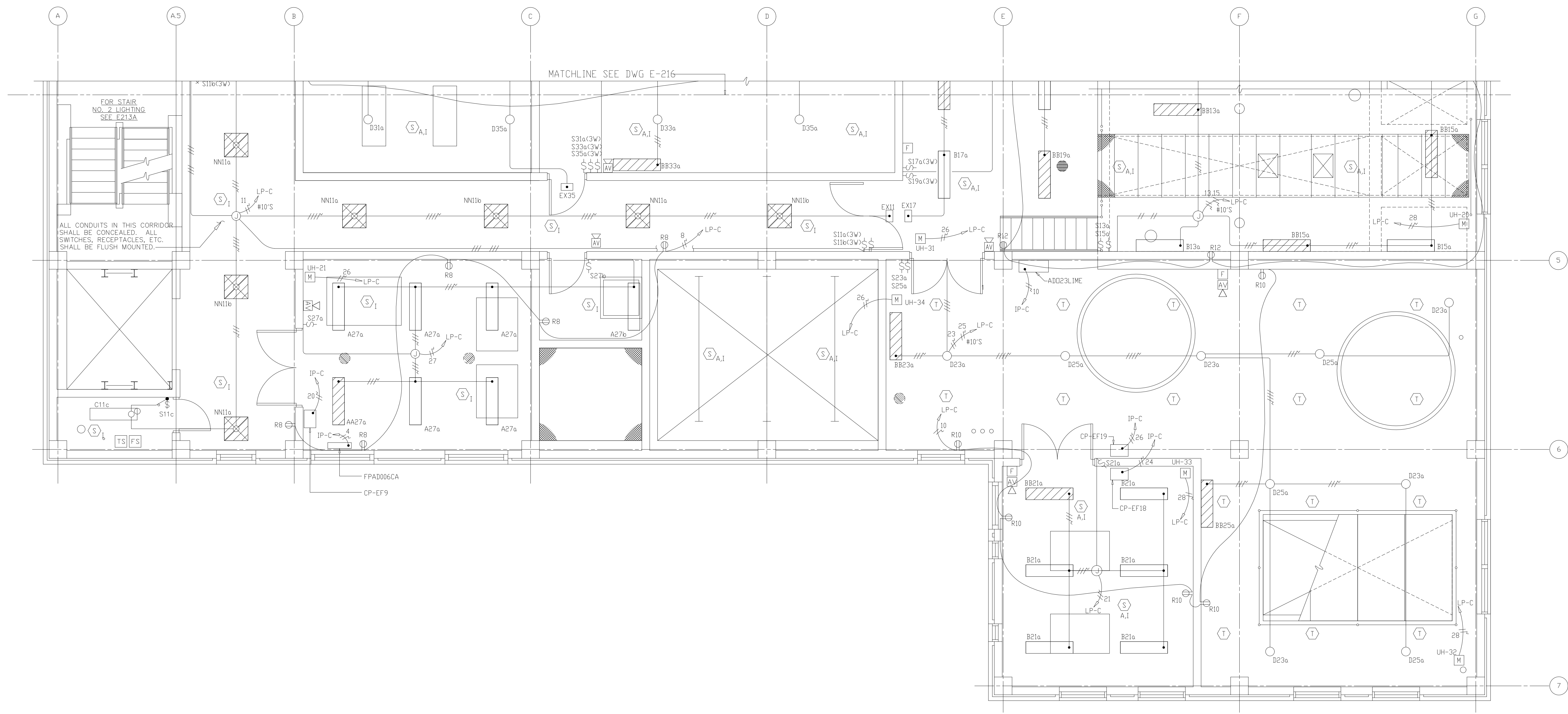
CENTRIFUGE DEWATERING BUILDING
 ELECTRICAL
 PLAN AT ELEVATION 66.00
 LIGHTING & RECEPTACLE - SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
	H & S JOB NUMBER 2843
CONTRACT NUMBER 93-02-WPC	DRAWING NUMBER E-216
SHEET 155 OF 199	

FILED: 10/20/2010 4:40pm FILED: 10/20/2010 4:40pm by MITS: MRF FILE: 10K

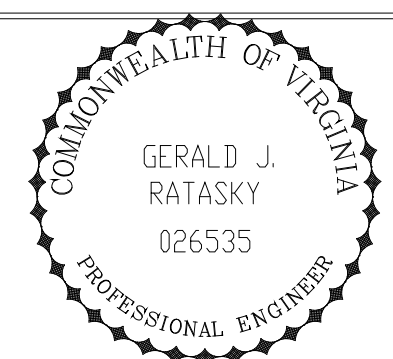
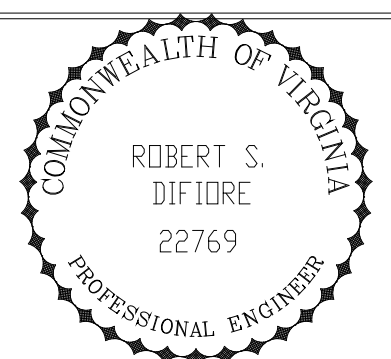
NOTES:

- 1 ALL FLUORESCENT LIGHTING FIXTURES SHALL BE WALL OR PENDANT MOUNTED TEN (10) FEET ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
- 2 PER FIELD ORDER #4 ITEM #2, DANIS WILL INSTALL ALL ELECTRICAL CONDUIT EXPOSED ON EL. 43.00 AND ABOVE.



RECORD DRAWING

DESIGNED	CHN
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



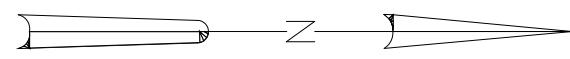
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

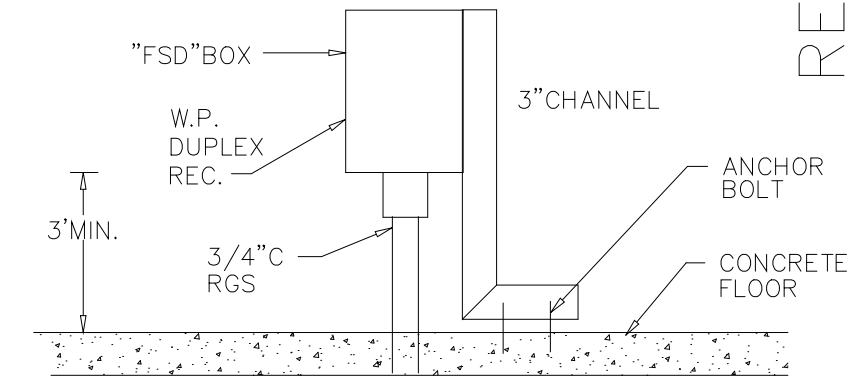
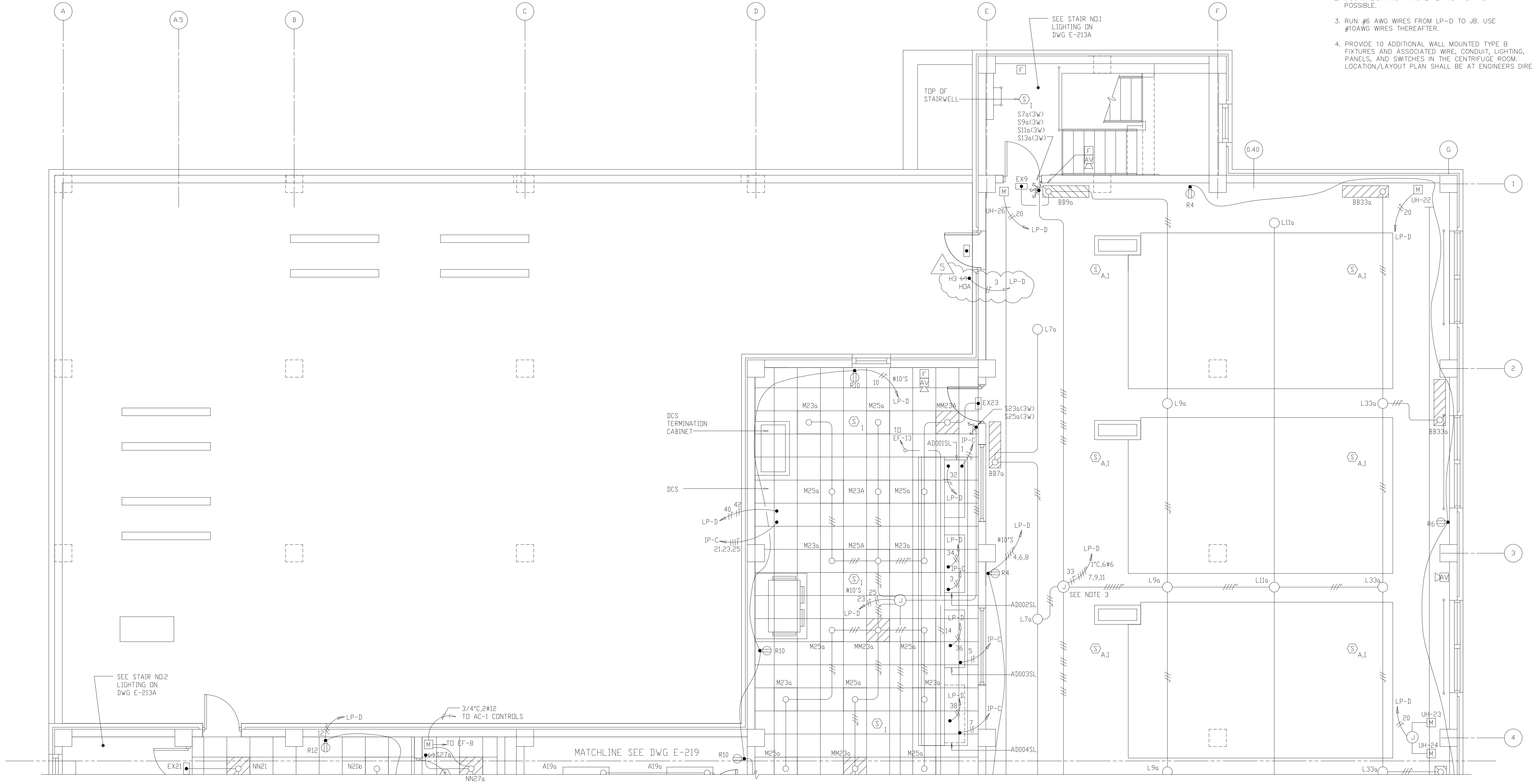
CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
PLAN AT ELEVATION 66.00
LIGHTING & RECEPTACLE - SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-217
	SHEET	156 OF 199

FILED: 10/10/94 10:00 AM FILED: 10/10/94 10:00 AM BY: MITS. SHEP FILED: 10/10/94



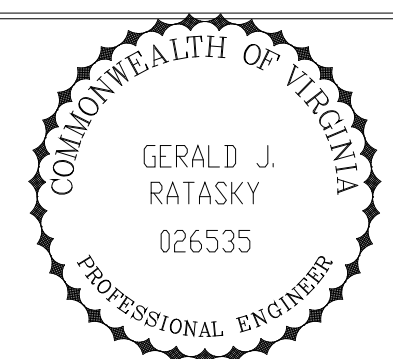
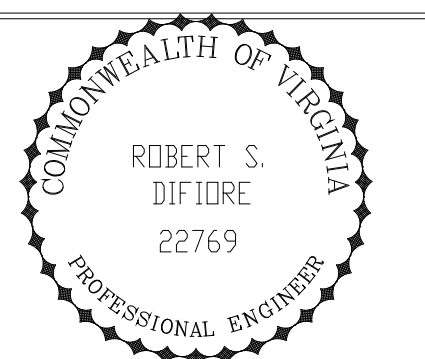
- NOTES:**
1. ALL FLUORESCENT LIGHTING FIXTURES SHALL BE WALL OR PENDANT MOUNTED TEN (10) FEET ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
 2. MOUNT LIGHTING FIXTURE "L" AS HIGH AS POSSIBLE.
 3. RUN #6 AWG WIRES FROM LP-D TO JB. USE #10AWG WIRES THEREAFTER.
 4. PROVIDE 10 ADDITIONAL WALL MOUNTED TYPE B FIXTURES AND ASSOCIATED WIRE, CONDUIT, LIGHTING, PANELS, AND SWITCHES IN THE CENTRIFUGE ROOM. LOCATION/LAYOUT PLAN SHALL BE AT ENGINEERS DIRECTION.



RECORD DRAWING

PLOT: 11/15/94 10:50:00 FILE: I:\H04\NSA\DWG\157-CE10- BY: MITS. SHEET FILE: 1.HDR

DESIGNED	CHN
DRAWN	BRC
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PROJ. ENGR.	AB/RNC
APPROVED	
NO.	ISSUED FOR
	DATE
	BY



Hazenand Sawyer
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

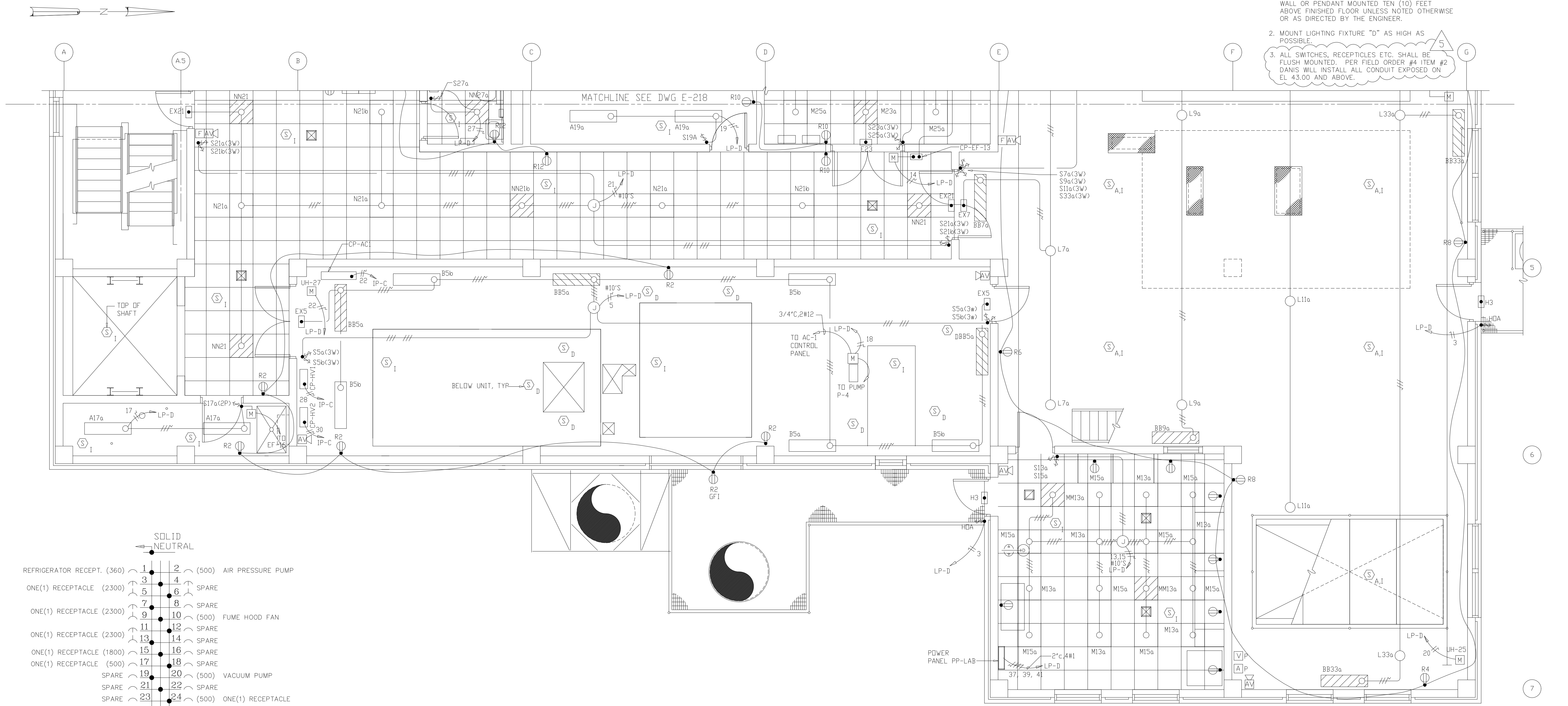
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
LIGHTING & RECEPTACLE PLAN
AT EL 82.50 SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-218
	SHEET	157 OF 199

NOTES:

1. ALL FLUORESCENT LIGHTING FIXTURES SHALL BE WALL OR PENDANT MOUNTED TEN (10) FEET ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
2. MOUNT LIGHTING FIXTURE "D" AS HIGH AS POSSIBLE.
3. ALL SWITCHES, RECEPTILES ETC. SHALL BE FLUSH MOUNTED. PER FIELD ORDER #4 ITEM #2 DANIS WILL INSTALL ALL CONDUIT EXPOSED ON EL 43.00 AND ABOVE.



SOLID NEUTRAL

REFRIGERATOR RECEPT. (360)	1	2	(500) AIR PRESSURE PUMP
ONE(1) RECEPTACLE (2300)	3	4	SPARE
ONE(1) RECEPTACLE (2300)	5	6	SPARE
ONE(1) RECEPTACLE (2300)	7	8	SPARE
ONE(1) RECEPTACLE (2300)	9	10	(500) FUME HOOD FAN
ONE(1) RECEPTACLE (2300)	11	12	SPARE
ONE(1) RECEPTACLE (1800)	13	14	SPARE
ONE(1) RECEPTACLE (500)	15	16	SPARE
SPARE	17	18	(500) VACUUM PUMP
SPARE	19	20	SPARE
SPARE	21	22	(500) ONE(1) RECEPTACLE
SPARE	23	24	SPARE

LOAD - WATTS							
	AN	BN	CN	AB	BC	CA	3PHASE
SUB.TOT.	1360	2660	1500	2300	2300	2300	
TOTAL	12,420						

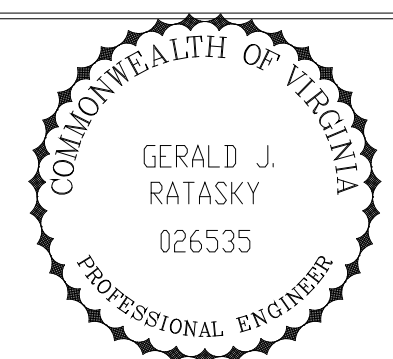
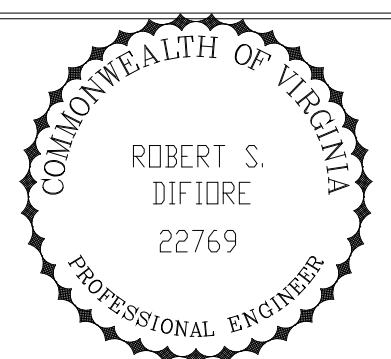
POWER PANEL, PP-LAB
 208Y/120V, 100AMP MAINS, 100A MAIN BREAKER
 42KA CIRCUIT BREAKER INTERRUPTING RATING.

- NOTES:
1. CONDUITS AND CABLES FOR EQUIPMENT AND RECEPTABLES INDICATED ON THE ABOVE PP-LAB PANEL SCHEDULE ARE NOT SHOWN ON THE PLAN. CONDUITS, CABLES AND RECEPTABLES SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. RECEPTABLES AND EQUIPMENT SHALL BE LOCATED BASED ON LAB LAYOUT, WHERE DIRECTED BY EQUIPMENT MANUFACTURER AND AS APPROVED BY THE ENGINEER.
 2. 120 VAC RECEPTACLE SHALL BE FISHER CAT # 91-436 AND 208 VAC RECEPTACLE SHALL BE FISHER CAT # 91-436-1, OR EQUAL.
 3. USE 3/4" C, 3 #12 AWG.

RECORD DRAWING

FILED: 08/24/94 10:00 AM BY: [unreadable]

DESIGNED	CHN
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	

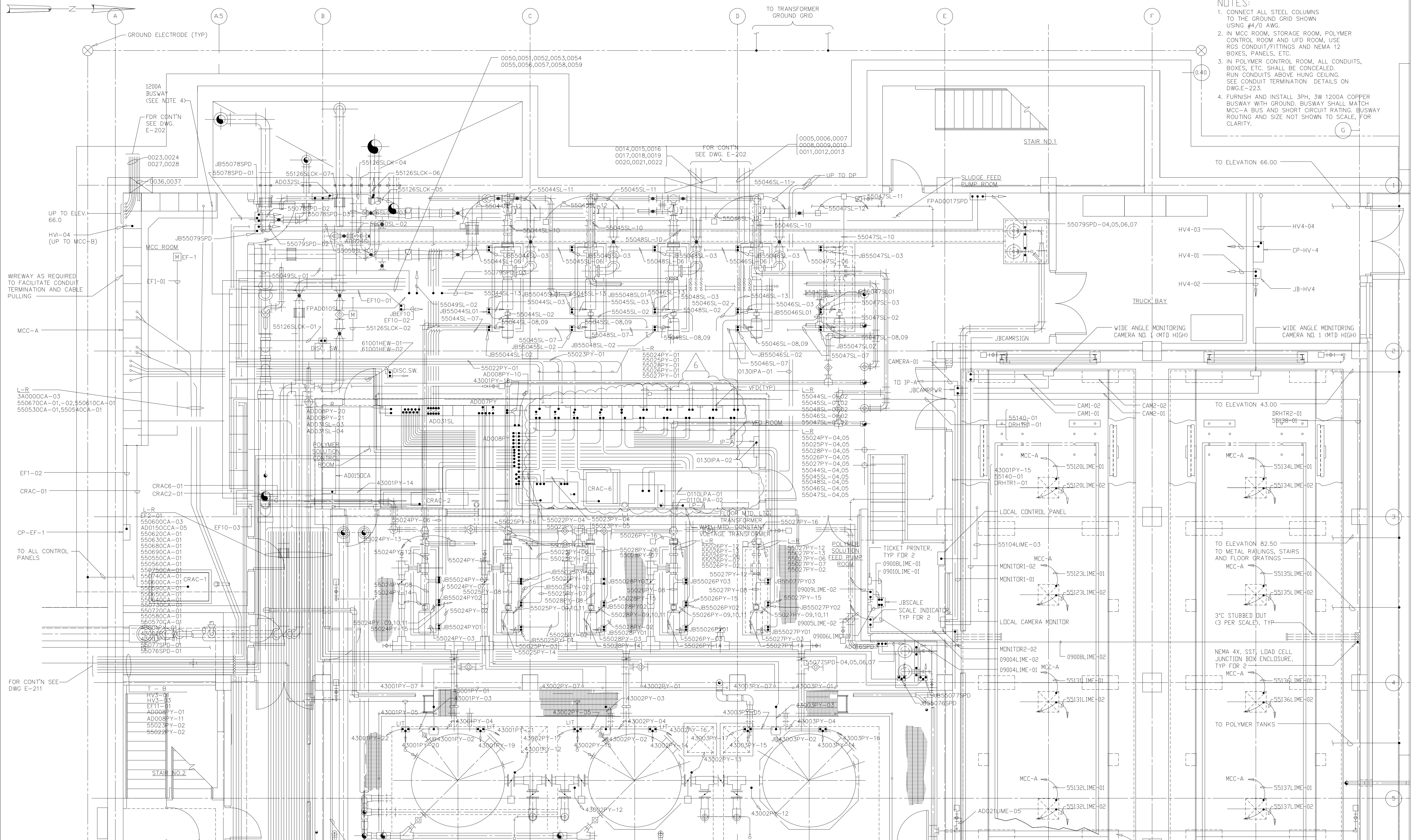


HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 ELECTRICAL
 LIGHTING & RECEPTACLE PLAN
 AT EL 82.50 SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-219
	SHEET	158 OF 199



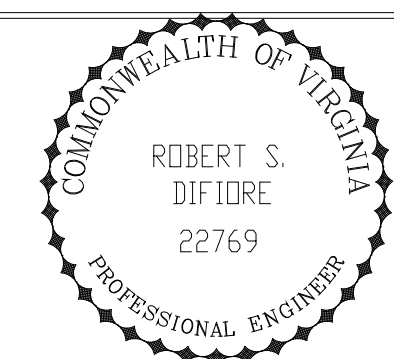
- NOTES:**
- CONNECT ALL STEEL COLUMNS TO THE GROUND GRID SHOWN USING #4/O AWG.
 - IN MCC ROOM, STORAGE ROOM, POLYMER CONTROL ROOM AND UFD ROOM, USE RGS CONDUIT/FITTINGS AND NEMA 12 BOXES, PANELS, ETC.
 - IN POLYMER CONTROL ROOM, ALL CONDUITS, BOXES, ETC. SHALL BE CONCEALED. RUN CONDUITS ABOVE HUNG CEILING. SEE CONDUIT TERMINATION DETAILS ON DWG E-223.
 - FURNISH AND INSTALL 3PH, 3W 1200A COPPER BUSWAY WITH GROUND. BUSWAY SHALL MATCH MCC-A BUS AND SHORT CIRCUIT RATING. BUSWAY ROUTING AND SIZE NOT SHOWN TO SCALE, FOR CLARITY.

PLAN - EL 25.00
1/4"=1'-0"

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
6	RECORD DRAWING	6-99	MKS	
5	PH IIIA REDESIGN ARTH. NO.7	6-97	JMM	
4	WP3A CONST.-LAND APP. REDES.	4-96	RSD	
3	WP3A APPROVAL-LAND APP. REDES.	1-96	RSD	
2	CONSTRUCTION	9-94	JJB	
1	REGULATORY APPROVAL	9-94	JJB	

DESIGNED	CHN
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC

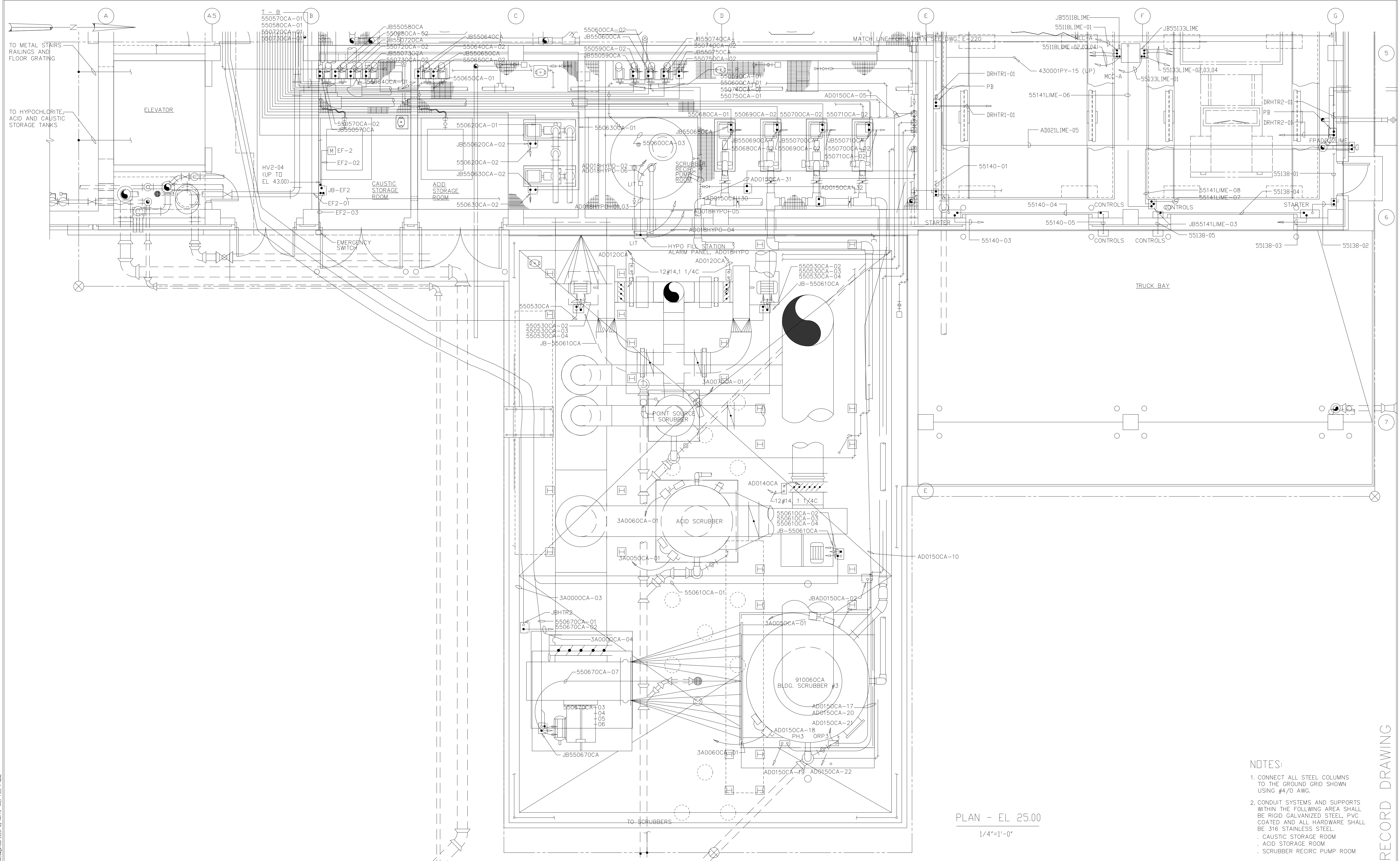


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
POWER PLAN
AT EL 25.00 SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER E-220
	SHEET 159 OF 199

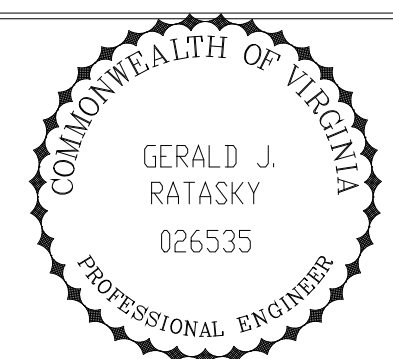
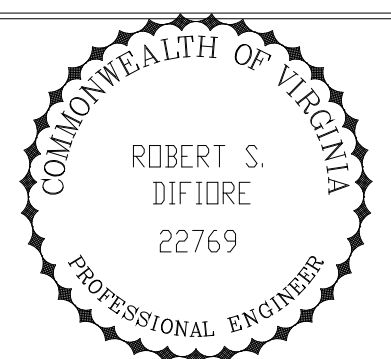


PLAN - EL 25.00
1/4"=1'-0"

- NOTES:
1. CONNECT ALL STEEL COLUMNS TO THE GROUND GRID SHOWN USING #4/0 AWG.
 2. CONDUIT SYSTEMS AND SUPPORTS WITHIN THE FOLLOWING AREA SHALL BE RIGID GALVANIZED STEEL, PVC COATED AND ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
 - CAUSTIC STORAGE ROOM
 - ACID STORAGE ROOM
 - SCRUBBER RECIRC PUMP ROOM

RECORD DRAWING

DESIGNED	CHN
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



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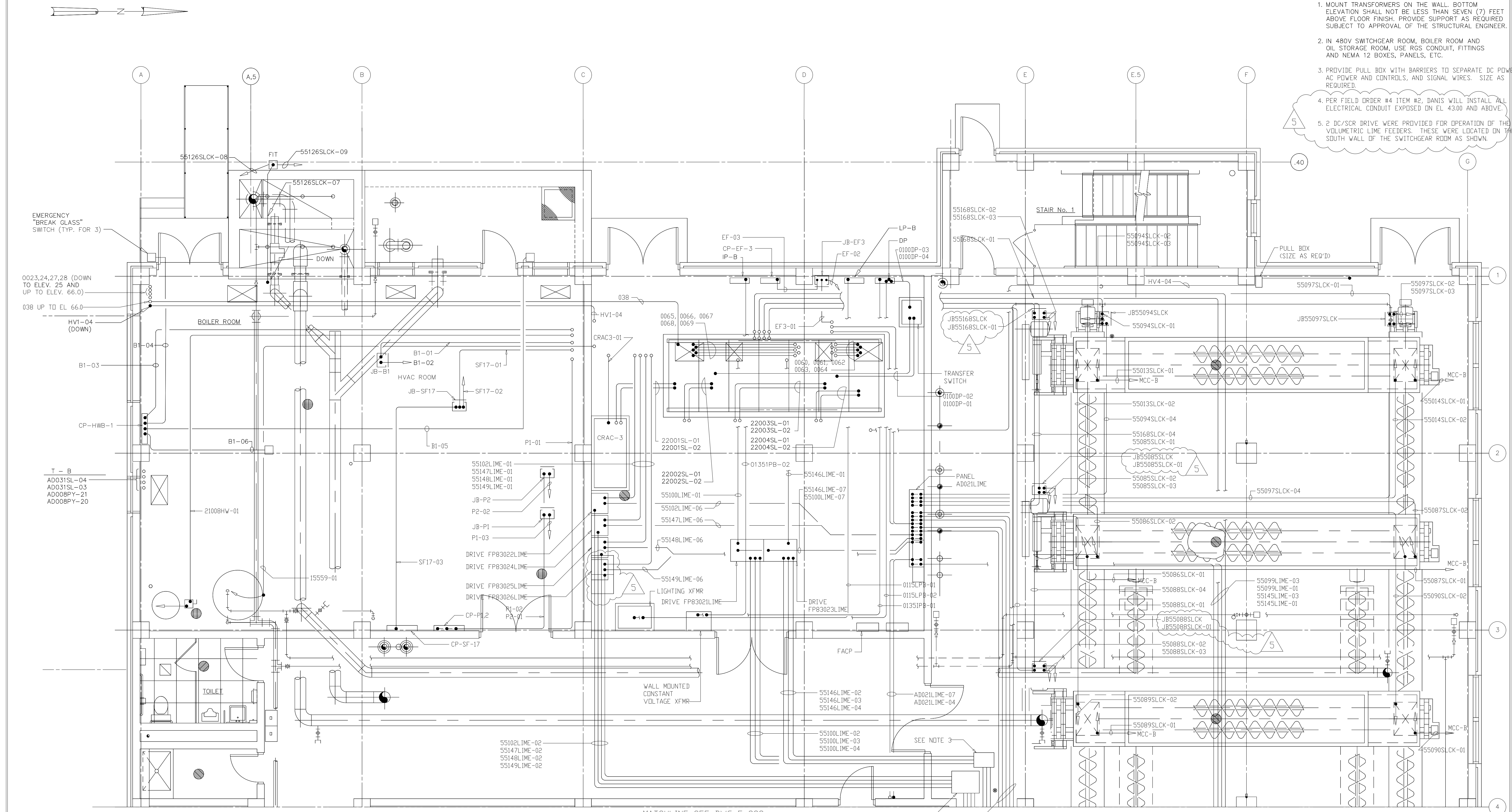
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
POWER PLAN
AT EL 25.00 SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-221
	SHEET	160 OF 199

PLT: 10/10/94 10:00 423P FILE: H:\04\MECH\518\150.DWG BY: MITS: MRF FILE: WPC

- NOTES:
1. MOUNT TRANSFORMERS ON THE WALL. BOTTOM ELEVATION SHALL NOT BE LESS THAN SEVEN (7) FEET ABOVE FLOOR FINISH. PROVIDE SUPPORT AS REQUIRED. SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER.
 2. IN 480V SWITCHGEAR ROOM, BOILER ROOM AND OIL STORAGE ROOM, USE RGS CONDUIT, FITTINGS AND NEMA 12 BOXES, PANELS, ETC.
 3. PROVIDE PULL BOX WITH BARRIERS TO SEPARATE DC POWER, AC POWER AND CONTROLS, AND SIGNAL WIRES. SIZE AS REQUIRED.
 4. PER FIELD ORDER #4 ITEM #2, DANIS WILL INSTALL ALL ELECTRICAL CONDUIT EXPOSED ON EL. 43.00 AND ABOVE.
 5. 2 DC/SCR DRIVE WERE PROVIDED FOR OPERATION OF THE VOLUMETRIC LIME FEEDERS. THESE WERE LOCATED ON THE SOUTH WALL OF THE SWITCHGEAR ROOM AS SHOWN.



MATCHLINE SEE DWG E-223

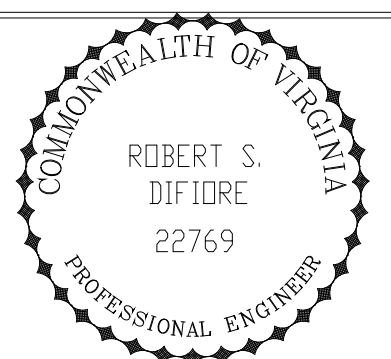
PULL BOX - SIZE AS REQUIRED

- 55098SLCK-02, 55104SLCK-02
- 55095SLCK-02, 55096SLCK-02
- 55092SLCK-02, 55093SLCK-02
- 55091SLCK-04
- 55091SLCK-01

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
5	RECORD DRAWING	4-99	MKS	
4	WP4 CONST-LAND APP. REDES.	4-96	RSD	
3	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD	
2	CONSTRUCTION	9-94	JJB	
1	REGULATORY APPROVAL	9-94	JJB	

DESIGNED	CHN
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC



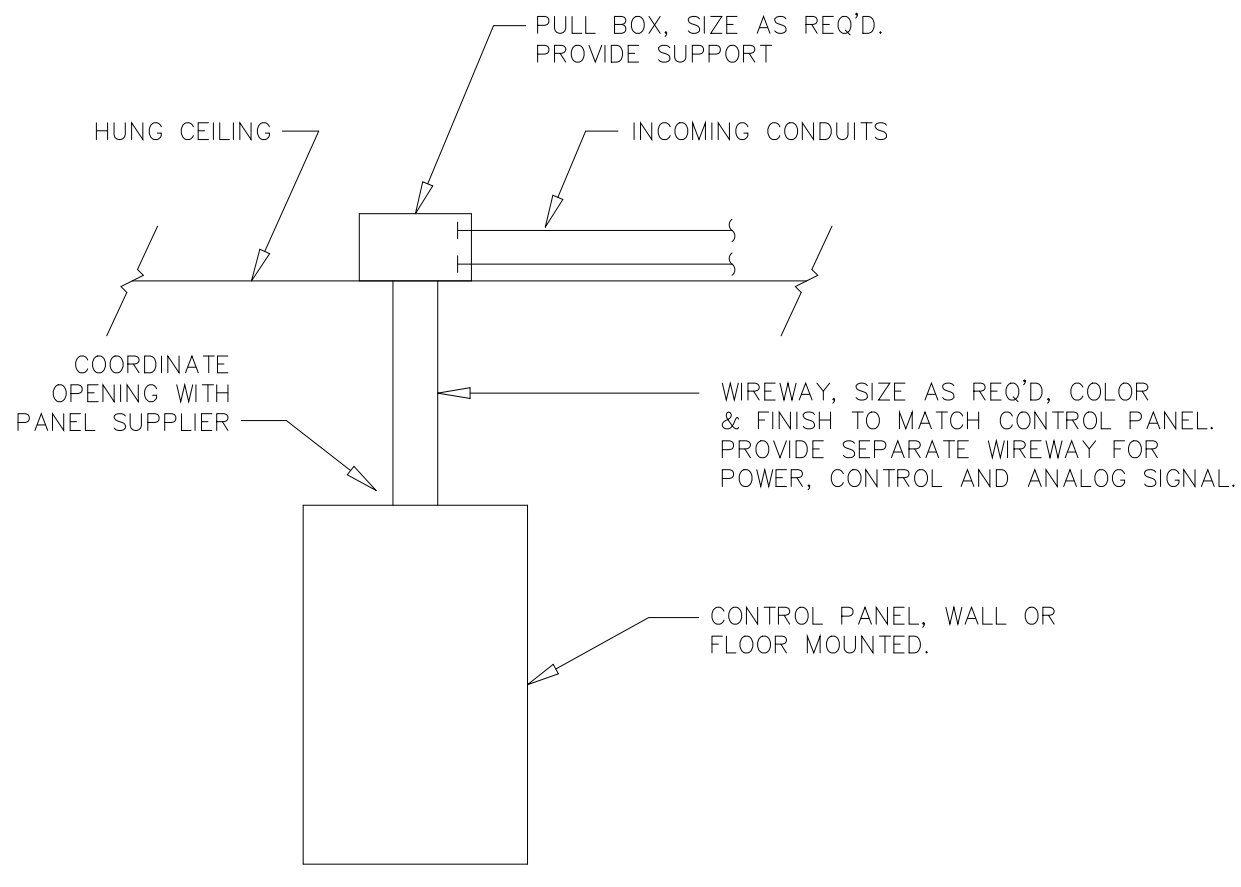
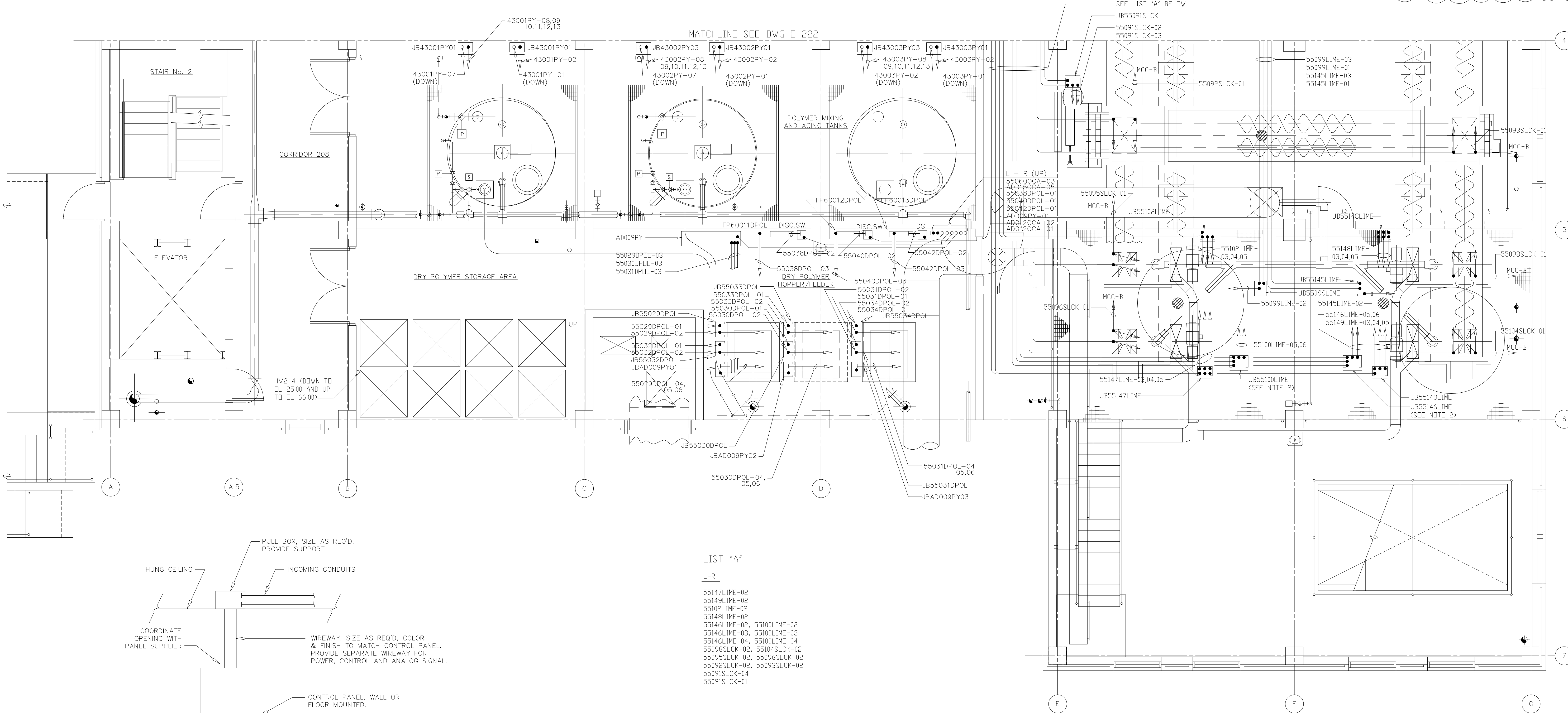
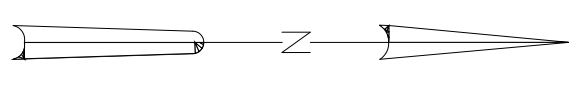
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Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
PLAN AT ELEVATION 43.00
POWER PLAN - SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-222
	SHEET	161 OF 199

NOTES:
 1. PROVIDE JUNCTION BOX WITH BARRIERS TO SEPARATE DC POWER, AC POWER AND CONTROLS, AND SIGNAL WIRES.
 2. PER FIELD ORDER #4 ITEM #2, DANIS WILL INSTALL ALL ELECTRICAL CONDUIT EXPOSED ON EL. 43.00 AND ABOVE.



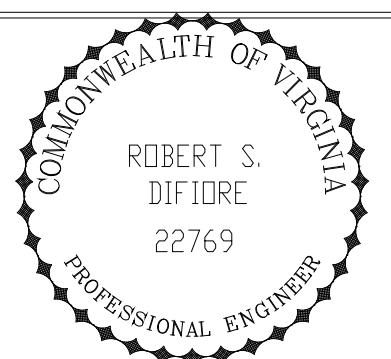
CONDUIT TERMINATION
 IN AREAS WITH HUNG CEILING

- LIST "A"
 L-R
 55147LIME-02
 55149LIME-02
 55102LIME-02
 55148LIME-02
 55146LIME-02, 55100LIME-02
 55146LIME-03, 55100LIME-03
 55146LIME-04, 55100LIME-04
 55098SLCK-02, 55104SLCK-02
 55095SLCK-02, 55096SLCK-02
 55092SLCK-02, 55093SLCK-02
 55091SLCK-04
 55091SLCK-01

RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
5	RECORD DRAWING	4-99	MKS	
4	WP4 CONST-LAND APP. REDES.	4-96	RSD	
3	WP4 APPROVAL-LAND APP. REDES.	1-96	RSD	
2	CONSTRUCTION	9-94	JJB	
1	REGULATORY APPROVAL	9-94	JJB	

DESIGNED	CHN
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC



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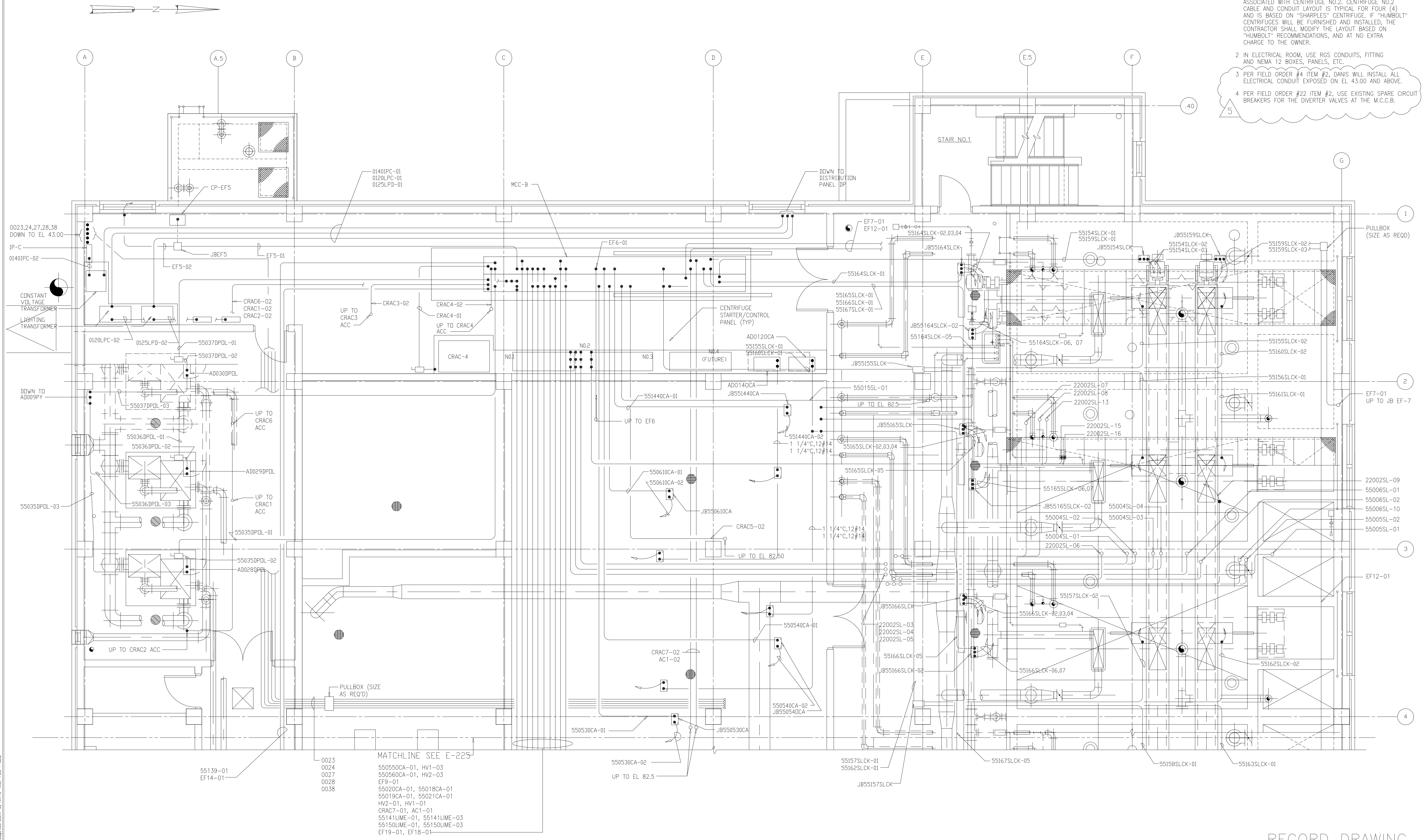
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 ELECTRICAL
 POWER PLAN
 AT EL. 43.00 SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-223
	SHEET	162 OF 199

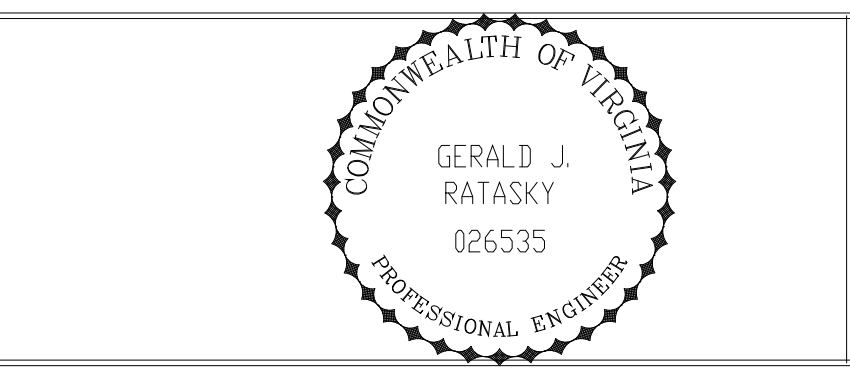
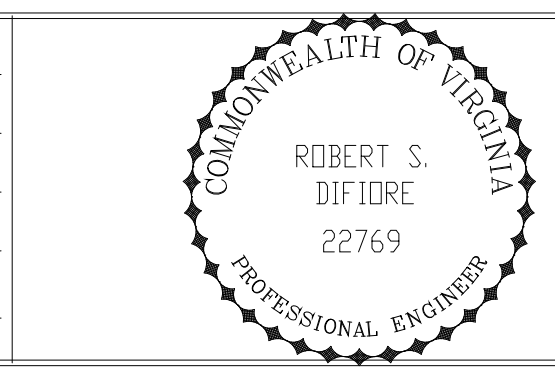
NOTES:

- 1 THE PLAN SHOWS ONLY THOSE CABLES AND CONDUITS ASSOCIATED WITH CENTRIFUGE NO.2. CENTRIFUGE NO.2 CABLE AND CONDUIT LAYOUT IS TYPICAL FOR FOUR (4) AND IS BASED ON "SHARPLES" CENTRIFUGE. IF "HUMBOLT" CENTRIFUGES WILL BE FURNISHED AND INSTALLED, THE CONTRACTOR SHALL MODIFY THE LAYOUT BASED ON "HUMBOLT" RECOMMENDATIONS, AND AT NO EXTRA CHARGE TO THE OWNER.
- 2 IN ELECTRICAL ROOM, USE RGS CONDUITS, FITTING AND NEMA 12 BOXES, PANELS, ETC.
- 3 PER FIELD ORDER #4 ITEM #2, DAVIS WILL INSTALL ALL ELECTRICAL CONDUIT EXPOSED ON EL 43.00 AND ABOVE.
- 4 PER FIELD ORDER #22 ITEM #2, USE EXISTING SPARE CIRCUIT BREAKERS FOR THE DIVERTER VALVES AT THE M.C.C.B.



RECORD DRAWING

DESIGNED	CHN
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

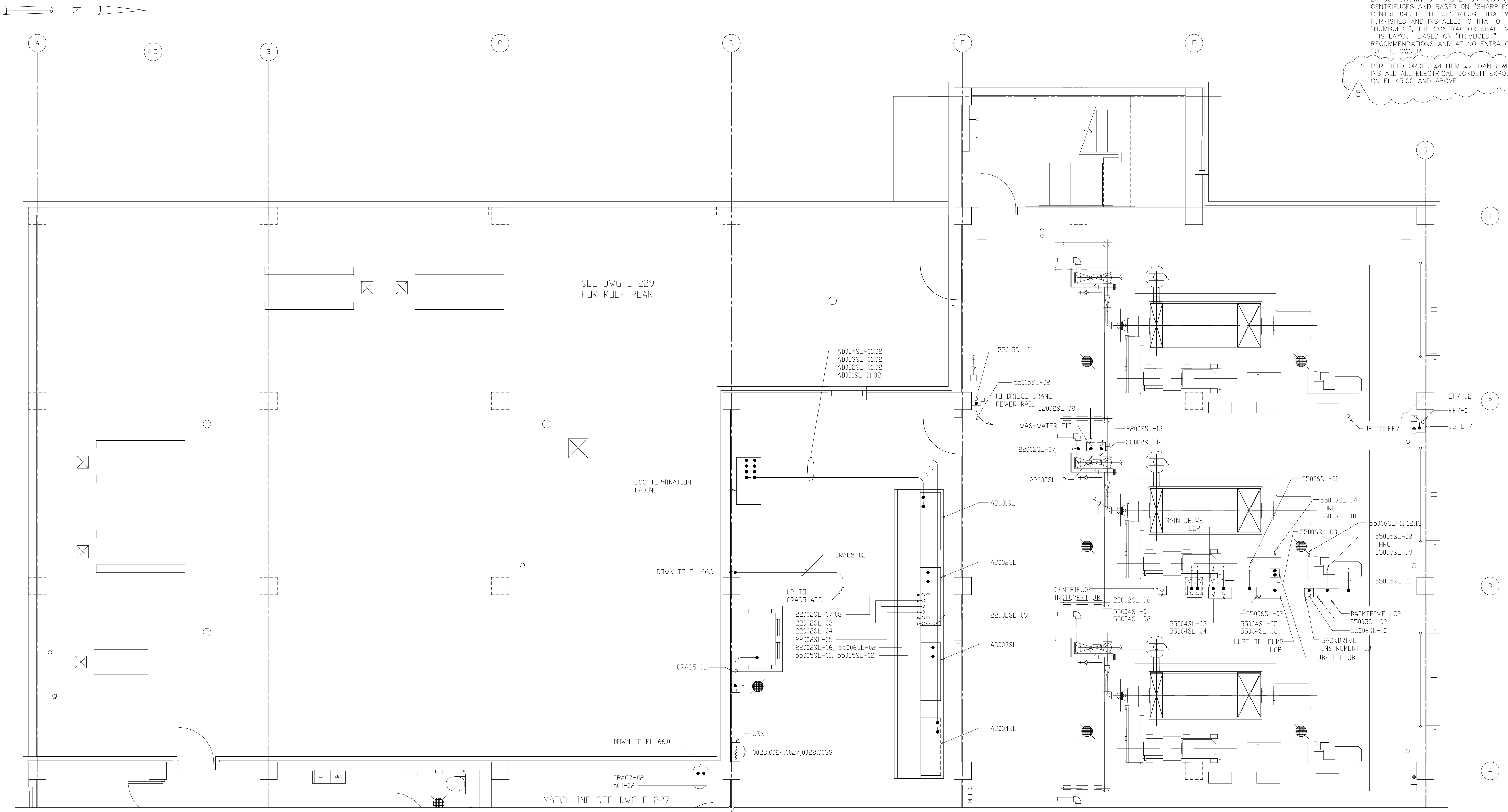
CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
POWER PLAN
AT EL 66.00 SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-224
	SHEET	163 OF 199

PLOT DATE: 12/29/00 4:27PM FILE: H:\2000\WPC\103-2843.dwg BY: MITS REF: FILE - NONE

NOTES:

1. THE CENTRIFUGE NO. 2 CABLE AND CONDUIT LAYOUT SHOWN IS TYPICAL FOR FOUR (4) CENTRIFUGES AND BASED ON "SHARPLES" CENTRIFUGE. IF THE CENTRIFUGE THAT WILL BE FURNISHED AND INSTALLED IS THAT OF "HUMBOLDT", THE CONTRACTOR SHALL MODIFY THIS LAYOUT BASED ON "HUMBOLDT" RECOMMENDATIONS AND AT NO EXTRA COST TO THE OWNER.
2. PER FIELD ORDER #4 ITEM #2, DANIS WILL INSTALL ALL ELECTRICAL CONDUIT EXPOSED ON EL 43.00 AND ABOVE.

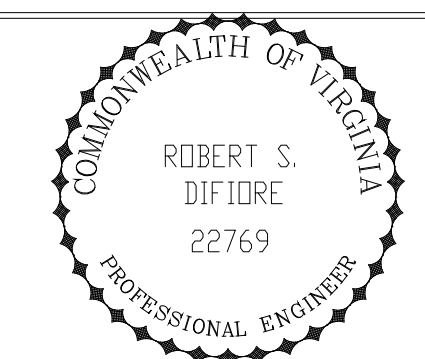


RECORD DRAWING

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NO.	ISSUED FOR	DATE	BY	APPROVED
5	RECORD DRAWING	4-99	MKS	
4	WP6/7 CONST.-LAND APP. REDES.	4-96	RSD	
3	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD	
2	CONSTRUCTION	9-94	JJB	
1	REGULATORY APPROVAL	9-94	JJB	

DESIGNED CHN
 DRAWN BRC
 CHECKED
 PROJ.ENGR. AB/RNC

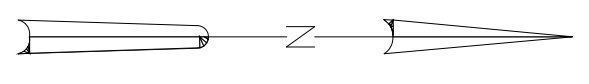


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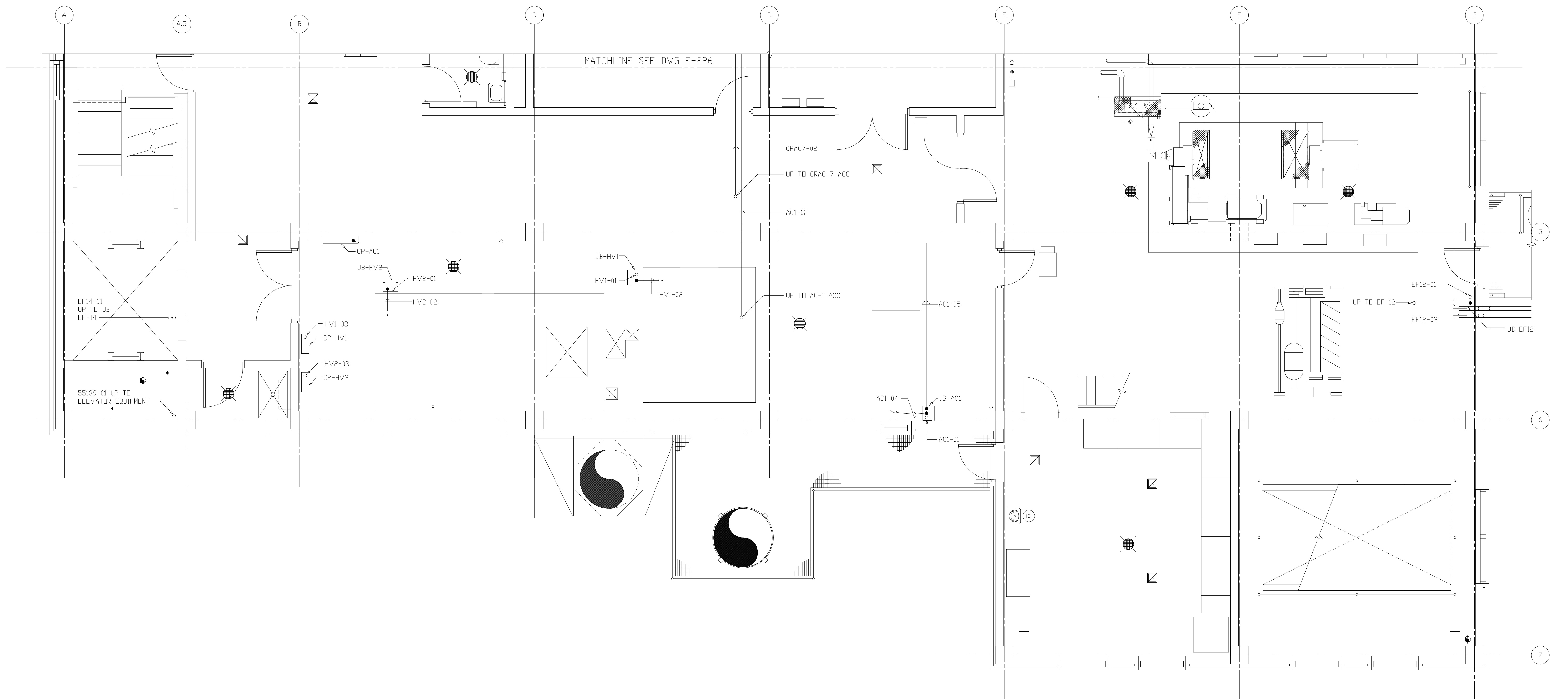
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 ELECTRICAL
 POWER PLAN
 AT EL 82.50 SHEET 1

DATE	SEPT 94
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	E-226
SHEET	165 OF 199



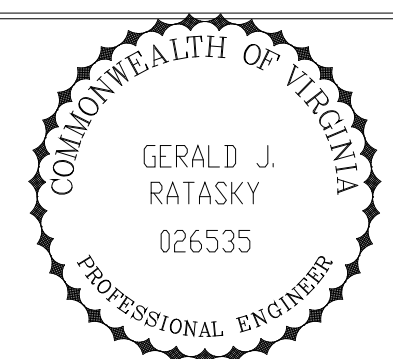
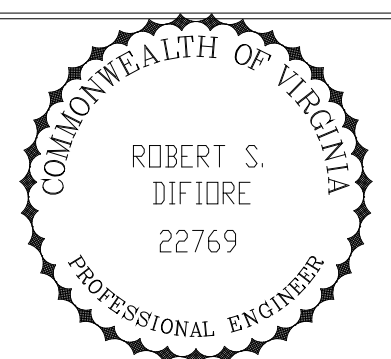
- NOTES:
1. THE CENTRIFUGE NO. 1 CABLE AND CONDUIT LAYOUT SHOWN IS TYPICAL FOR FOUR (4) CENTRIFUGES AND BASED ON "SHARPLES" CENTRIFUGE. IF THE CENTRIFUGE THAT WILL BE FURNISHED AND INSTALLED IS THAT OF "HUMBOLDT" THE CONTRACTOR SHALL MODIFY THIS LAYOUT BASED ON "HUMBOLDT" RECOMMENDATIONS AND AT NO EXTRA COST TO THE OWNER.
 2. IN THE CENTRIFUGE CONTROL ROOM, LABORATORY, CORRIDORS AND TOILET, BOXES, ETC. SHALL BE CONCEALED. RUN CONDUITS ABOVE HUNG CEILING. SEE CONDUIT TERMINATION DETAIL ON DRAWING E223.
 3. PER FIELD ORDER #4 ITEM #2, DANIS WILL INSTALL ALL ELECTRICAL CONDUIT EXPOSED ON EL 43.00 AND ABOVE.



RECORD DRAWING

FILE: \\NTSVA\710101_43000_01\04\02\DWG\116\1161007.dwg BY: MNTS DATE: 11/16/07

DESIGNED	CHN
DRAWN	BRC
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PROJ.ENGR.	AB/RNC
APPROVED	



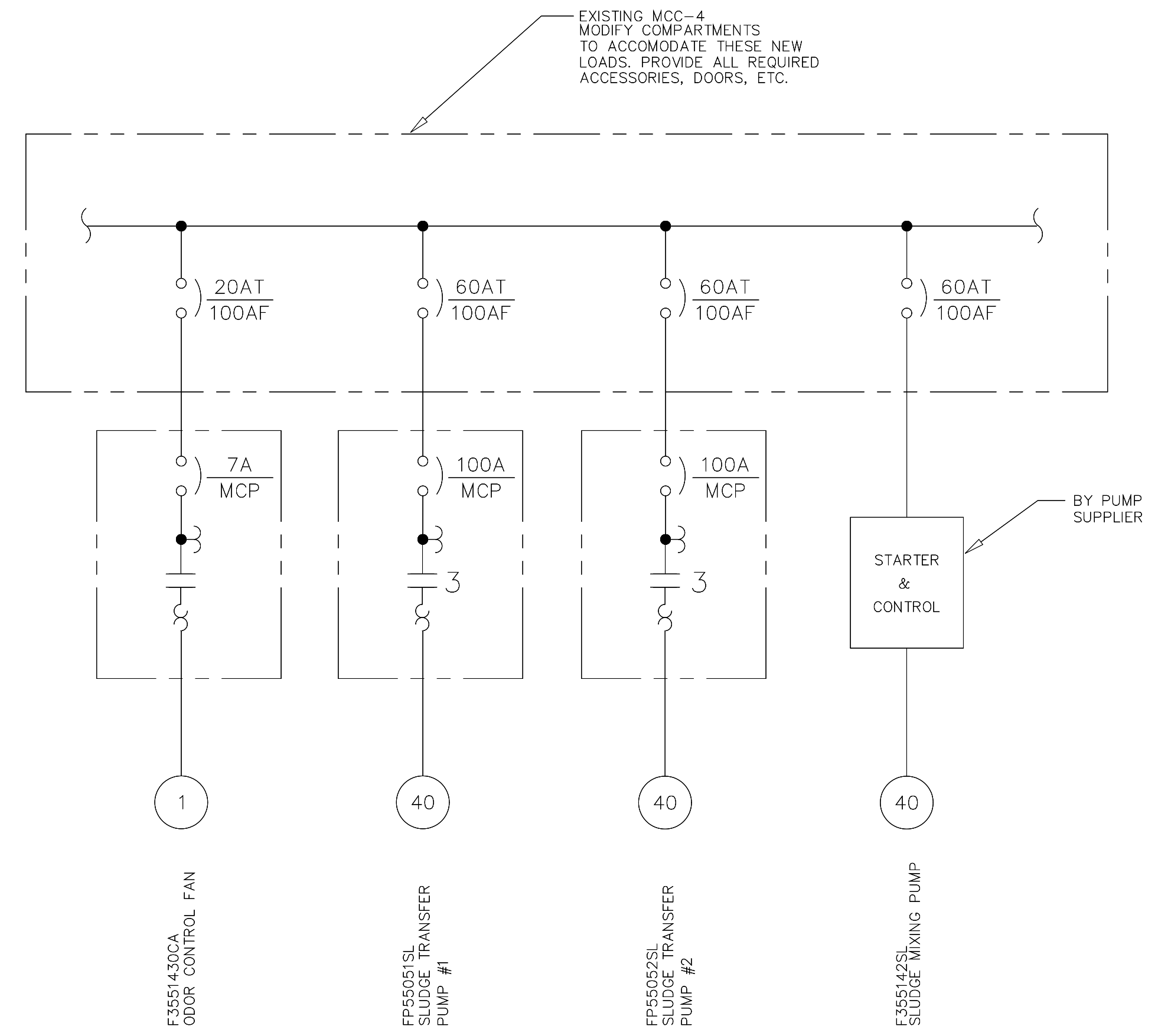
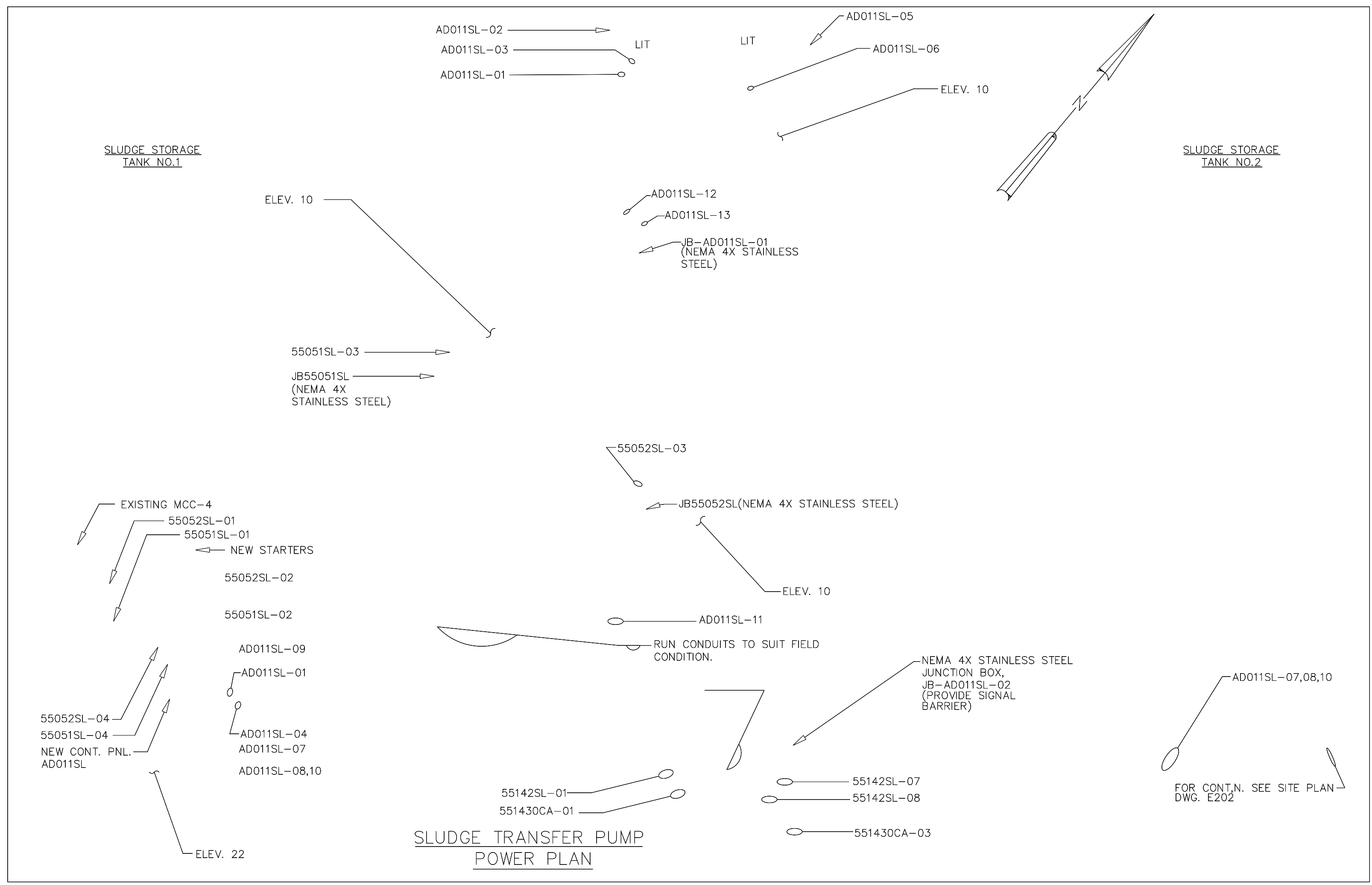
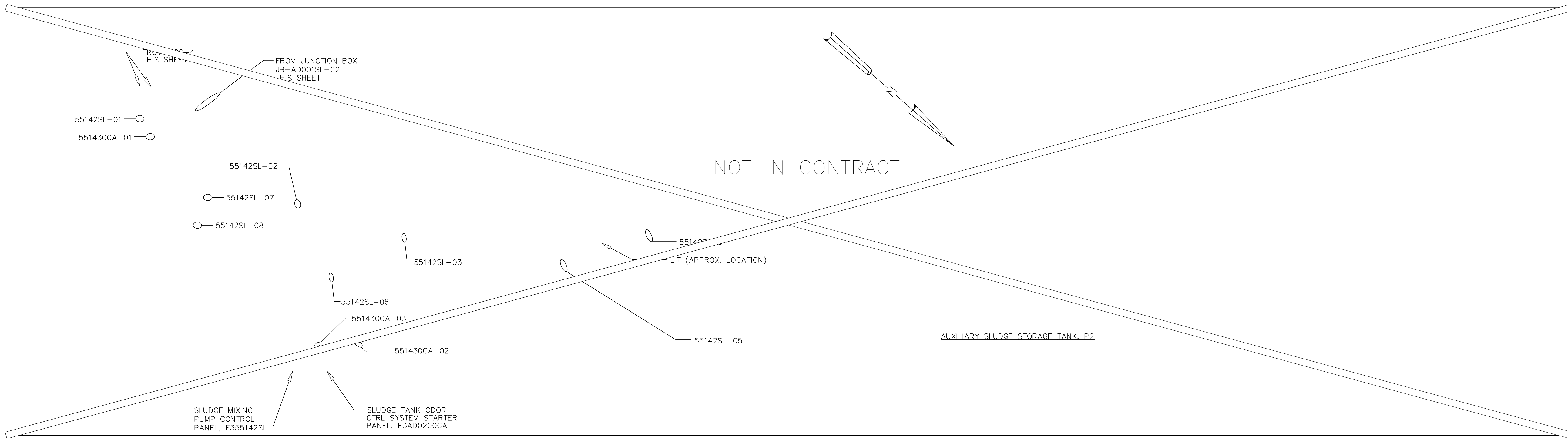
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 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING ELECTRICAL POWER PLAN AT EL 82.50 SHEET 2		DATE	SEPT 94
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	CONTRACT NUMBER	H & S JOB NUMBER	2843
	93-02-WPC	DRAWING NUMBER	E-227
		SHEET	166 OF 199

NOTES:

1. THE CONTRACTOR IS ADVISED THAT ONE (1) SLUDGE TRANSFER PUMP IS REQUIRED TO REMAIN OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL SEQUENCE HIS WORK TO MEET THIS REQUIREMENT AND IN COORDINATION WITH THE INSTALLATION OF NEW PIPINGS.
2. THE PROPOSED SEQUENCE SHALL BE AS FOLLOWS:
 - a) REMOVE EXISTING STARTER, CONTROLS, CABLE, CONDUIT AND OTHER EQUIPMENT/DEVICES ASSOCIATED WITH ONE (1) SLUDGE TRANSFER PUMP. (EXISTING STARTERS ARE LOCATED IN THE EXISTING MCC-4 ROOM.)
 - b) INSTALL THE NEW STARTERS, CONTROL PANEL AND ALL OTHER DEVICES ASSOCIATED WITH THE SLUDGE TRANSFER PUMP.
 - c) PUT THE NEW SLUDGE TRANSFER PUMP IN OPERATION AND REMOVE THE OTHER ONE.
3. ALL CONDUITS SHOWN ON THIS PLAN SHALL BE RIGID GALVANIZED STEEL.



RECORD DRAWING

DESIGNED	EC	DATE	BY
DRAWN	RS		
CHECKED	EC		
PROJ. ENGR.	WG		
APPROVED	J.J.B.		

NO.	ISSUED FOR	DATE	BY	APPROVED
3	RECORD DRAWINGS	6-99	F.X.P.	
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	

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Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

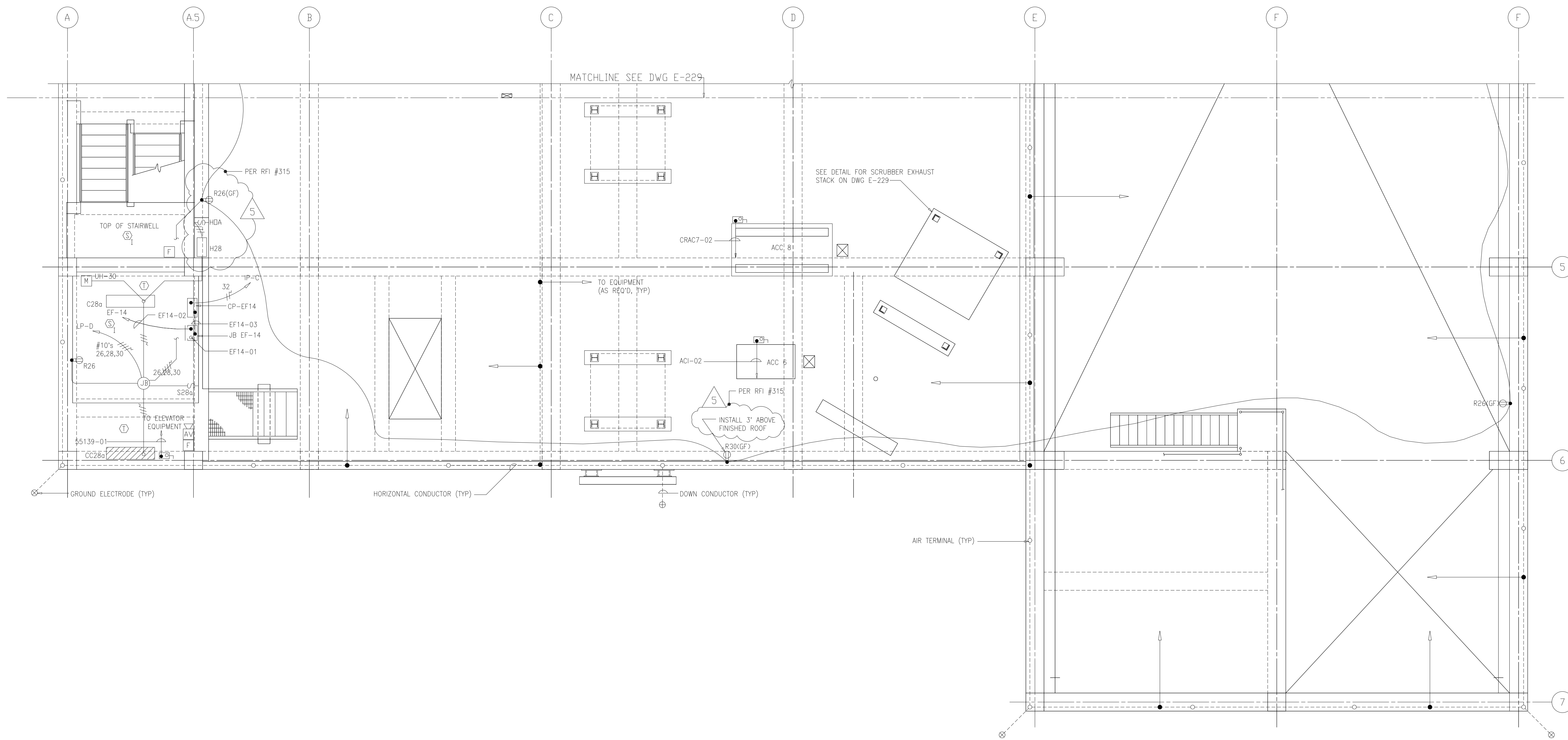
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
POWER PLAN
SLUDGE TRANSFER & MIXING PUMPS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER E228
	SHEET 167 OF 199

NOTES:

- 1. DOWN AND HORIZONTAL GROUND CONDUCTORS SHALL BE RUN IN PVC SCHEDULE 40 CONDUIT AND SHALL BE CONCEALED. EXTERIOR SURFACE MOUNTING OF CONDUITS WILL NOT BE PERMITTED.
- 2. CONNECT ALL GROUND ELECTRODES SHOWN IN THIS PLAN TO THE BUILDING GROUND GRID. USE #4/0 GROUND CONDUCTORS.
- 3. ALL ROOF PENETRATIONS SHALL BE WATERTIGHT.

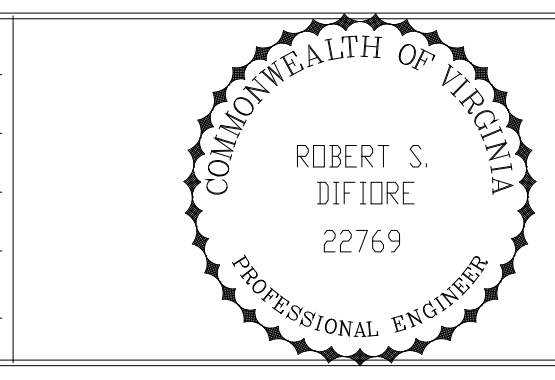


RECORD DRAWING

PLOT DATE: 09/21/94 09:00 FILE: H:\04\3\04\11\04\1104\1229a.dwg BY: M115 XREF FILE: NONE

5	RECORD DRAWING	4-99	MKS
4	WP6/7 CONST.-LAND APP. REDES.	4-96	RSD
3	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
NO.	ISSUED FOR	DATE	BY

DESIGNED	CHN
DRAWN	BRC
CHECKED	
PROJ.ENGR.	AB/RNC
APPROVED	



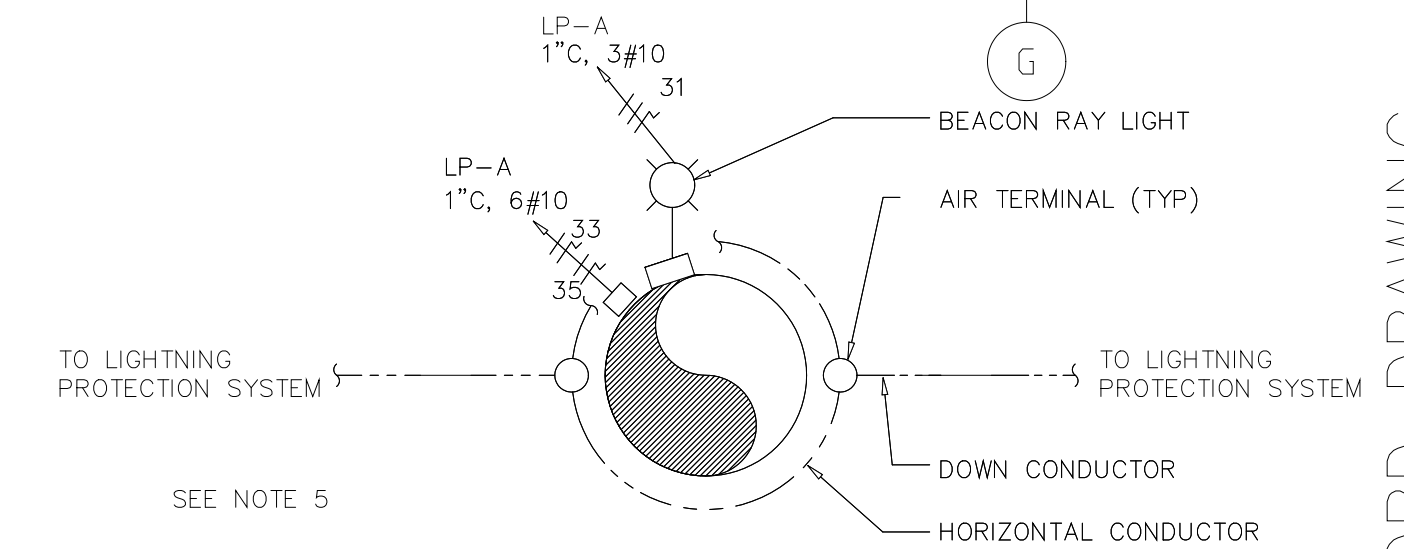
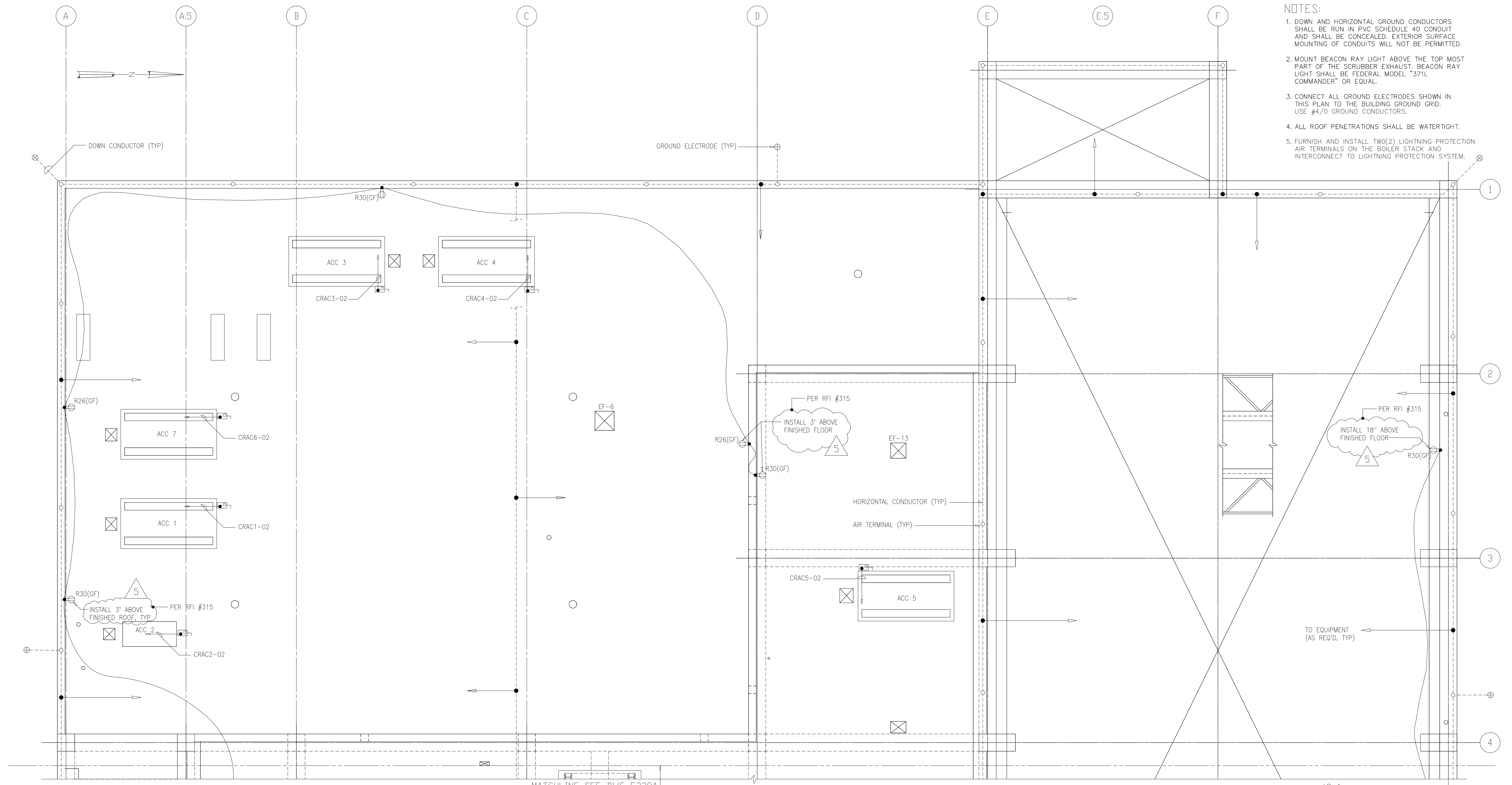
Hazenand Sawyer
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 ELECTRICAL
 ROOF PLAN, LIGHTNING PROTECTION,
 LIGHTING & POWER PLAN-SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC	
	DRAWING NUMBER	E229A
SHEET 168A OF 199		

- NOTES:
1. DOWN AND HORIZONTAL GROUND CONDUCTORS SHALL BE RUN IN PVC SCHEDULE 40 CONDUIT AND SHALL BE CONCEALED. EXTERIOR SURFACE MOUNTING OF CONDUITS WILL NOT BE PERMITTED.
 2. MOUNT BEACON RAY LIGHT ABOVE THE TOP MOST PART OF THE SCRUBBER EXHAUST. BEACON RAY LIGHT SHALL BE FEDERAL MODEL "371L COMMANDER" OR EQUAL.
 3. CONNECT ALL GROUND ELECTRODES SHOWN IN THIS PLAN TO THE BUILDING GROUND GRID. USE #4/0 GROUND CONDUCTORS.
 4. ALL ROOF PENETRATIONS SHALL BE WATERTIGHT.
 5. FURNISH AND INSTALL TWO(2) LIGHTNING PROTECTION AIR TERMINALS ON THE BOILER STACK AND INTERCONNECT TO LIGHTNING PROTECTION SYSTEM.



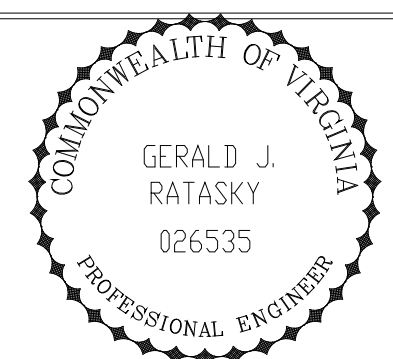
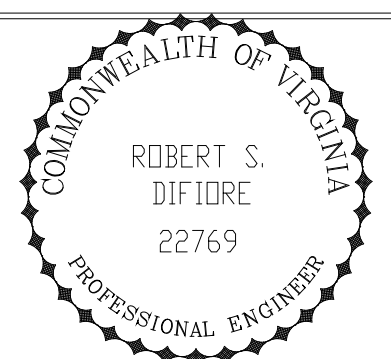
SCRUBBER EXHAUST LIGHTNING PROTECTION AND WARNING LIGHT PLAN

RECORD DRAWING

PLT: 1/24/2019 4:33pm FILE: H:\2403\Mech\21801581.dwg BY: MITS SHEET FILE: NONE

DESIGNED	CHN
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

5	RECORD DRAWING	4-99	MKS
4	WP6/7 CONST.-LAND APP. REDES.	4-96	RSD
3	WP6/7 APPROVAL-LAND APP. REDES.	3-96	RSD
2	CONSTRUCTION	9-94	JJB
1	REGULATORY APPROVAL	9-94	JJB
NO.	ISSUED FOR	DATE	BY

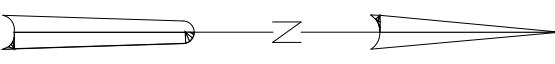


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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

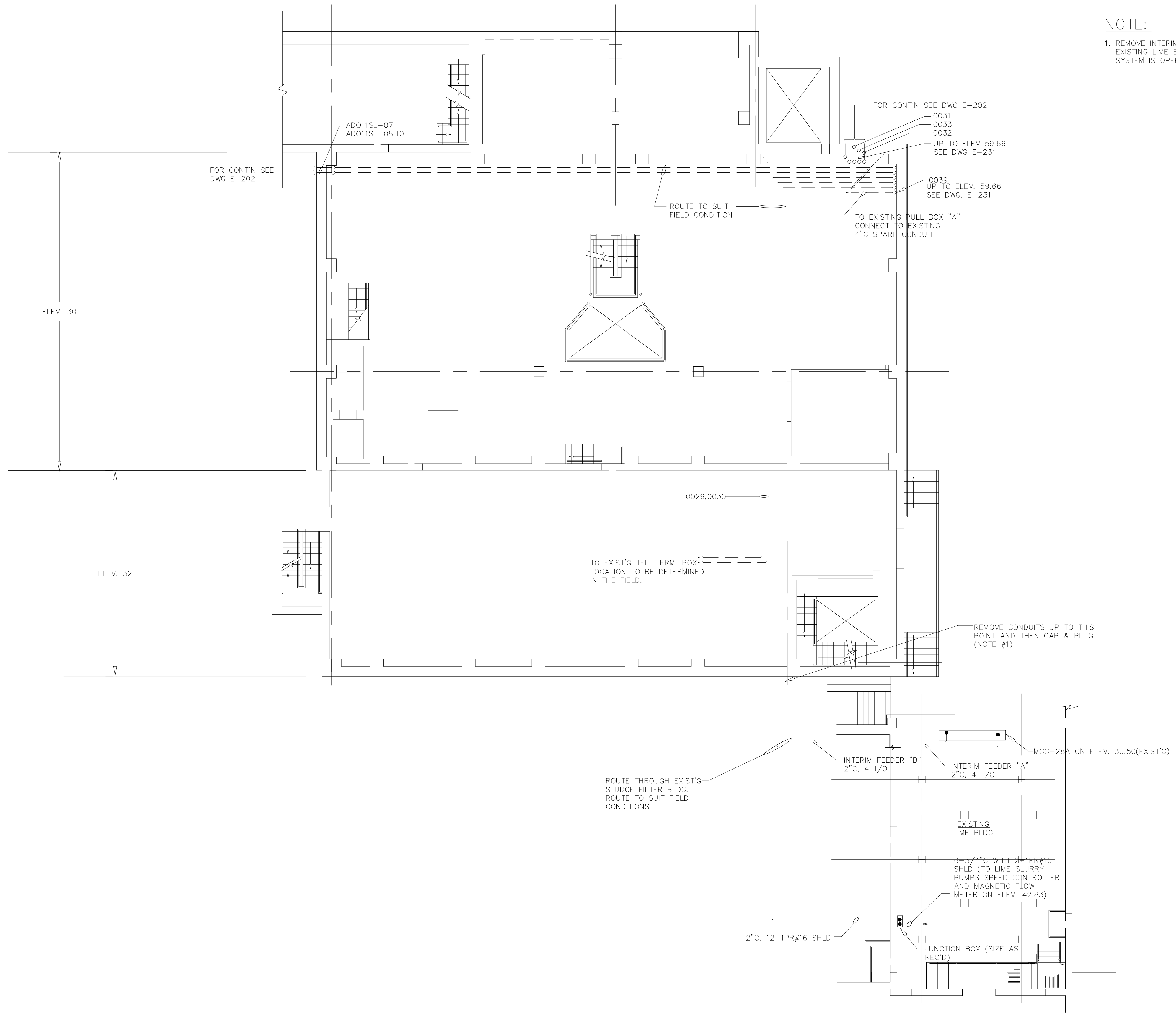
CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
ROOF PLAN, LIGHTNING PROTECTION,
LIGHTING & POWER PLAN-SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-229
	SHEET	168 OF 199



NOTE:

- 1. REMOVE INTERIM FEEDERS & CONTROLS TO THE EXISTING LIME BUILDING ONLY WHEN THE NEW LIME SYSTEM IS OPERATIONAL.



RECORD DRAWING

NO.	ISSUED FOR	DATE	BY	APPROVED
3	RECORD DRAWING	4-99	MKS	PROJ. ENGR. WG
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	J.J.B.

DESIGNED	EC
DRAWN	RS
CHECKED	EC
PROJ. ENGR.	WG
APPROVED	J.J.B.

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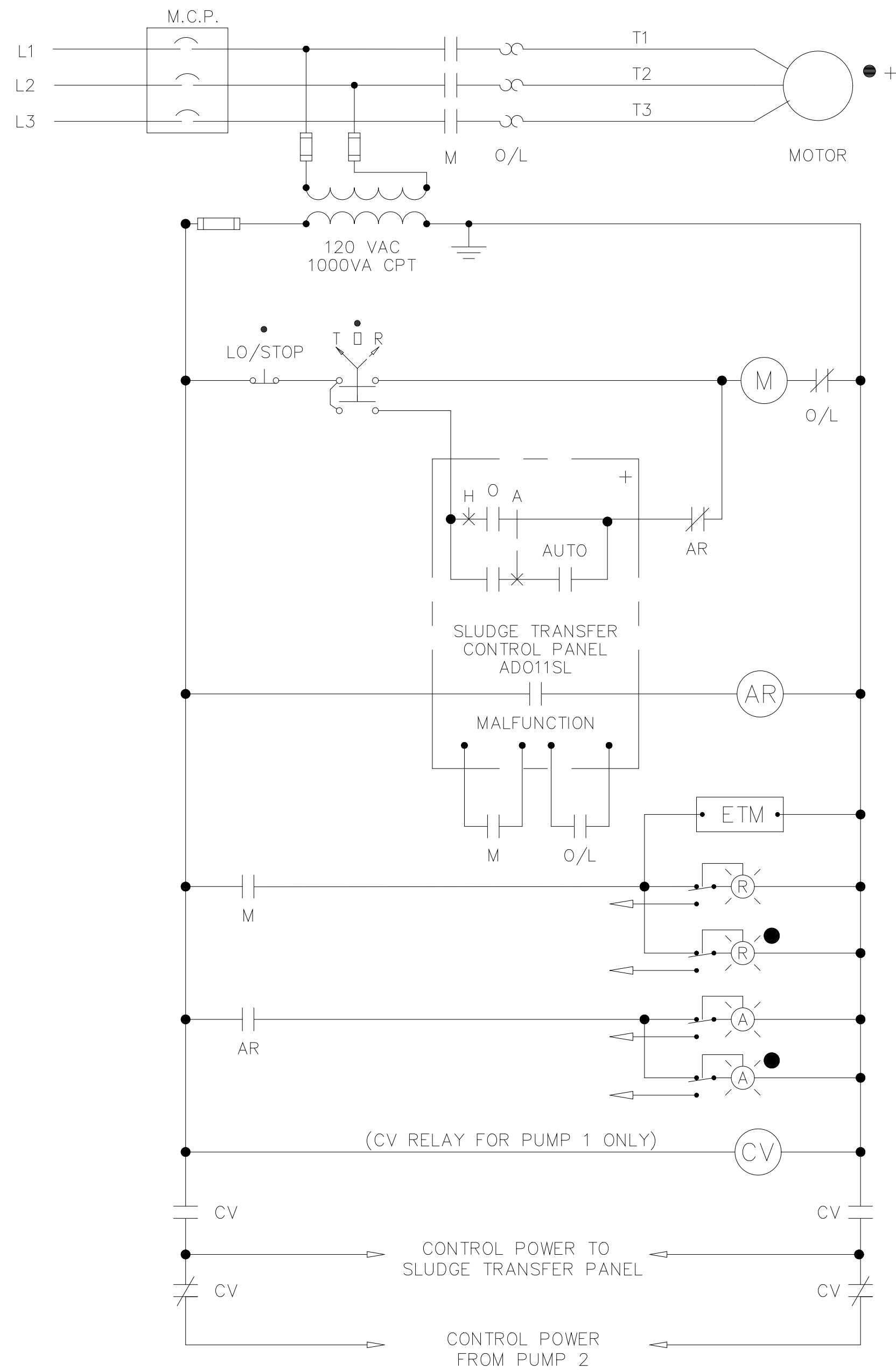
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
 ELECTRICAL
 POWER PLAN
 EXISTING BIOSOLIDS AND LIME BUILDING

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER E230
	SHEET 169 OF 199

PLOT DATE 04/17/00 4:58pm FILE: H:\2843\Workshop\194-C-230.dwg MATS: 1087 FILE: NONE

SLUDGE TRANSFER PUMPS 1 AND 2



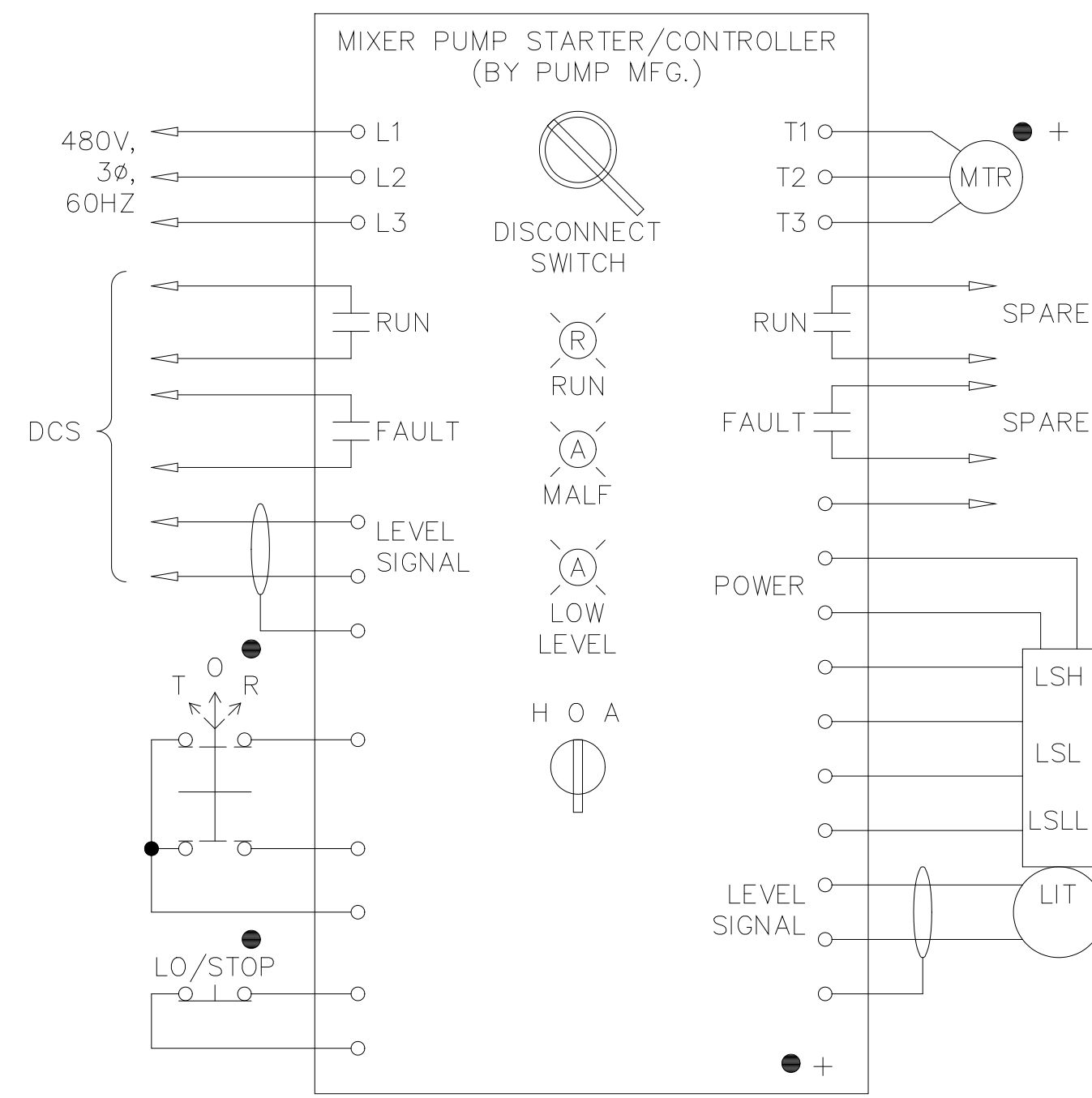
EWD-1

ALL EQUIPMENT IN THESE UNITS SHALL BE SIZED FOR 40 HP. OVERLOAD HEATERS AND MCP SHALL BE RATED FOR 20 HP. 40 HP THERMAL OVERLOAD HEATERS SHALL ALSO BE PROVIDED. 40 HP MOTOR CIRCUIT PROTECTORS SHALL ALSO BE PROVIDED.

- EQUIPMENT LOCATED AT SLUDGE CONVEYANCE CONTROL PANEL (S.C.C.P.)
- + DEVICE PROVIDED BY EQUIPMENT MANUFACTURER
- △ EQUIPMENT LOCATED AT SLUDGE FEED CONTROL PANEL (S.F.C.P.)
- EQUIPMENT LOCATED AT MOTOR OR DRIVEN EQUIPMENT
- ◇ EQUIPMENT LOCATED AT SLUDGE CAKE PUMP CONTROL PANEL
- EQUIPMENT LOCATED AT DESIGNATED ODOR CONTROL PANEL

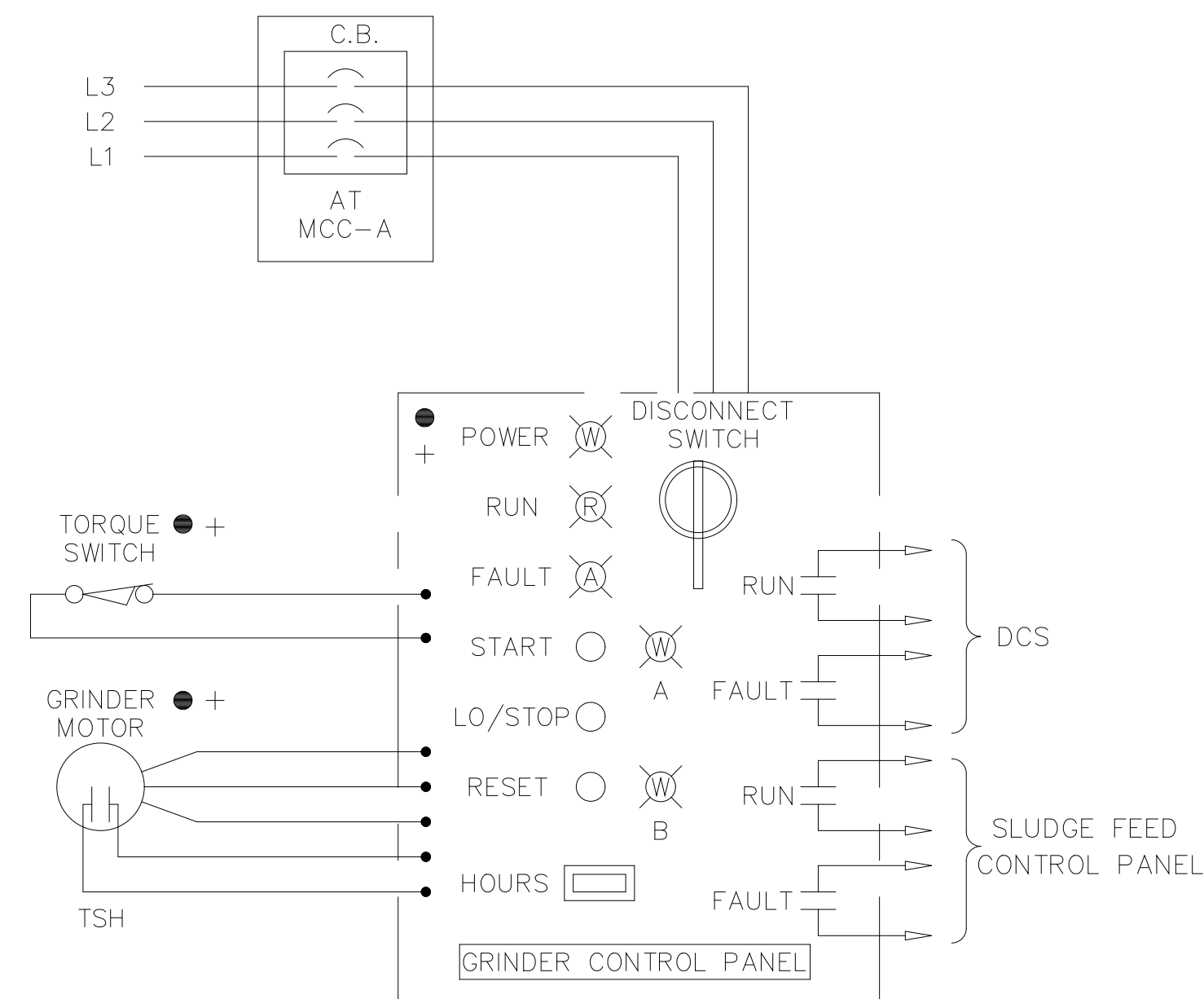
SYMBOLS FOR EWD's

SLUDGE MIXER PUMP



EWD-2

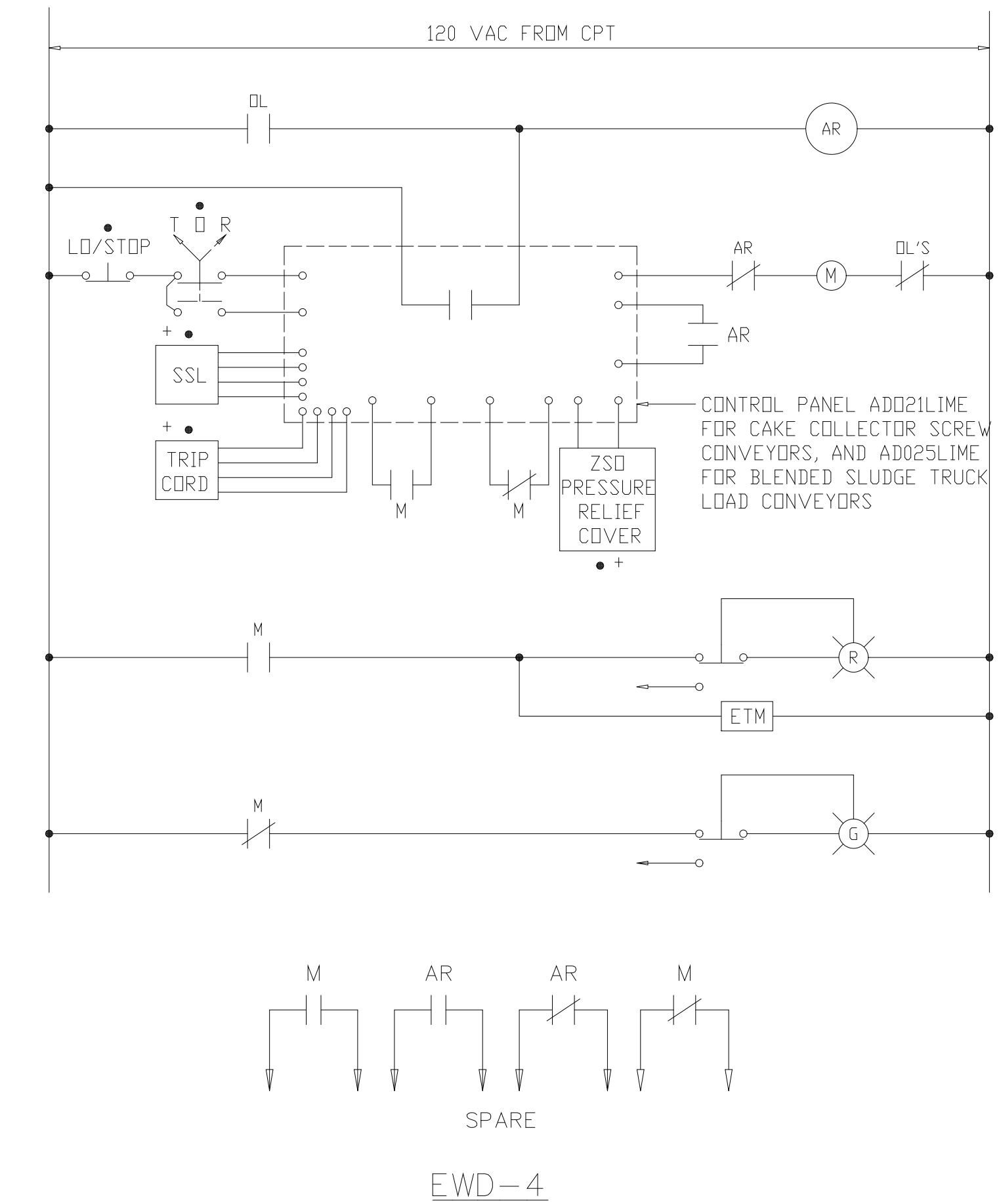
SLUDGE GRINDERS 1 AND 2



EWD-3

GENERAL NOTES: 1. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE INSTRUMENTATION SECTION OF THE SPEC AND THE INSTRUMENT DRAWINGS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
2. ALL EQUIPMENT SHOWN SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 16 UNLESS OTHERWISE NOTED.

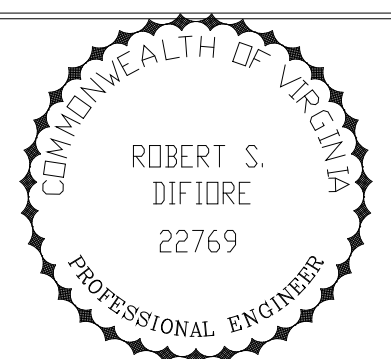
CAKE COLLECTOR SCREW CONVEYORS 1 AND 2
BLENDED SLUDGE TRUCK LOADING CONVEYORS 1 AND 2



EWD-4

RECORD DRAWING

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PROJ. ENGR.	AB/RNC
NO.	ISSUED FOR
DATE	BY
APPROVED	



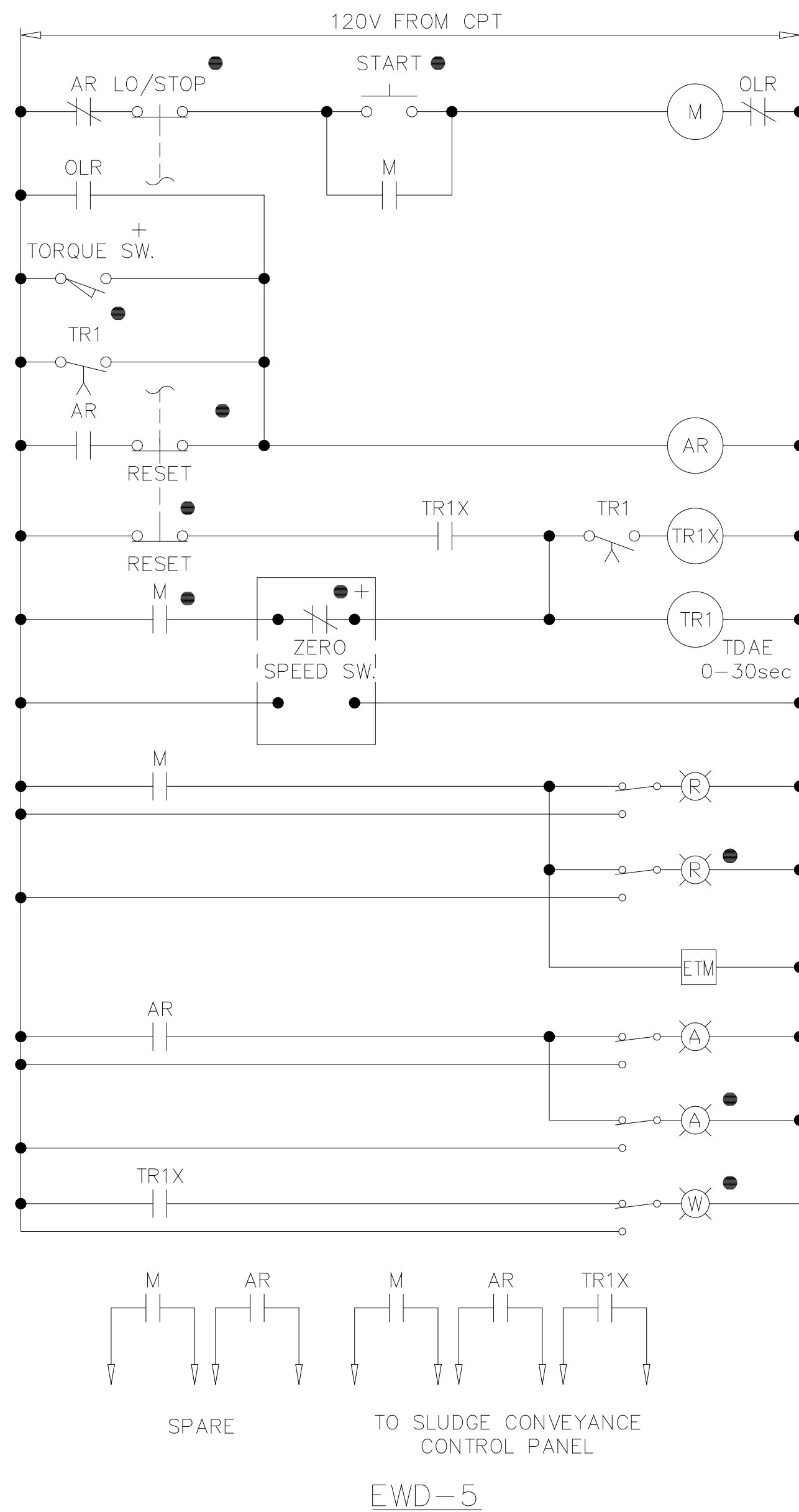
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
ELEMENTARY WIRING DIAGRAMS
SHEET 1

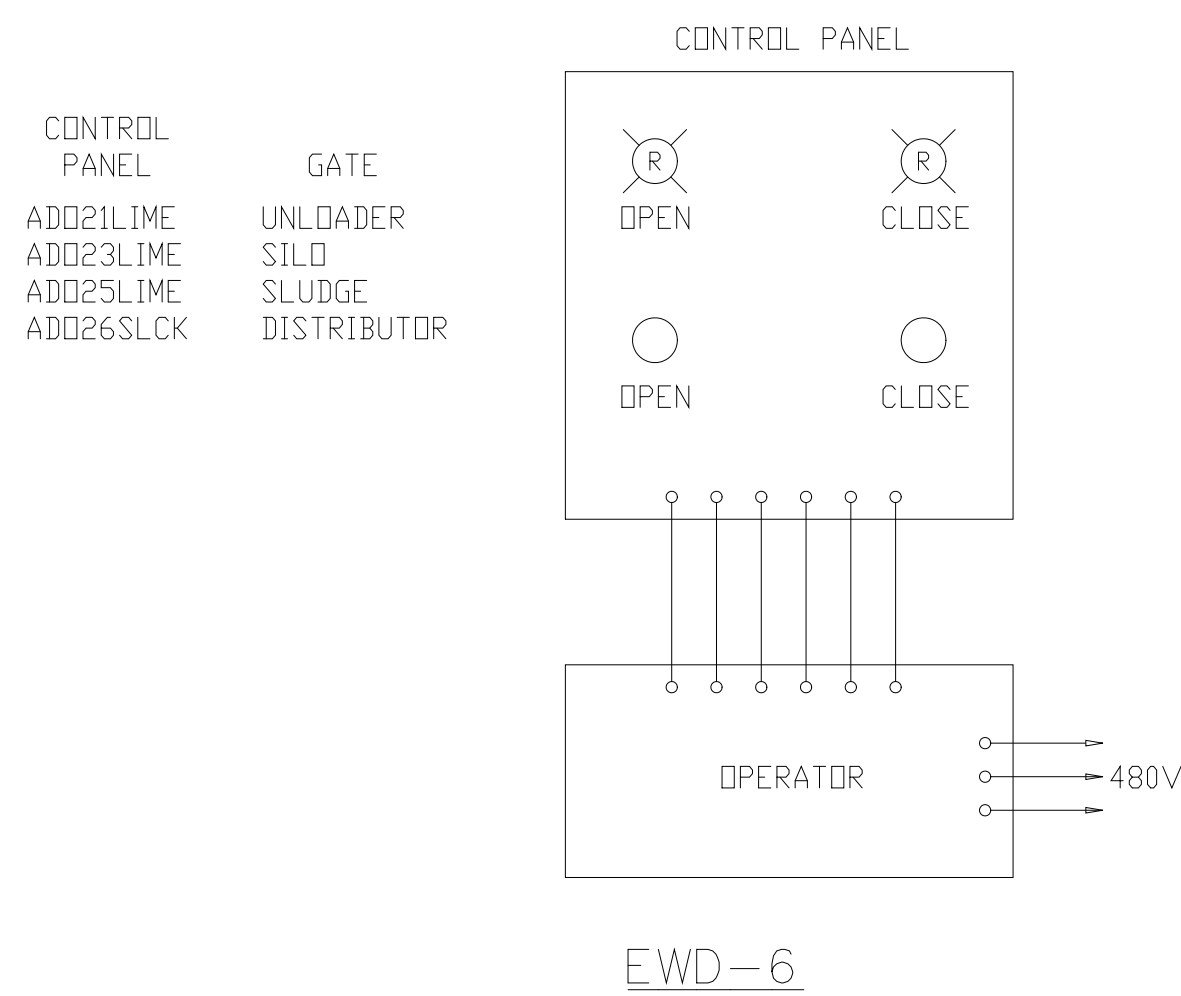
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-232
	SHEET	171 OF 199

TWIN SCREW BIN LEVELLERS 1 THROUGH 4



EWD-5

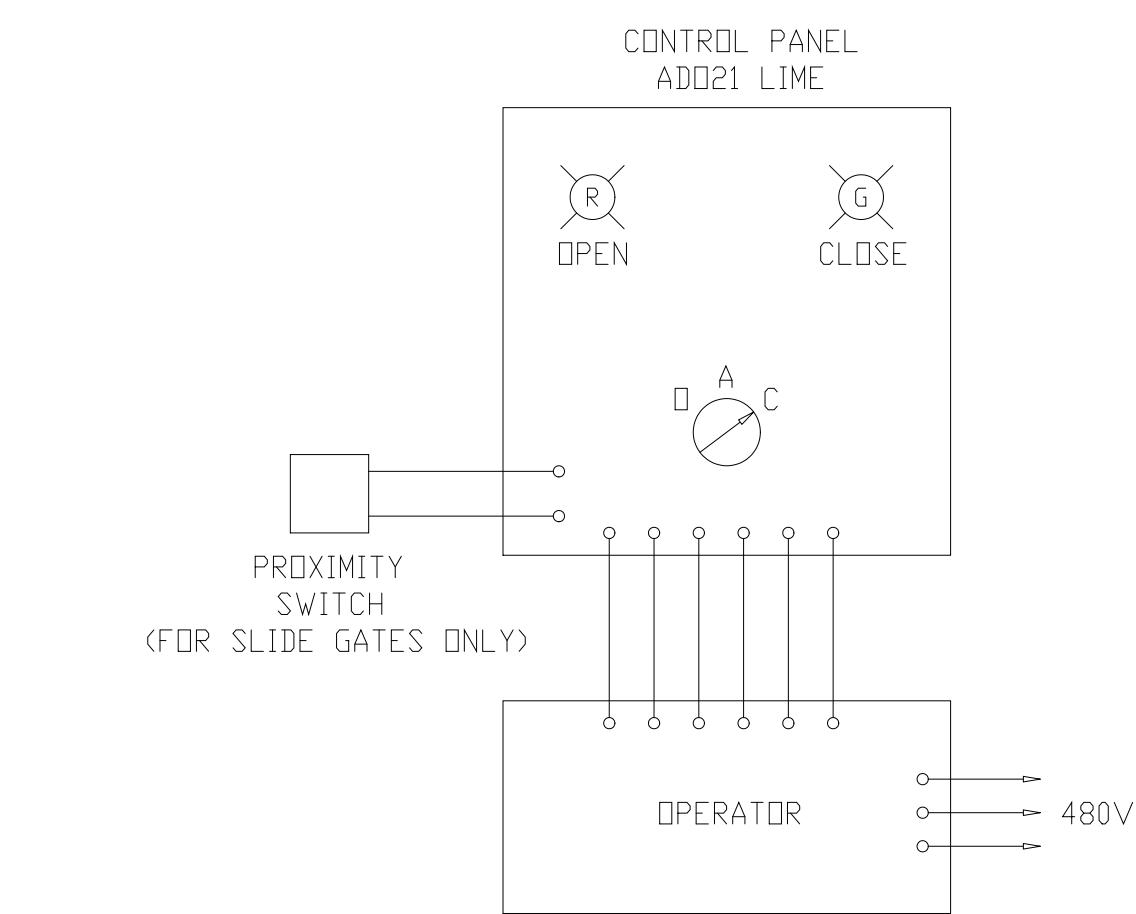
UNLOADER SLIDE GATES 1A&1B THRU 4A&4B
DISTRIBUTOR SLIDE GATES 1A-1D & 2A-2D
BLENDED SLUDGE TRUCK GATES 1A-1D & 2A-2D
LIME SILO SLIDE GATE



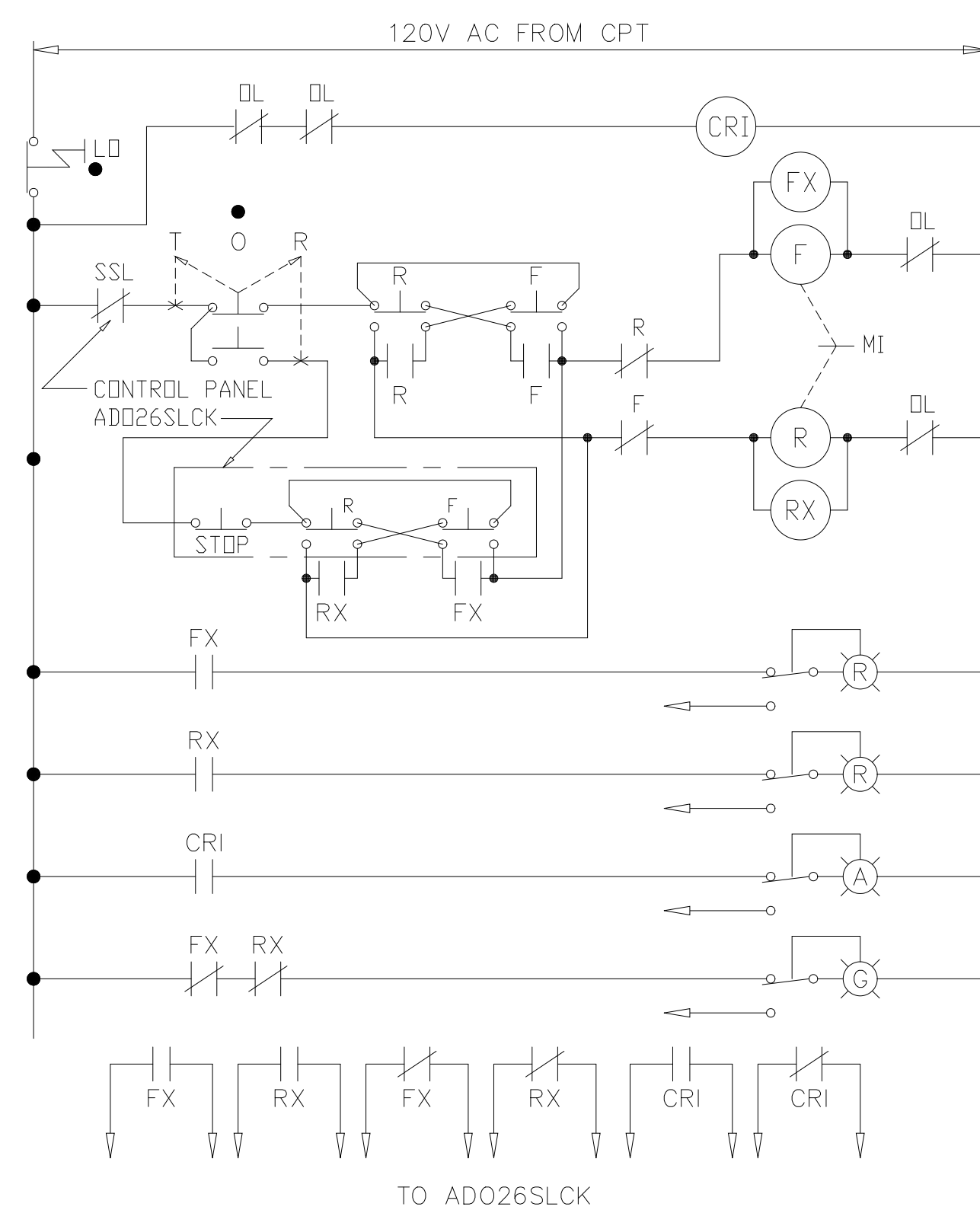
EWD-6

EWD-7

LIME TRANSFER MOTOR DIVERTER VALVES 1&2
COLLECTOR SLIDE GATES 1A, 1B, 2A&2B

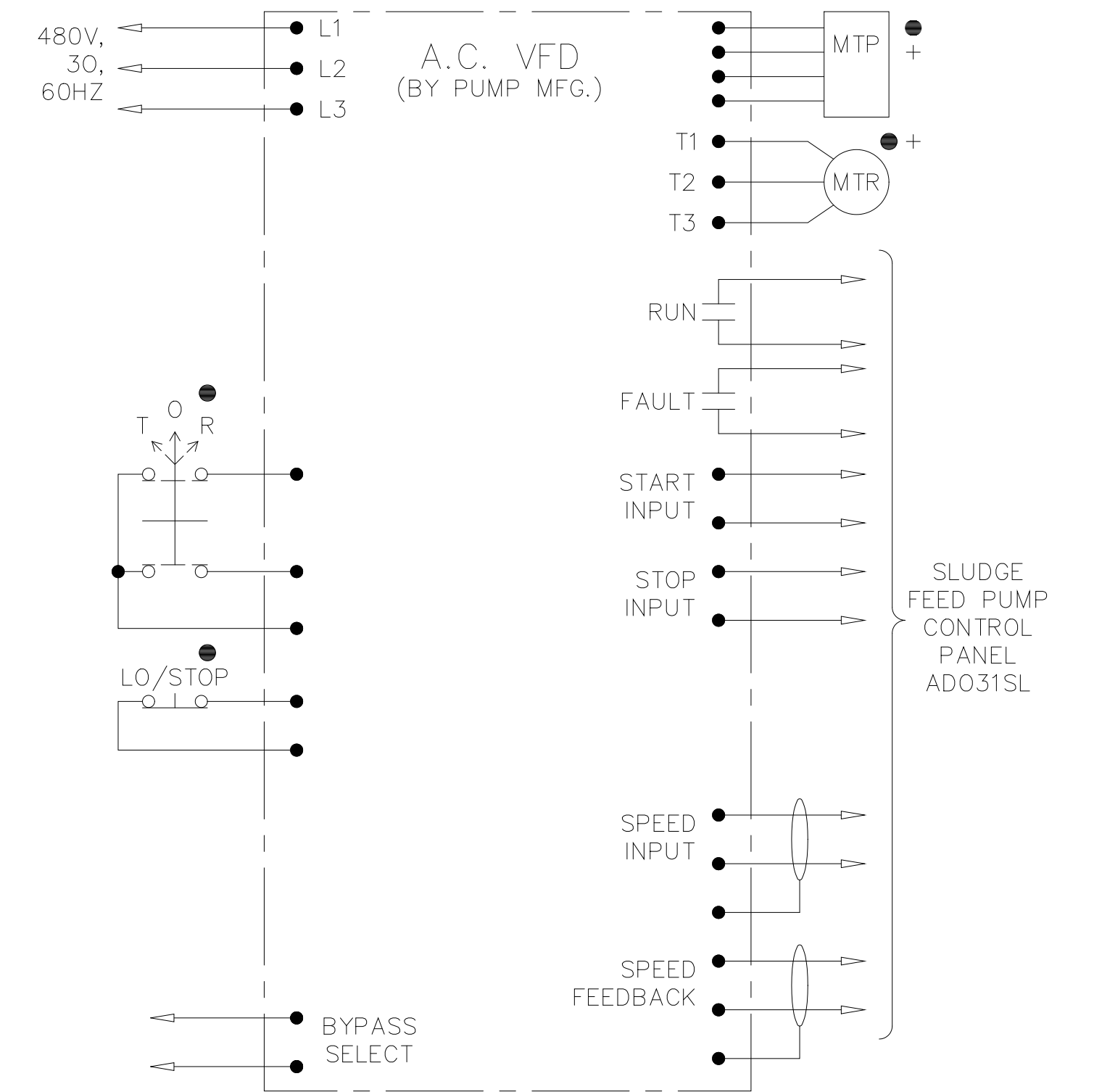


BIN DISTRIBUTOR CONVEYORS 1 AND 2



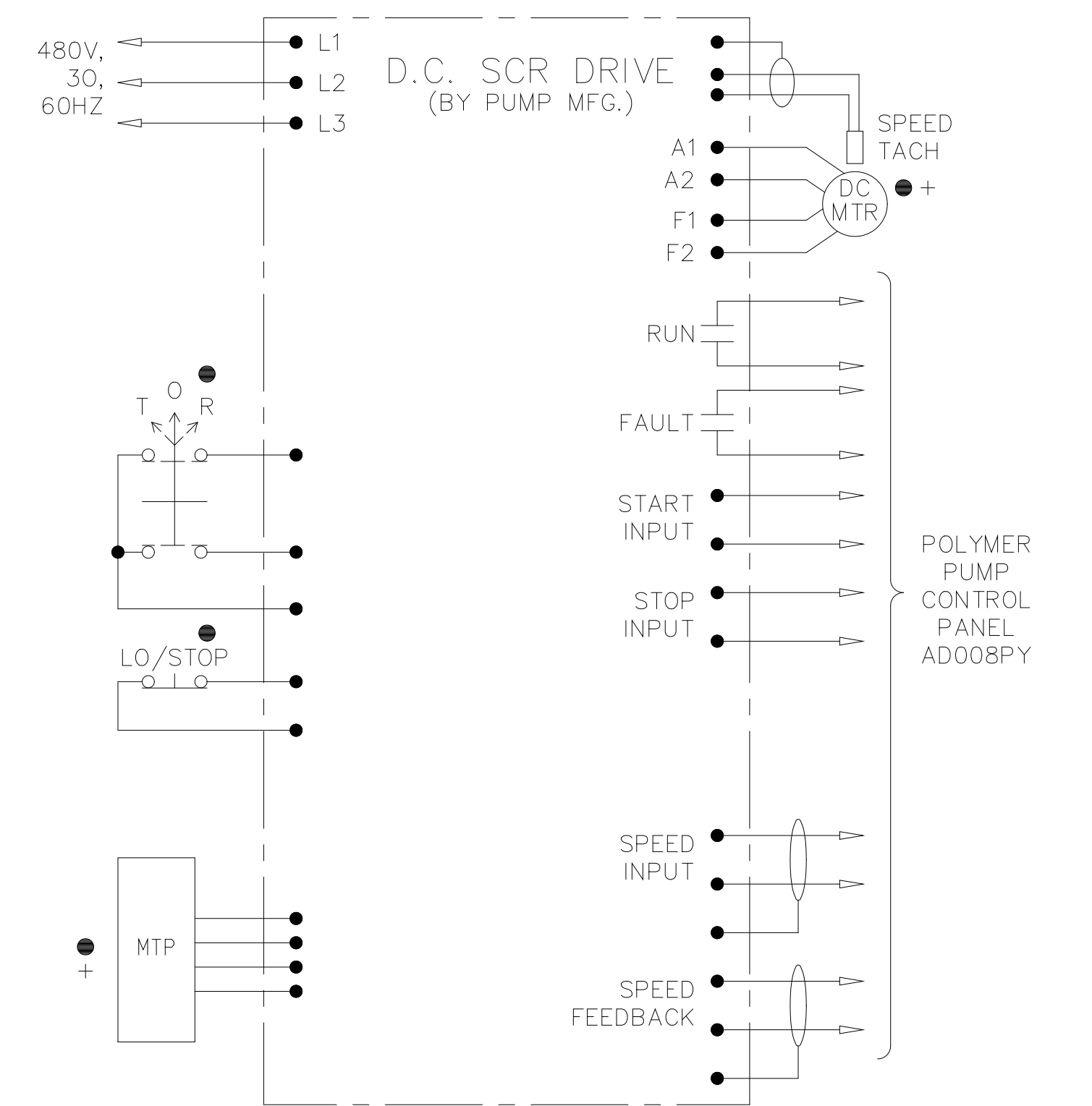
EWD-8

SLUDGE FEED PUMPS 1 THROUGH 5



EWD-9

POLYMER SOLUTION FEED PUMPS 1 THROUGH 5
LIQUID POLYMER TRANSFER PUMPS 1 AND 2

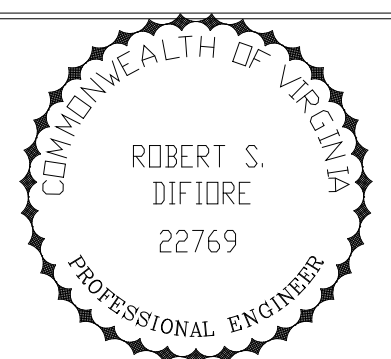


EWD-10

RECORD DRAWING

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NO.	ISSUED FOR
	DATE
	BY
	APPROVED



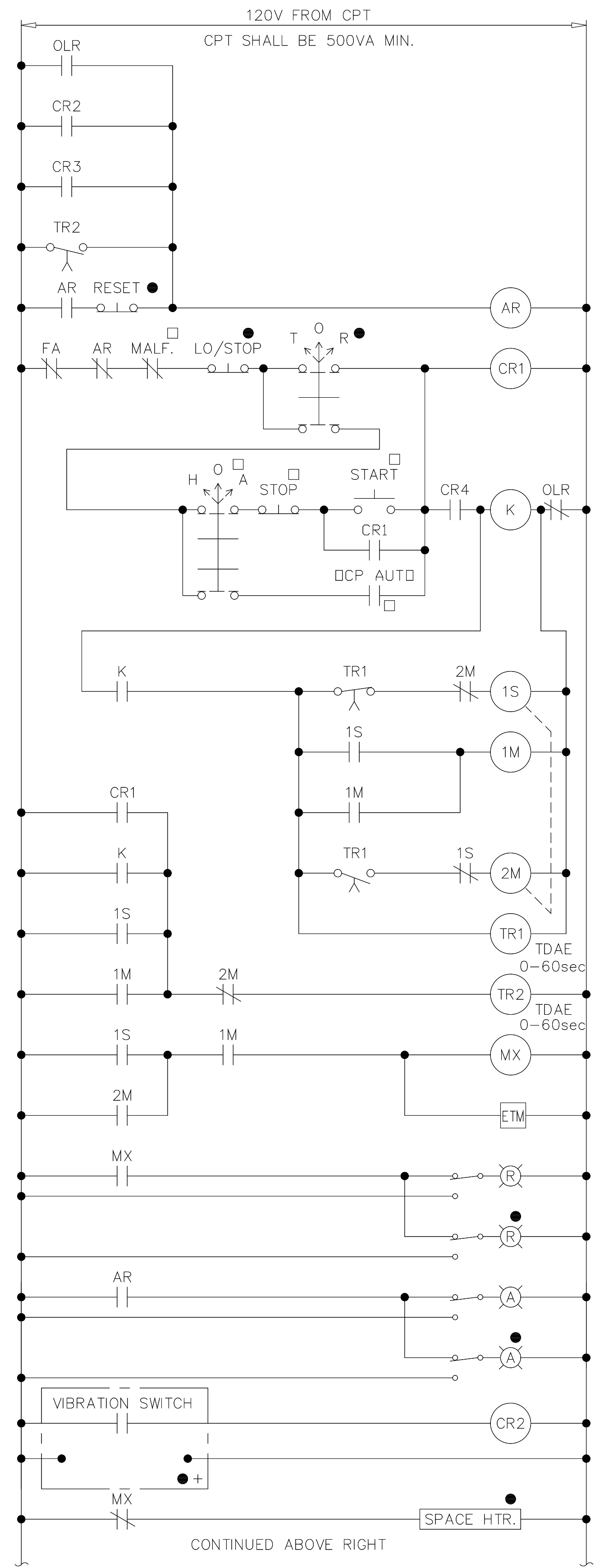
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UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
ELEMENTARY WIRING DIAGRAMS
SHEET 2

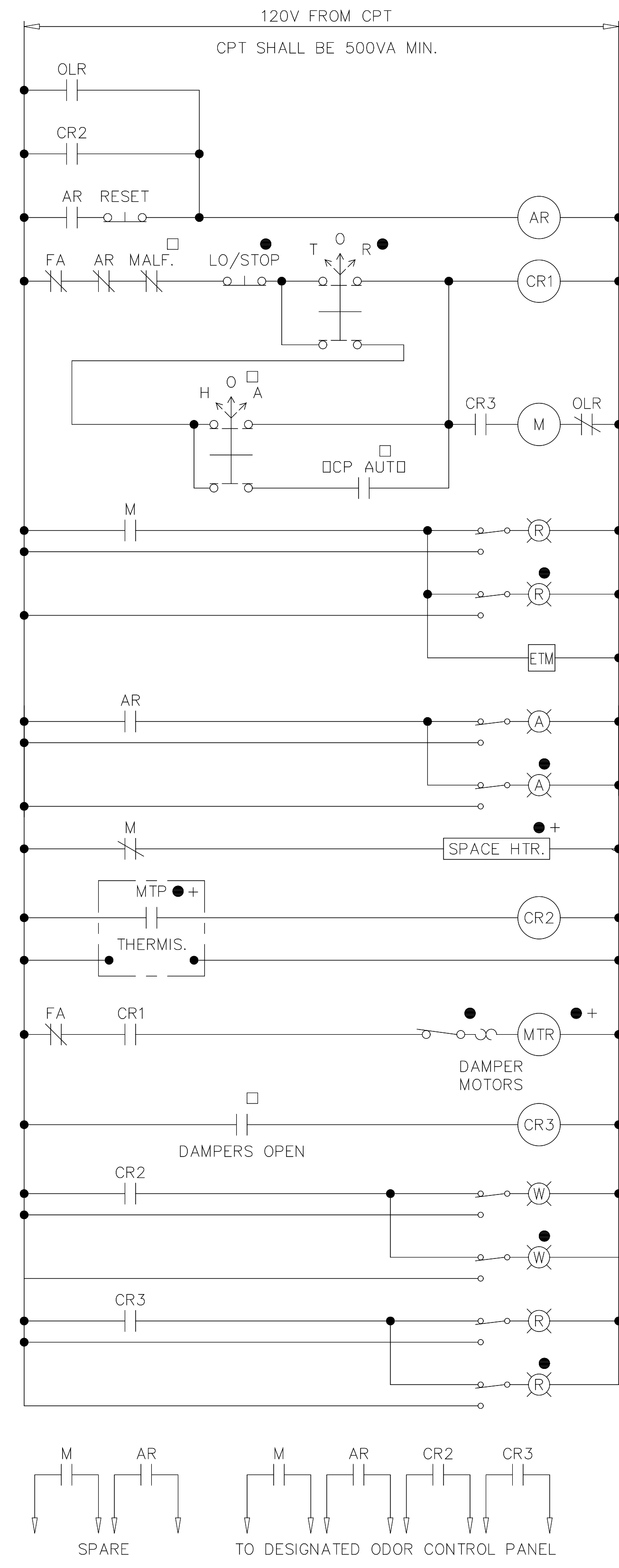
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-233
	SHEET	172 OF 199

BUILDING ODOR CONTROL SCRUBBER FANS
(WYE-DELTA)



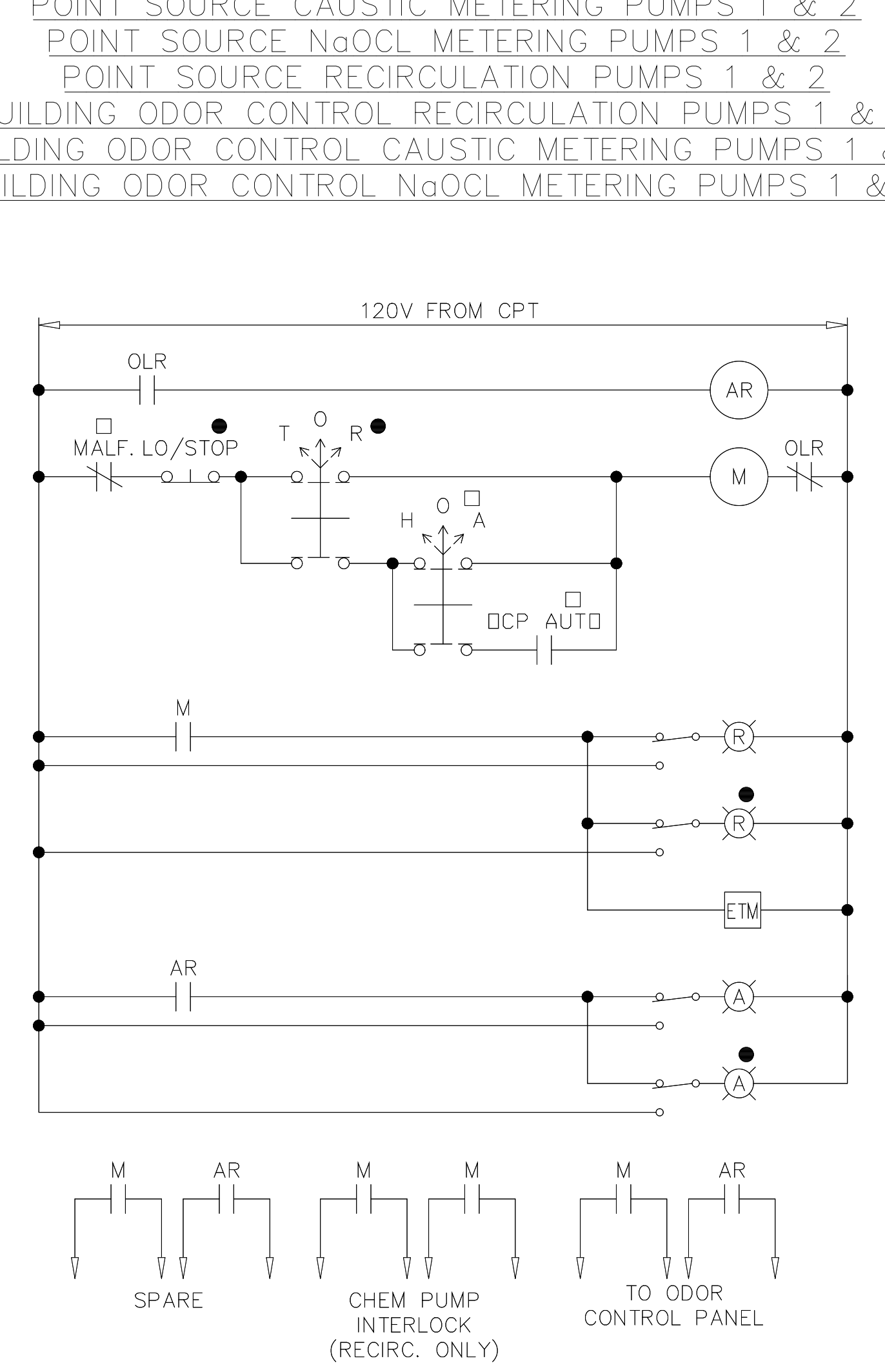
CONTINUED ABOVE RIGHT

POINT SOURCE ODOR CONTROL FANS 1 & 2
ACID SCRUBBER FANS



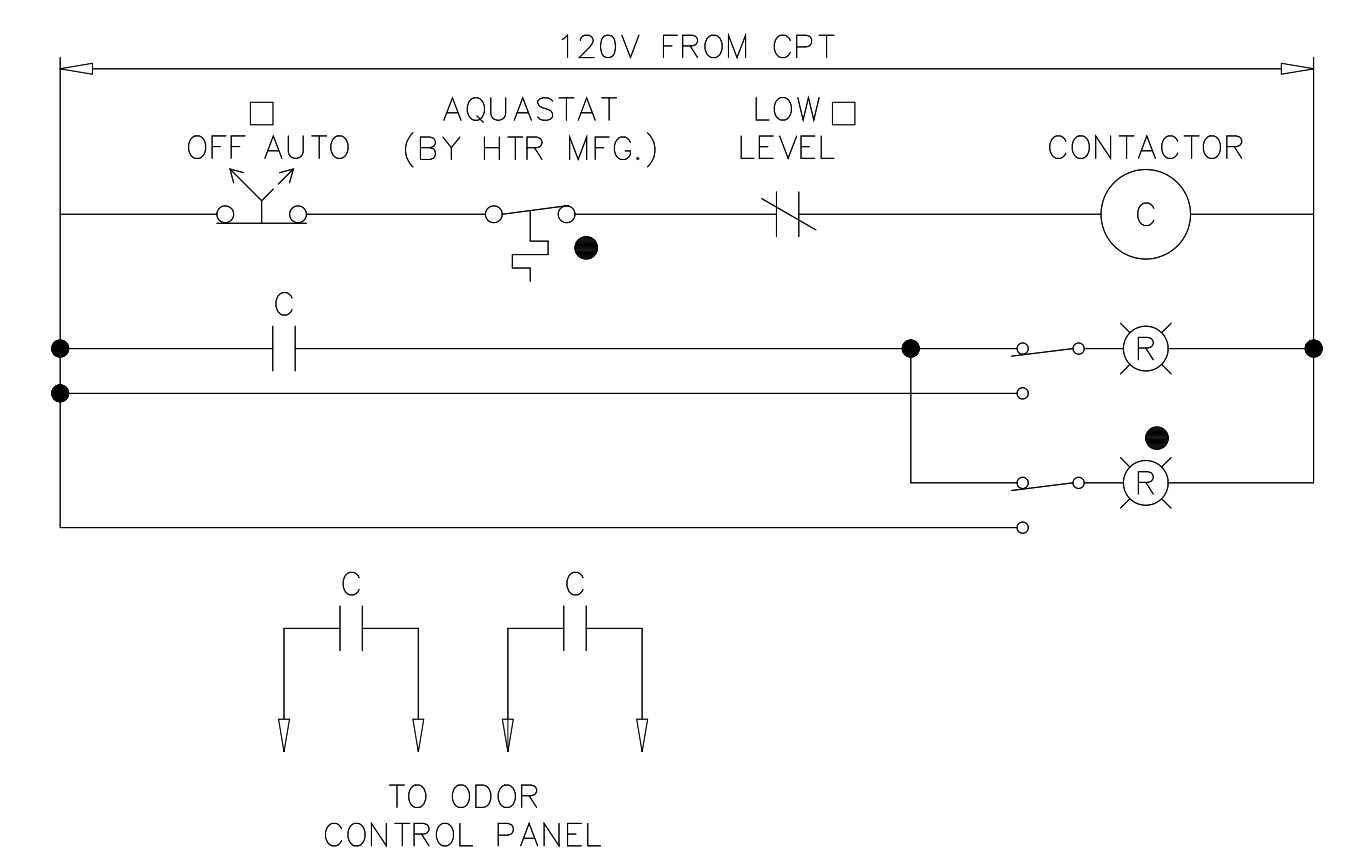
EWD-13

ACID SCRUBBER RECIRCULATING PUMPS 1 & 2
ACID SCRUBBER METERING PUMPS 1 & 2
POINT SOURCE CAUSTIC METERING PUMPS 1 & 2
POINT SOURCE NaOCL METERING PUMPS 1 & 2
POINT SOURCE RECIRCULATION PUMPS 1 & 2
BUILDING ODOR CONTROL RECIRCULATION PUMPS 1 & 2
BUILDING ODOR CONTROL CAUSTIC METERING PUMPS 1 & 2
BUILDING ODOR CONTROL NaOCL METERING PUMPS 1 & 2

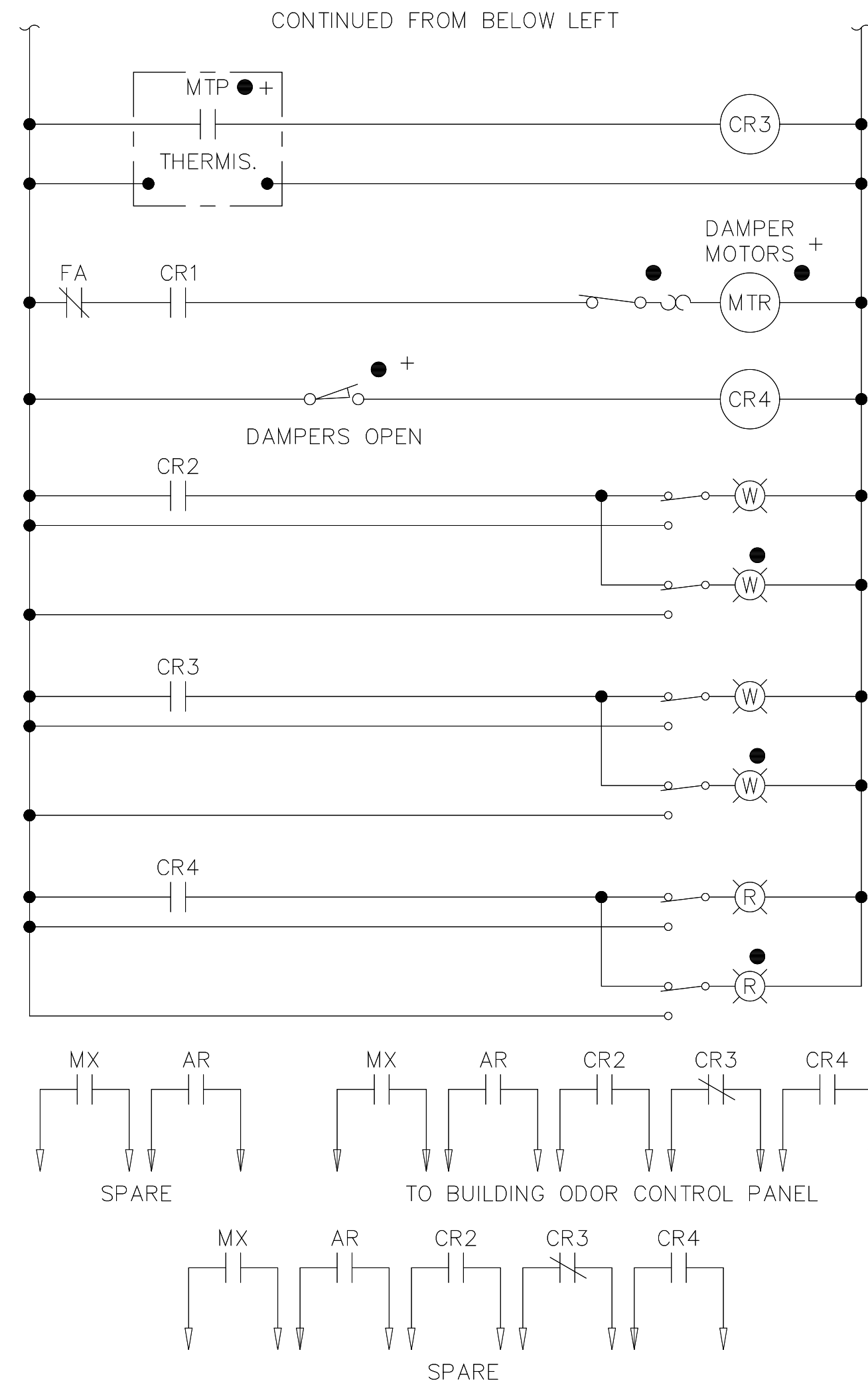


EWD-14

BUILDING ODOR CONTROL HEATERS

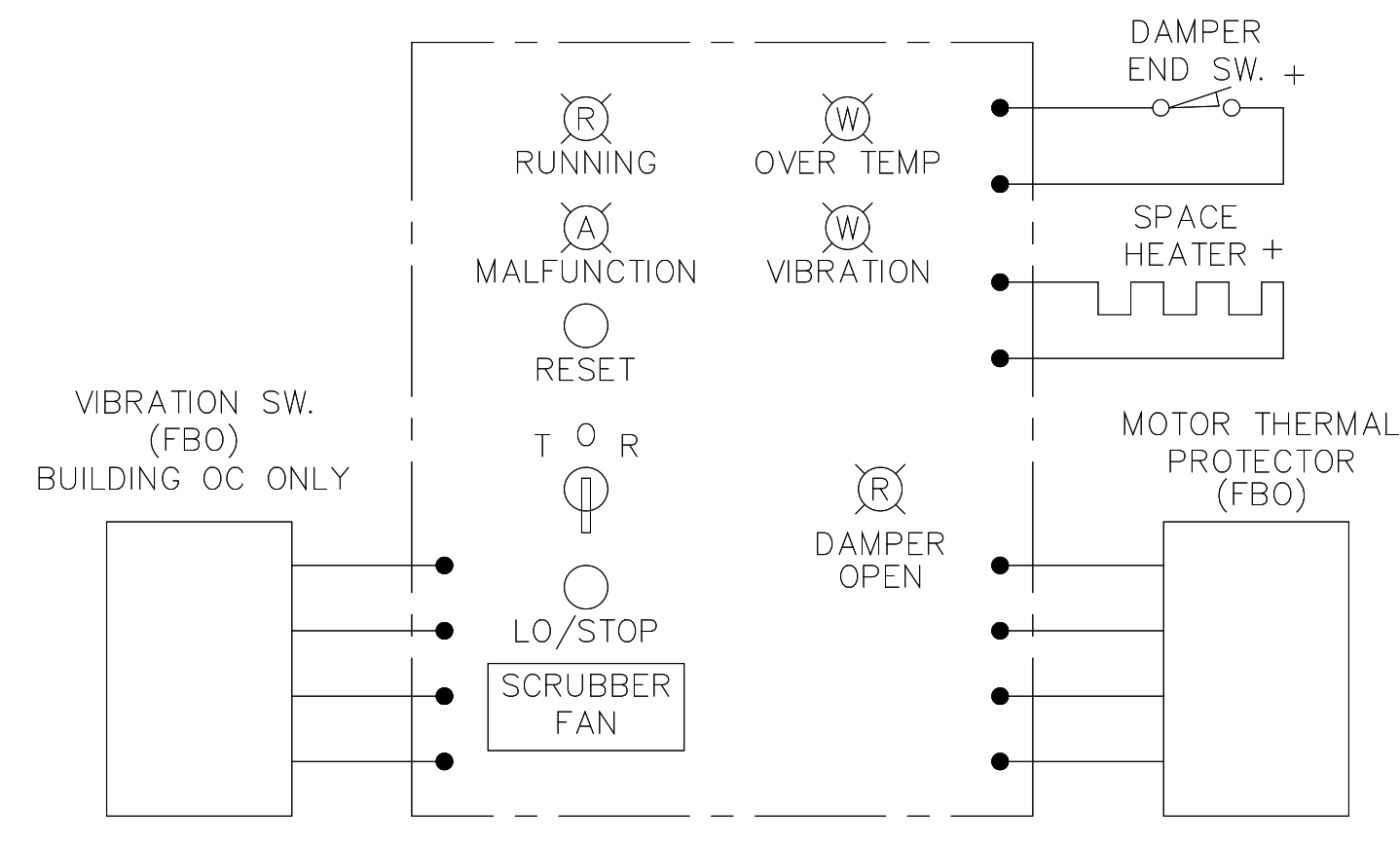


EWD-15



EWD-11

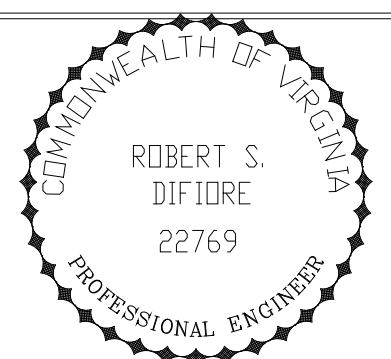
SCRUBBER FAN CONTROL STATIONS



EWD-12

RECORD DRAWING

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CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	



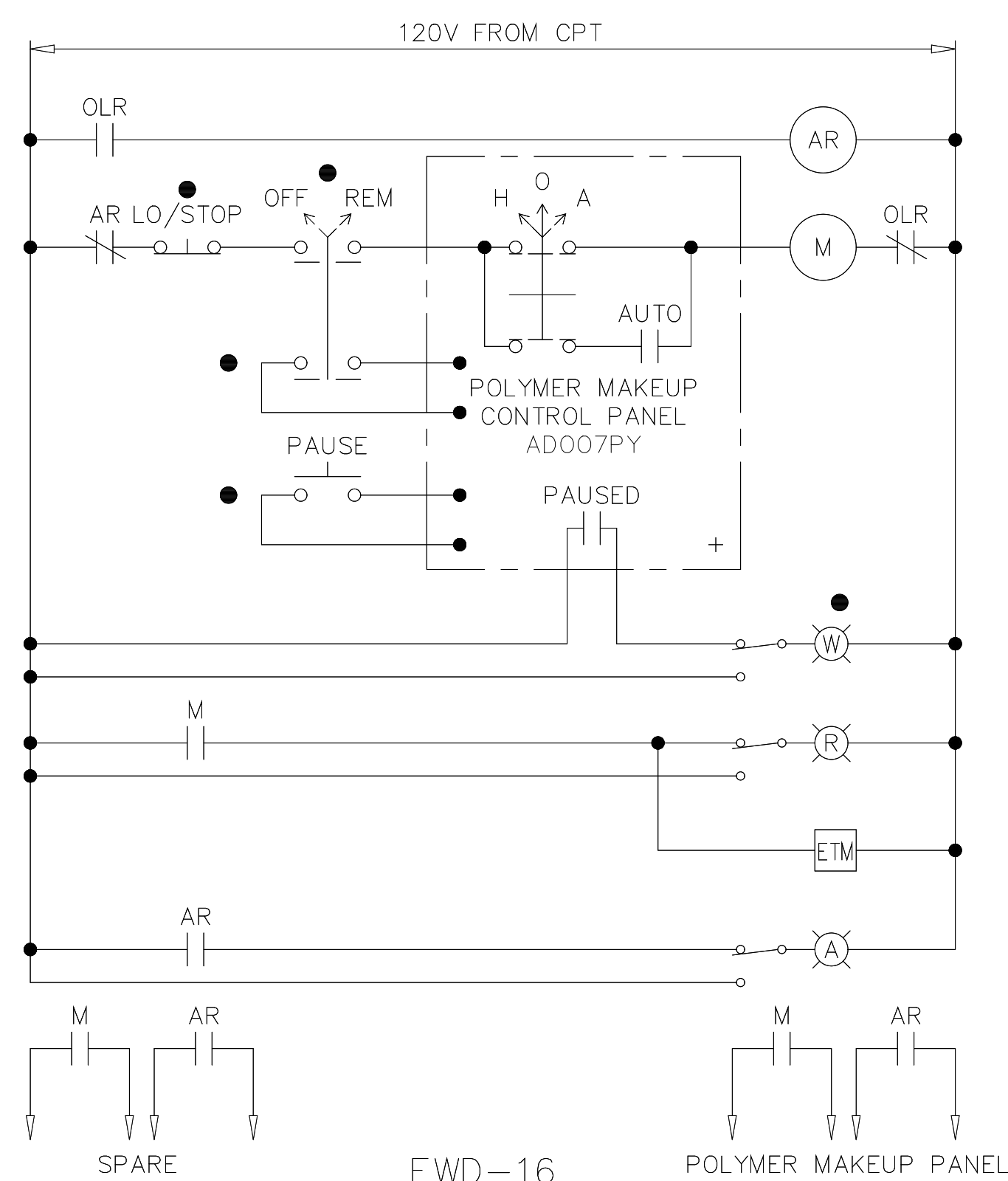
HAZENAND SAWYER
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ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

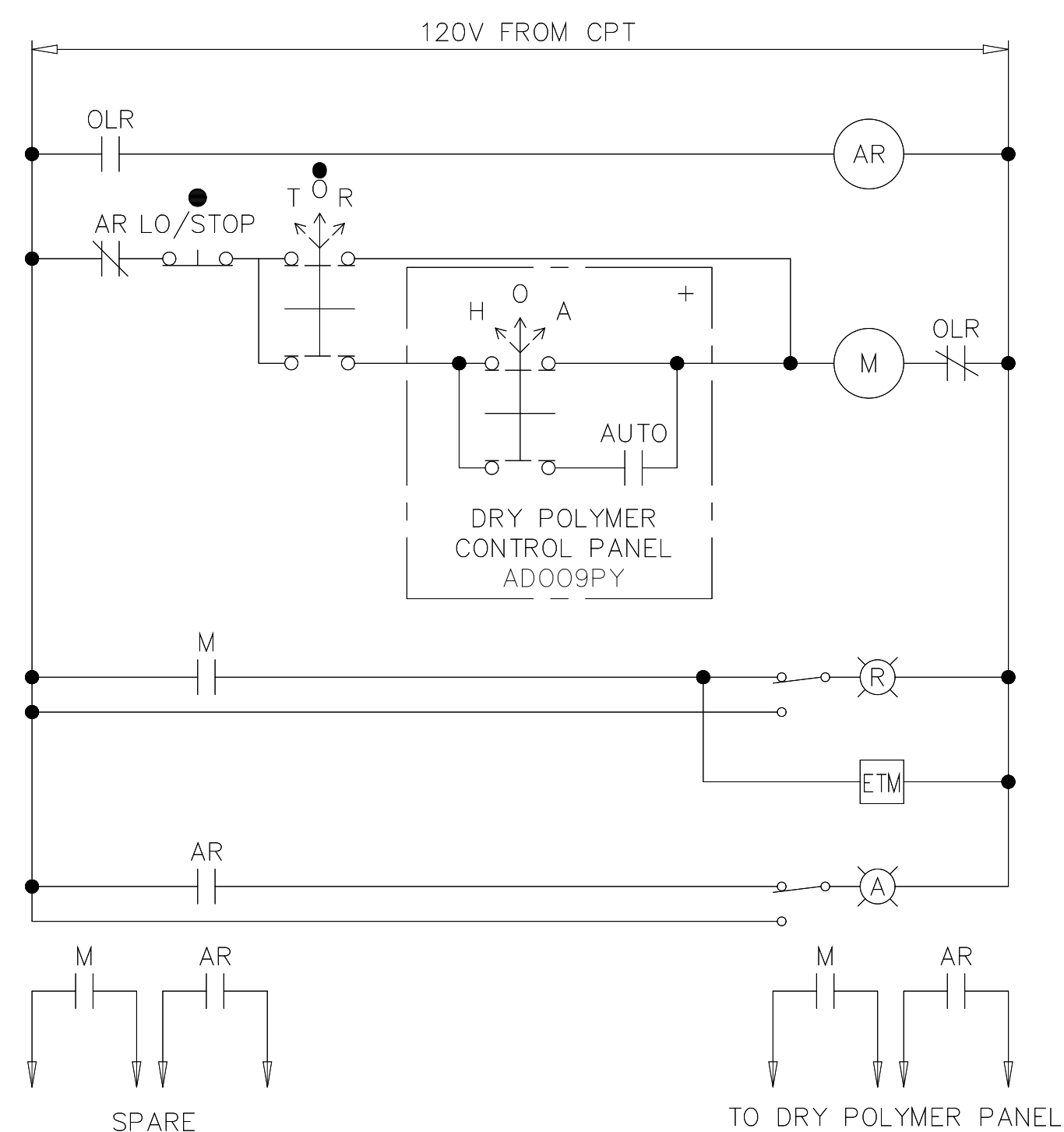
CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
ELEMENTARY WIRING DIAGRAMS
SHEET 3

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT 94
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER E-234
	SHEET 173 OF 199

POLYMER TANK MIXERS 1-3

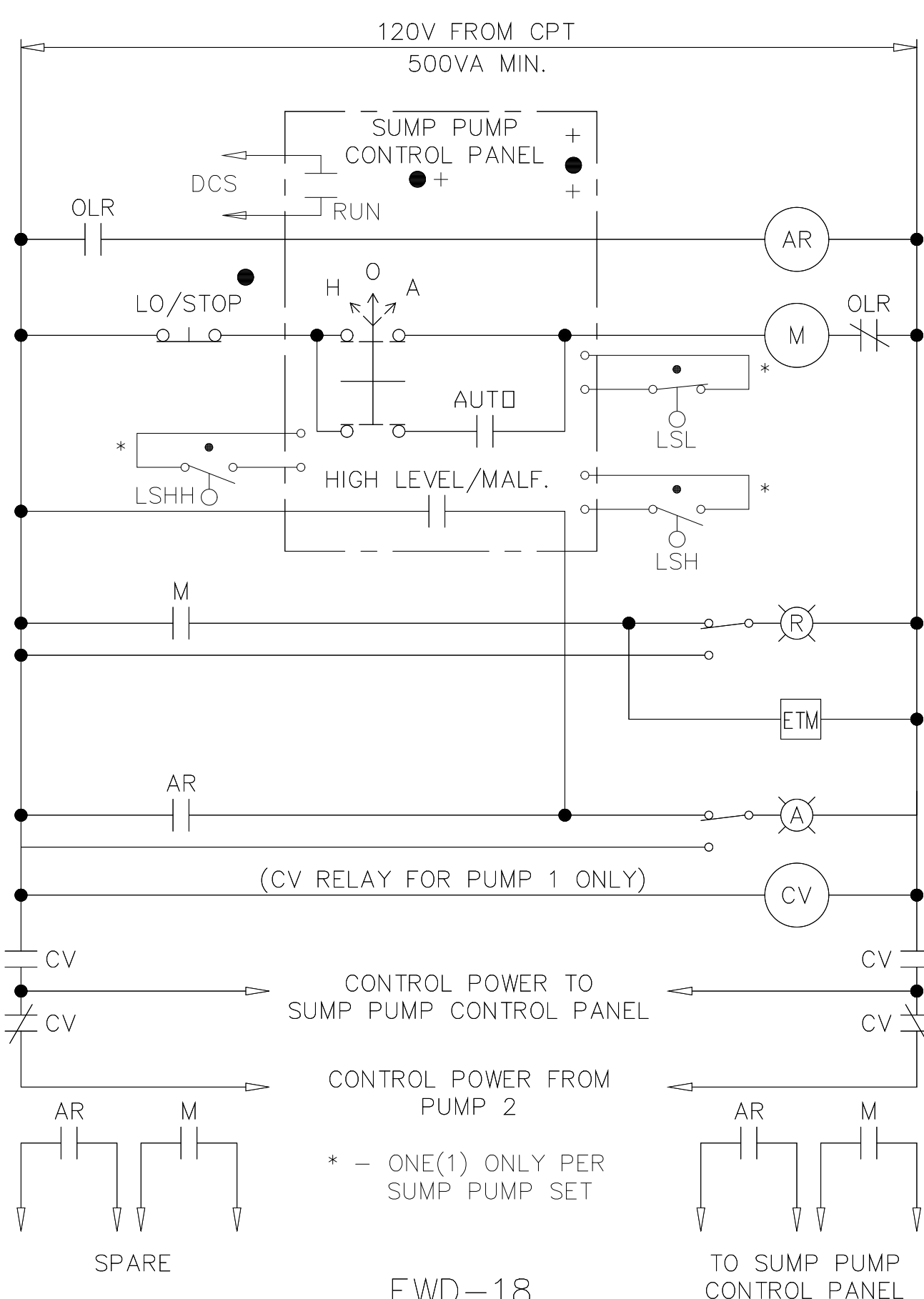


DRY POLYMER FEEDERS 1-3
DRY POLYMER BLOWERS 1-3



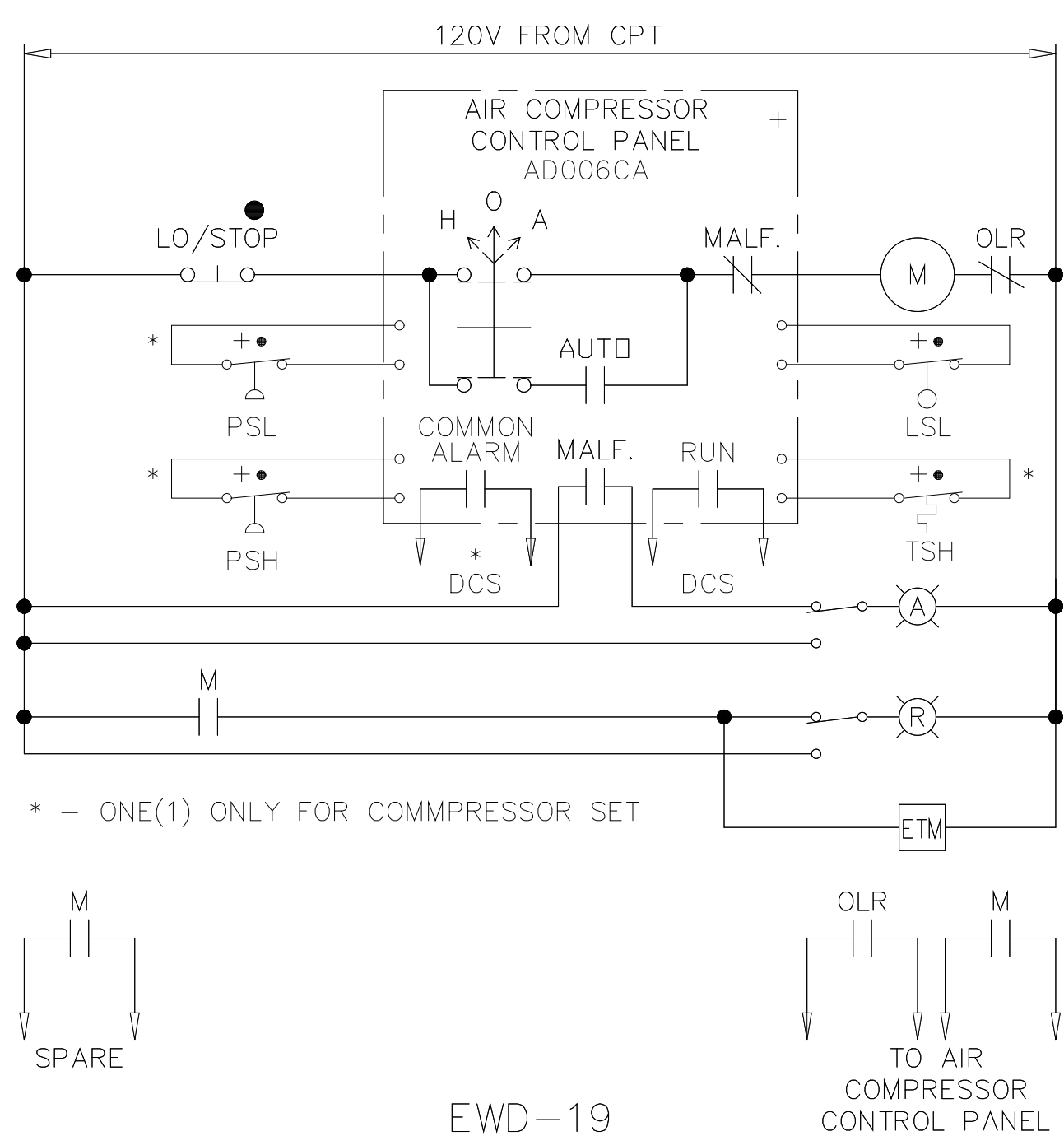
EWD-17

POLYMER AREA SUMP PUMPS 1&2
PROCESS DRAIN SUMP PUMPS 1&2



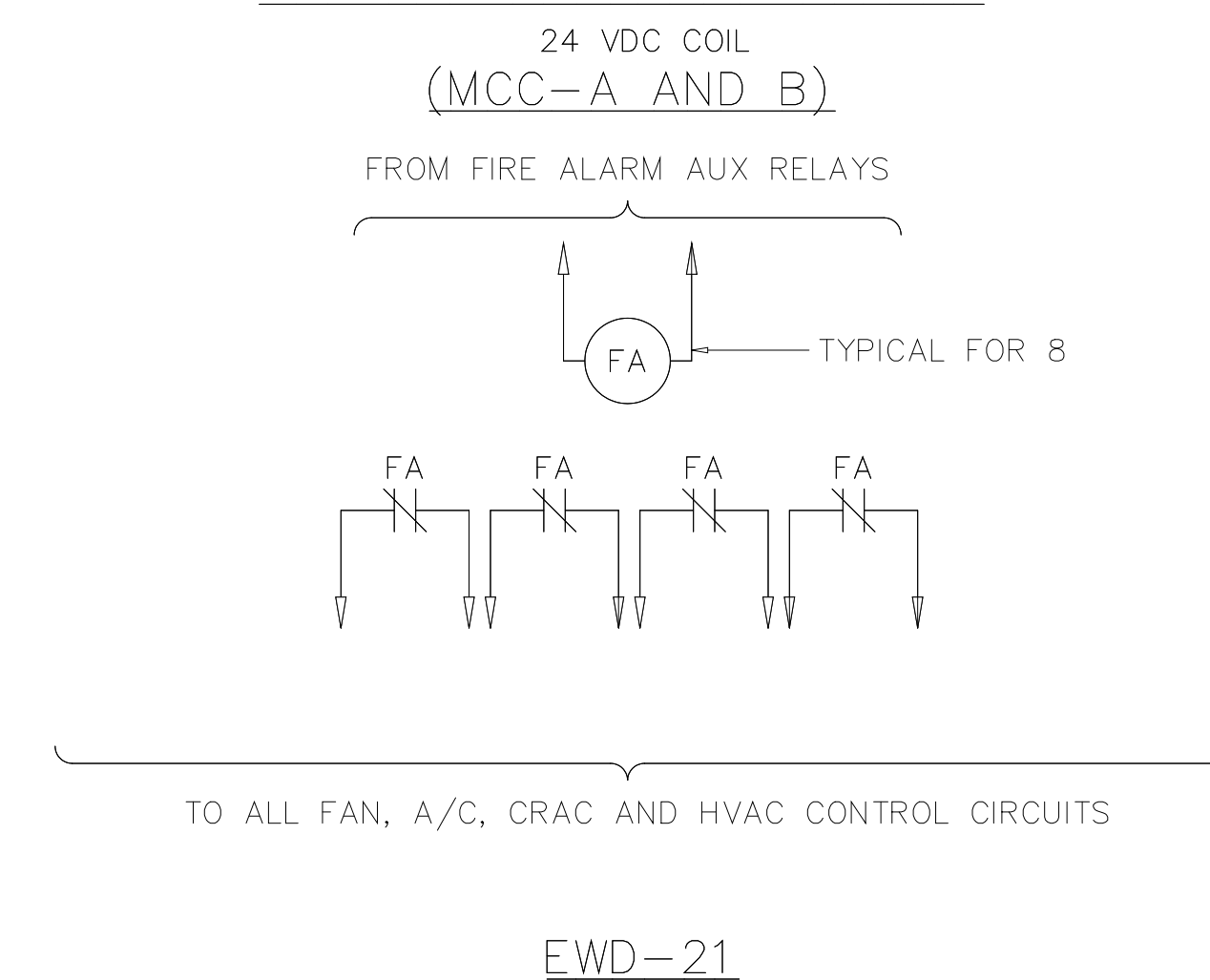
EWD-18

SERVICE AIR COMPRESSORS 1&2



EWD-19

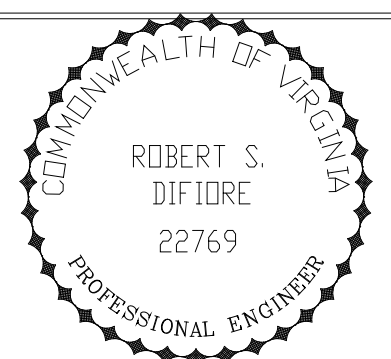
MCC FAN SHUTDOWN RELAYS



RECORD DRAWING

PLOT DATE 04/17/02 4:30pm FILE: H:\DATA\mwhp\174-ED24.dwg USER: MWH

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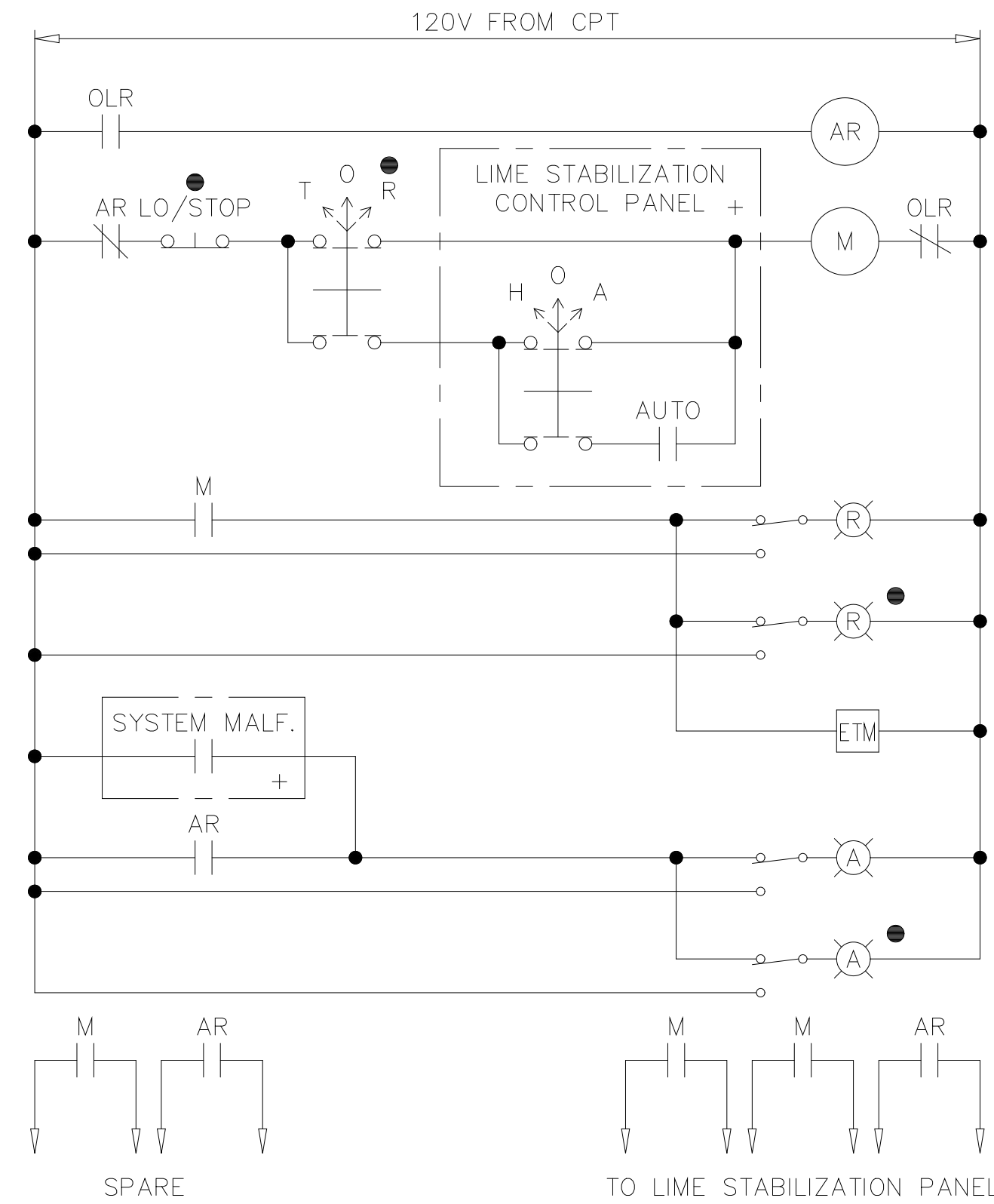
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
ELEMENTARY WIRING DIAGRAMS
SHEET 4

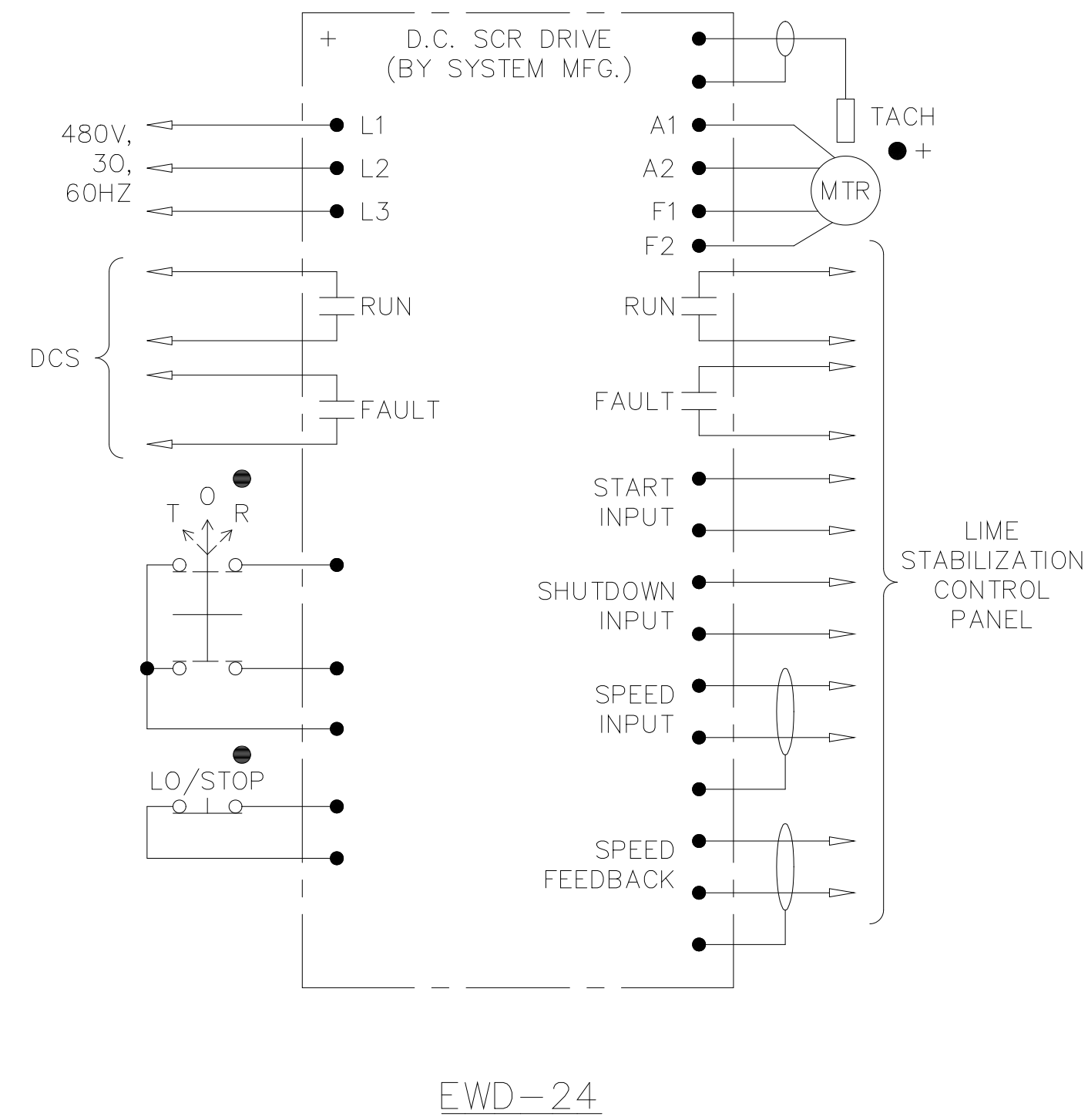
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-235
	SHEET	174 OF 199

LIME BIN ACTIVATORS 1 & 2



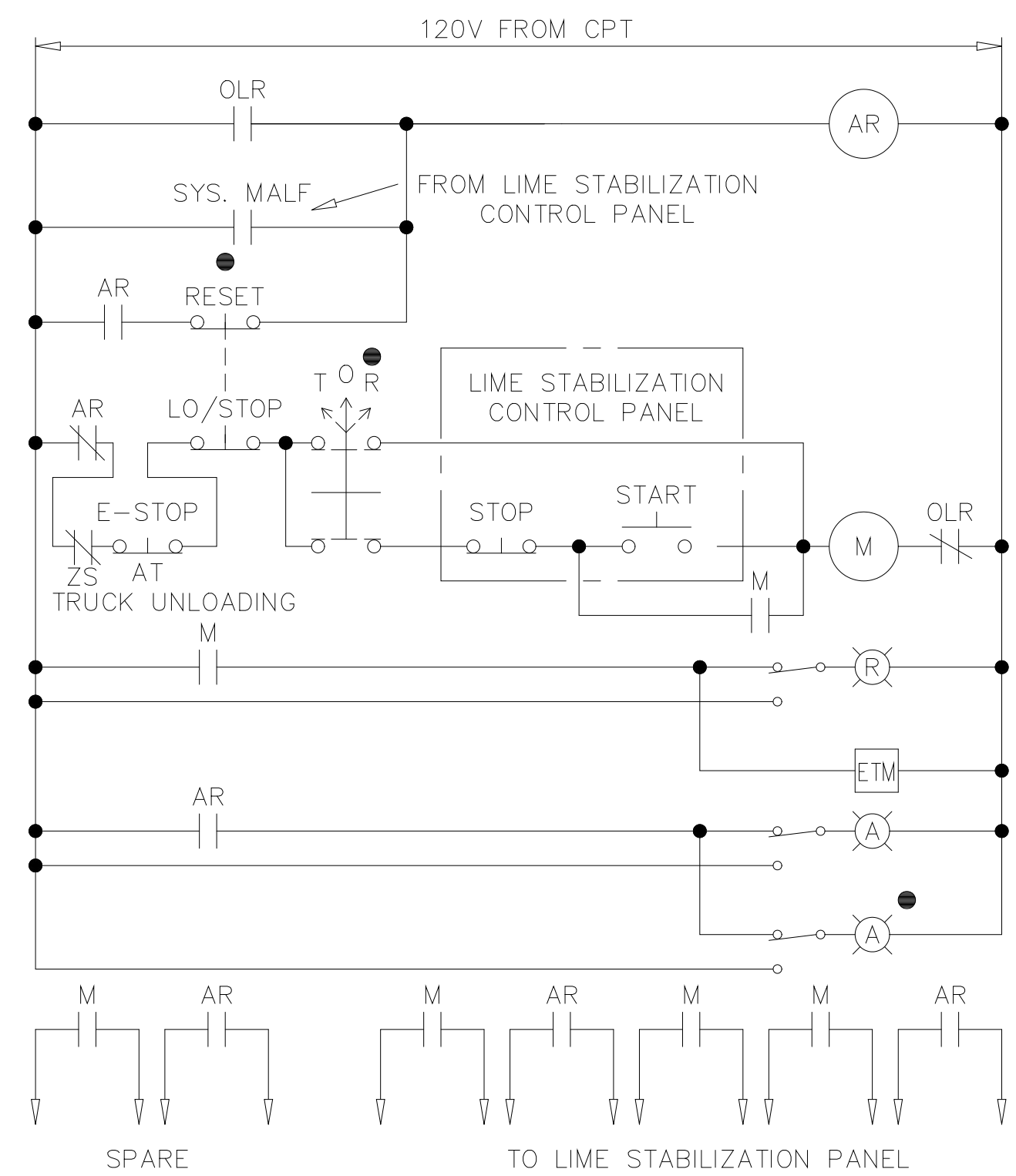
EWD-22

LIME FEED SCREW FEEDERS 1 & 2



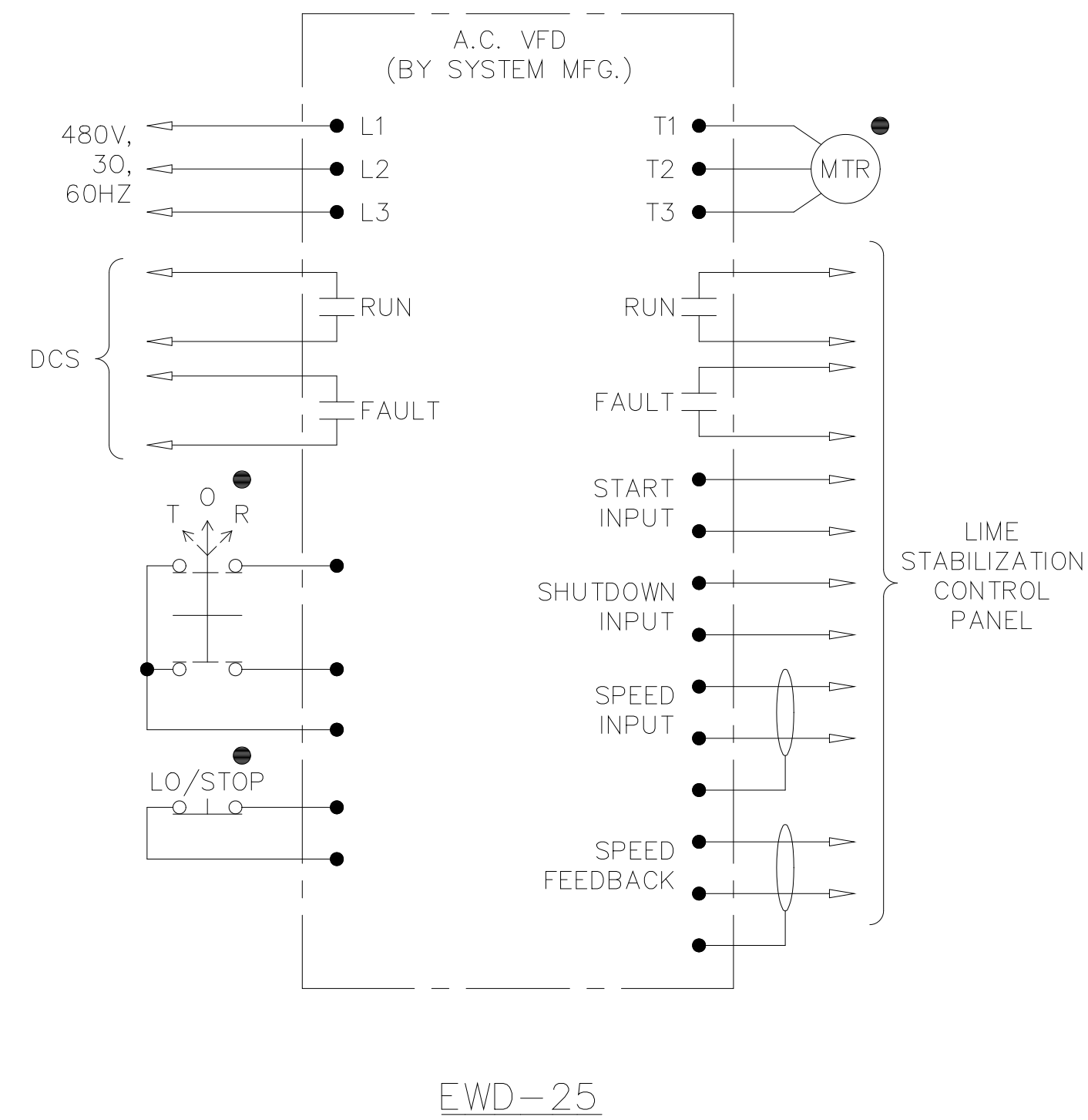
EWD-24

LIME TRANSFER BLOWERS 1 & 2



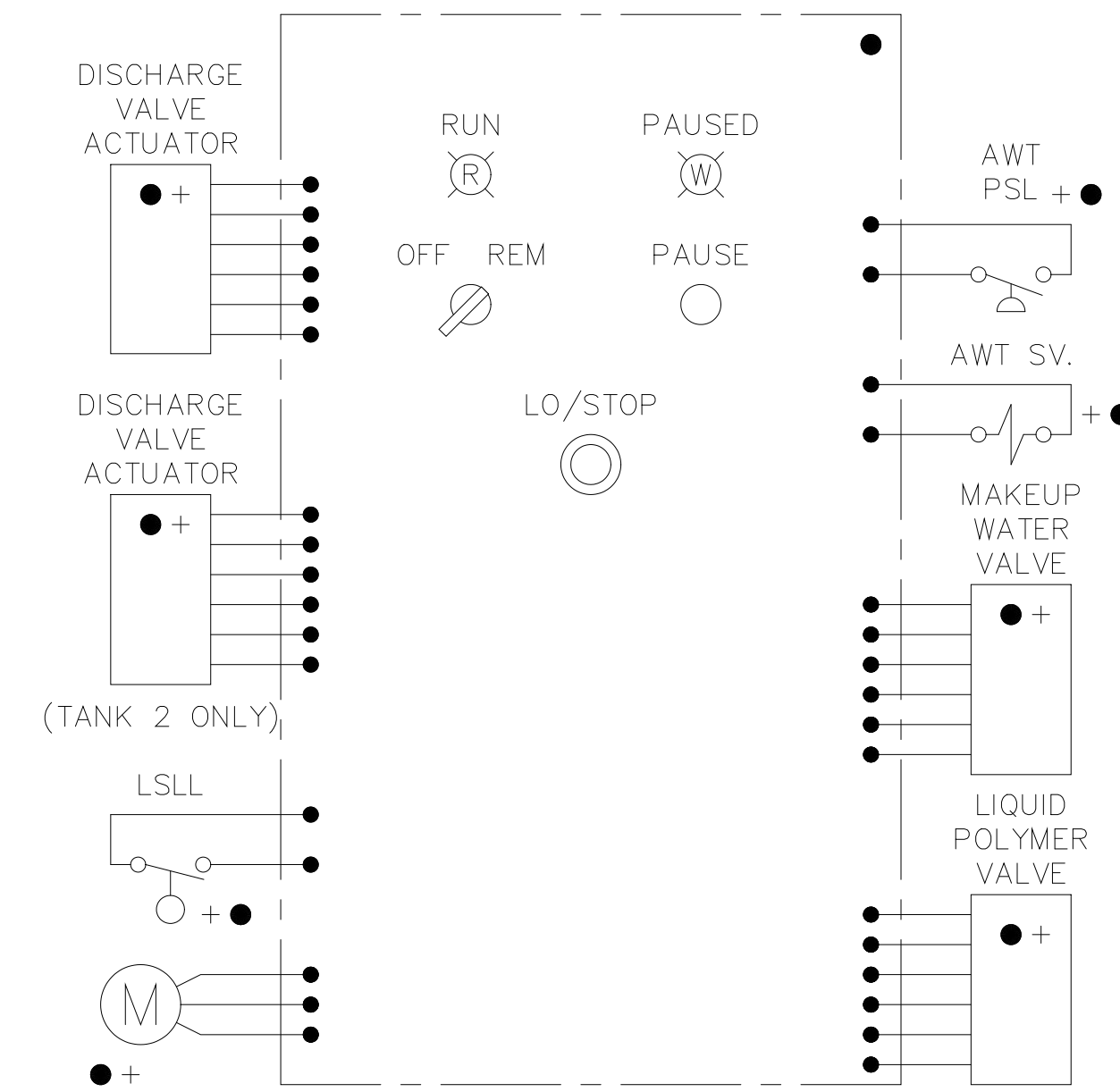
EWD-23

SLUDGE/LIME MIXERS 1-4



EWD-25

POLYMER MIXER J-BOX CONTROL STATION

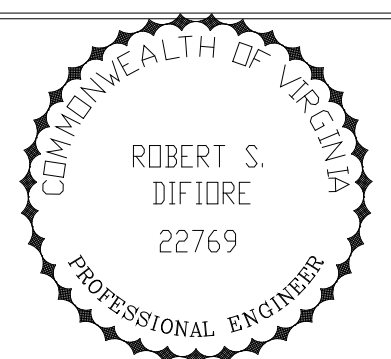


EWD-27

RECORD DRAWING

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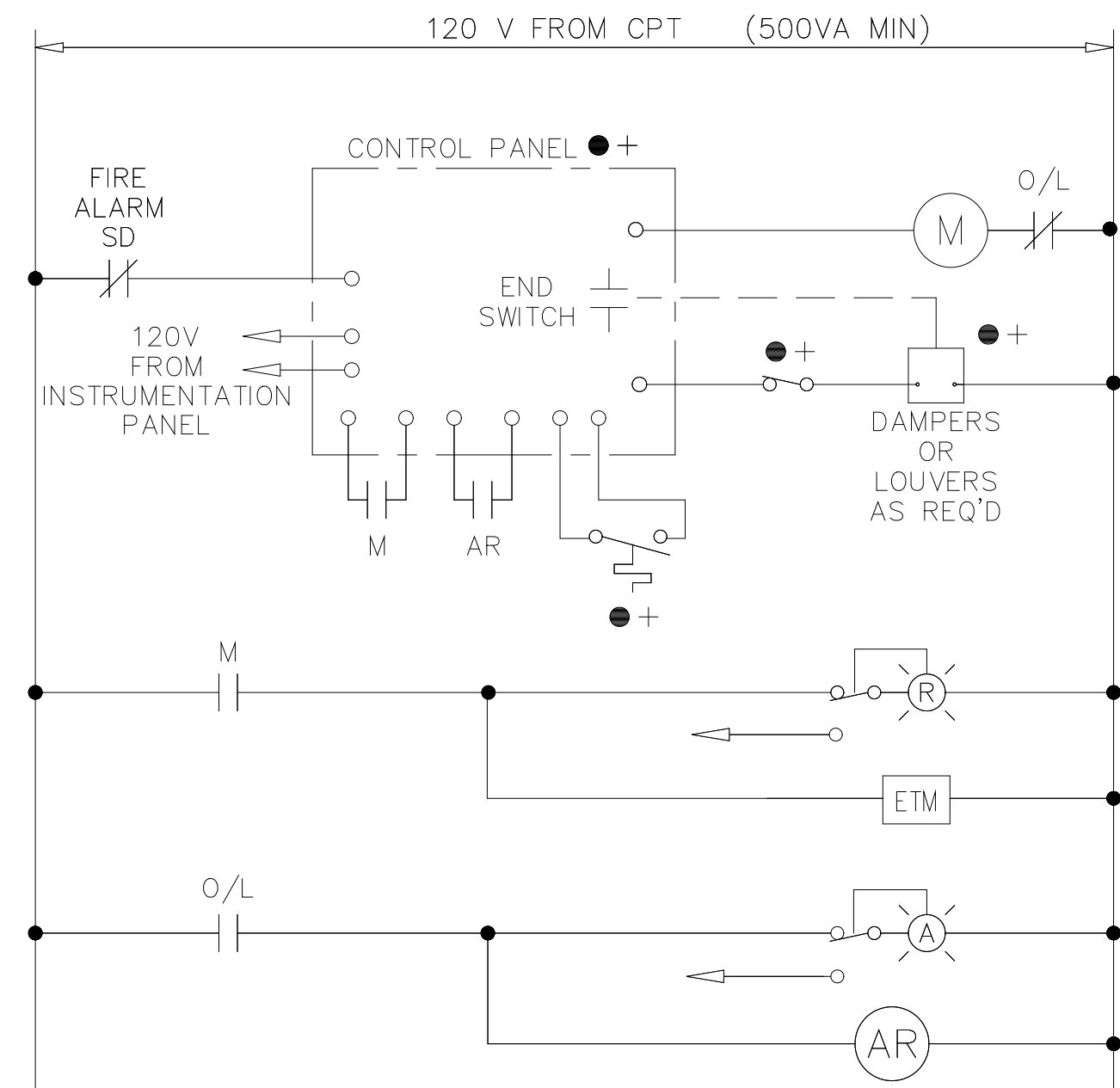
HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

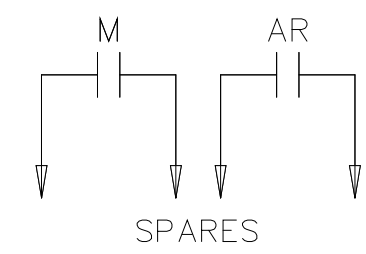
CENTRIFUGE DEWATERING BUILDING
 ELECTRICAL
 ELEMENTARY WIRING DIAGRAMS
 SHEET 5

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-236
	SHEET	175 OF 199

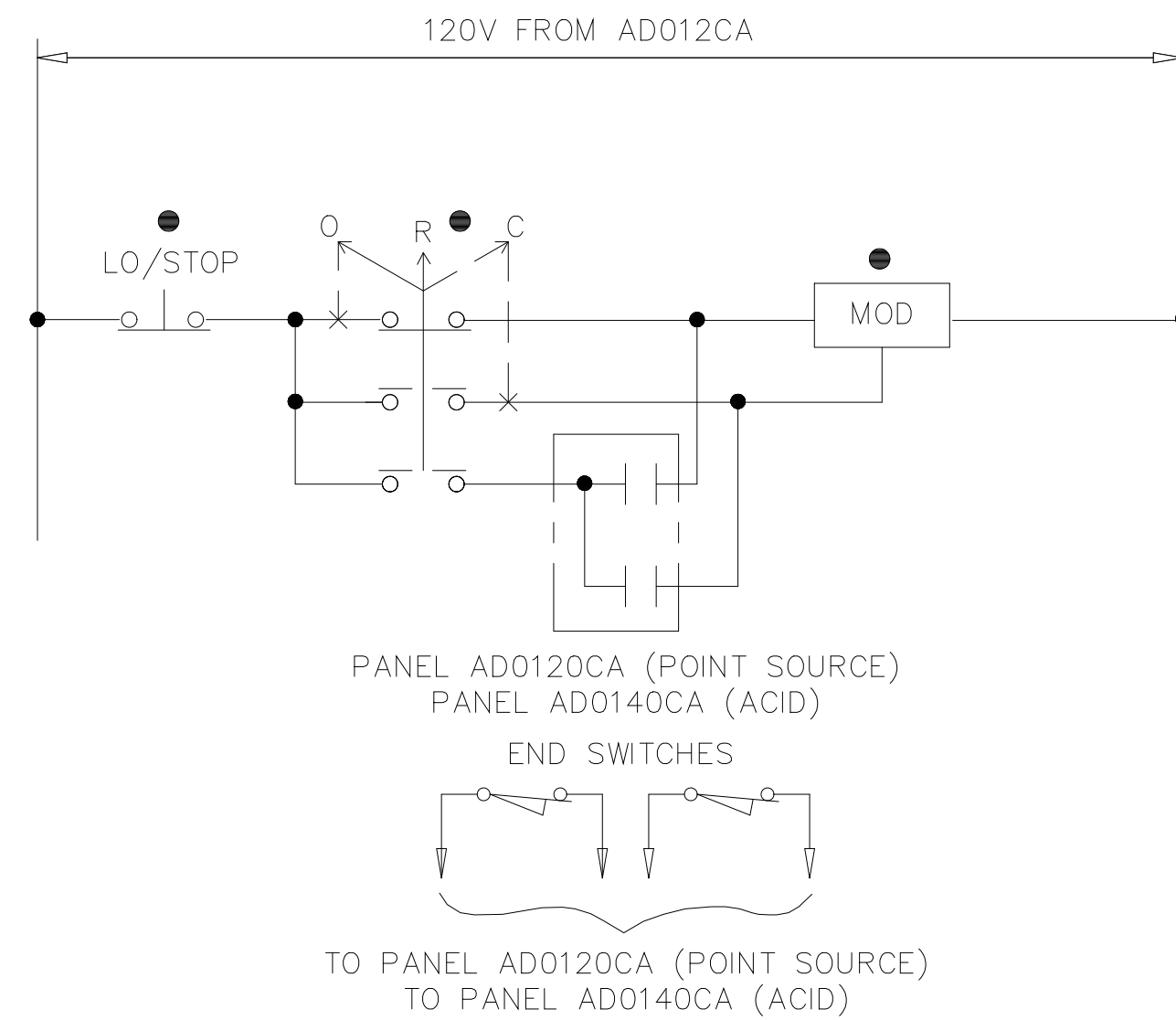
EXHAUST FAN EF-1, EF-3, EF-5, EF-9, EF-10, EF-14, EF-18, EF-19



EWD-28

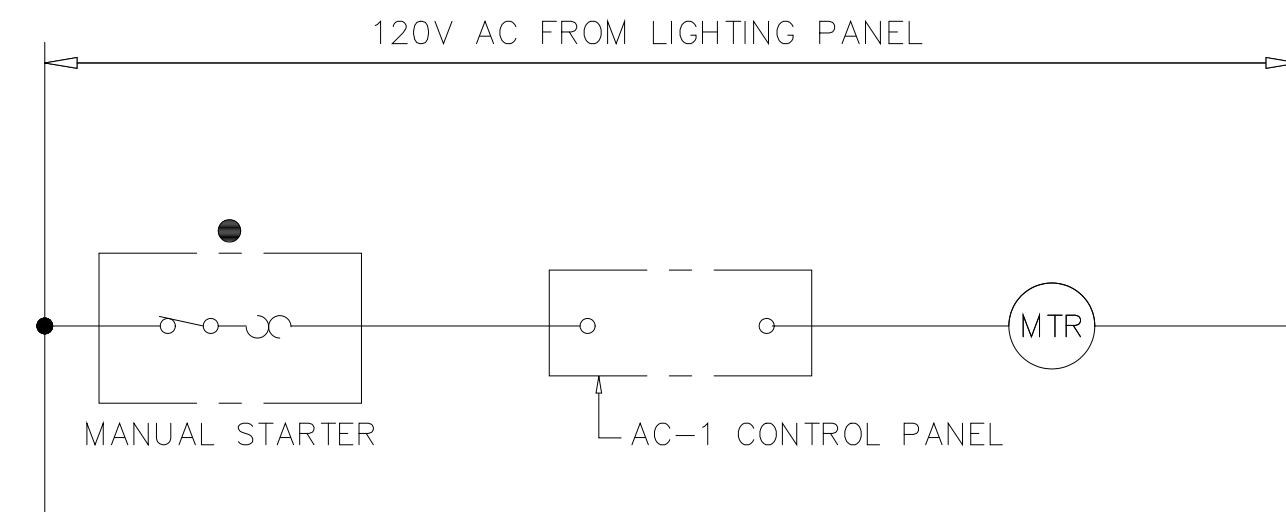


ACID SCRUBBER FANS 1&2 INLET DAMPERS
EMERGENCY VENT DAMPER
POINT SOURCE FANS 1&2 INLET DAMPERS



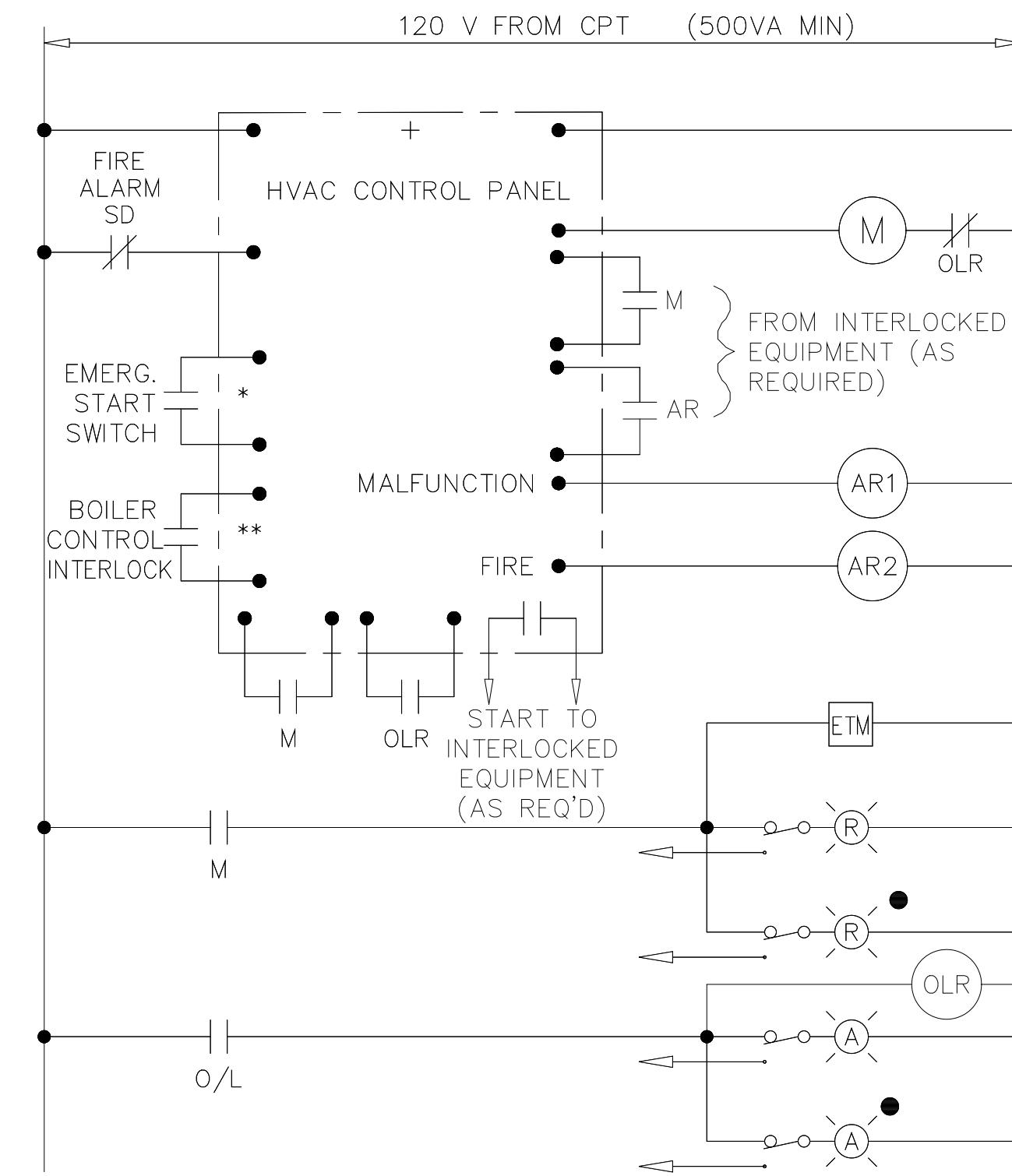
EWD-30

EXHAUST FAN EF-8 & PUMP P-4



EWD NO.35

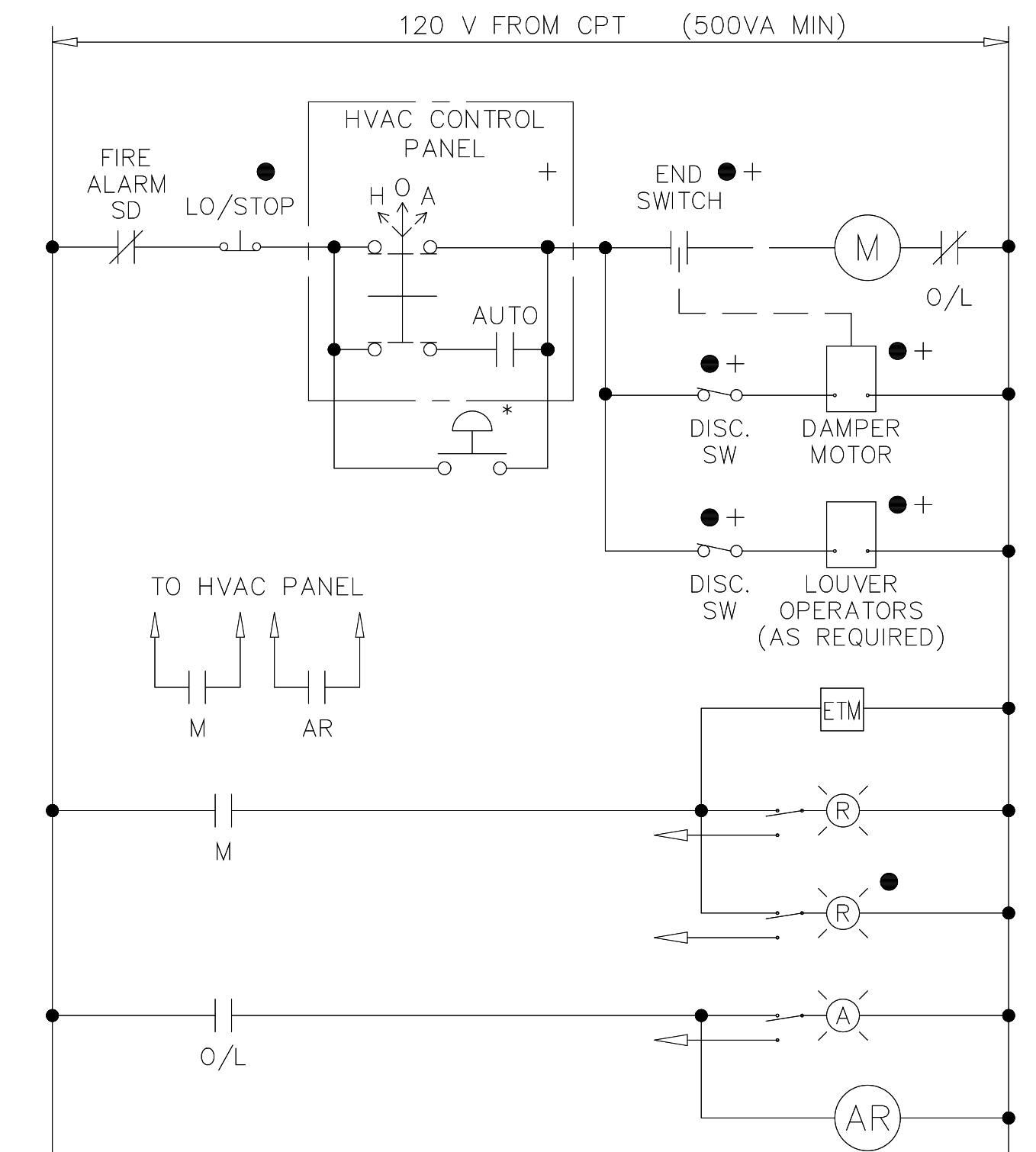
SUPPLY FAN SF-17
HEAT AND VENT UNIT HV-1, HV-2, HV-3, HV-4
AIR CONDITIONER AC-1



EWD-32

* FOR HV-1 ONLY.
** FOR SF-17 ONLY.

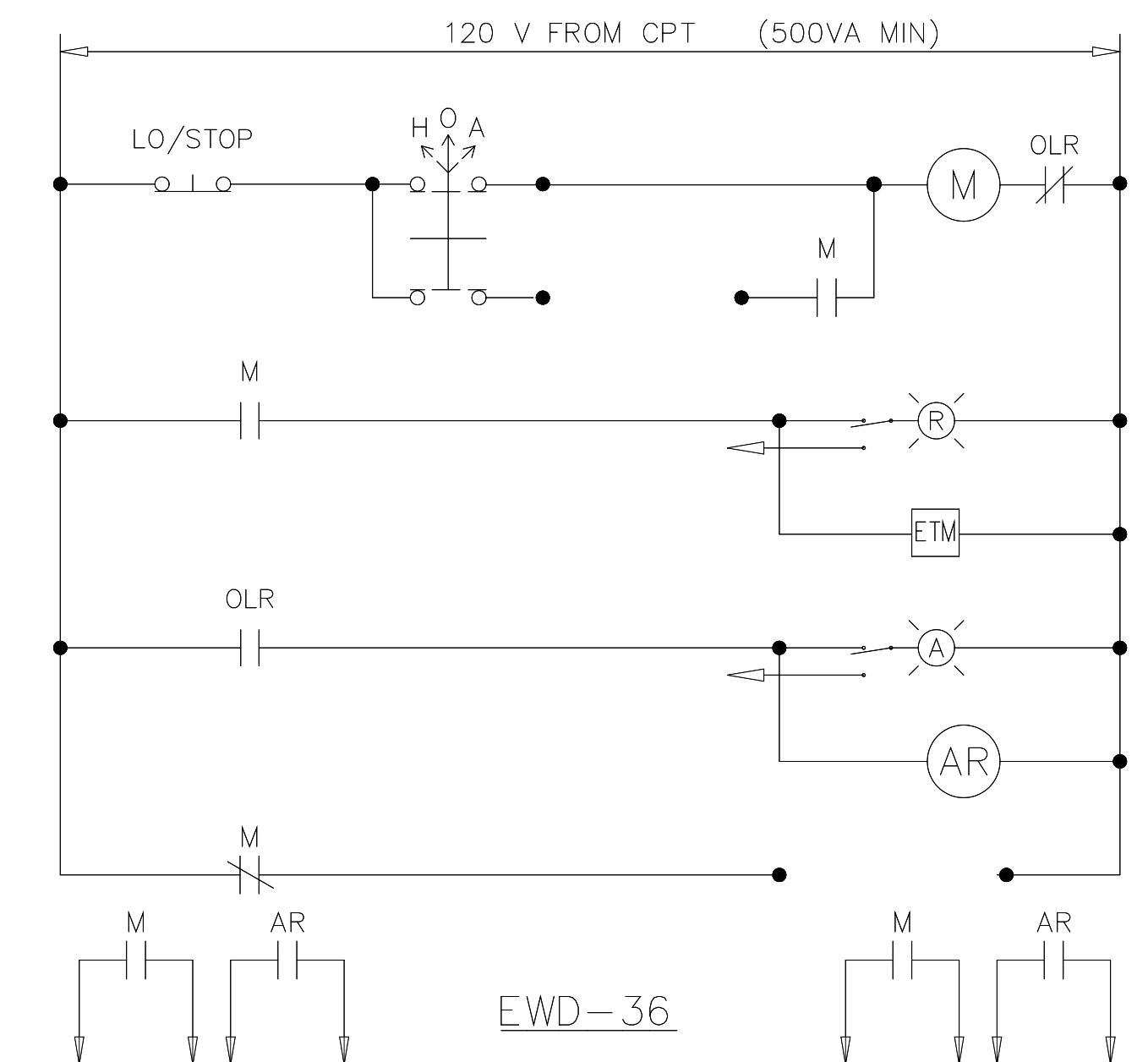
EXHAUST FAN EF-2
EXHAUST FAN EF-6
EXHAUST FAN EF-7
EXHAUST FAN EF-11
EXHAUST FAN EF-12



EWD-34

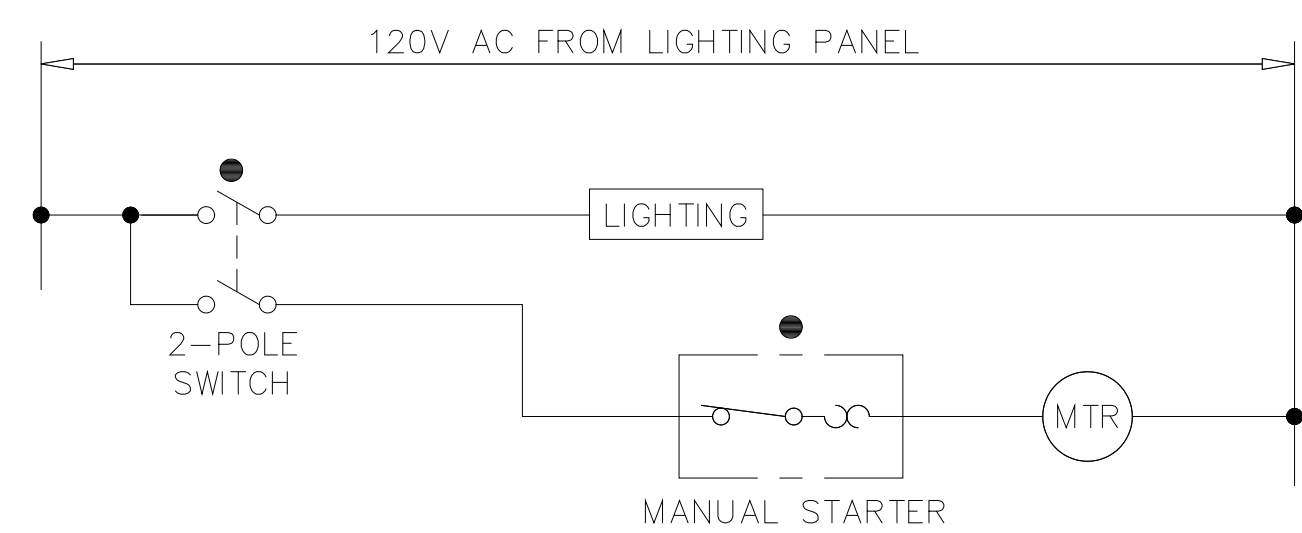
* FOR EF-2 ONLY. "RED MUSHROOM" TYPE, MAINTAINED CONTACT EMERGENCY SWITCH MOUNTED OUTSIDE CAUSTIC STORAGE ROOM.
* FANS EF-11 INTERLOCKED WITH HV-3. ALL OTHER FANS INTERLOCKED WITH HV-1.

SPARE STARTERS



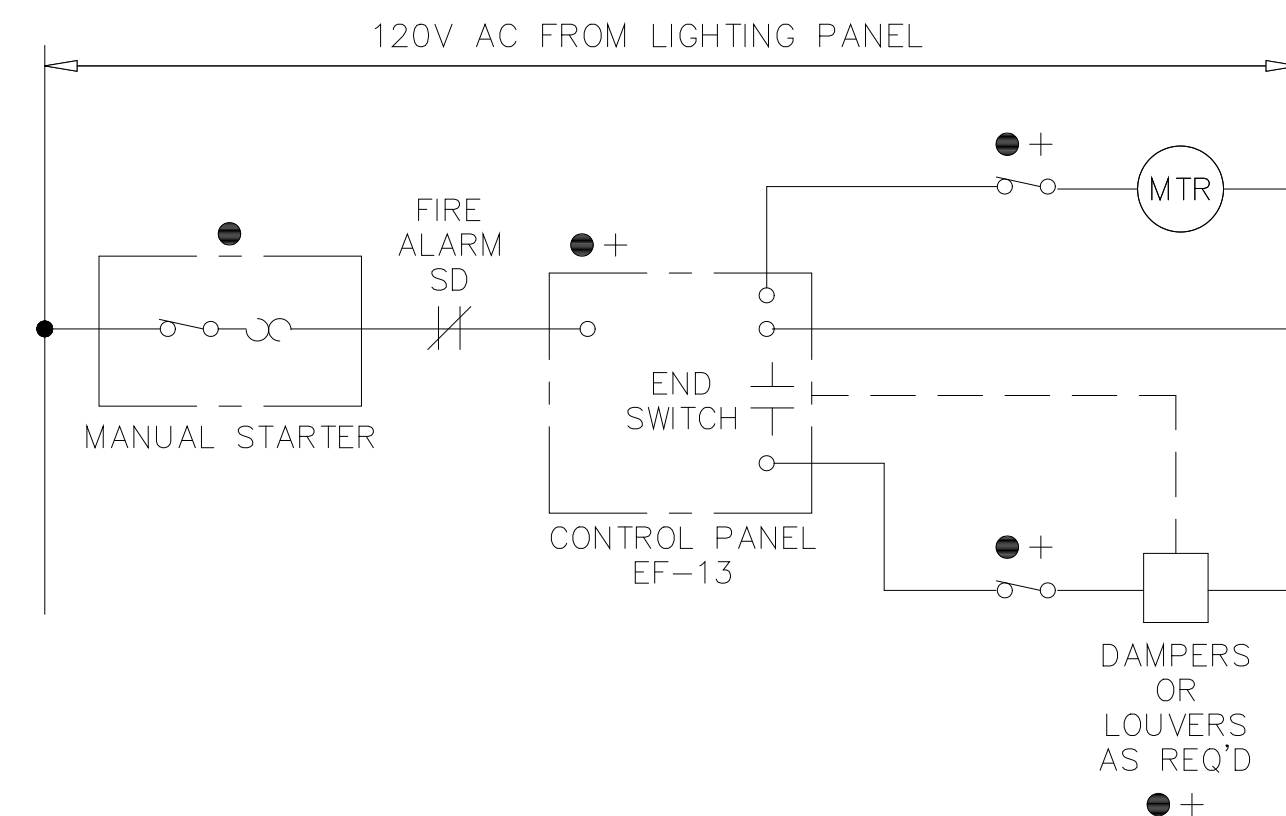
EWD-36

EXHAUST FAN EF-4, EF-15 & EF-16



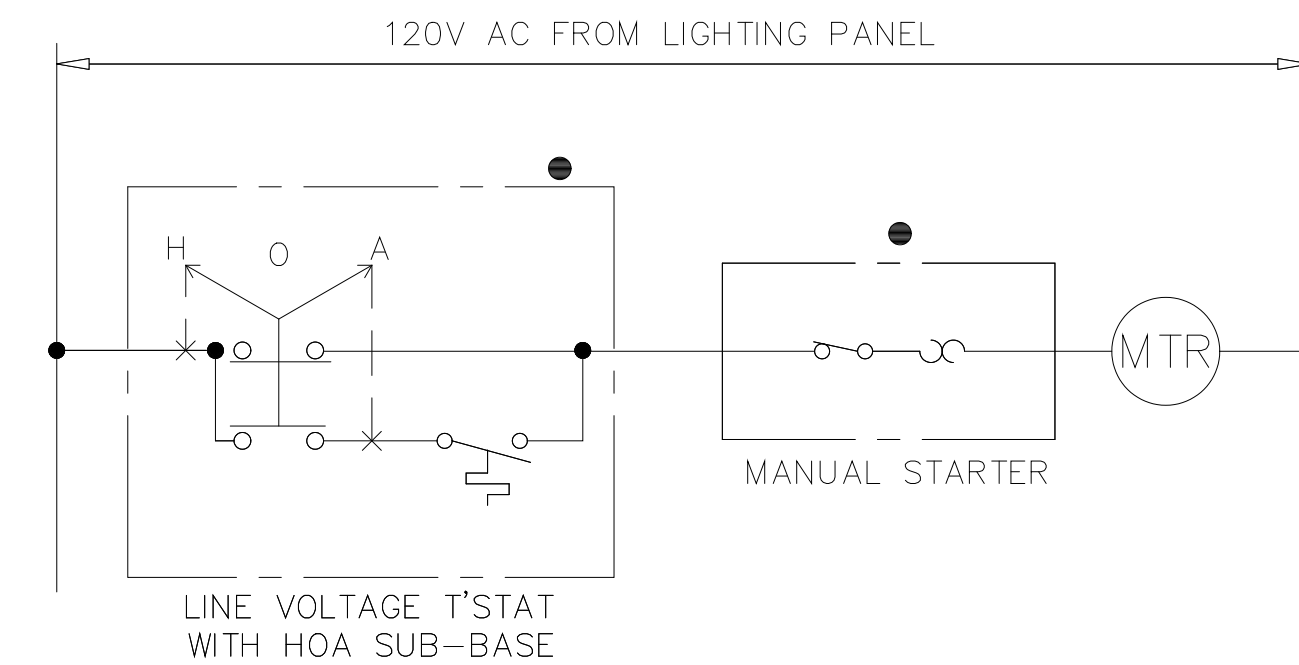
EWD-29

EF-13



EWD-31

UNIT HEATER UH-1 THROUGH UH-35*

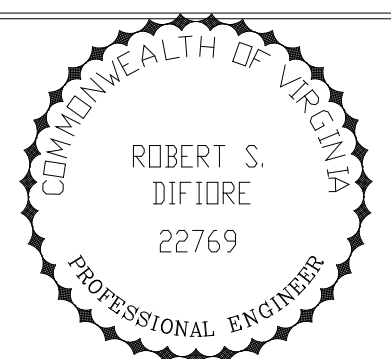


* UNIT HEATERS UH-2 & UH-6 NOT USED

EWD-33

PLOT DATE: 09/29/99 11:22am FILE: H:\3\MS\99c\hsp\1794\4257.dwg BY: MATS WDF FILE: H001

DESIGNED	CHN		
DRAWN	BRC		
CHECKED			
PROJ.ENGR.	AB/RNC		
NO.	DATE	BY	APPROVED
5	4-99	MKS	
4	4-96	RSD	
3	3-96	RSD	
2	9-94	JJB	
1	9-94	JJB	



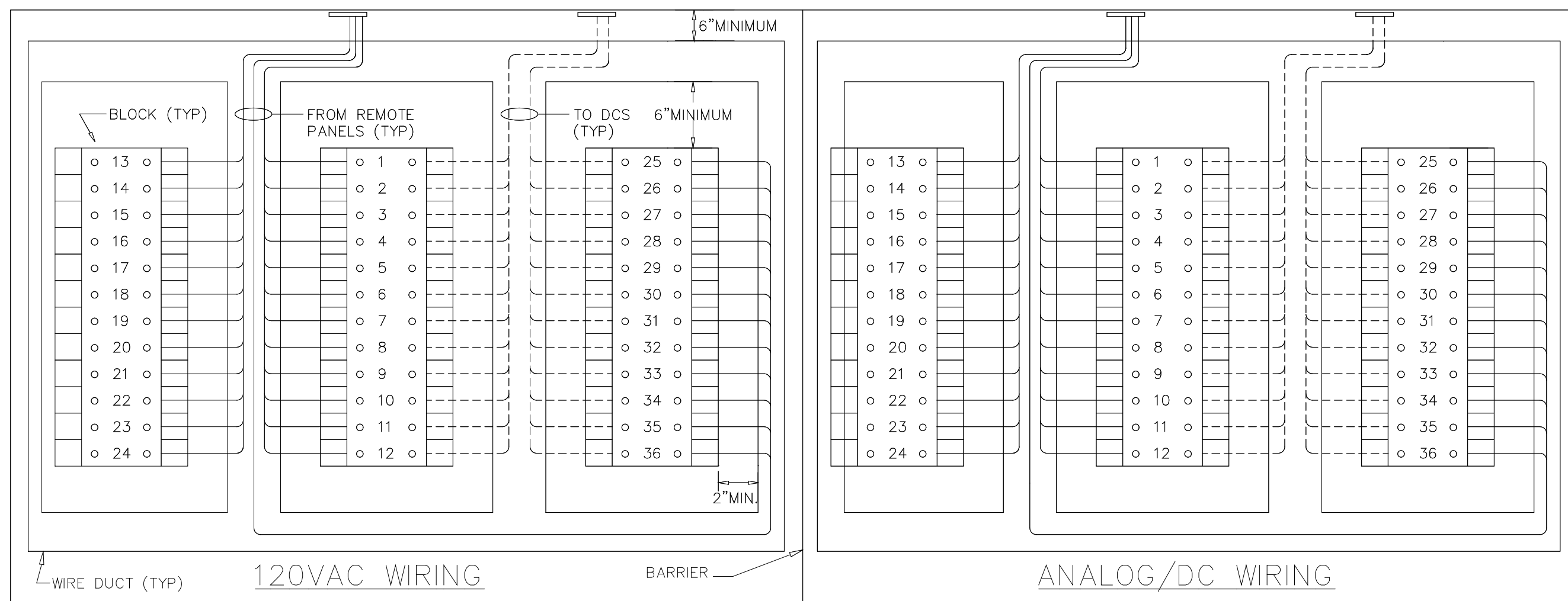
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
ELEMENTARY WIRING DIAGRAMS
SHEET 6

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-237
	SHEET	176 OF 199

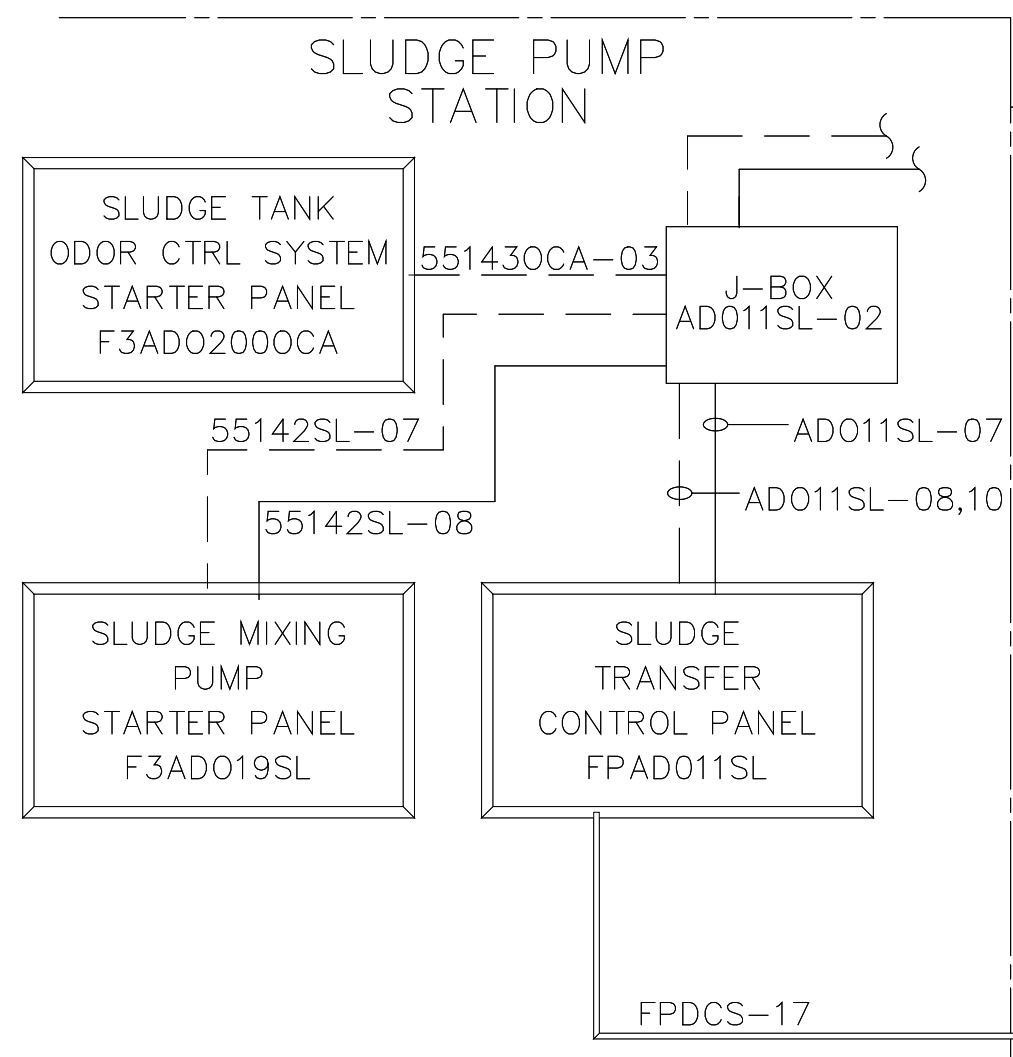
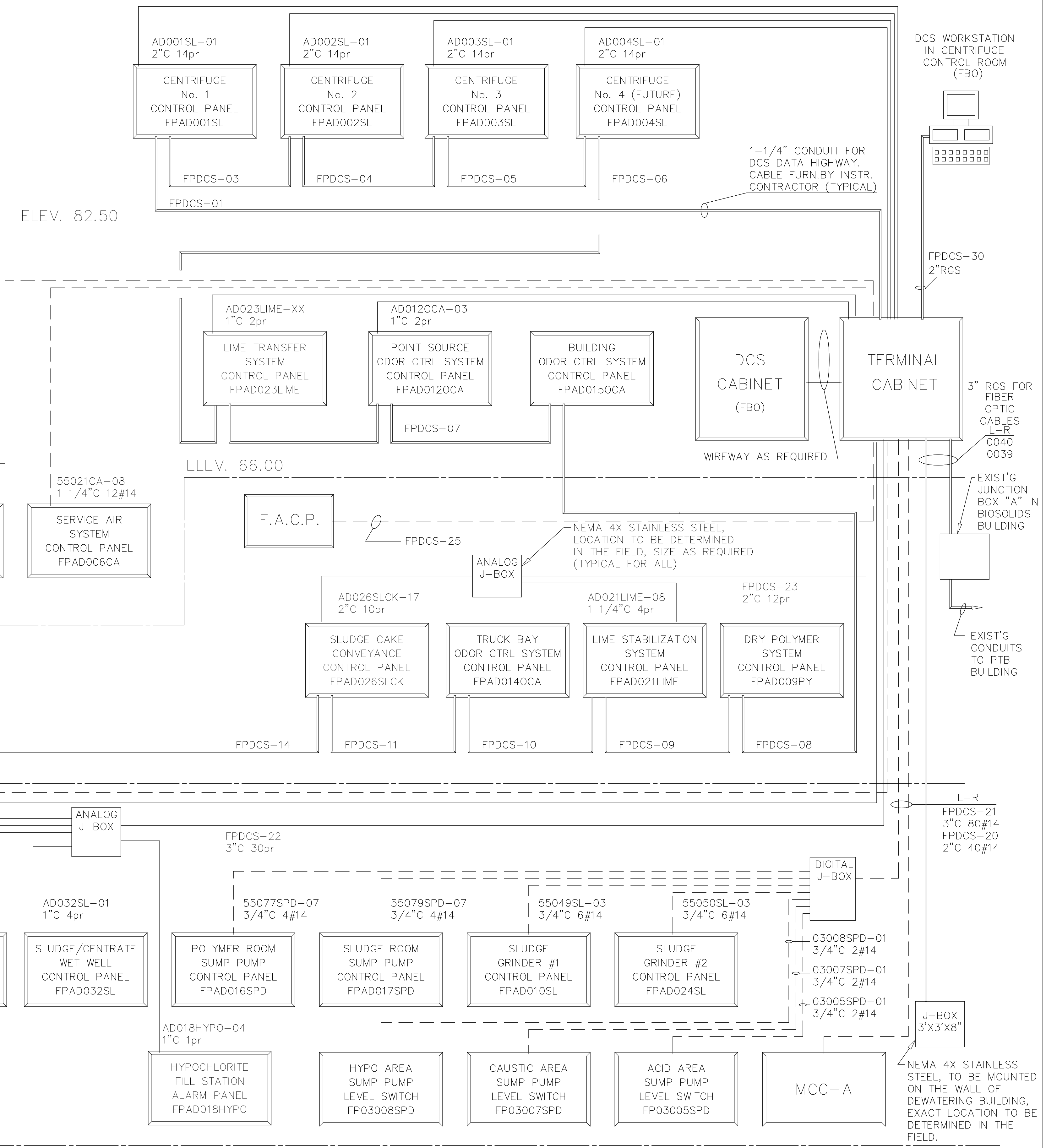
RECORD DRAWING



DCS TERMINAL CABINET (TYPICAL WIRING LAYOUT)
(SIZE AS REQUIRED)

NOTES:

1. WIRING SHOWN DOTTED SHALL BE INSTALLED/TERMINATED BY FISCHER/PORTER.
2. WIRING SHOWN SOLID SHALL BE INSTALLED/TERMINATED UNDER THIS CONTRACT.
3. TERMINAL BLOCKS SHALL BE "HIGH DENSITY" BLOCK WITH TUBULAR SCREW TYPE PRESSURE PLATES, ALLEN-BRADLEY TYPE 1492-HC6 OR EQUAL. THE NUMBER OF TERMINATION POINTS SHALL BE EQUAL TO THE NUMBER OF INCOMING WIRES FROM REMOTE PANELS PLUS 25% SPARES.
4. TERMINAL CABINET SHALL BE #14 GAUGE STEEL WITH TWO OR ONE DOOR, CONTINUOUS HINGE, LOCKABLE HANDLE, SUBPANEL TERMINAL BLOCK MOUNTING PANEL, DOOR AND BODY STIFFENER, FINISH SHALL BE ANSI GRAY POLYESTER POWDER COATING INSIDE AND OUT OVER PHOSPHATIZED SURFACE. PLYWOOD PANEL FINISH SHALL BE WHITE ENAMEL. TERMINAL CABINET SHALL BE NEMA 1. ALL APPLICABLE SECTIONS OF SPECIFICATIONS SHALL APPLY.
5. TERMINAL CABINET SHALL BE WALL MOUNTED.



--- DISCREET (HARD WIRED) SIGNALS
 - - - ANALOG (HARD WIRED) SIGNALS
 = = = DATA HIGHWAY (COMMUNICATION) (DAISY CHAIN CONFIGURATION)

RECORD DRAWING

DESIGNED	CHN
DRAWN	BRC
CHECKED	
PROJ. ENGR.	AB/RNC
APPROVED	

ROBERT S. DIFIDRE
22769

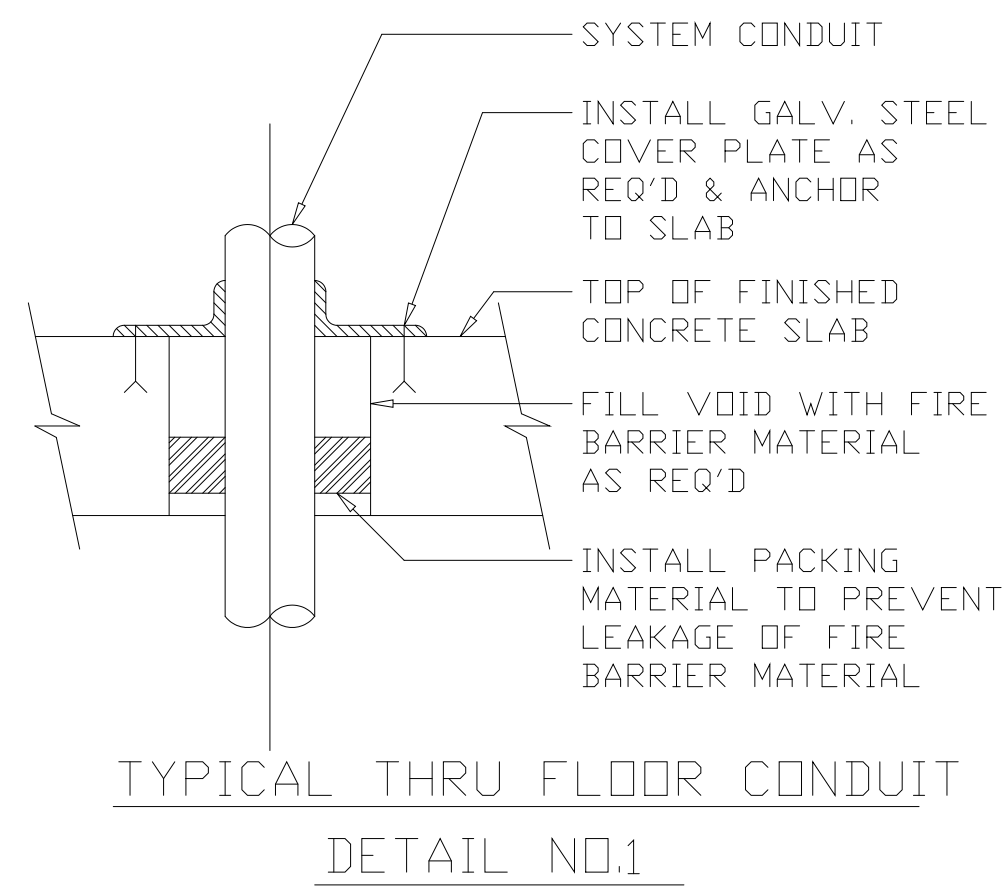
GERALD J. RATASKY
026535

HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA VIENNA, VA

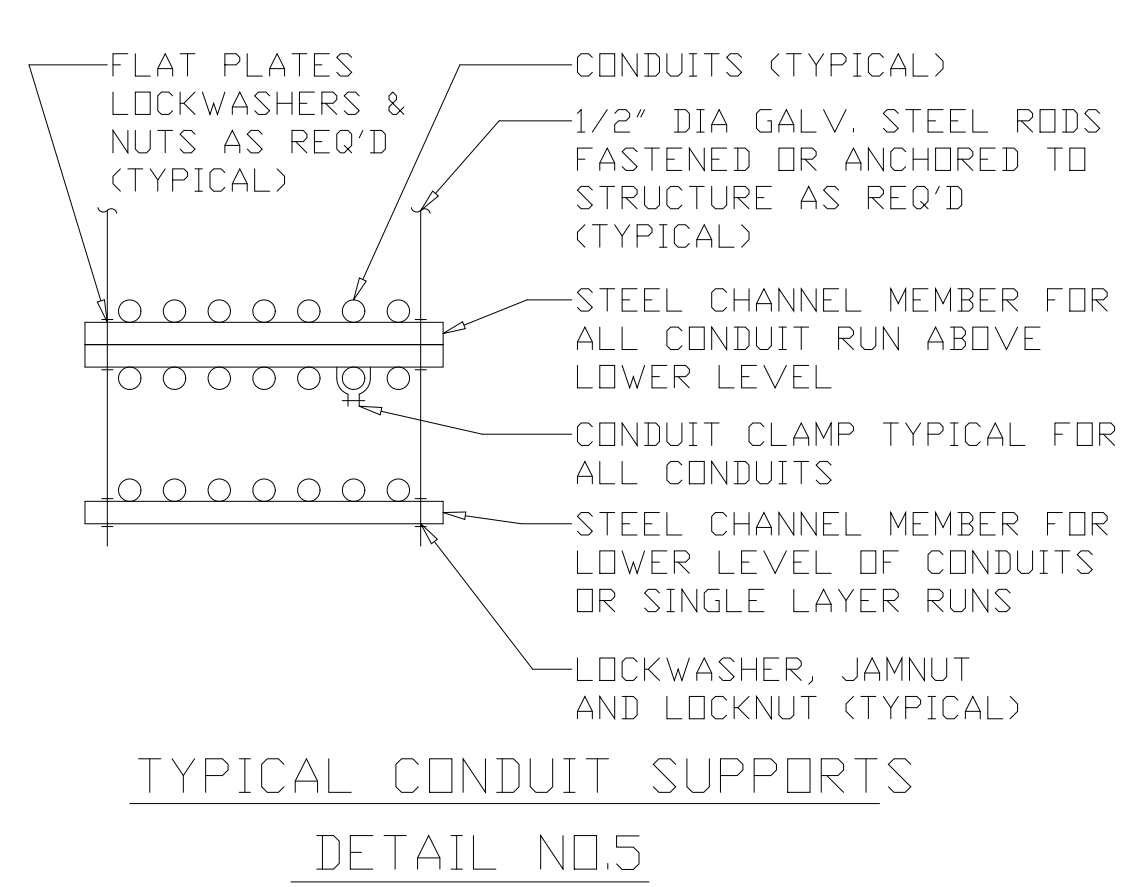
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
RISER DIAGRAM
DISTRIBUTED CONTROL SYSTEM

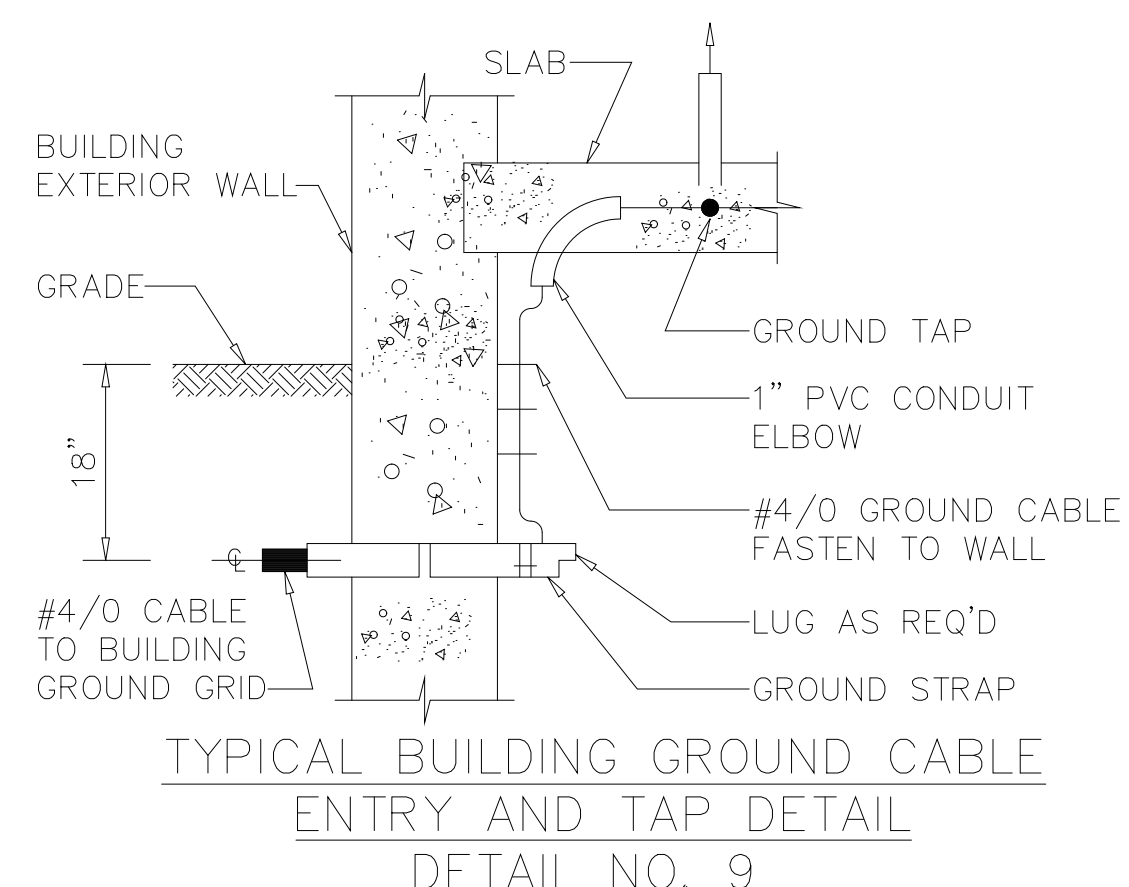
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	E-238
	SHEET	177 OF 199



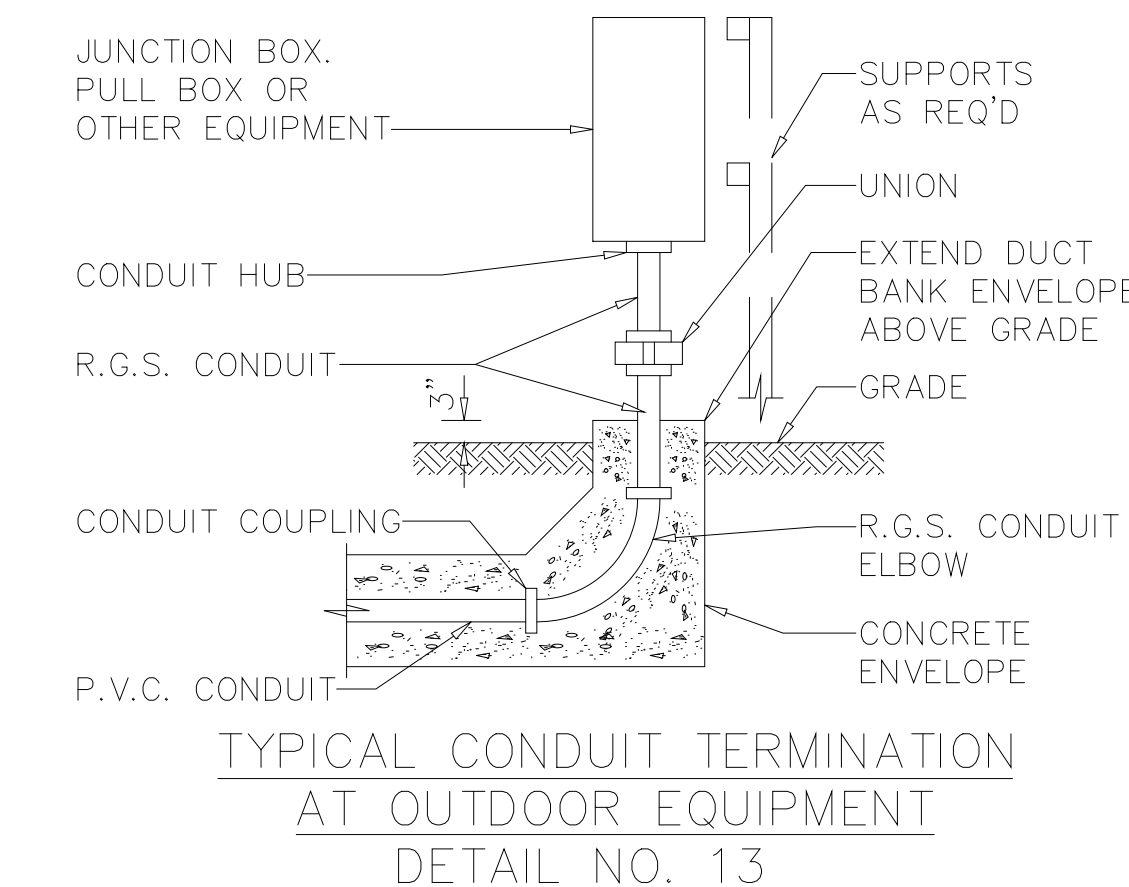
TYPICAL THRU FLOOR CONDUIT
DETAIL NO.1



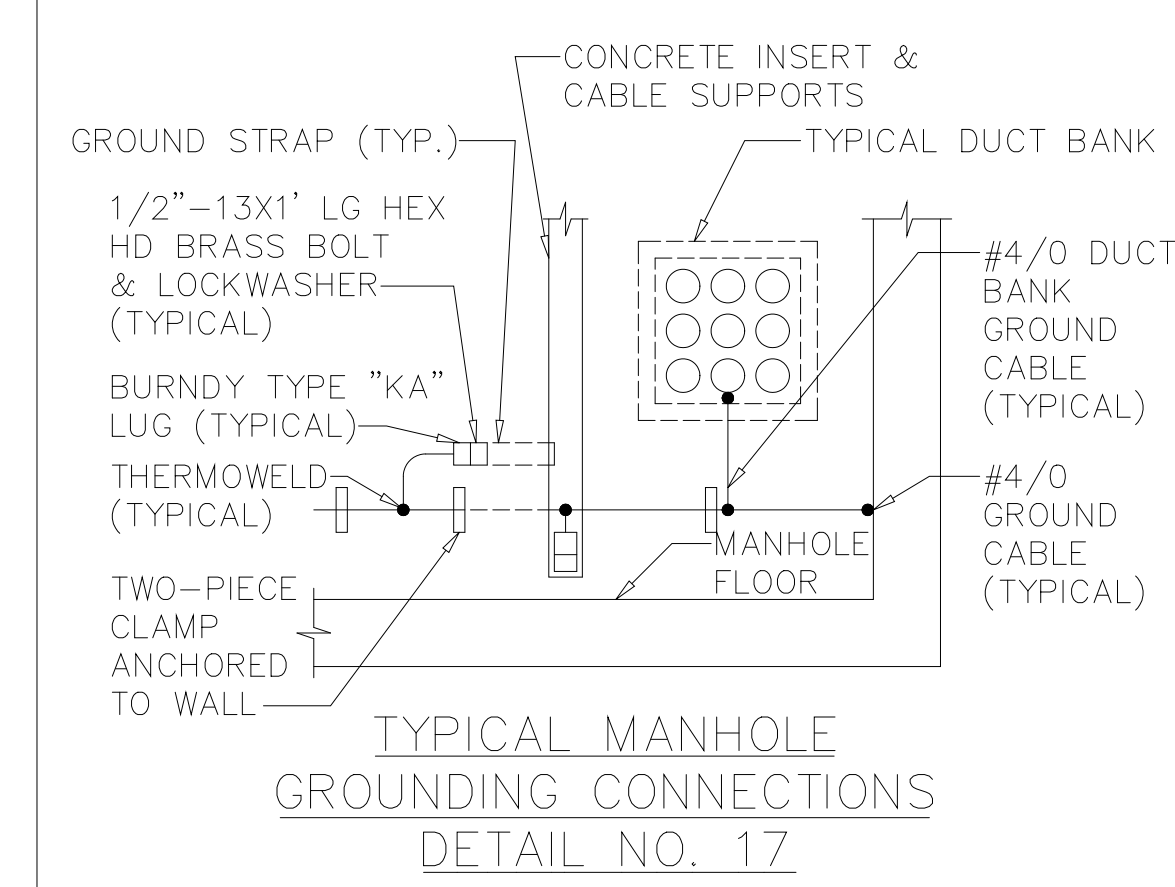
TYPICAL CONDUIT SUPPORTS
DETAIL NO.5



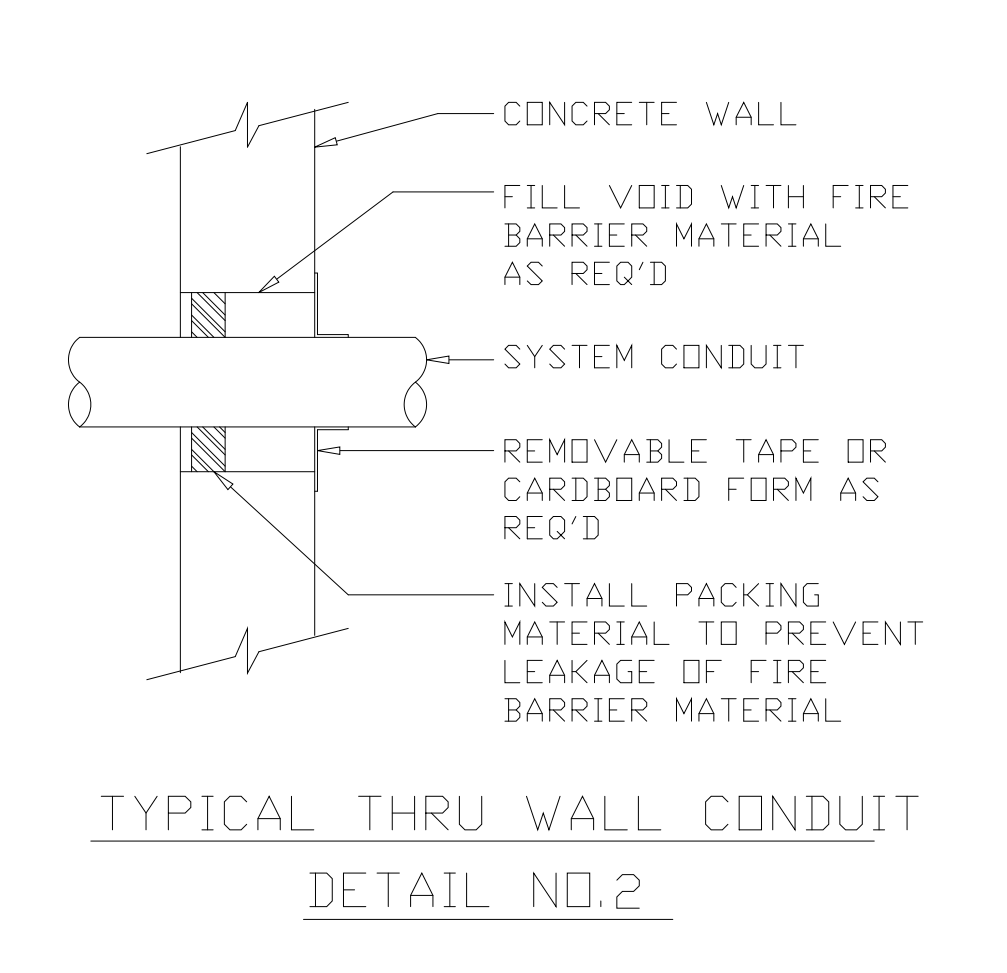
TYPICAL BUILDING GROUND CABLE
ENTRY AND TAP DETAIL
DETAIL NO. 9



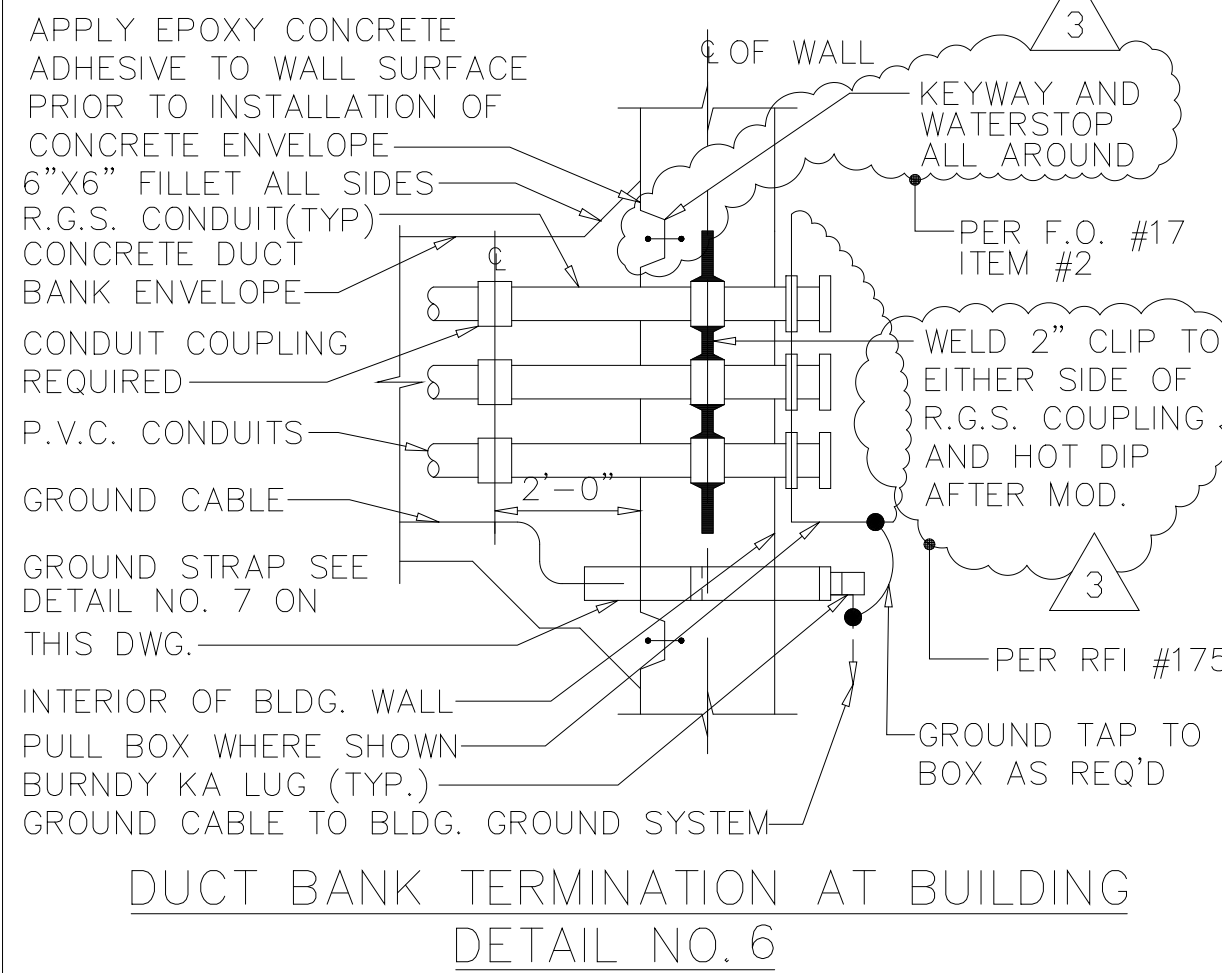
TYPICAL CONDUIT TERMINATION
AT OUTDOOR EQUIPMENT
DETAIL NO. 13



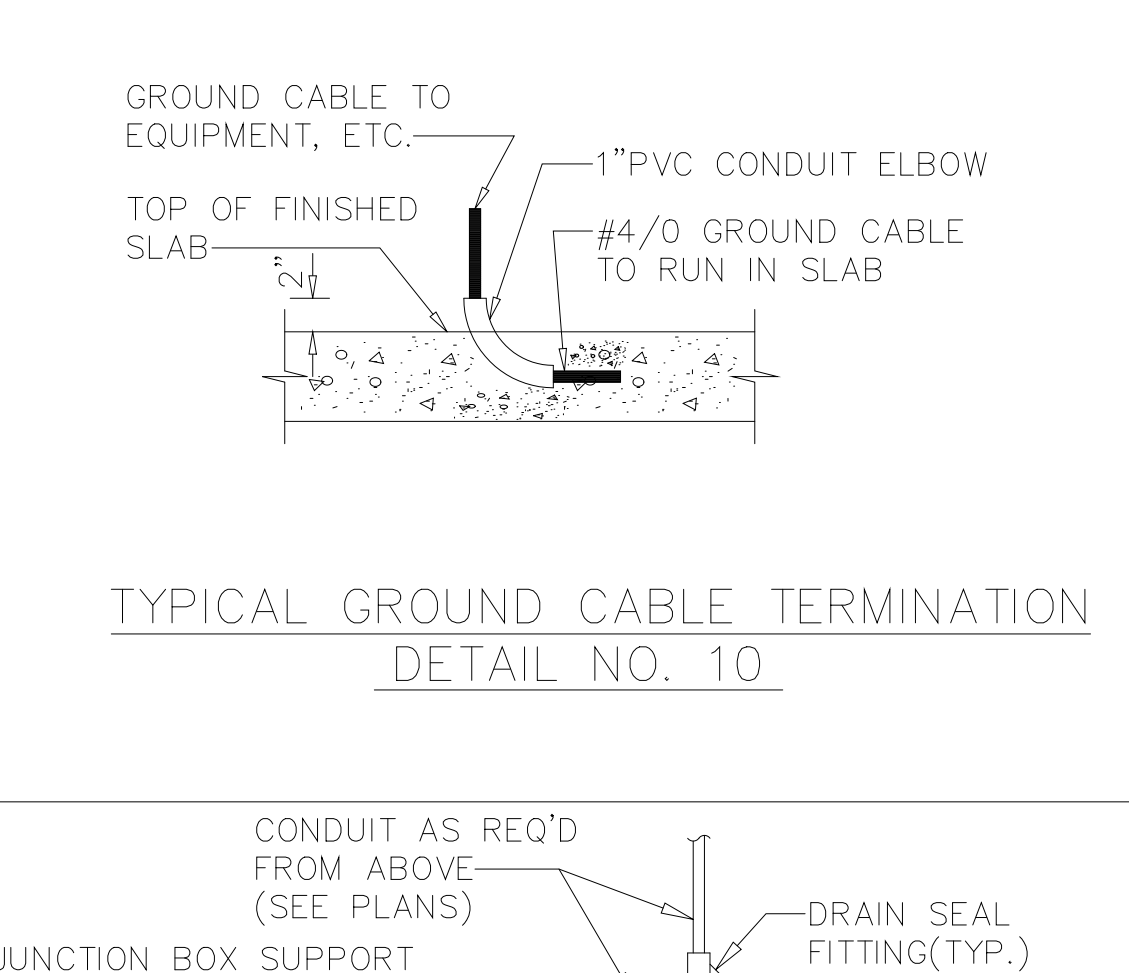
TYPICAL MANHOLE
GROUNDING CONNECTIONS
DETAIL NO. 17



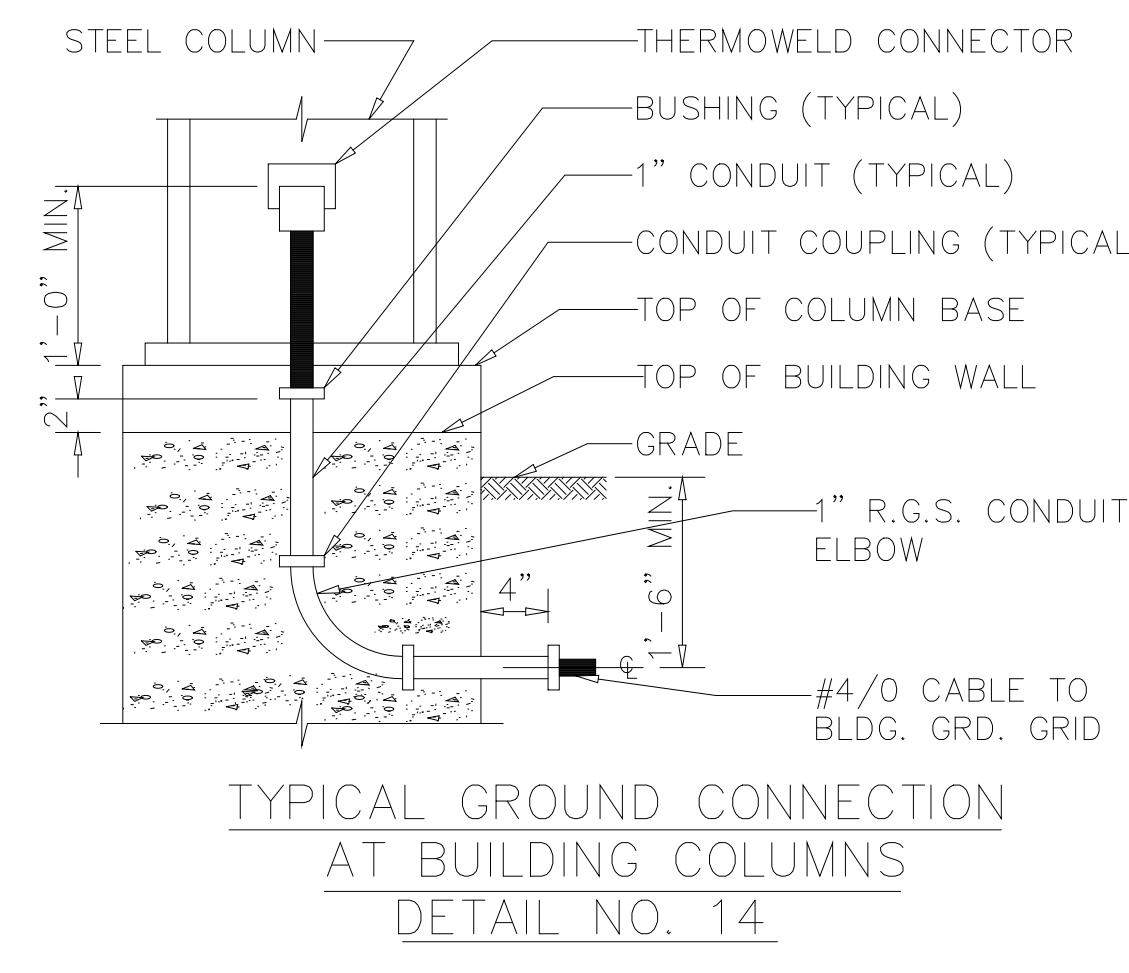
TYPICAL THRU WALL CONDUIT
DETAIL NO.2



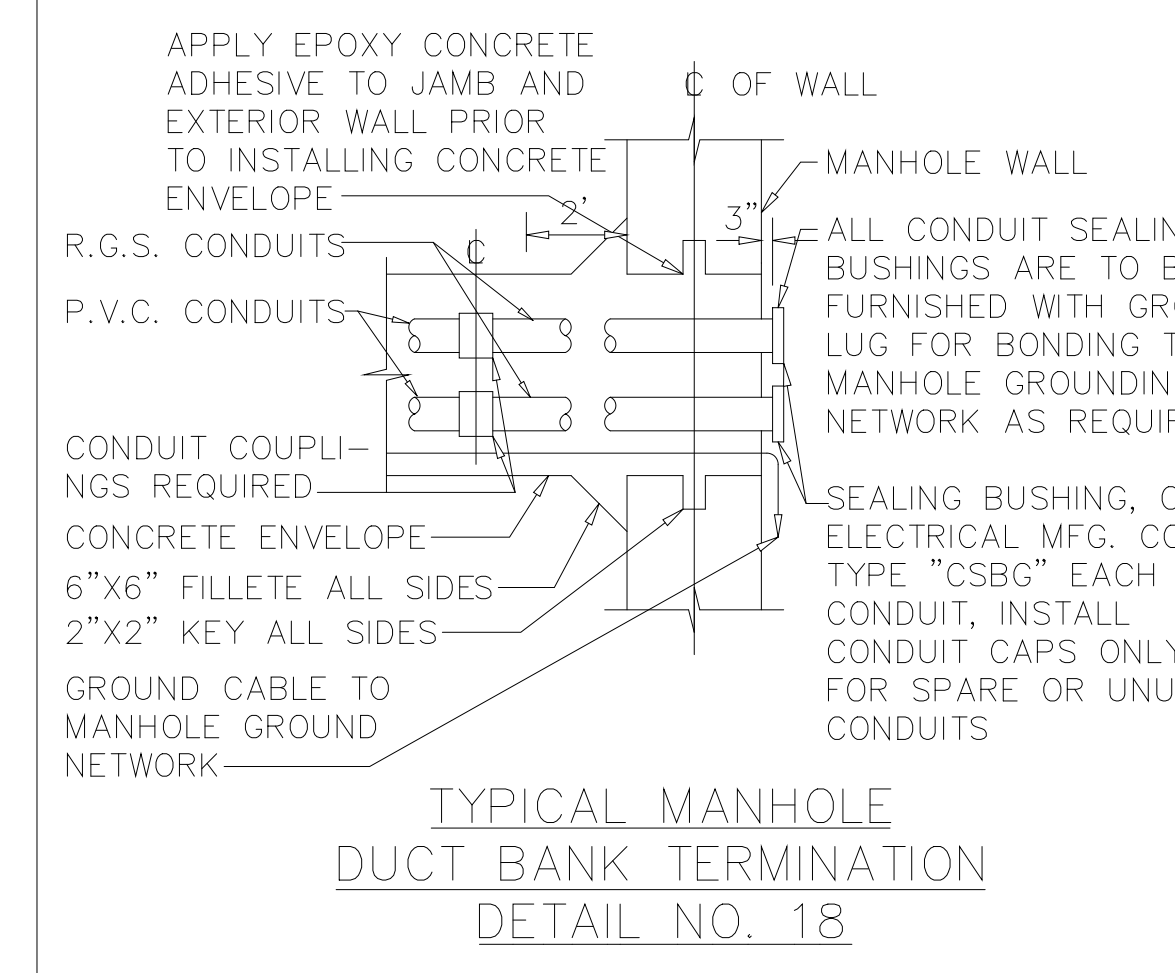
DUCT BANK TERMINATION AT BUILDING
DETAIL NO. 6



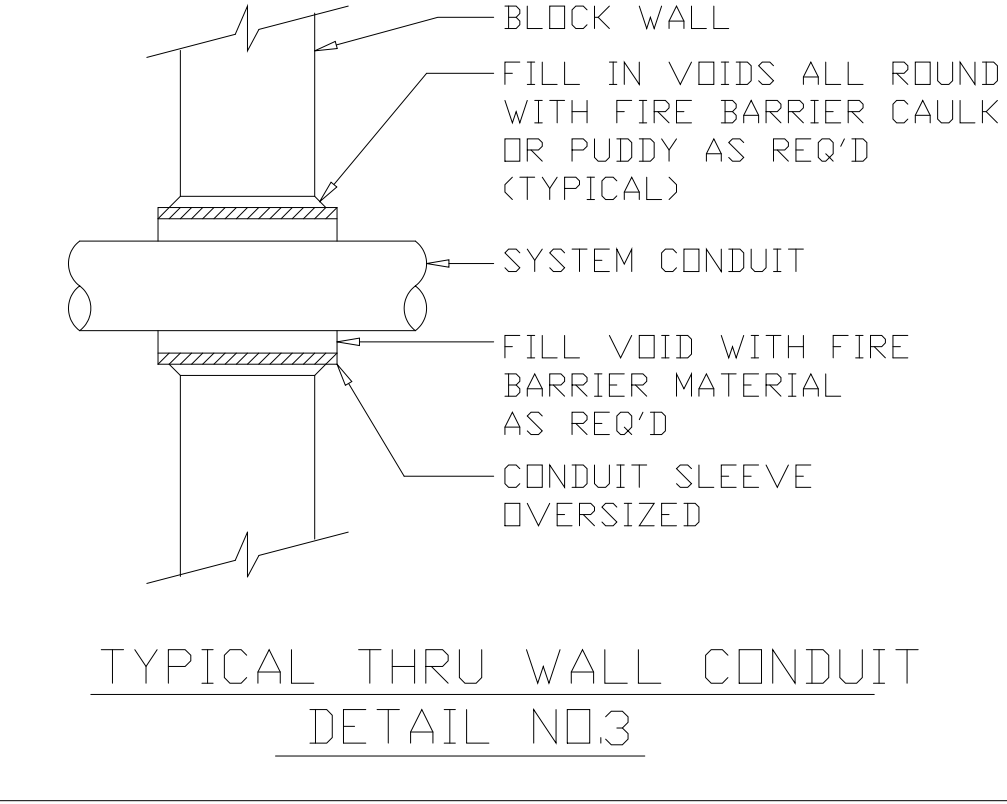
TYPICAL GROUND CABLE TERMINATION
DETAIL NO. 10



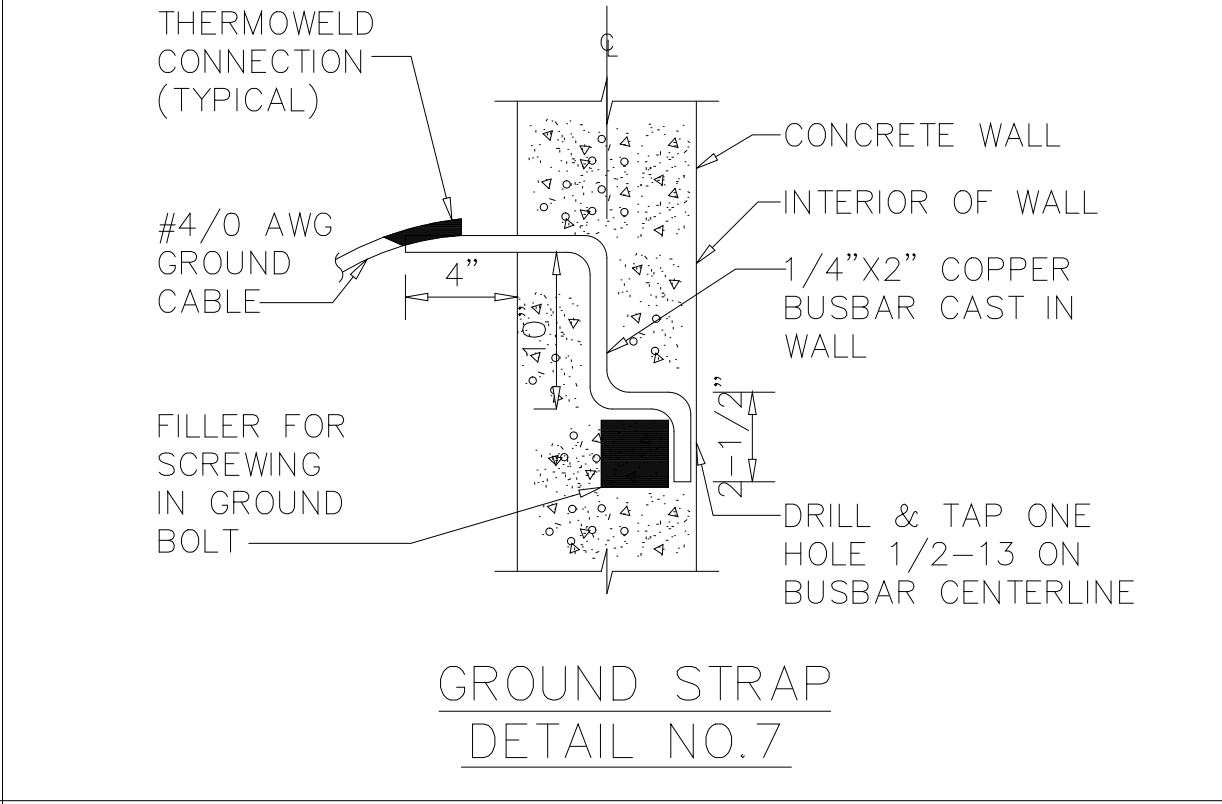
TYPICAL GROUND CONNECTION
AT BUILDING COLUMNS
DETAIL NO. 14



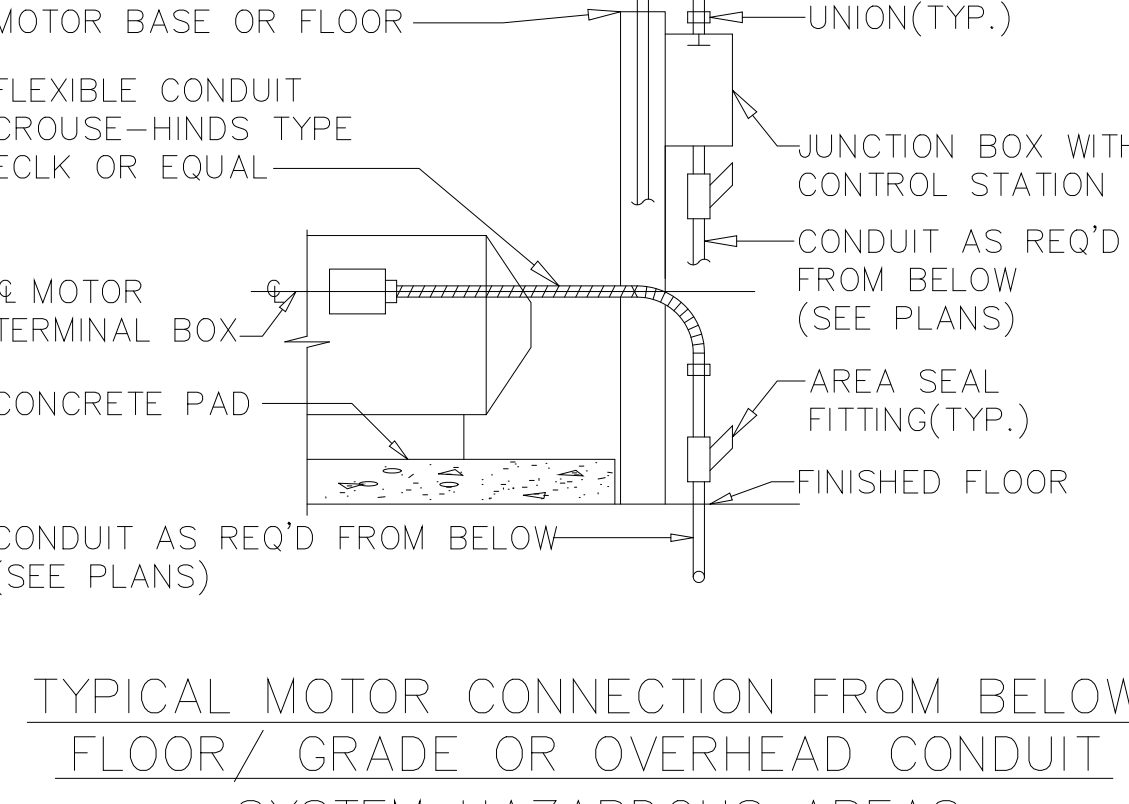
TYPICAL MANHOLE
DUCT BANK TERMINATION
DETAIL NO. 18



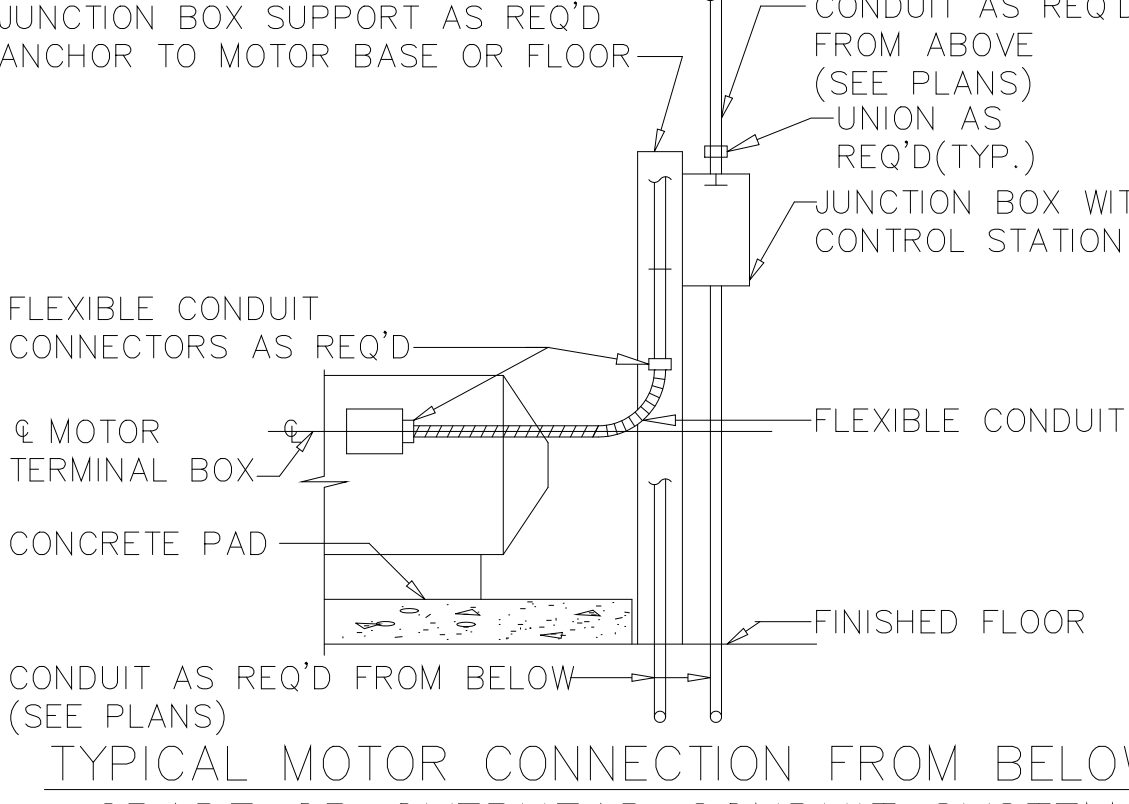
TYPICAL THRU WALL CONDUIT
DETAIL NO.3



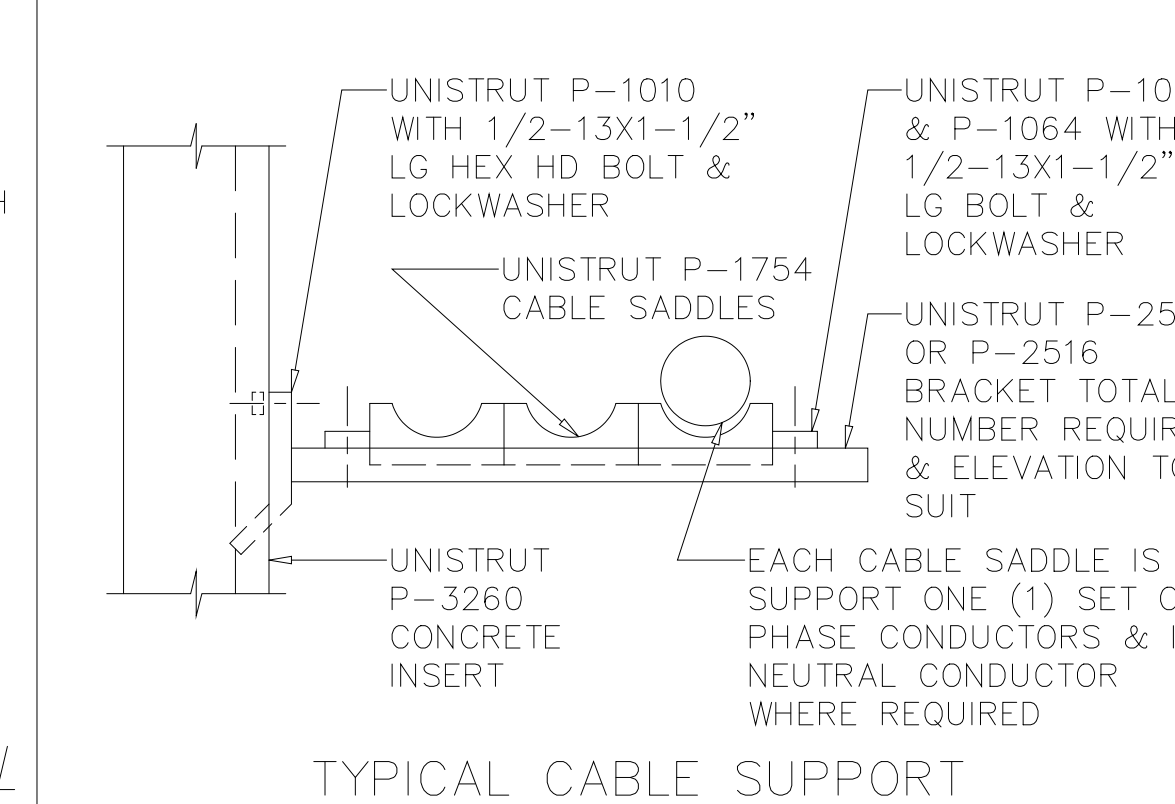
GROUND STRAP
DETAIL NO.7



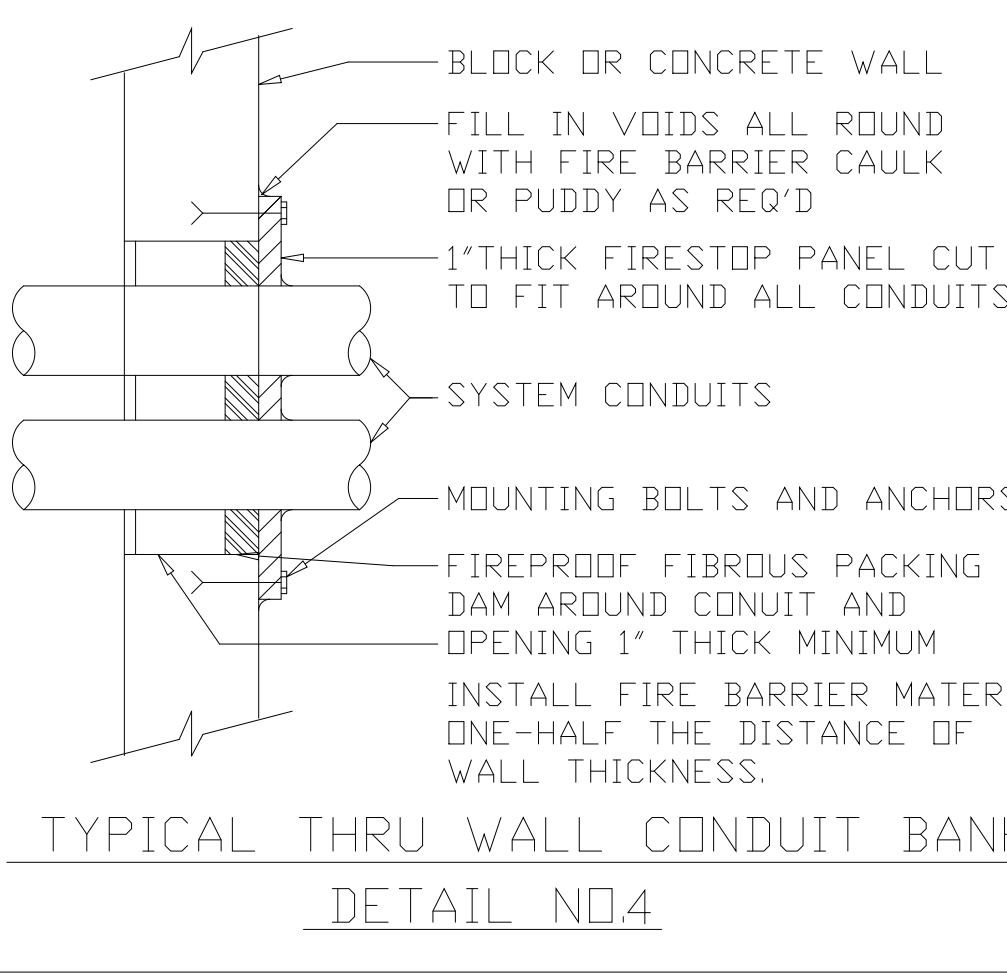
TYPICAL MOTOR CONNECTION FROM BELOW
FLOOR/ GRADE OR OVERHEAD CONDUIT
SYSTEM HAZARDOUS AREAS
DETAIL NO. 11



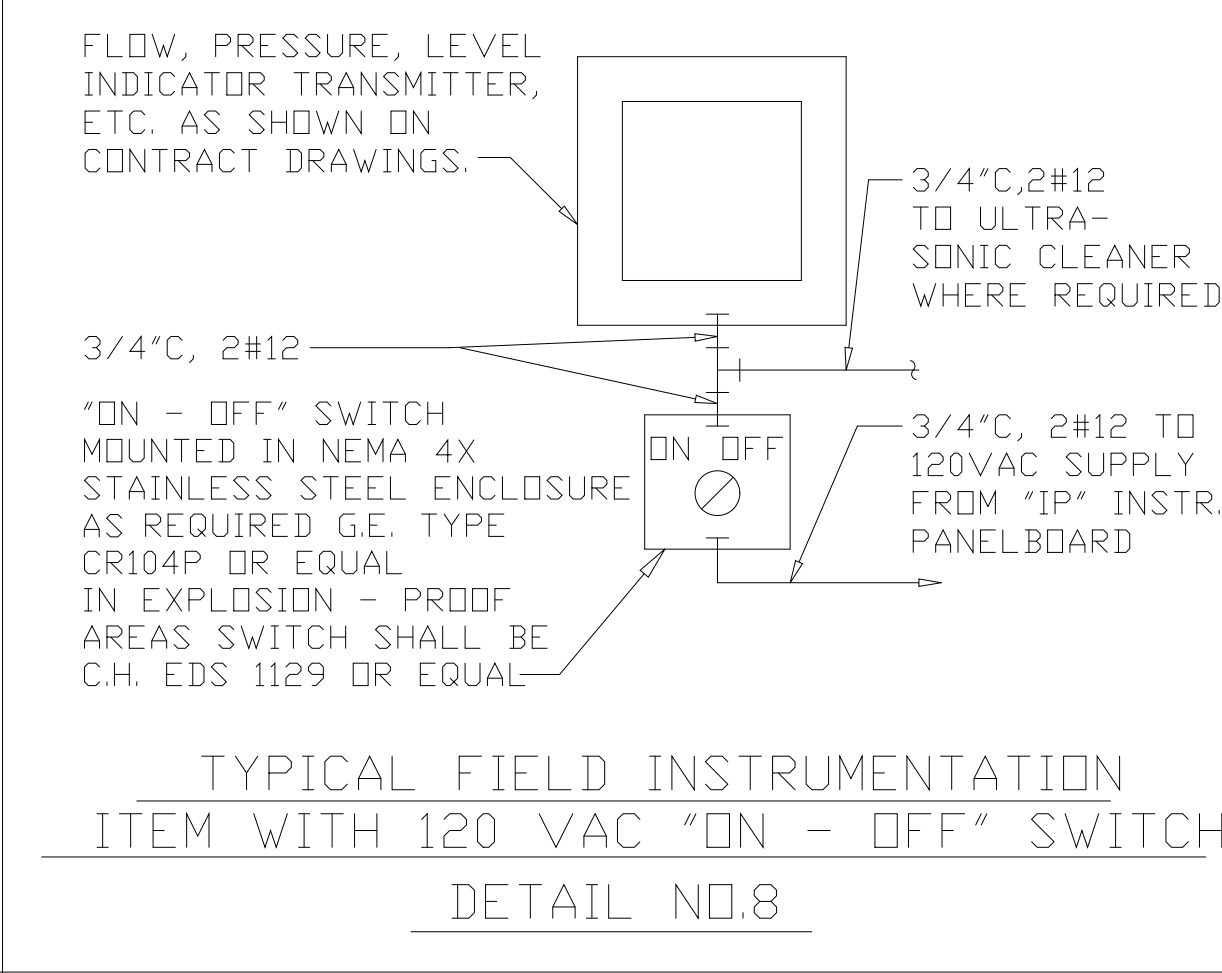
TYPICAL MOTOR CONNECTION FROM BELOW
GRADE OR OVERHEAD CONDUIT SYSTEM
DETAIL NO. 15



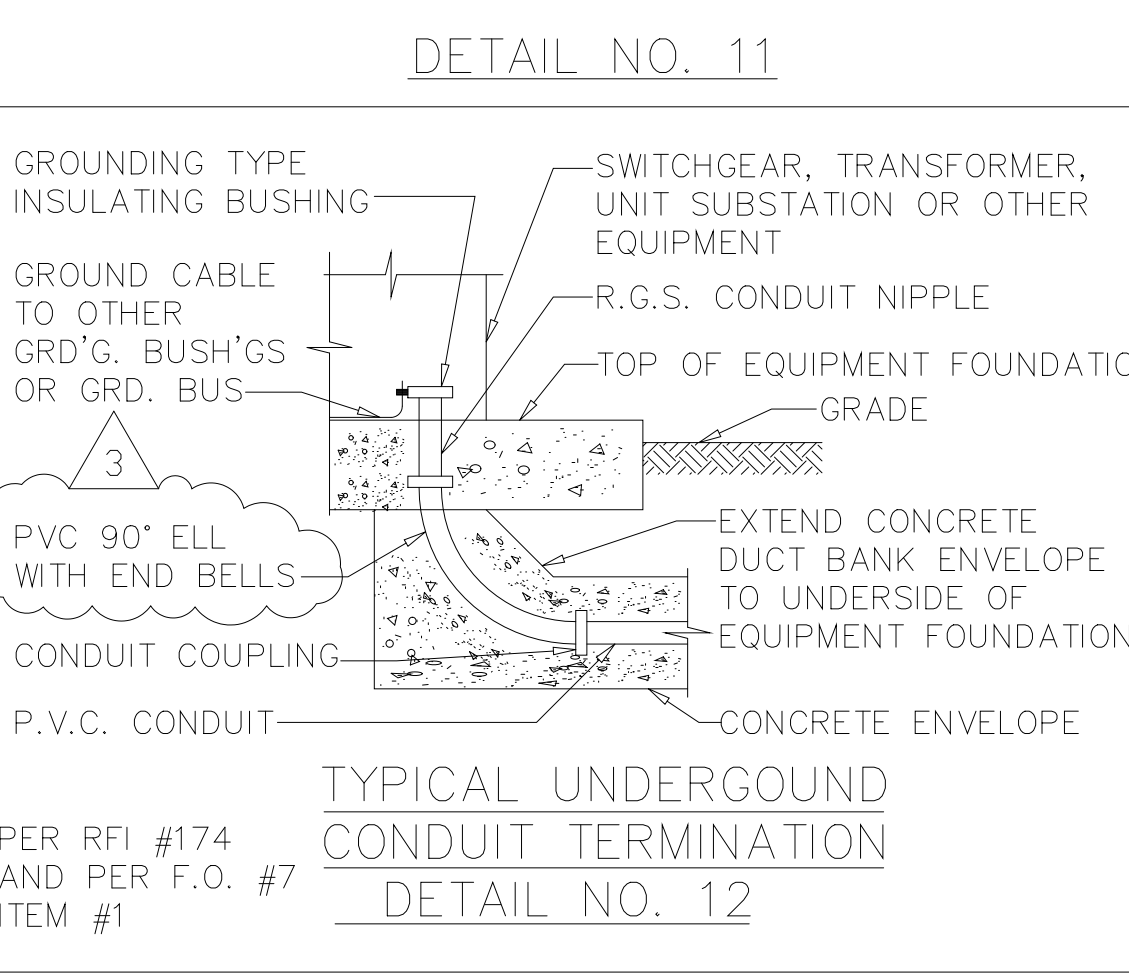
TYPICAL CABLE SUPPORT
DETAIL NO. 19



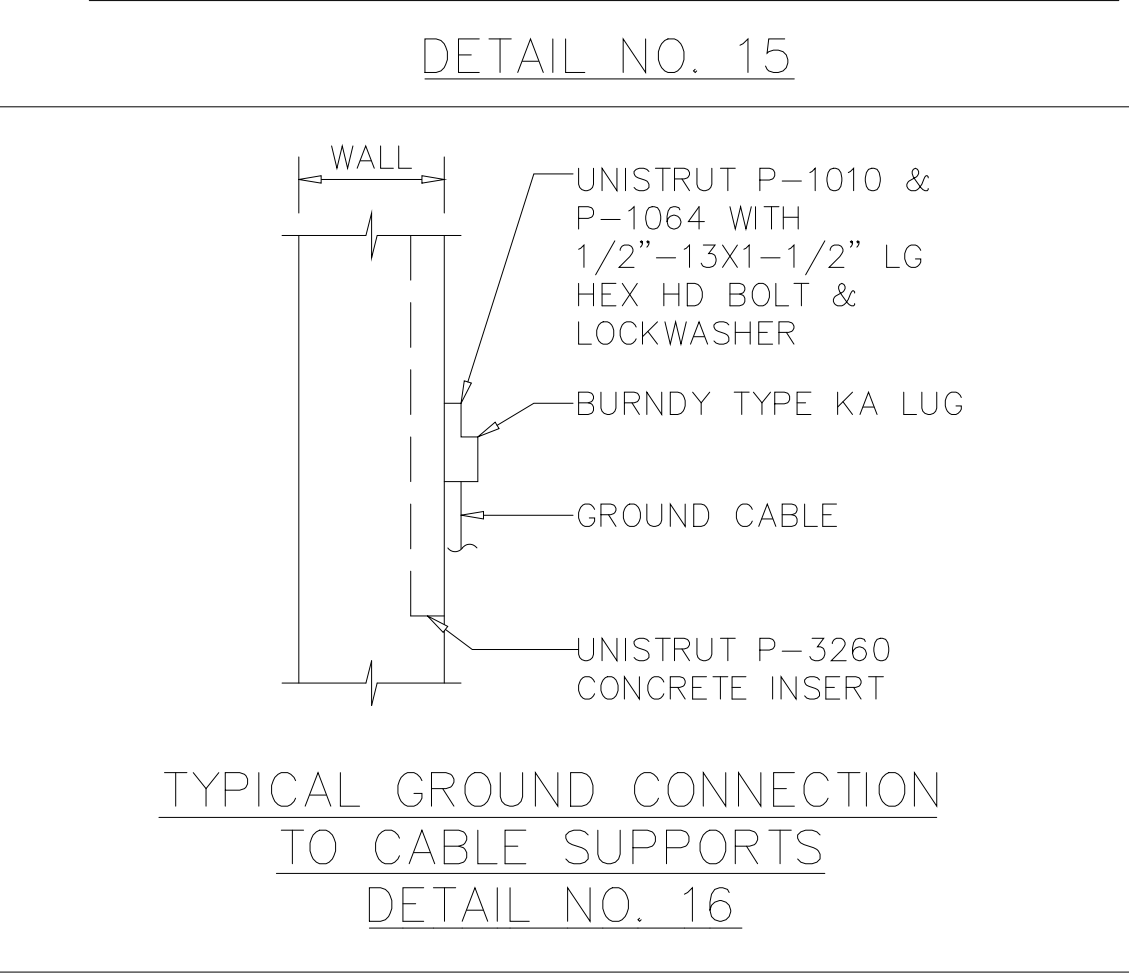
TYPICAL THRU WALL CONDUIT BANK
DETAIL NO.4



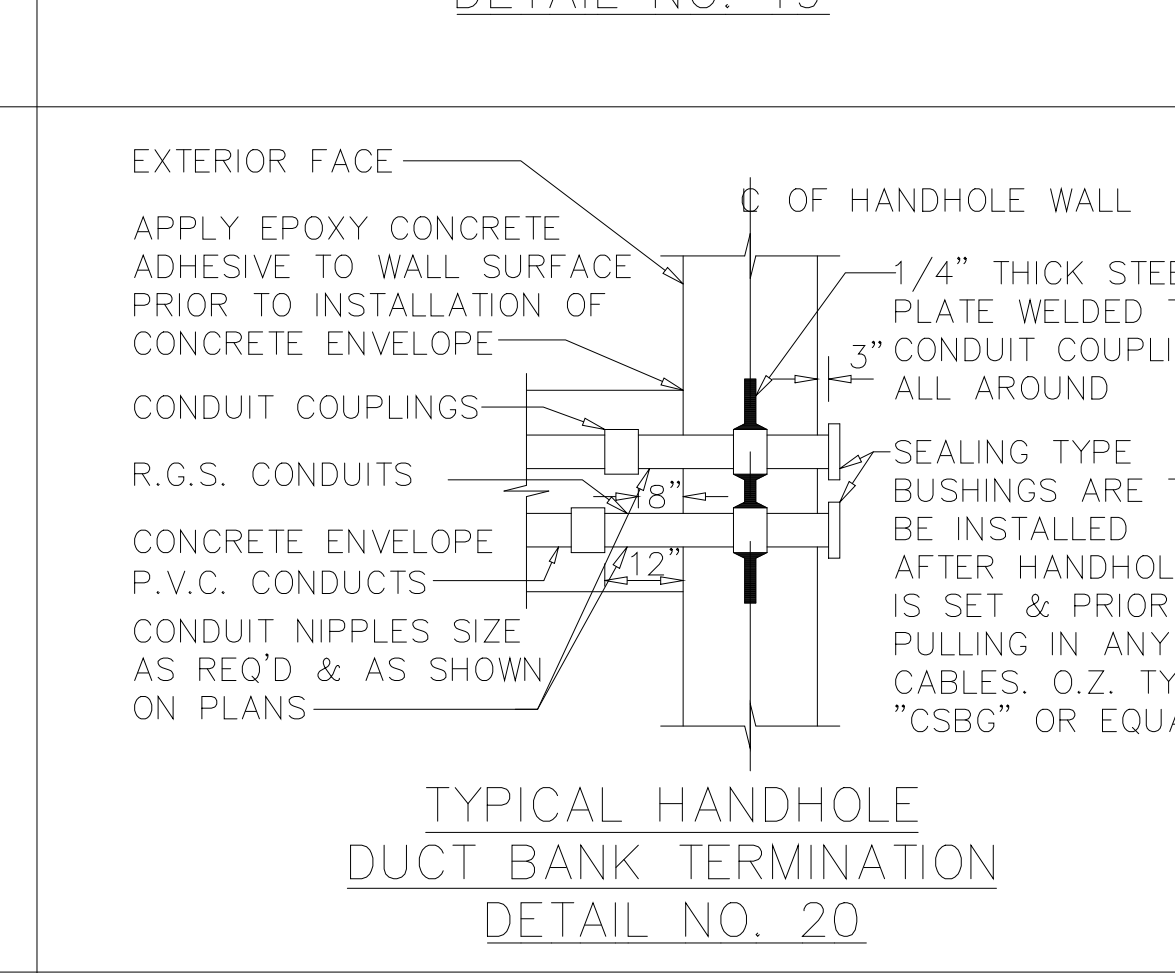
TYPICAL FIELD INSTRUMENTATION
ITEM WITH 120 VAC "ON - OFF" SWITCH
DETAIL NO.8



TYPICAL UNDERGROUND
CONDUIT TERMINATION
DETAIL NO. 12



TYPICAL GROUND CONNECTION
TO CABLE SUPPORTS
DETAIL NO. 16



TYPICAL HANDHOLE
DUCT BANK TERMINATION
DETAIL NO. 20

PLOT DATE: 04/17/00 9:04am FILE: H:\0001\000001\1701-12-2000.DWG BY: MATS

DESIGNED	EC
DRAWN	EW
CHECKED	EC
PROJ.ENGR.	WG
	J.J.B.
	J.J.B.
NO.	APPROVED

3	RECORD DRAWING	4-99	MKS
2	CONSTRUCTION	9-94	J.J.B.
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.
	ISSUED FOR	DATE	BY

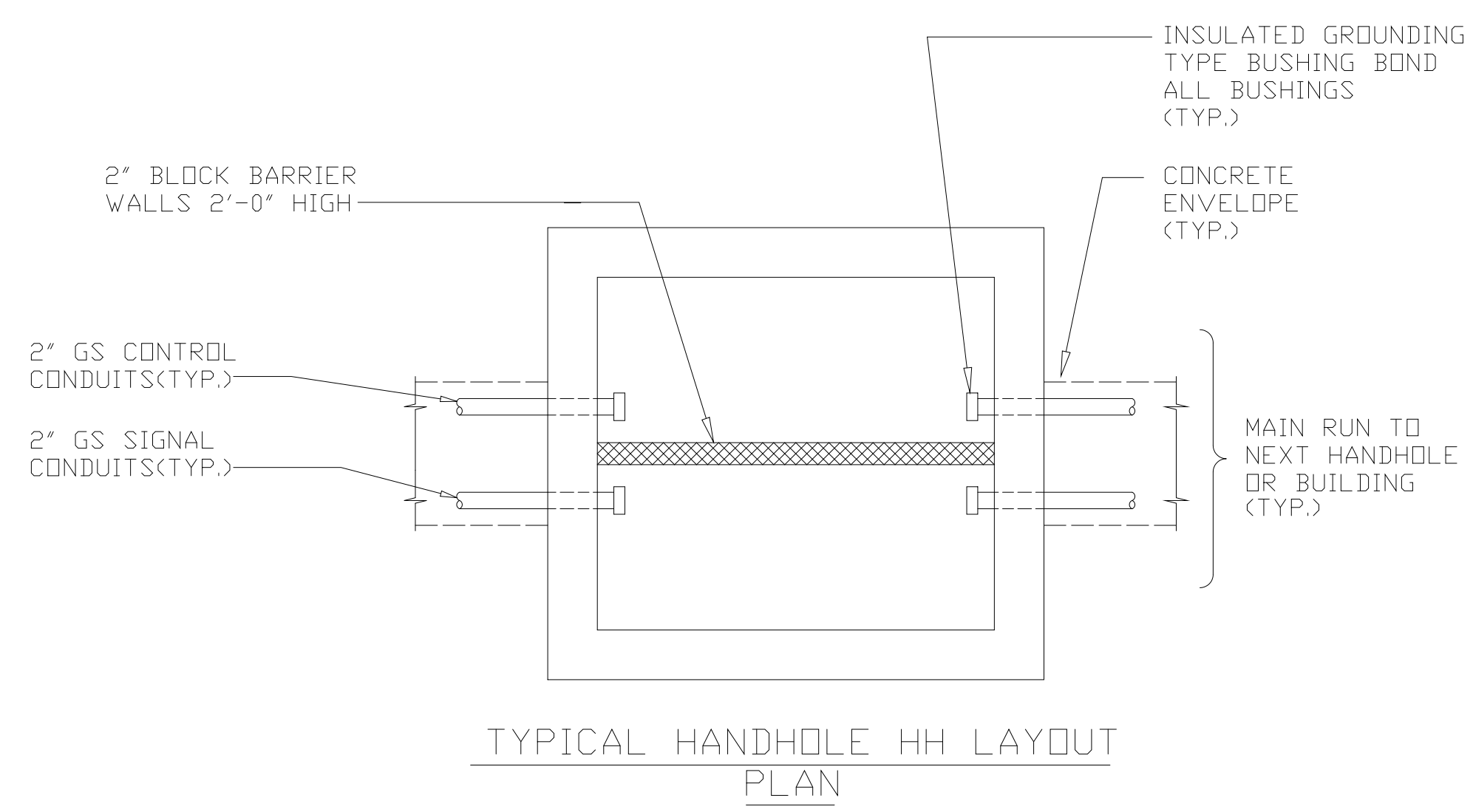
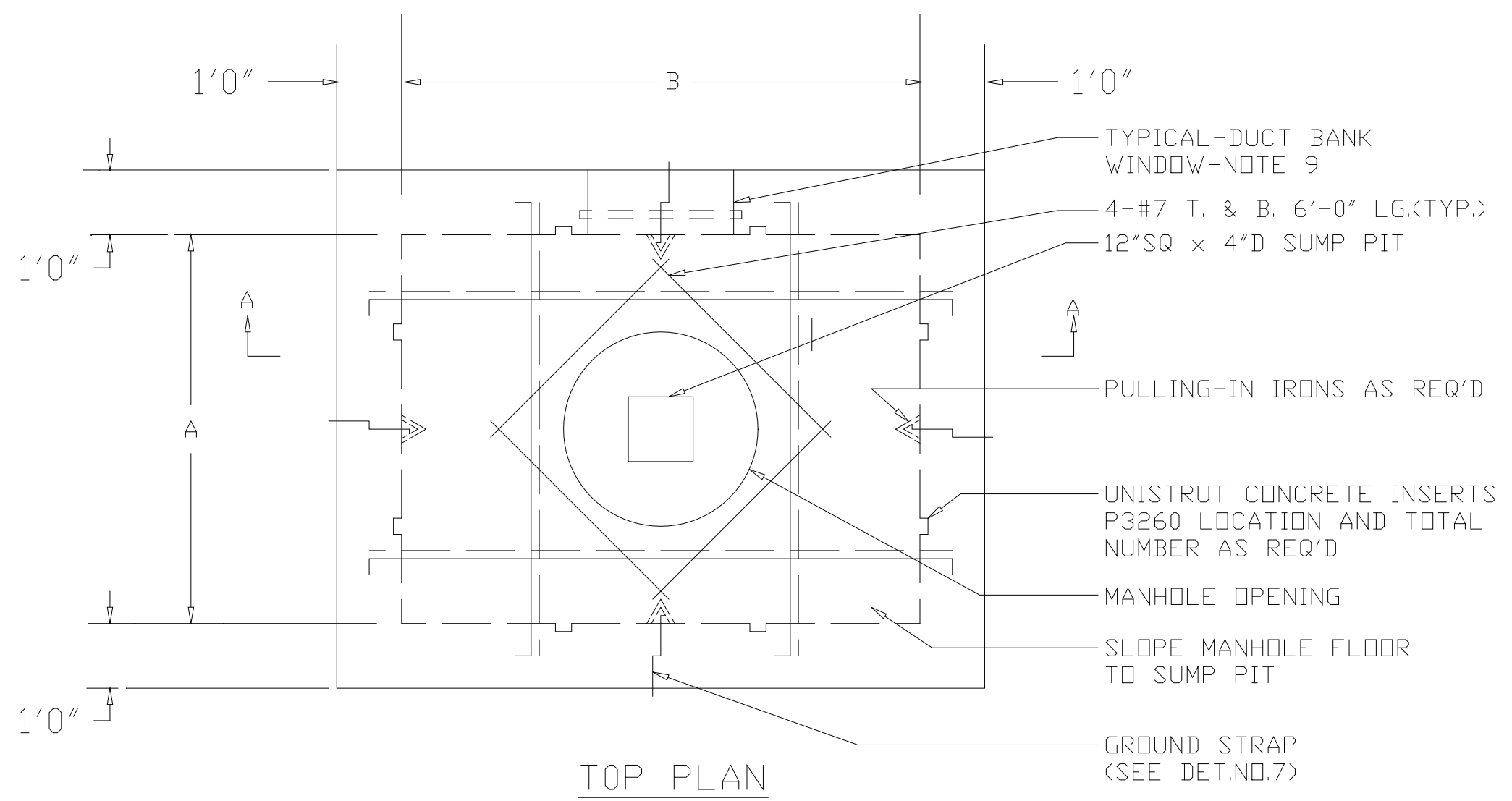
HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

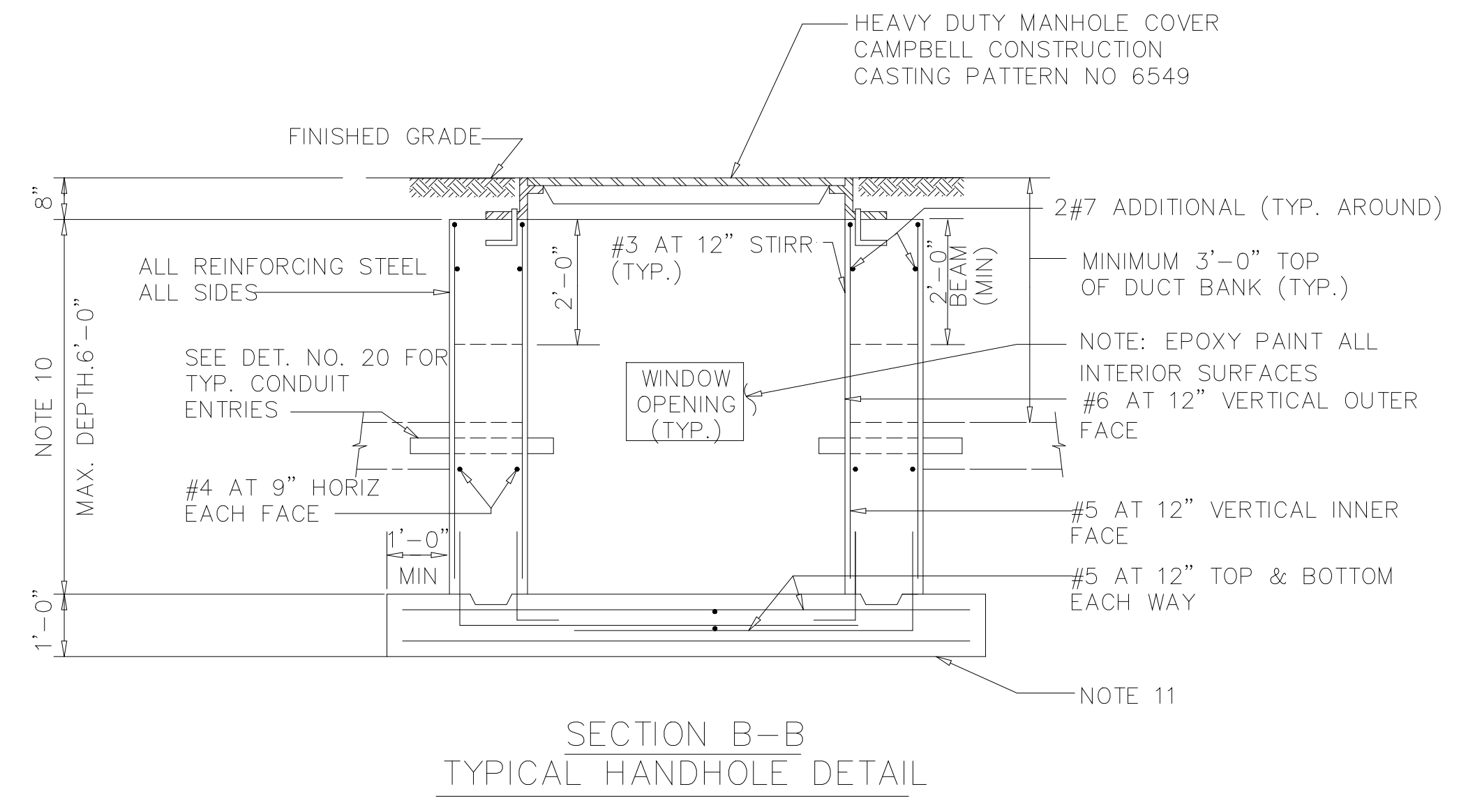
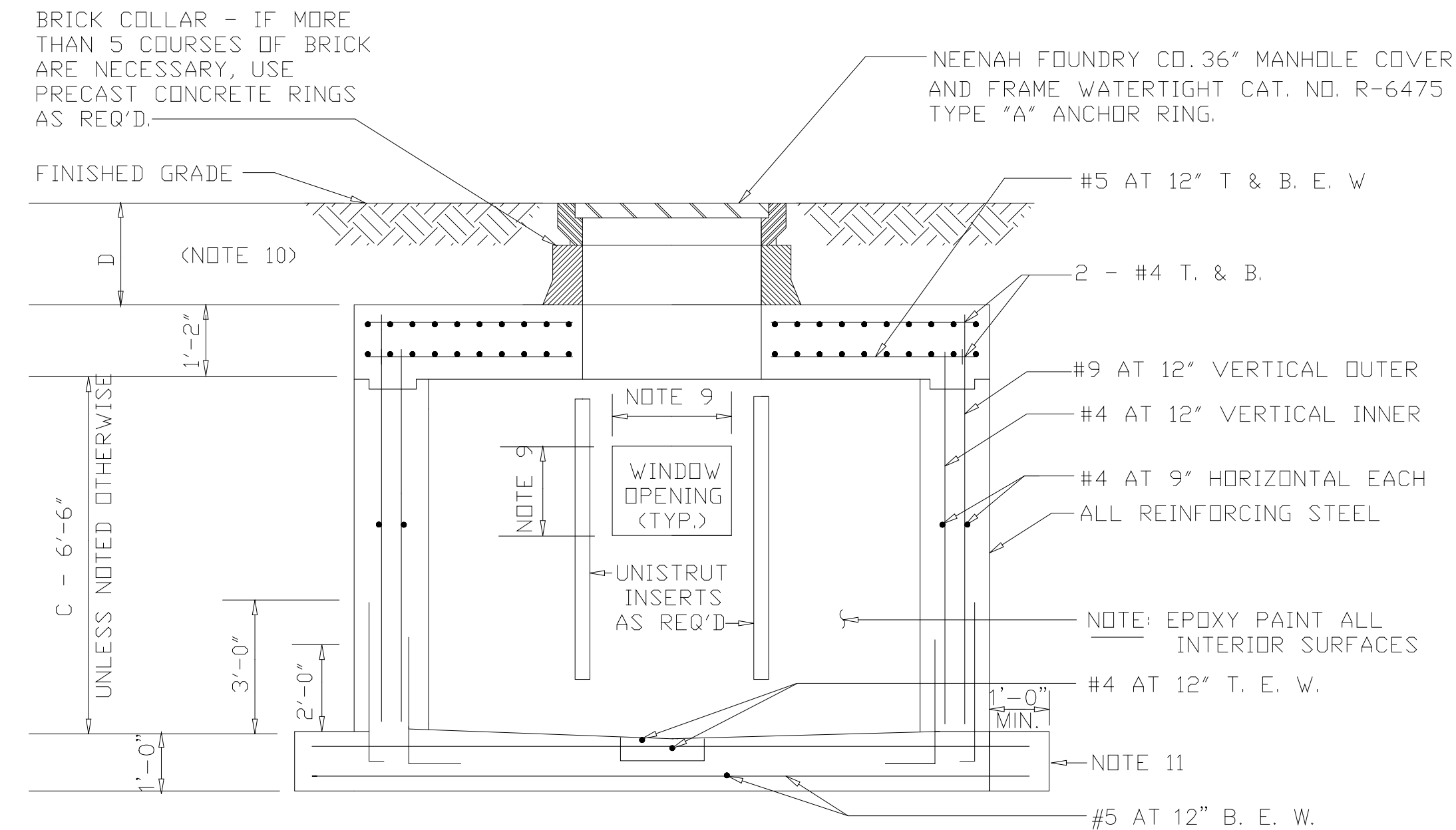
CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
MISCELLANEOUS DETAILS
SHEET 1

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER E239
	SHEET 178 OF 199

RECORD DRAWING

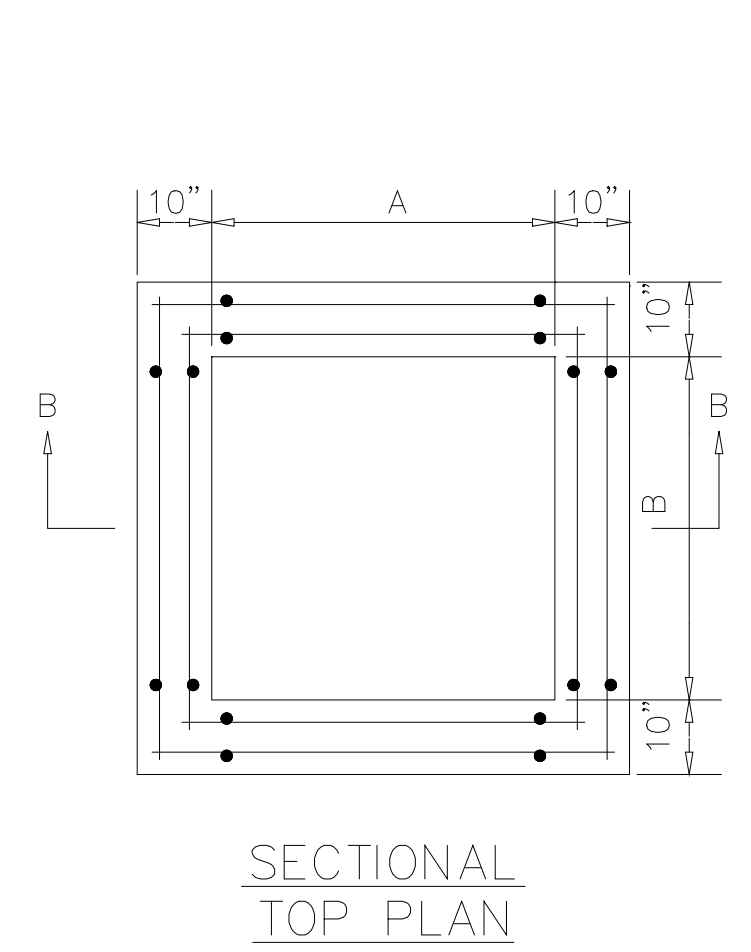
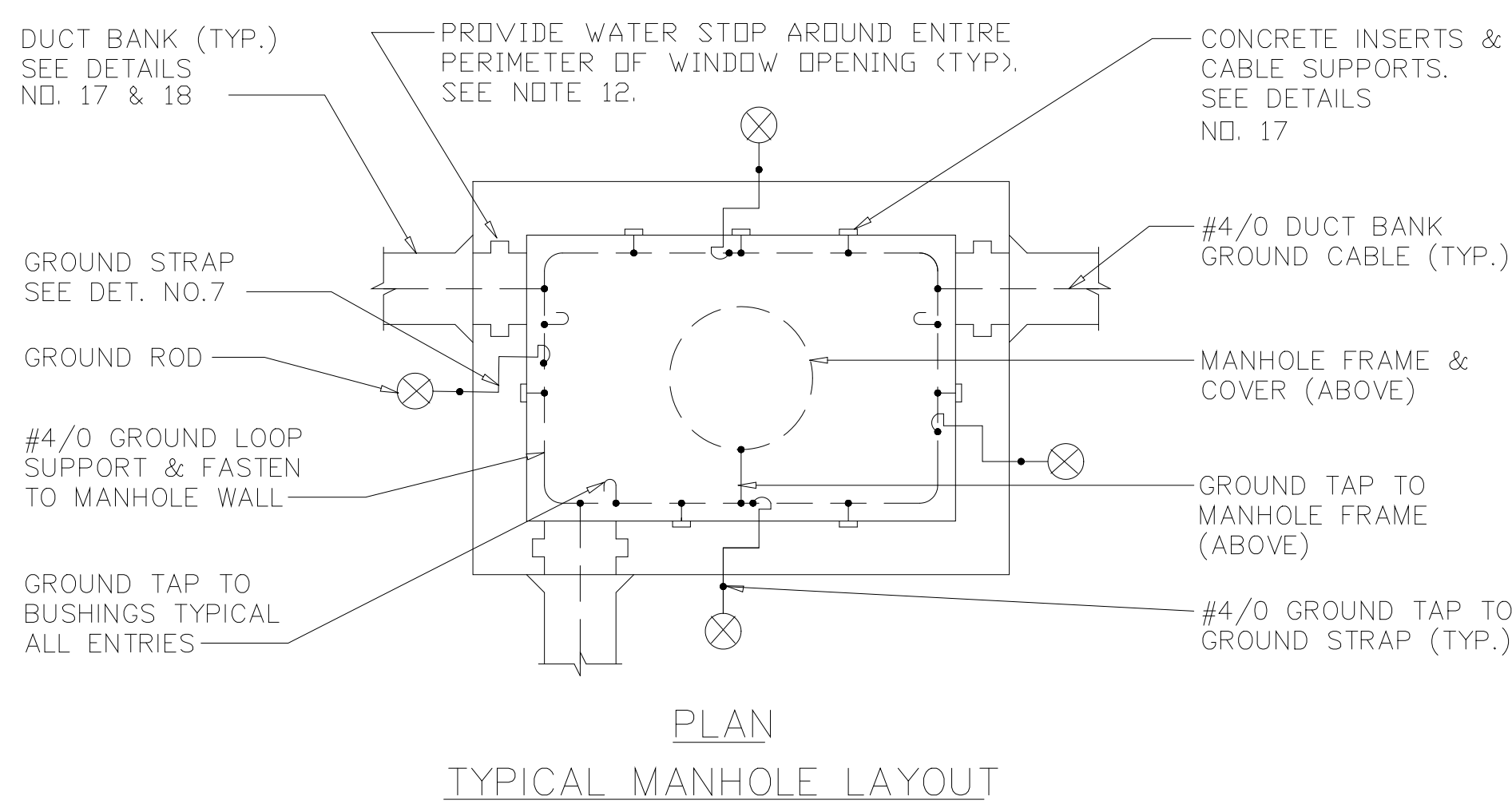


- NOTES:
- FOR ADDITIONAL MANHOLE DETAILS SEE DWG. E-38.
 - ALL CONCRETE STRUCTURES SHALL REST ON UNDISTURBED SOIL OF TWO (2) TONS PER SQUARE FOOT MINIMUM BEARING CAPACITY.
 - ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS AND RECOMMENDATIONS OF ACI-301-72 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING (FC-3000 PS1)
 - REINFORCING STEEL SHALL CONFORM TO ALL REQUIREMENTS FOR ASTM A-615 GRADE 60.
 - PLACE NO BACKFILL AGAINST FOUNDATIONS, POLE FOOTINGS AND HANDHOLES UNTIL ALL CONCRETE HAS BEEN POURED AND CURED.
 - ALL STEEL SHALL CONFORM TO "CODE OF STANDARD PRACTICE FOR STEEL BUILDING OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION" STEEL SHAPES SHALL CONFORM TO ASTM-A36 AND WELDING ELECTRODES TO ASTM-A233, E-60 SERIES.
 - WATERPROOFING FOR ALL STRUCTURAL WALLS AND SLABS BELOW GRADE SHALL BE PROVIDED AS REQUIRED BY THE SPECIFICATIONS.
 - ALL CABLES IN MANHOLES ARE TO BE ARC AND FIREPROOFED FOR THEIR ENTIRE EXPOSED LENGTH WITHIN THE MANHOLE.
 - MANHOLE WINDOW OPENING SIZES SHALL BE BASED ON DUCT BANK CONFIGURATIONS. THE LOCATION AND ELEVATION OF THE DUCT BANK ENTERING THE MANHOLE SHALL BE DETERMINED BY THE CONTRACTOR BASED ON ACTUAL FIELD CONDITIONS.
 - DIMENSION MAY VARY BASED ON ACTUAL DUCT BANK ELEVATION AND POINT OF PENETRATION INTO MANHOLE.
 - CONTRACTOR TO PROVIDE FLOATATION TYPE MANHOLES
 - AFTER INSTALLATION OF MANHOLES AND HANDHOLES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL WATER LEAKS THAT MAY OCCUR DUE TO INSTALLATION OF DUCT BANKS THRU WINDOW OPENINGS, AND WATER LEAKS AT CONSTRUCTION JOINTS.

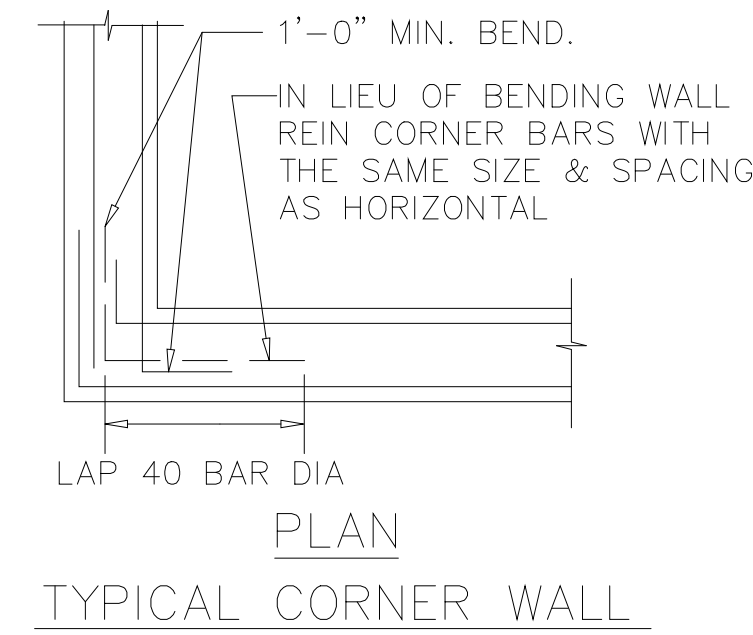


SECTION A-A
TYPICAL MANHOLE DETAIL

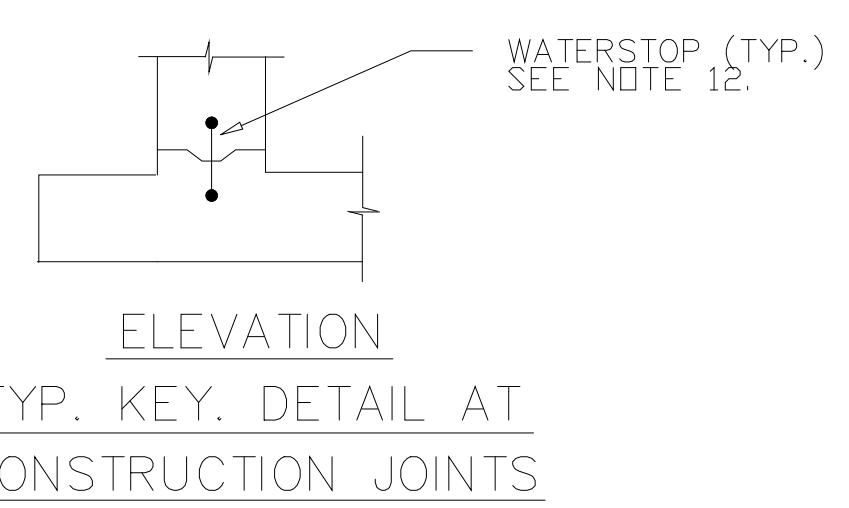
SECTION B-B
TYPICAL HANDHOLE DETAIL



SECTIONAL
TOP PLAN



PLAN
TYPICAL CORNER WALL



ELEVATION
TYP. KEY. DETAIL AT
CONSTRUCTION JOINTS

RECORD DRAWING

PLOT DATE 04/17/99 09:00am FILE: H:\DRAFTING\199-12404 by MATH SHIP FILE = NONE

DESIGNED	EC
DRAWN	EW
CHECKED	EC
PROJ. ENGR.	WG
DATE	BY
4-99	MKS
9-94	J.J.B.
9-94	J.J.B.
NO.	ISSUED FOR
3	RECORD DRAWING
2	CONSTRUCTION
1	COUNTY REGULATORY APPROVAL

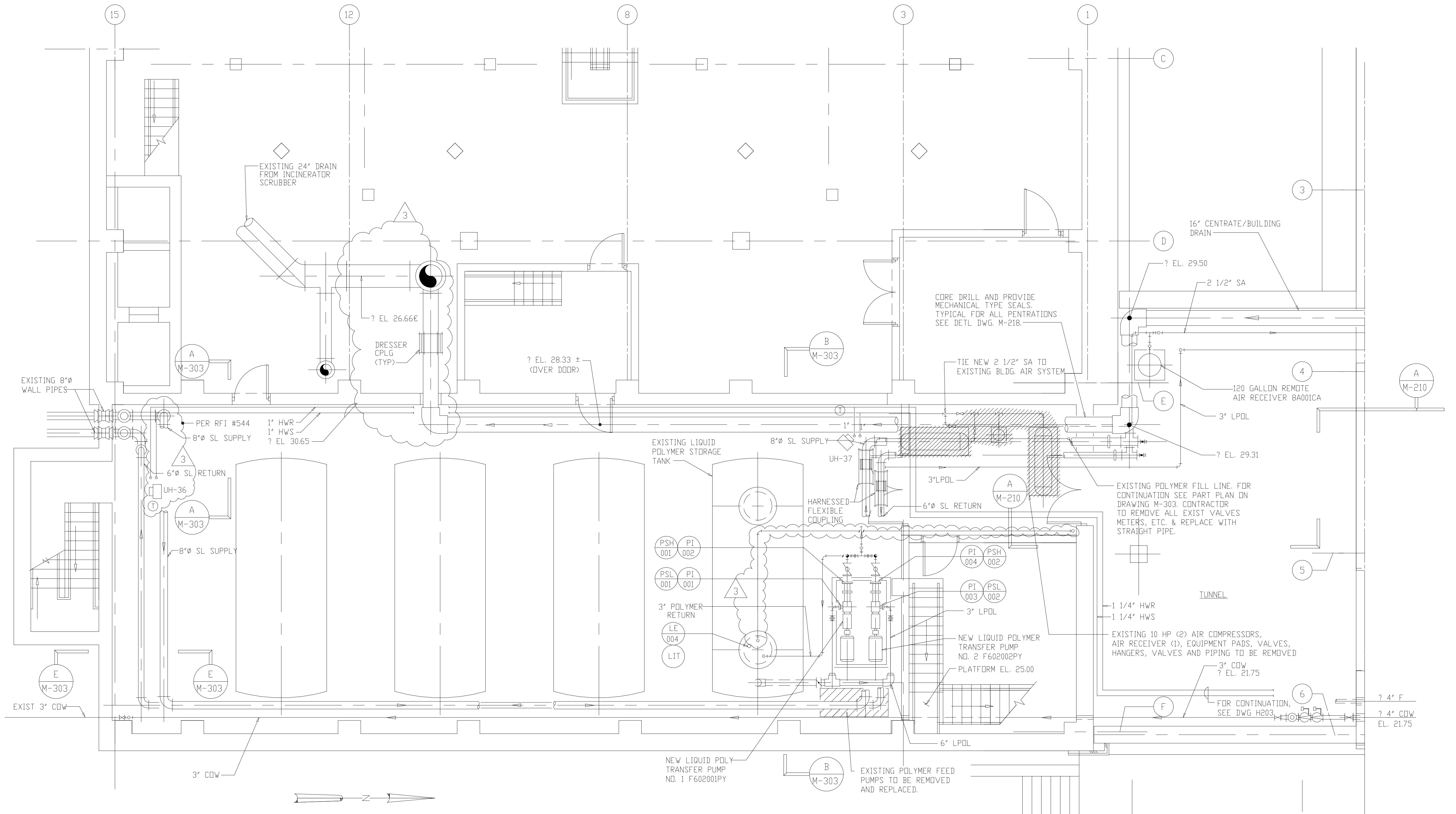
APPROVED	
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HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

CENTRIFUGE DEWATERING BUILDING
ELECTRICAL
MISCELLANEOUS DETAILS
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER E240
	SHEET 179 OF 199



NOTES:

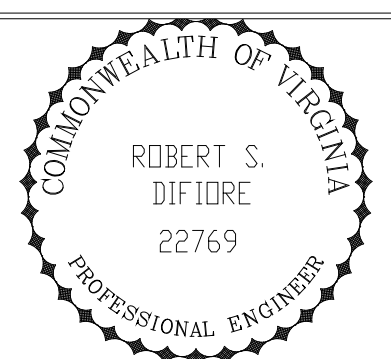
1. PER FIELD ORDER #17 ITEM #25, PROVIDE AN 8" DOUBLE GATE VALVE BACKFLOW PREVENTER ON THE 8" FPW LINE TO THE CENTRIFUGE DEWATERING BUILDING.

NOTE: FOR ADDITIONAL DETAILS SEE DWG. F-4.

1/4"=1'-0"
 1 0 1 2 3 7'
RECORD DRAWING

MATCH LINE FOR CONTINUATION
 SEE DWG. M-201 & 202

DESIGNED	A.A.B.
DRAWN	N.N.
CHECKED	A.A.B.
PROJ. ENGR.	J.J.B.
DATE	BY
APPROVED	



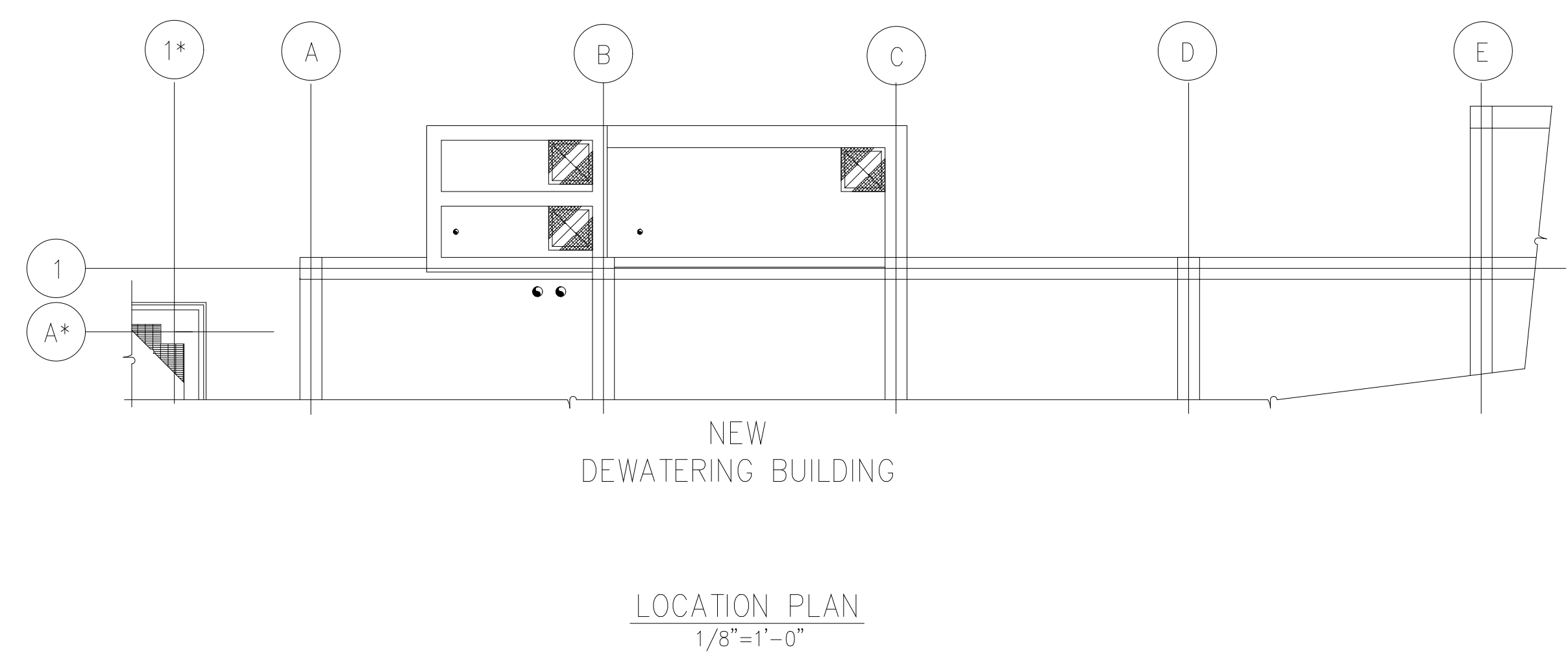
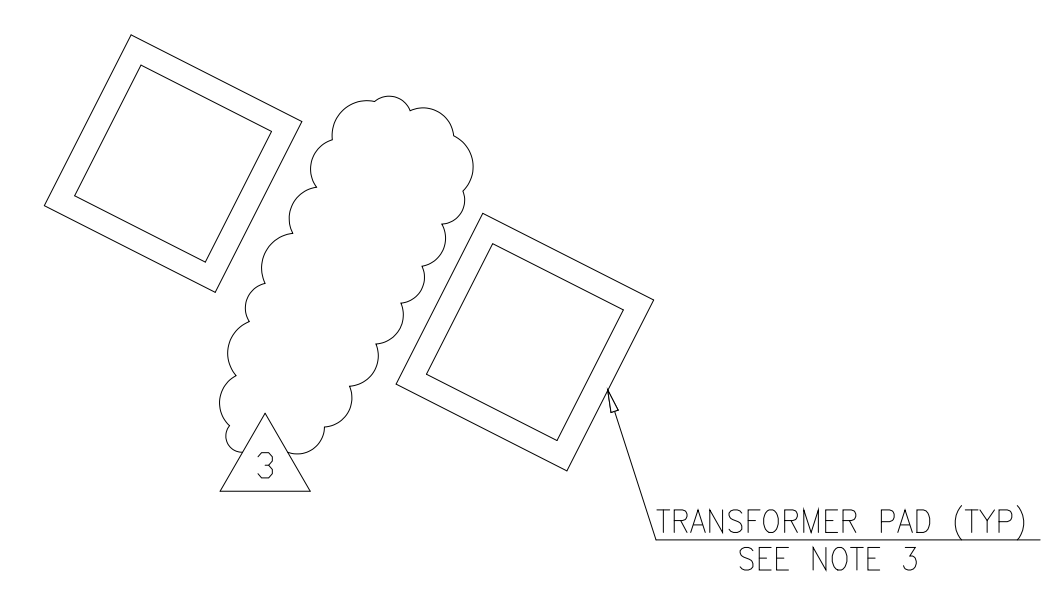
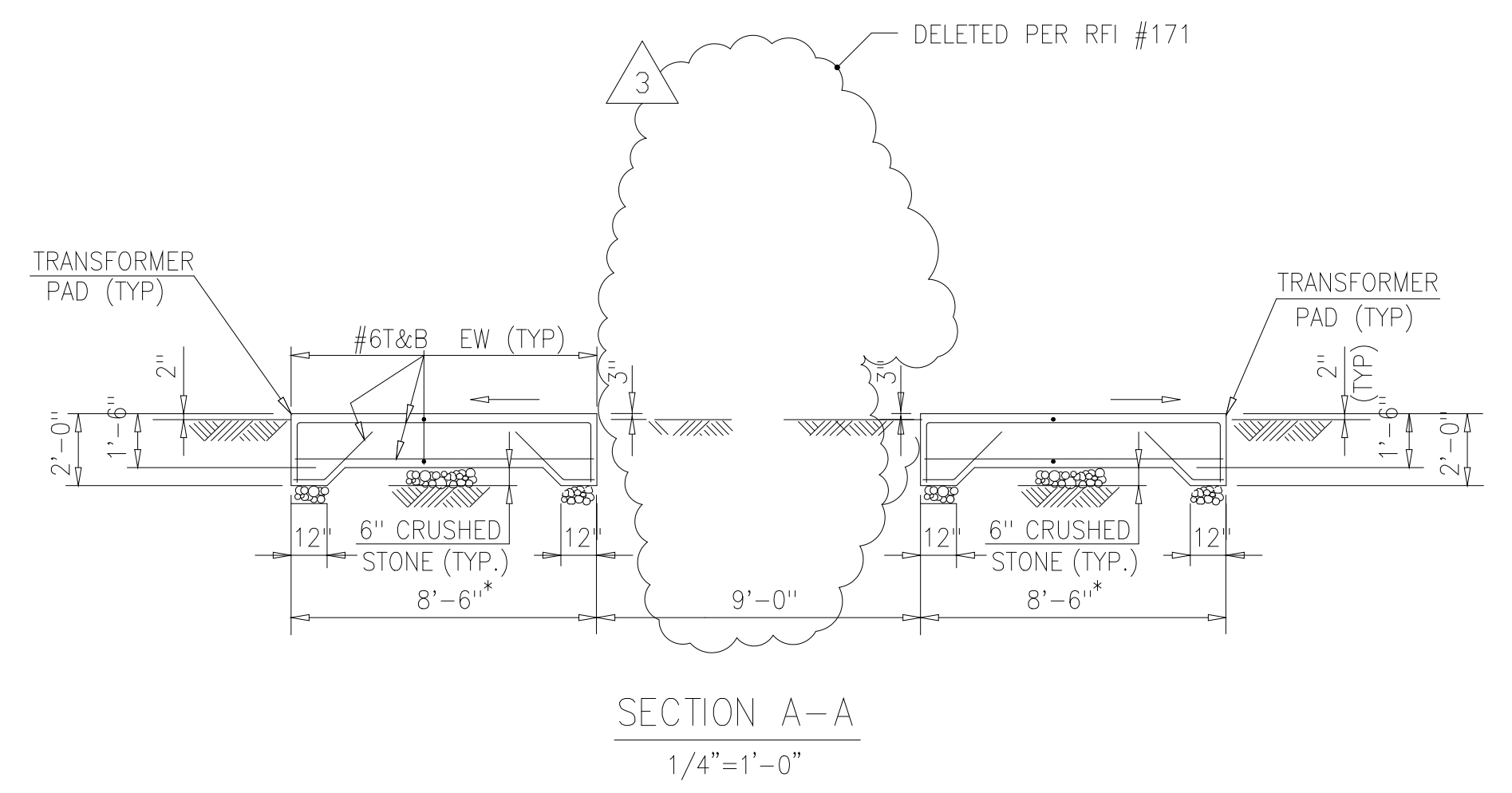
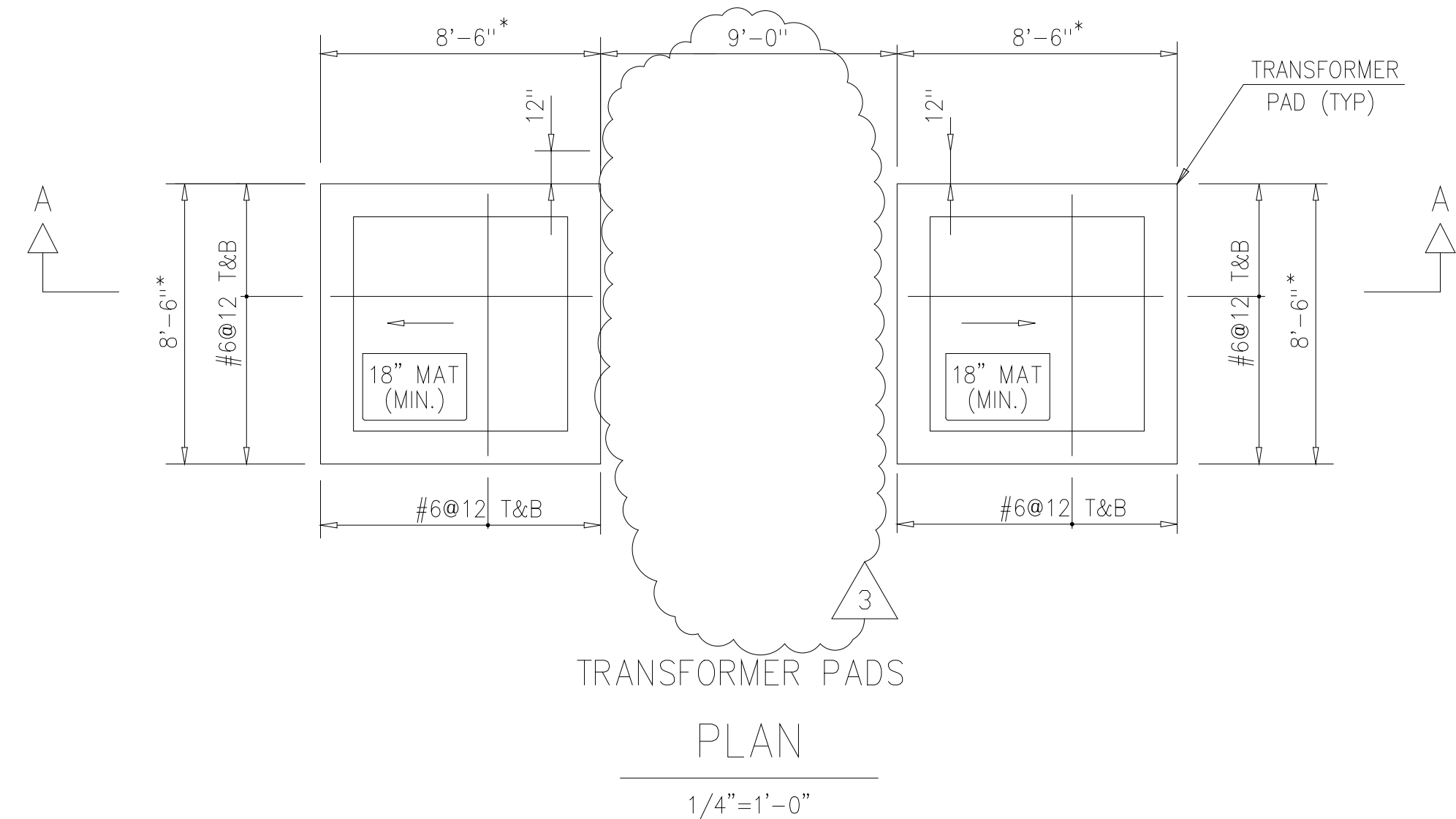
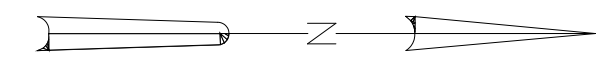
HAZENAND SAWYER
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

MODIFICATIONS TO EXISTING STRUCTURE
 MECHANICAL
 EXISTING BIOSOLIDS BUILDING
 PLAN AT ELEVATION 18.00

DATE	SEPT. 1994
H & S JOB NUMBER	2843
CONTRACT NUMBER	93-02-WPC
DRAWING NUMBER	M-301
SHEET	180 OF 199

FILED: 09/14/94 10:00 AM AT THE OFFICE OF THE COUNTY ENGINEER, ARLINGTON COUNTY, VIRGINIA.

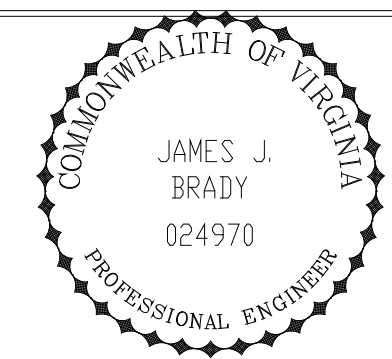
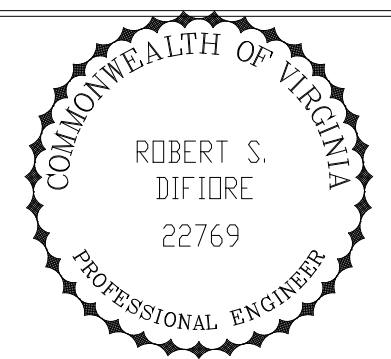


- NOTES:
1. FOR GENERAL CONCRETE NOTES SEE DWG. S - 501
 2. * - DEPENDENT ON APPROVED MANUFACTURER'S EQUIPMENT SELECTED.
 3. FOR LOCATION OF TRANSFORMER PADS SEE ELECTRICAL AND CIVIL DWGS.

RECORD DRAWING

PLOT DATE: 04/17/03 9:10am FILE: H:\SARAS\WPC\UPGRADE by MATS - RPT FILE - R03E

DESIGNED	M.Y.
DRAWN	C.W.S.
CHECKED	W.E.G.
PROJ. ENGR.	M.Y.
NO.	ISSUED FOR
DATE	BY
APPROVED	

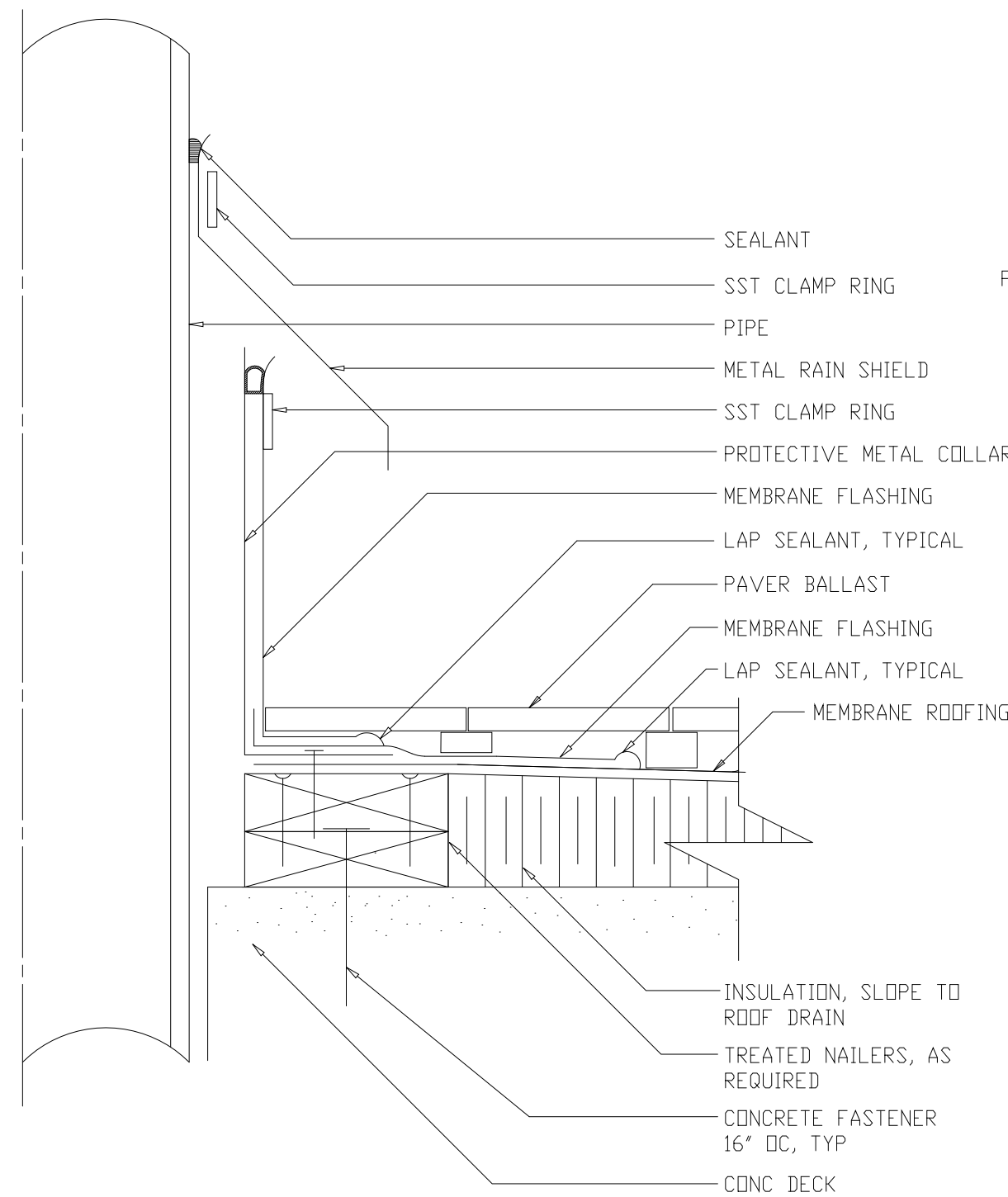


HAZENAND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

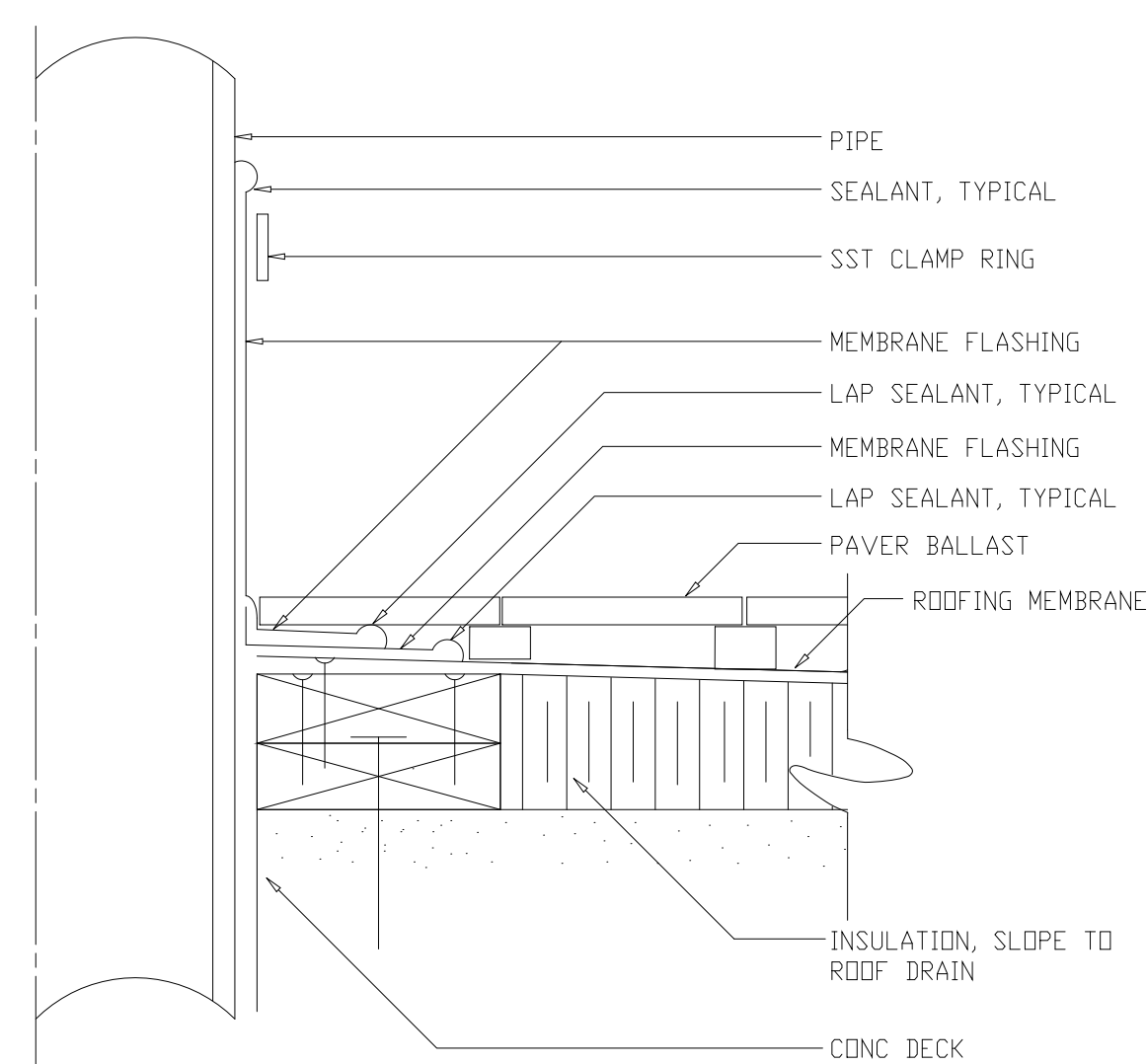
MISCELLANEOUS STRUCTURES
STRUCTURAL
TRANSFORMER PADS
PLANS, SECTIONS, AND DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE AUGUST 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER S-402
	SHEET 190 OF 199



ALL ROOFING MEMBRANE DETAILS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
PIPE THRU ROOF - TEMP 180° AND ABOVE

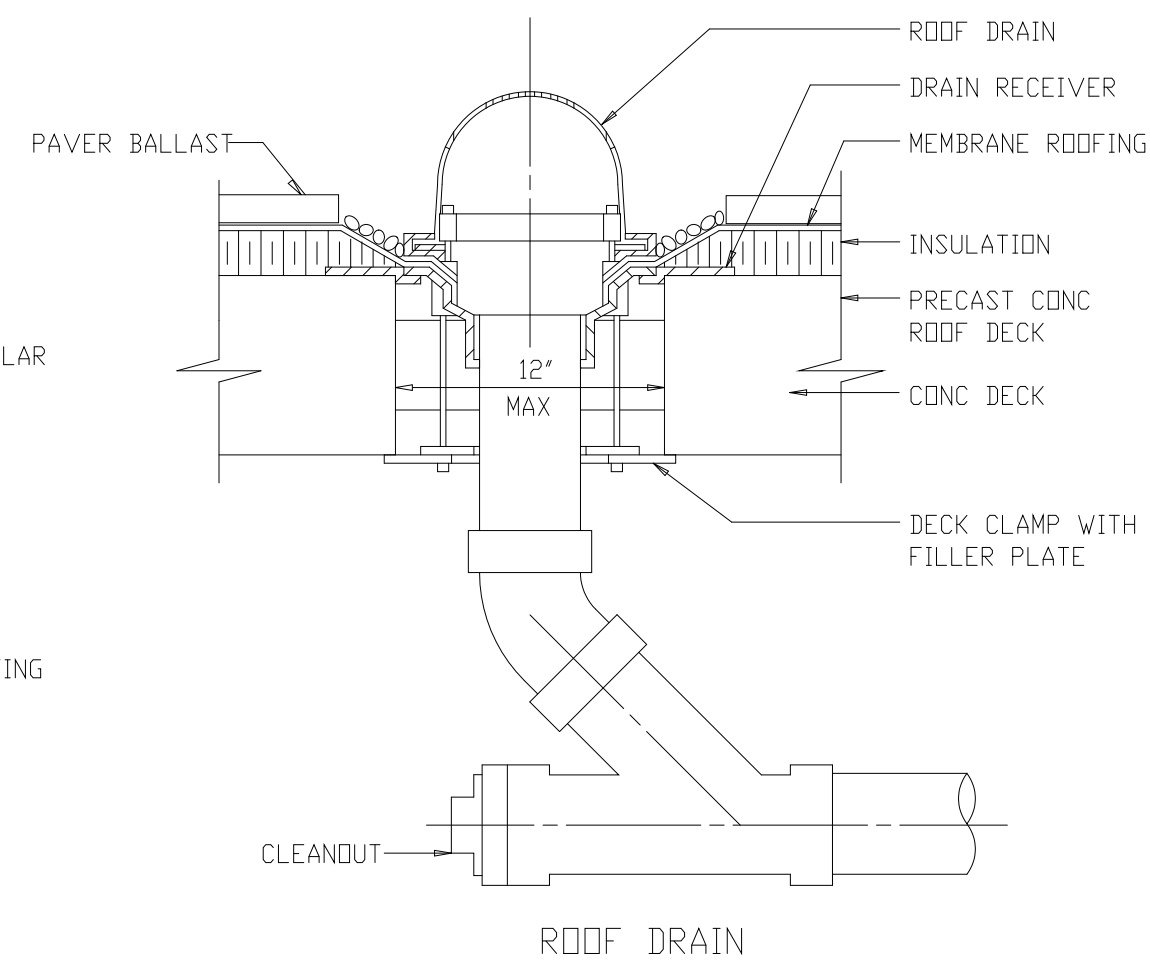
DETAIL 12
1 1/2"=1'-0" A-209



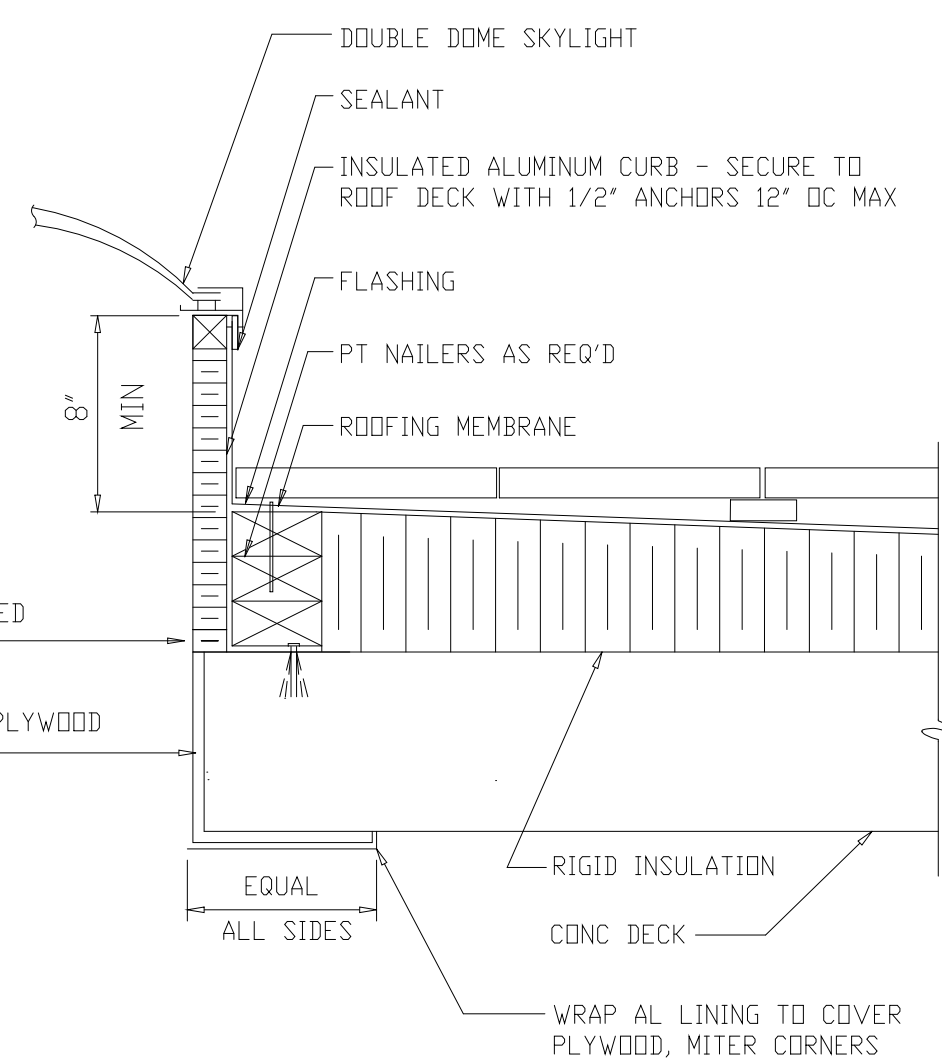
ALL ROOFING MEMBRANE DETAILS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

PIPE THRU ROOF

DETAIL 16
1 1/2"=1'-0" A-209

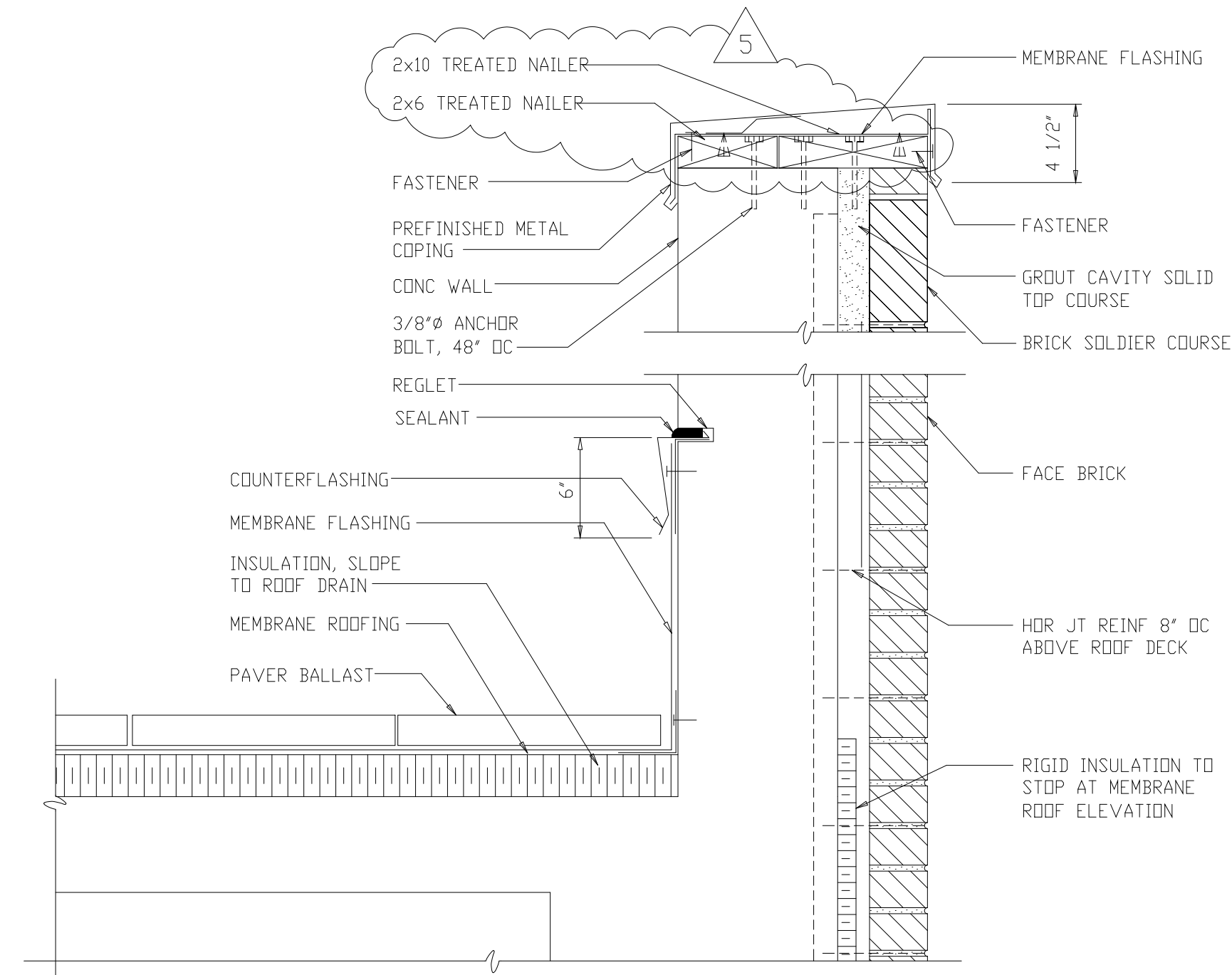


DETAIL 13
1 1/2"=1'-0" A-209



NOTE: EXTEND PLYWOOD AND LINING AS REQ'D TO COVER ANGLE SUPPORTS

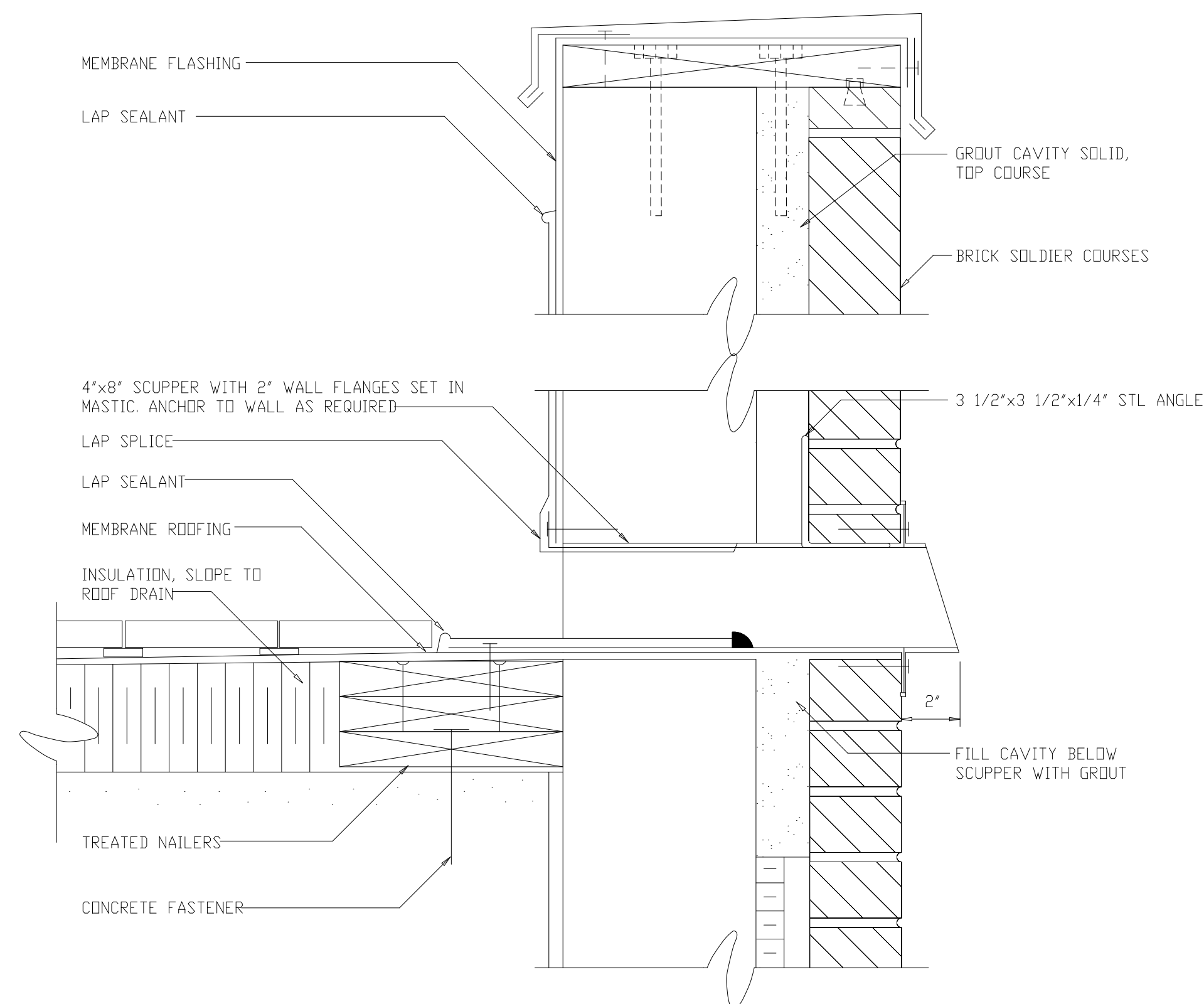
DETAIL 17
1 1/2"=1'-0" A-209



ALL ROOFING MEMBRANE DETAILS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

PARAPET FLASHING

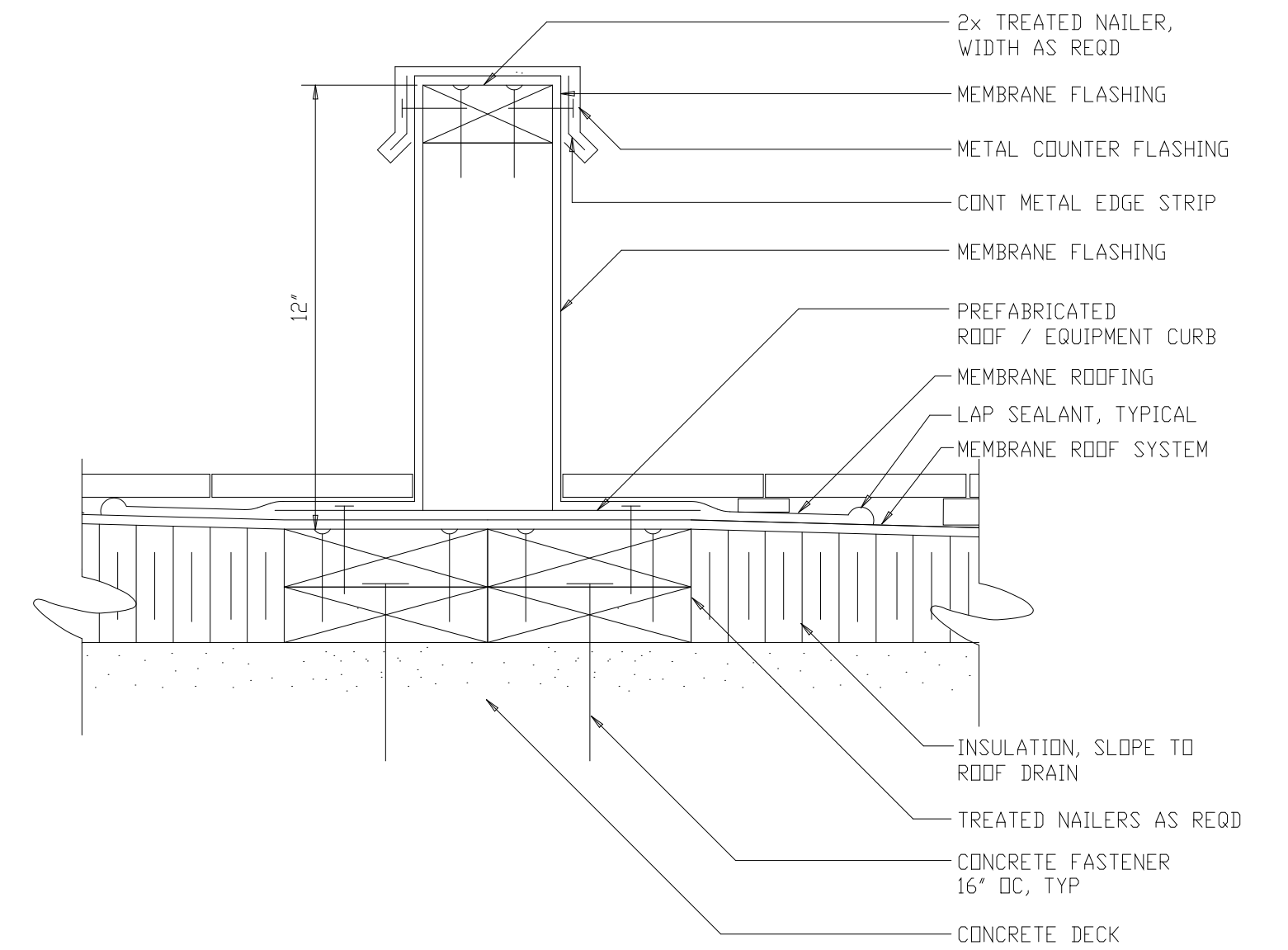
DETAIL 14
1 1/2"=1'-0" A-209



ALL ROOFING MEMBRANE DETAILS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

PARAPET SCUPPER

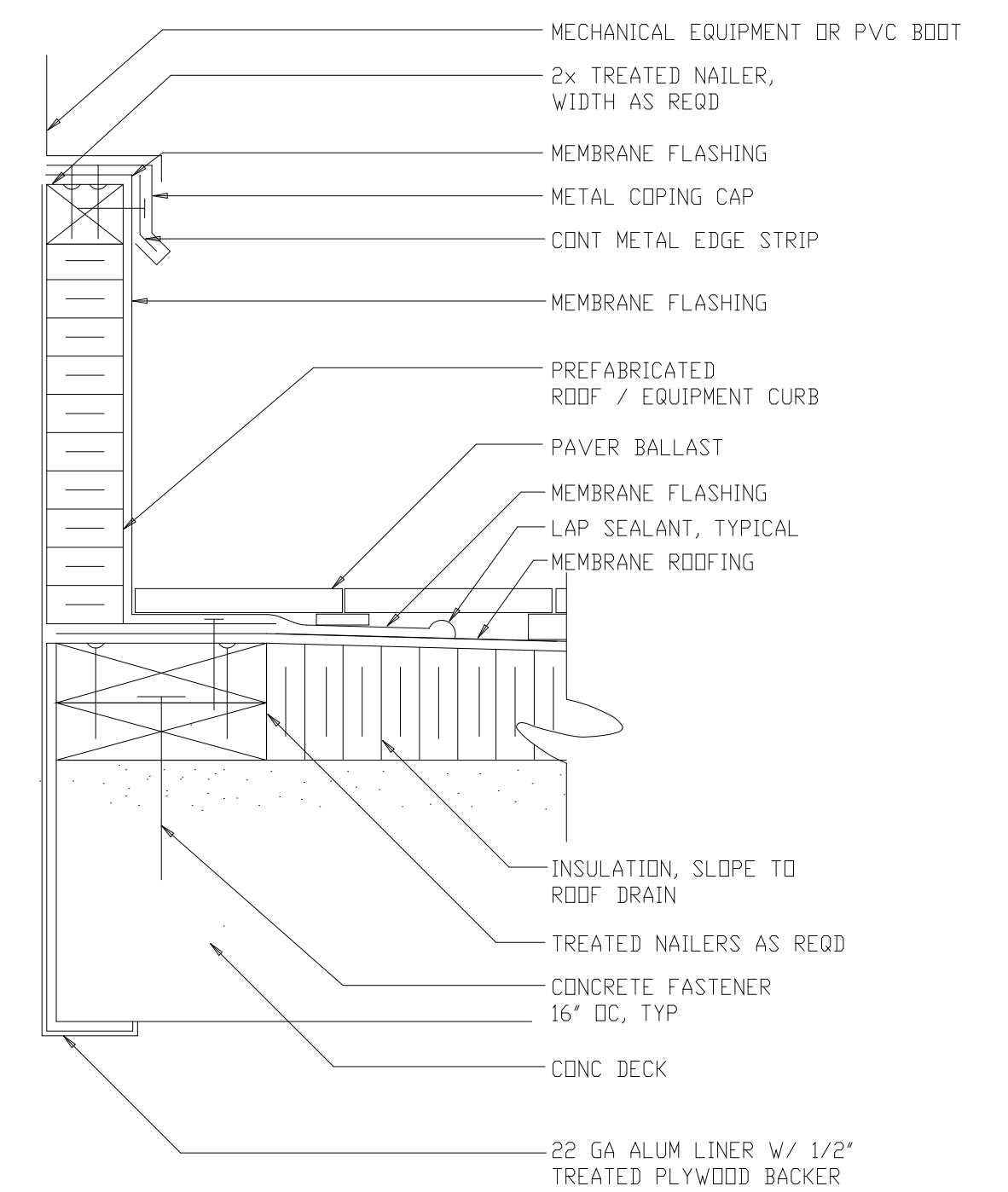
DETAIL 18
NTS A-209



ALL ROOFING MEMBRANE DETAILS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

EQUIPMENT SUPPORT

DETAIL 15
1 1/2"=1'-0" A-209



ALL ROOFING MEMBRANE DETAILS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

EQUIPMENT CURB

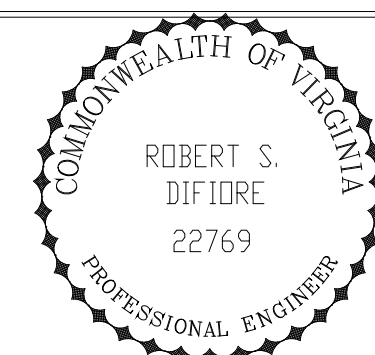
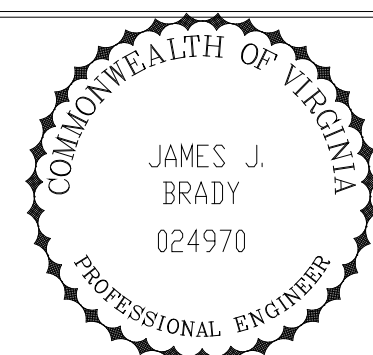
DETAIL 19
1 1/2"=1'-0" A-209

RECORD DRAWING

PLOT DATE: 11/17/99 9:50am FILE: \\ns0402\dwg\1119\1119.dwg by: MHTS DWG FILE - NONE

NO.	DESCRIPTION	DATE	BY	APPROVED
3	RECORD DRAWINGS	6-99	F.X.P.	
2	CONSTRUCTION	9-94	JJB	
1	COUNTY REGULATORY APPROVAL ISSUED FOR	9-94	JJB	

DESIGNED	WHR
DRAWN	DRD
CHECKED	AAB/RNC
PROJ. ENGR.	JJB
	JJB

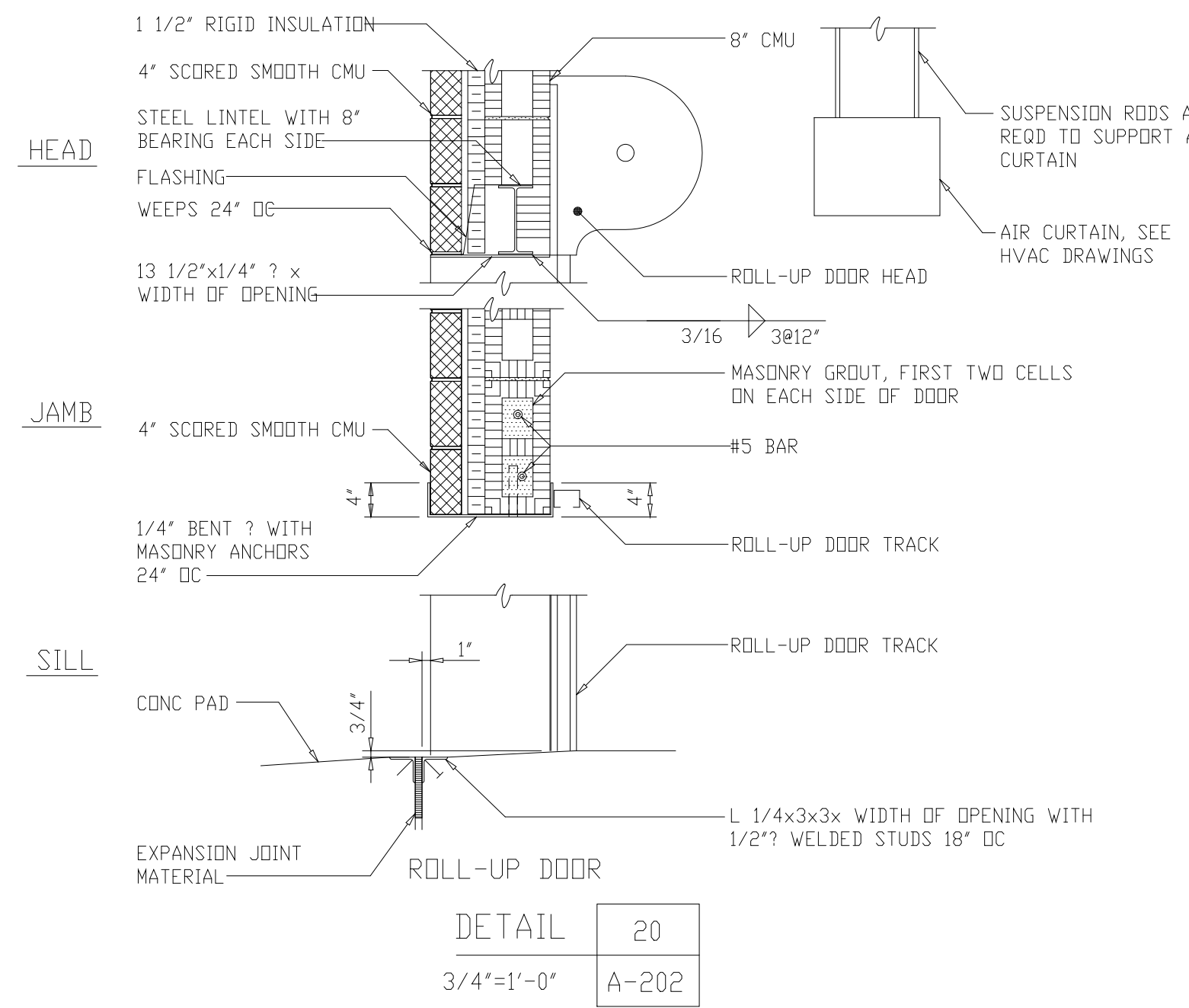


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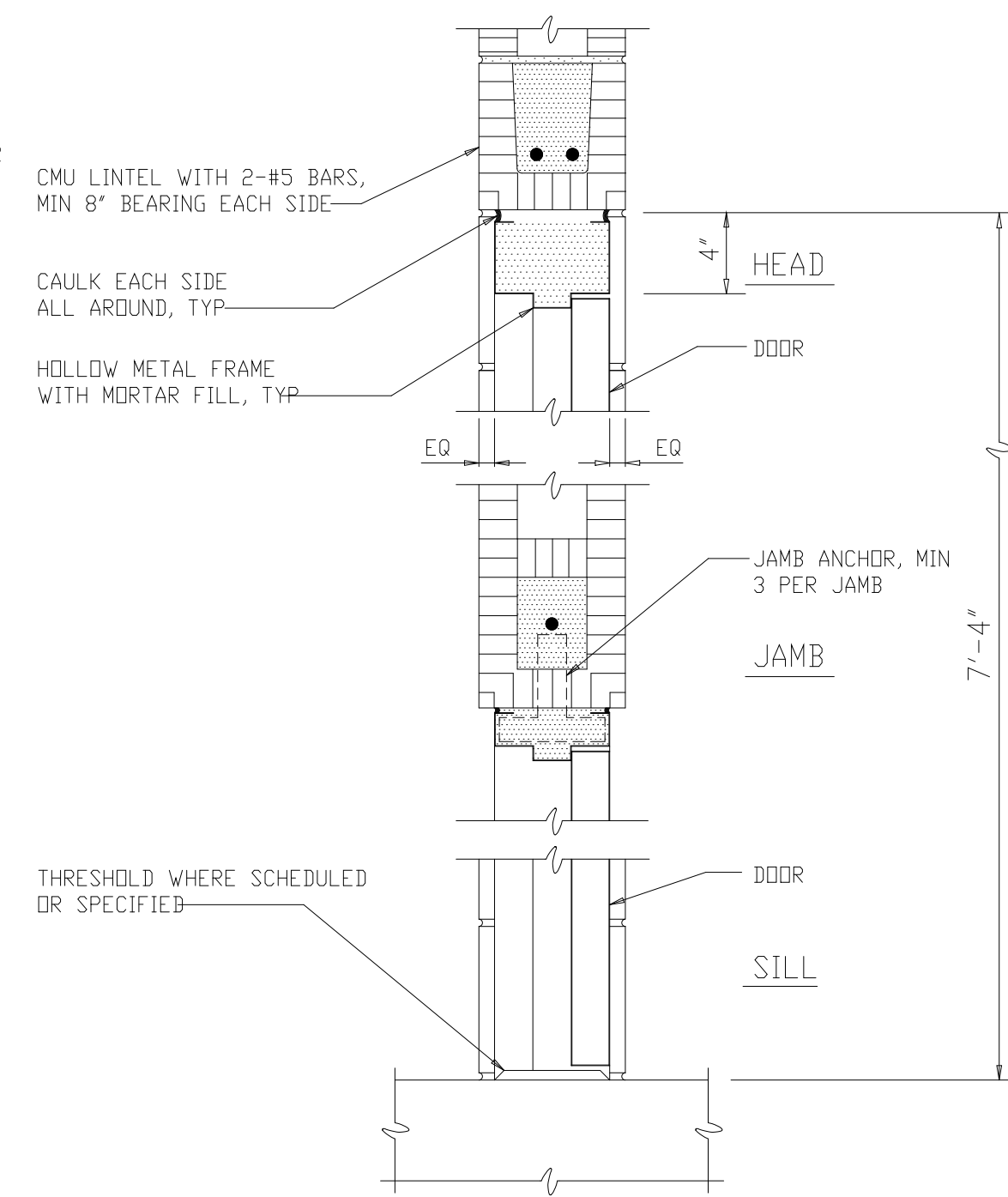
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

SCHEDULES AND STANDARD DETAILS
ARCHITECTURAL
TYPICAL STANDARD DETAILS
SHEET 1

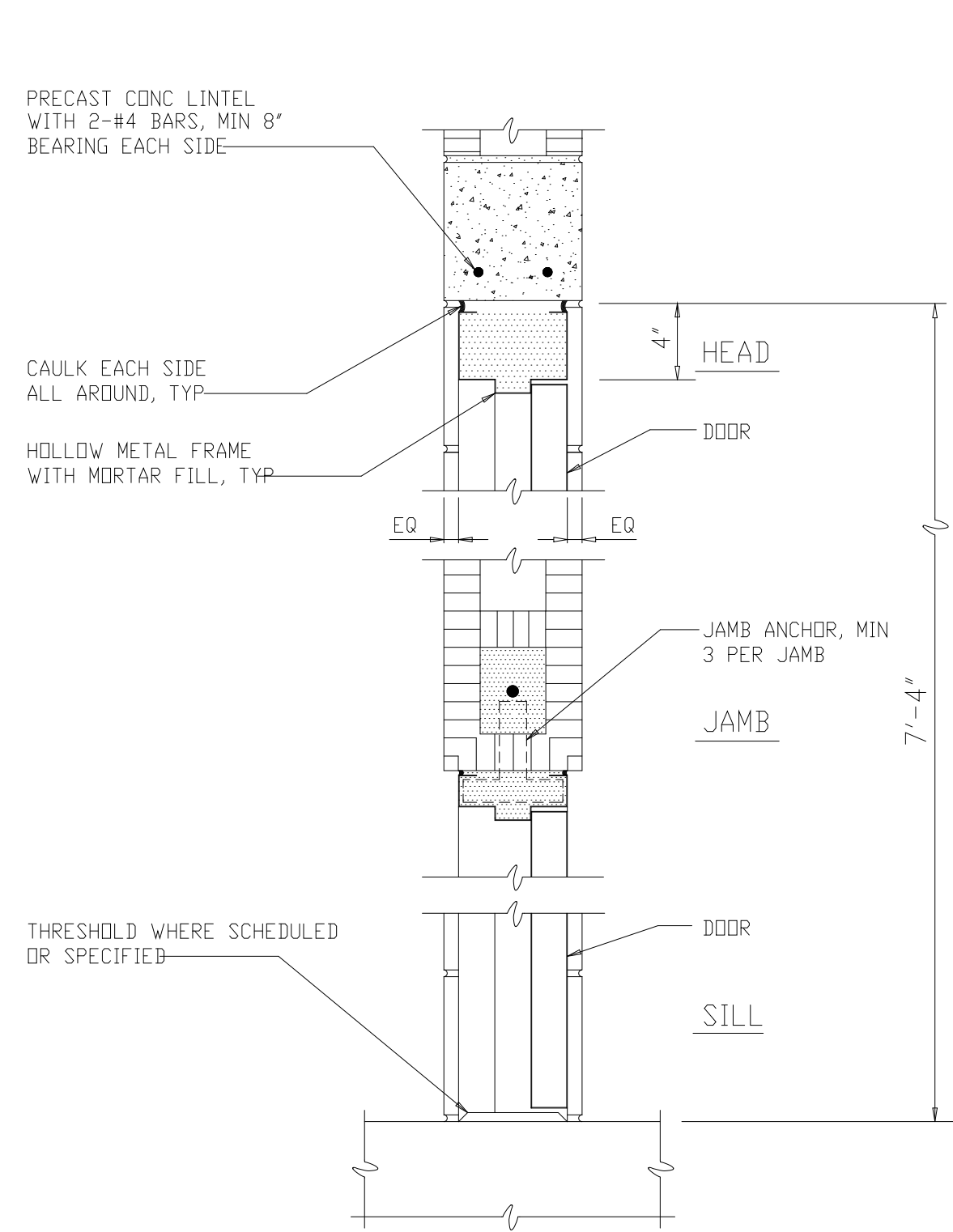
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER A-501
	SHEET 191 OF 199



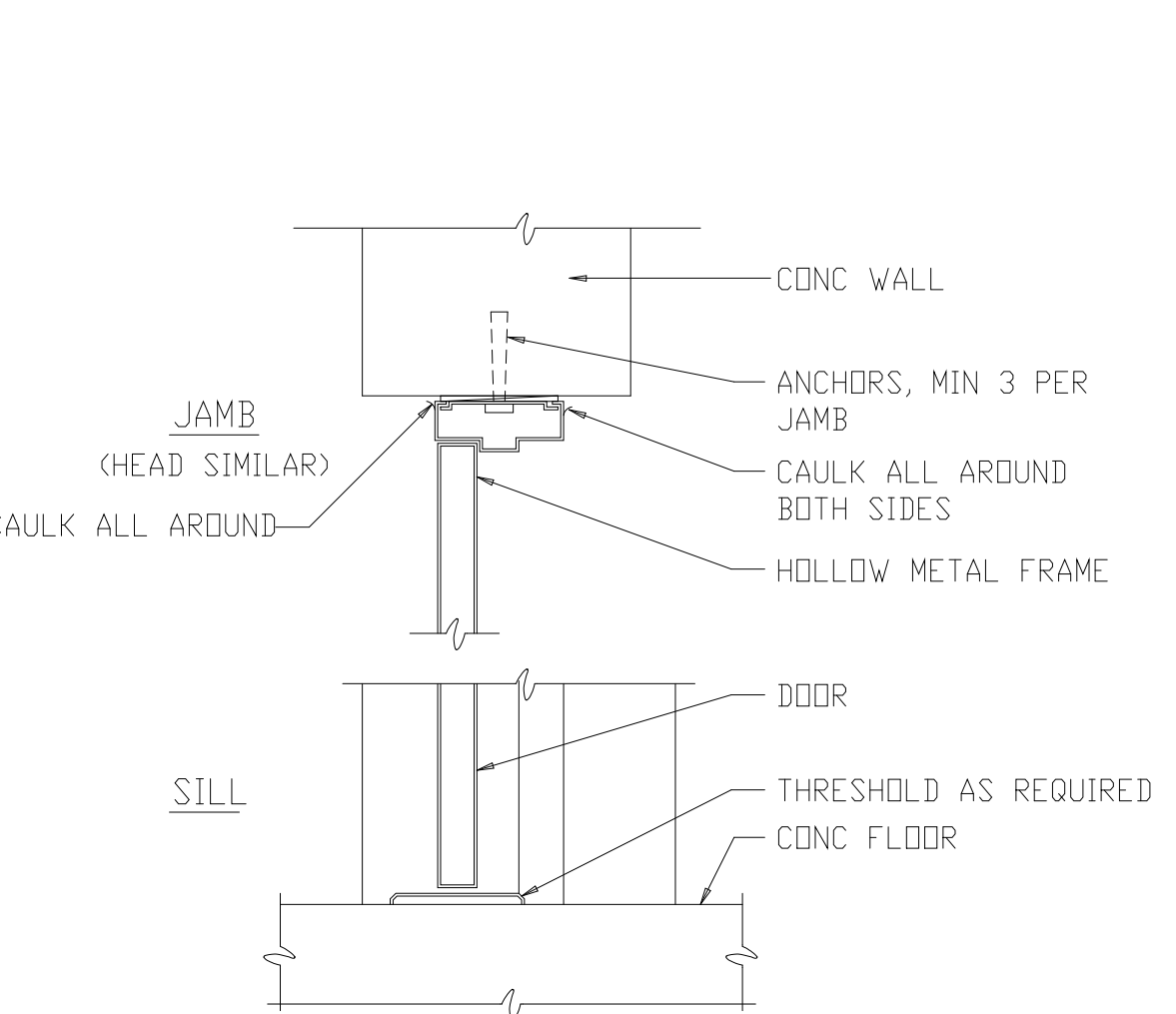
DETAIL 20
3/4"=1'-0"
A-202



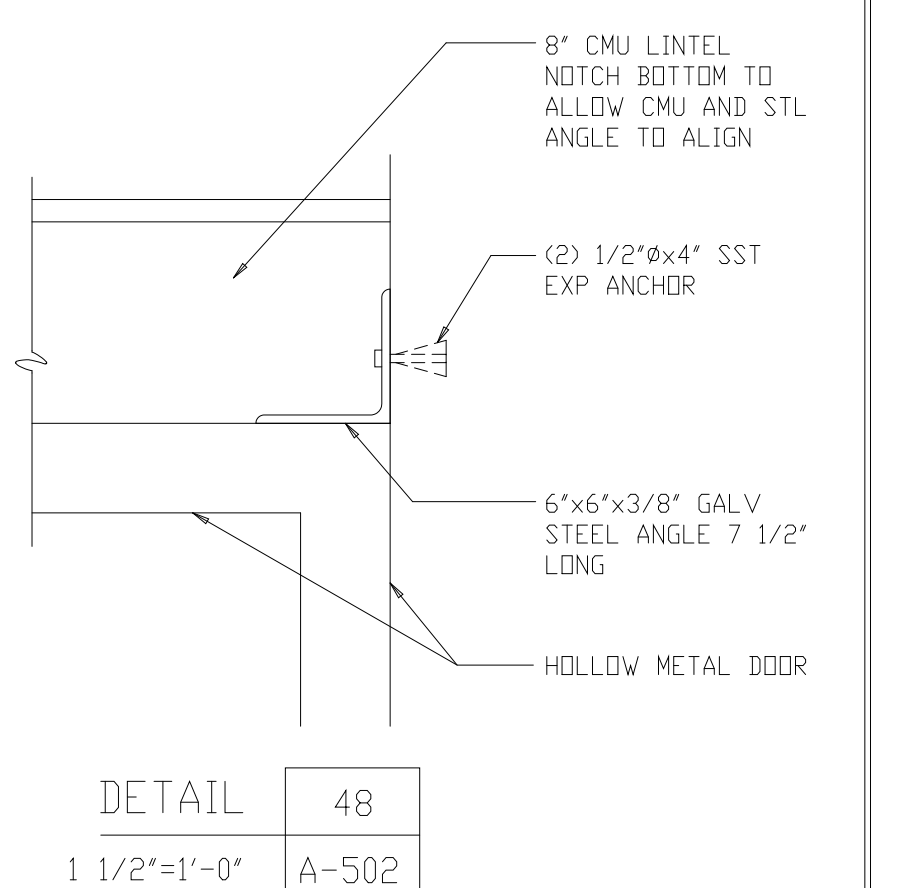
DETAIL 21
1 1/2"=1'-0"
A-219



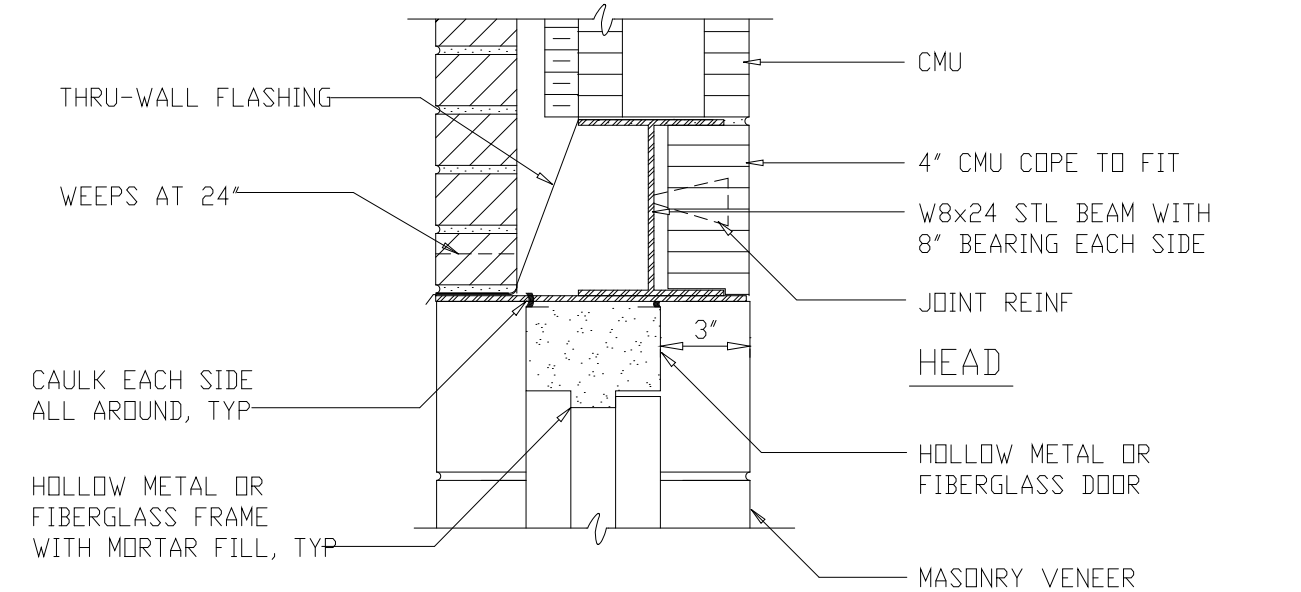
DETAIL 22
1 1/2"=1'-0"
A-219



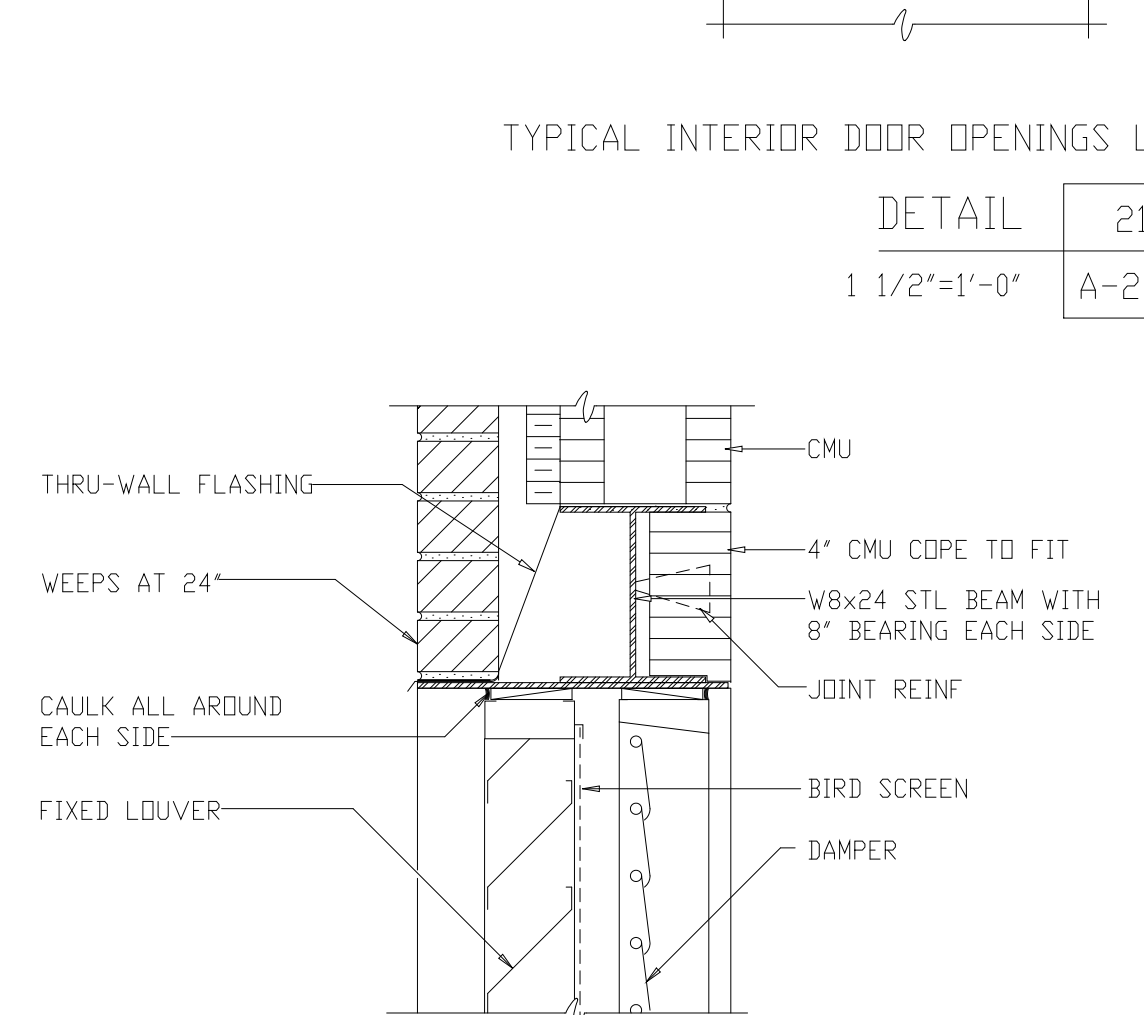
DETAIL 23
1 1/2"=1'-0"
A-219



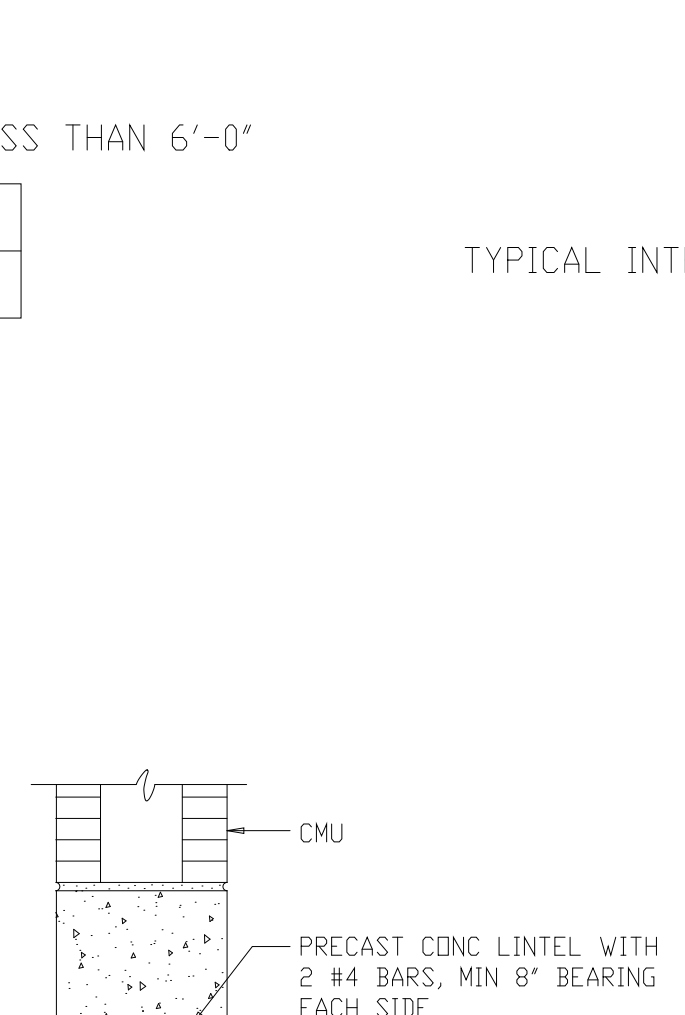
DETAIL 48
1 1/2"=1'-0"
A-502



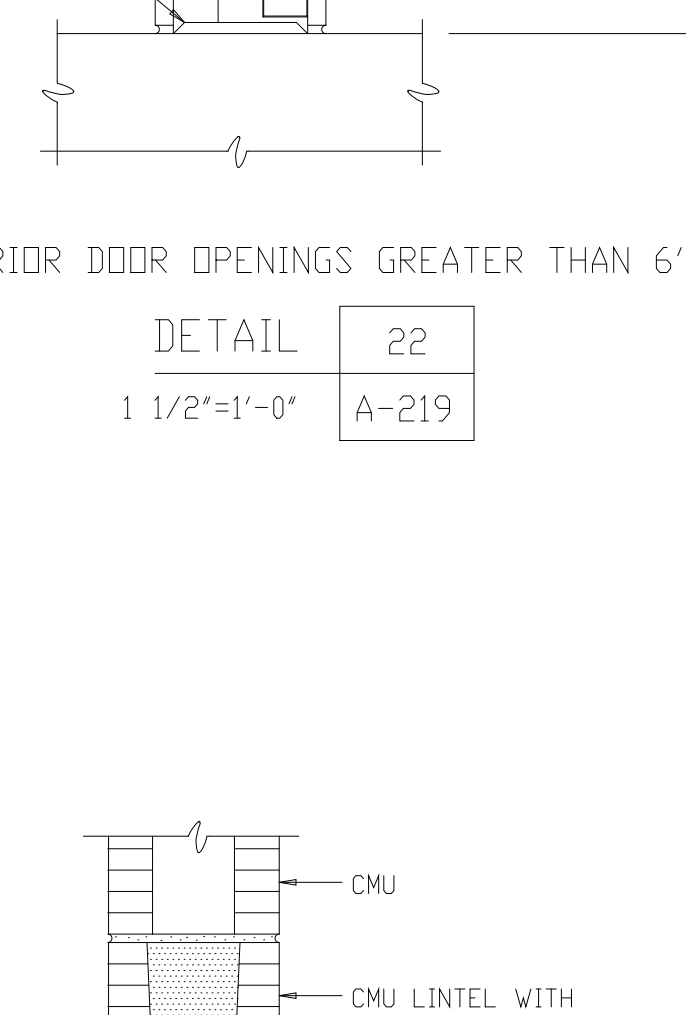
DETAIL 24
1 1/2"=1'-0"
A-219



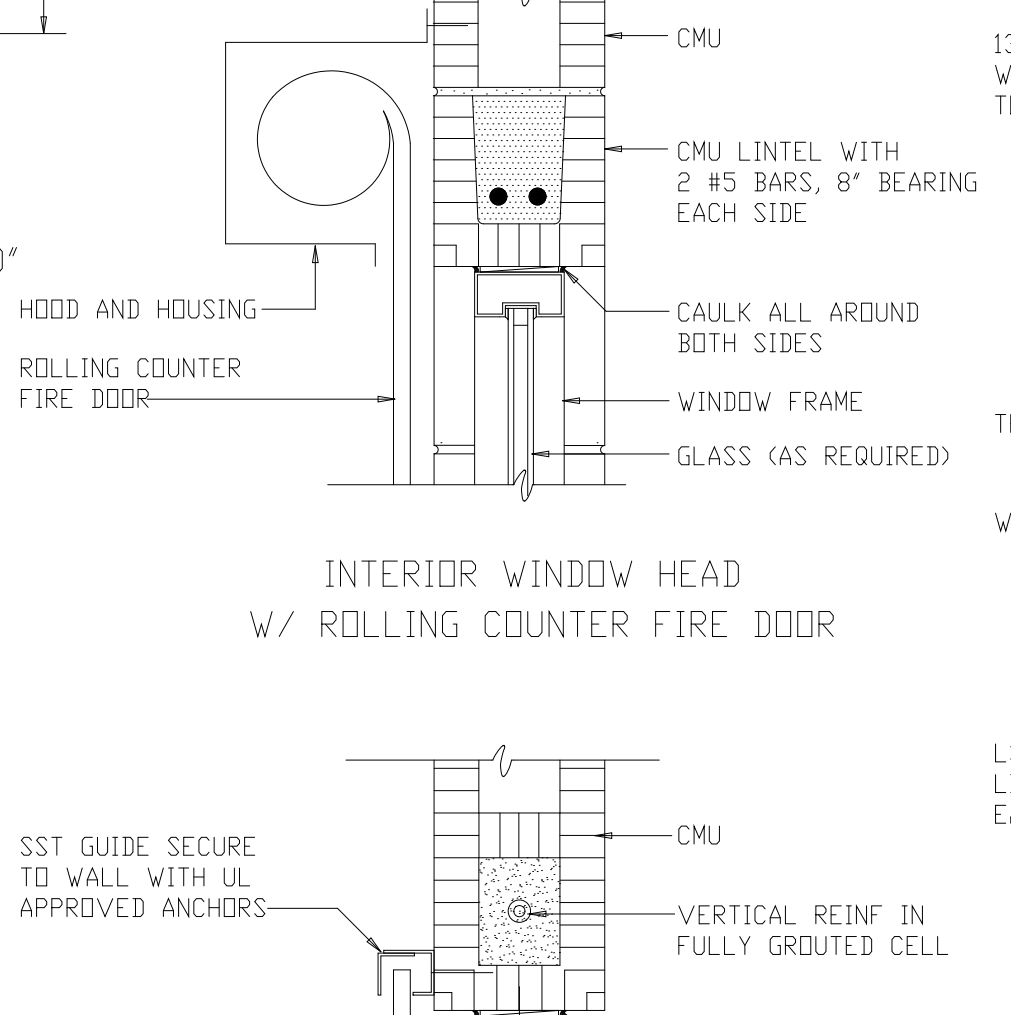
DETAIL 25
1 1/2"=1'-0"
A-203



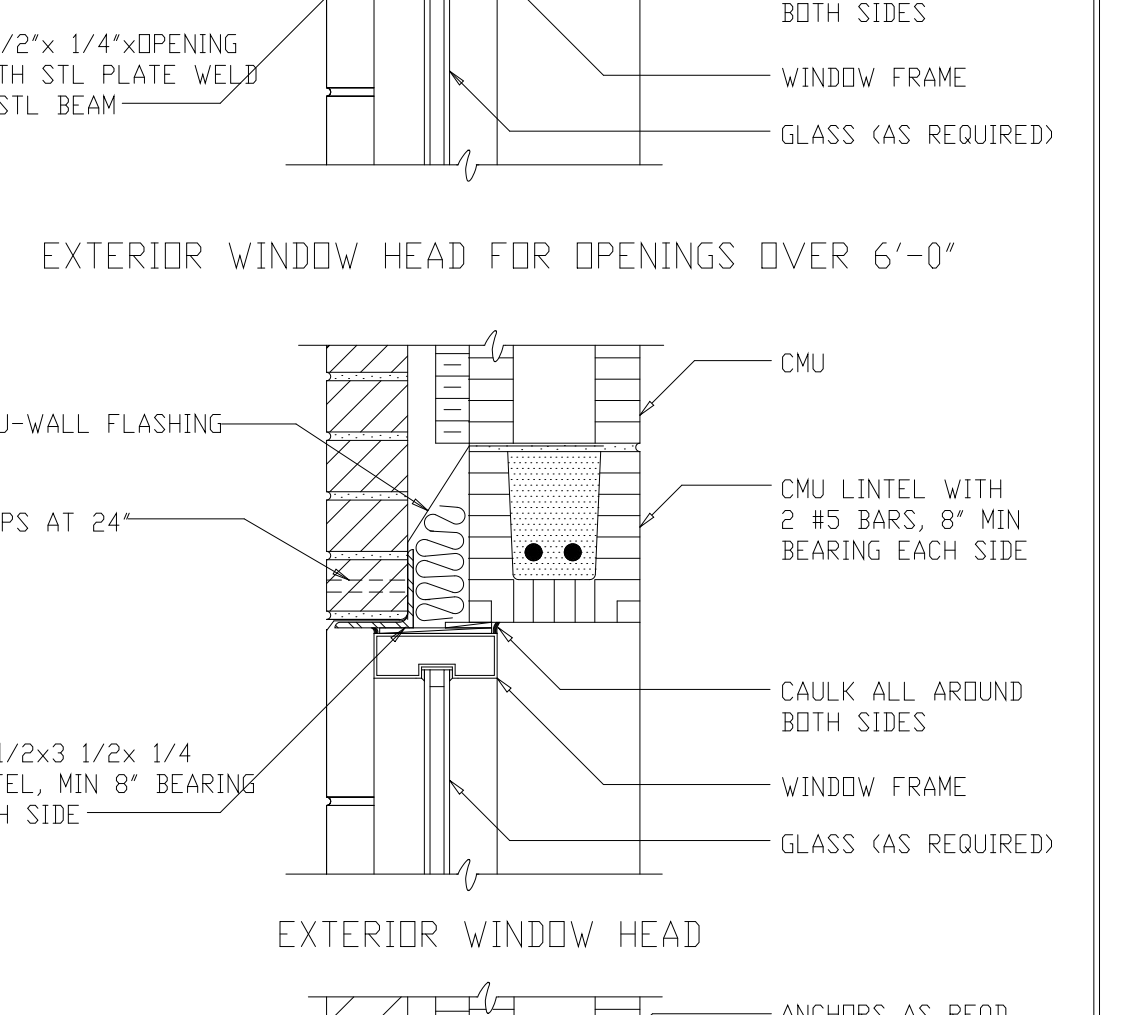
DETAIL 26
1 1/2"=1'-0"
A-207



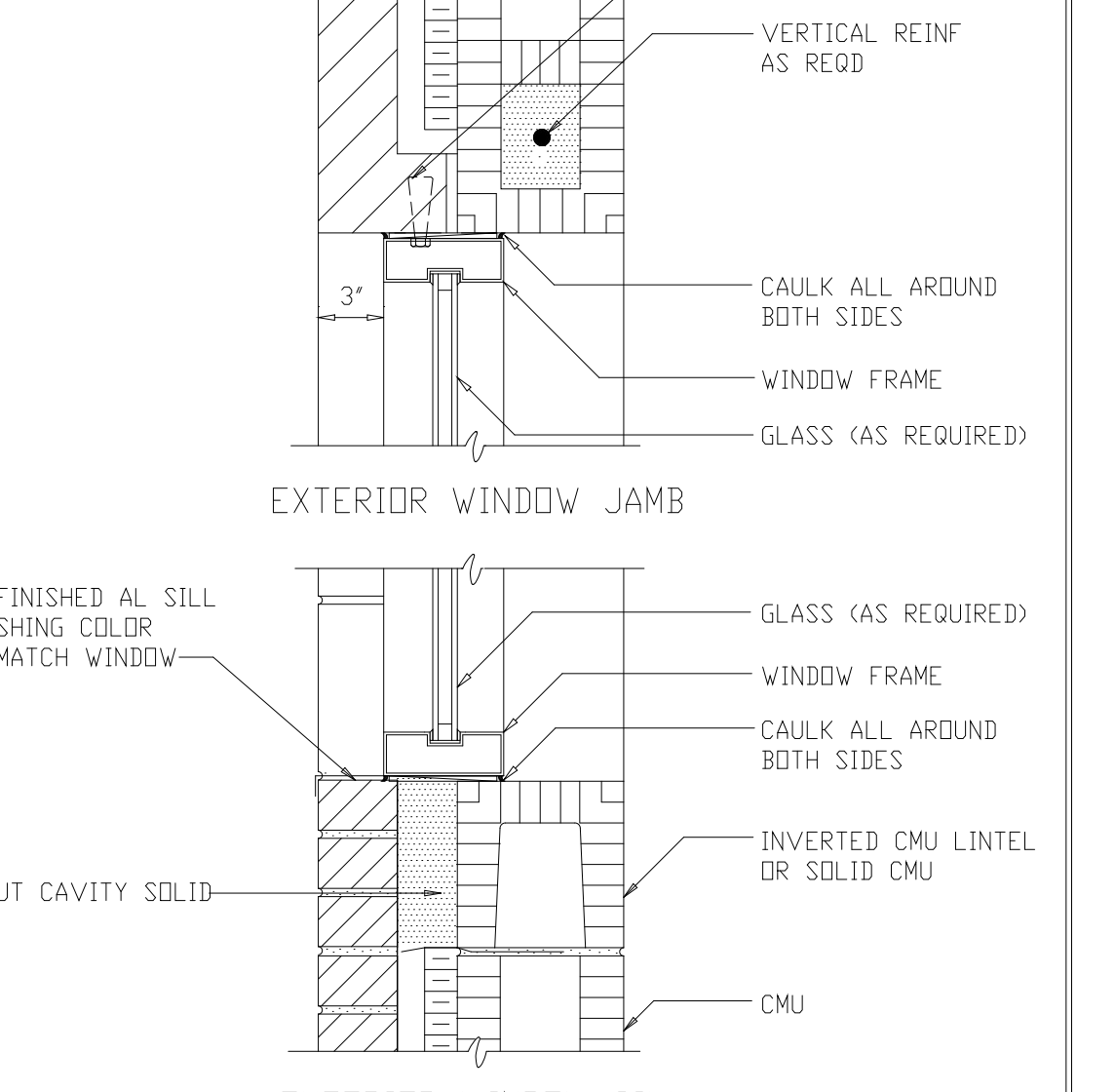
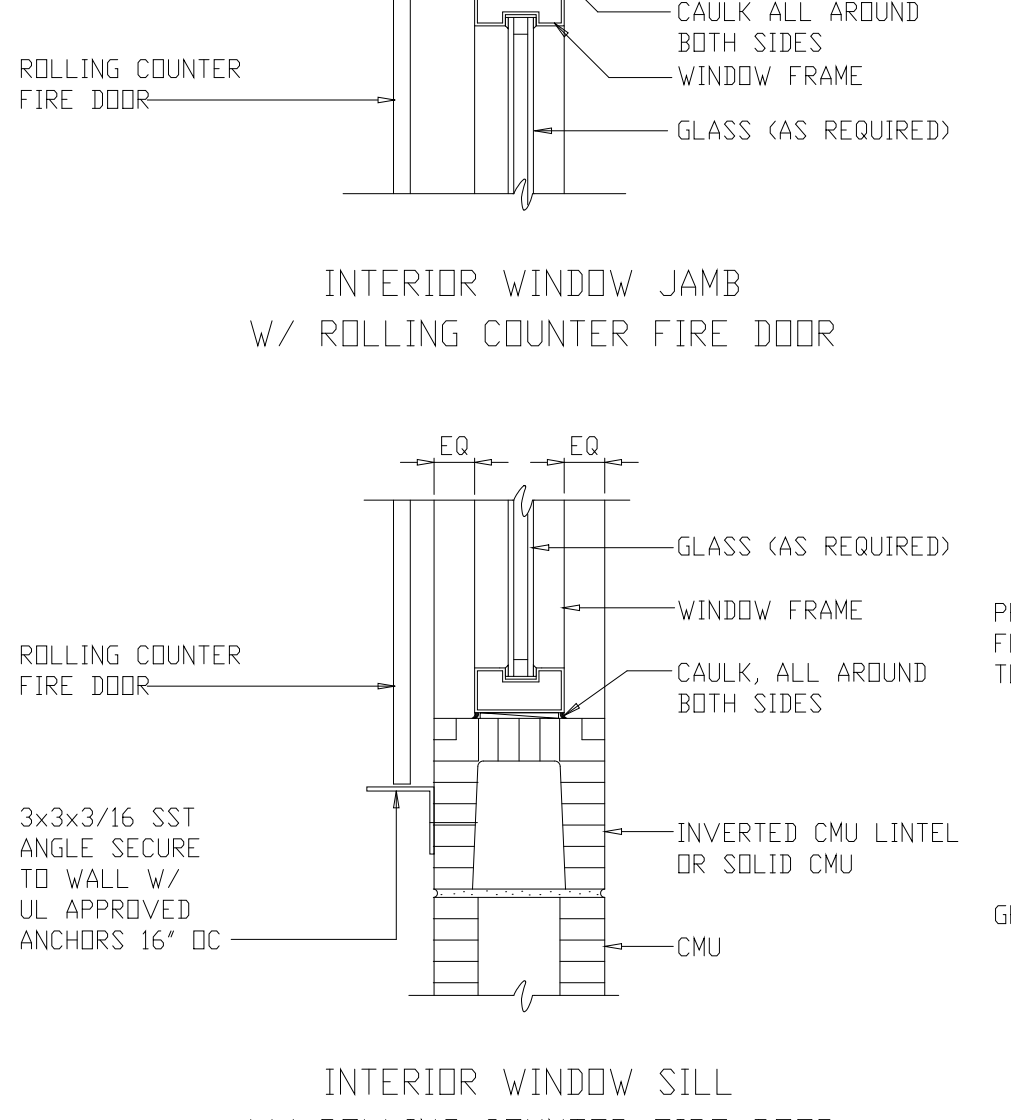
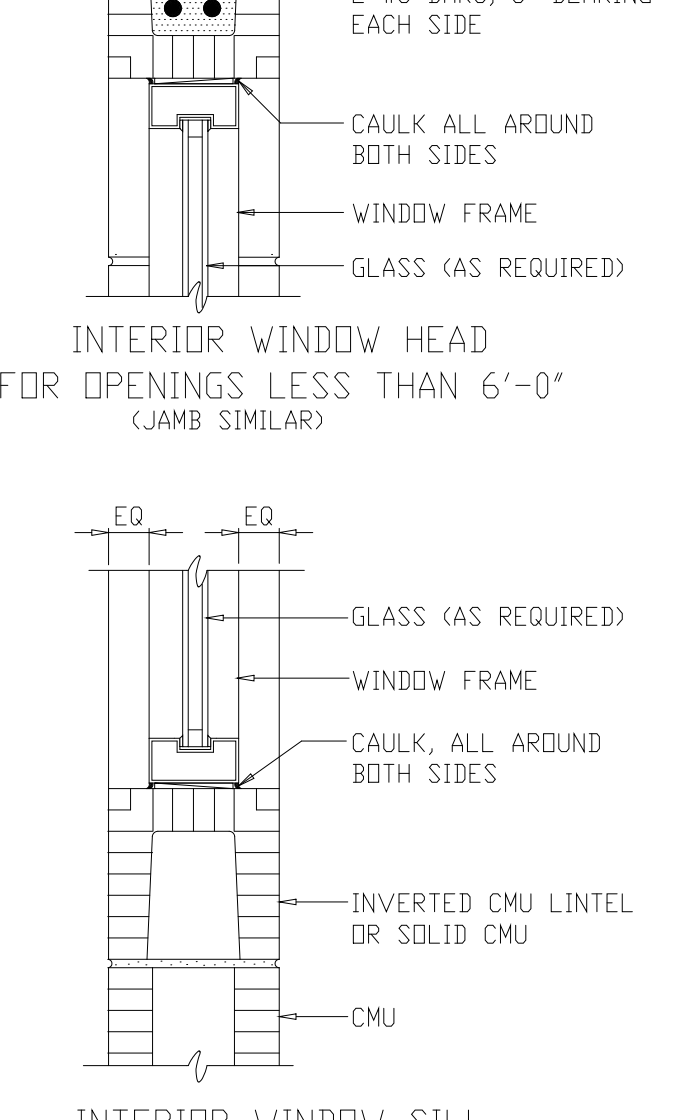
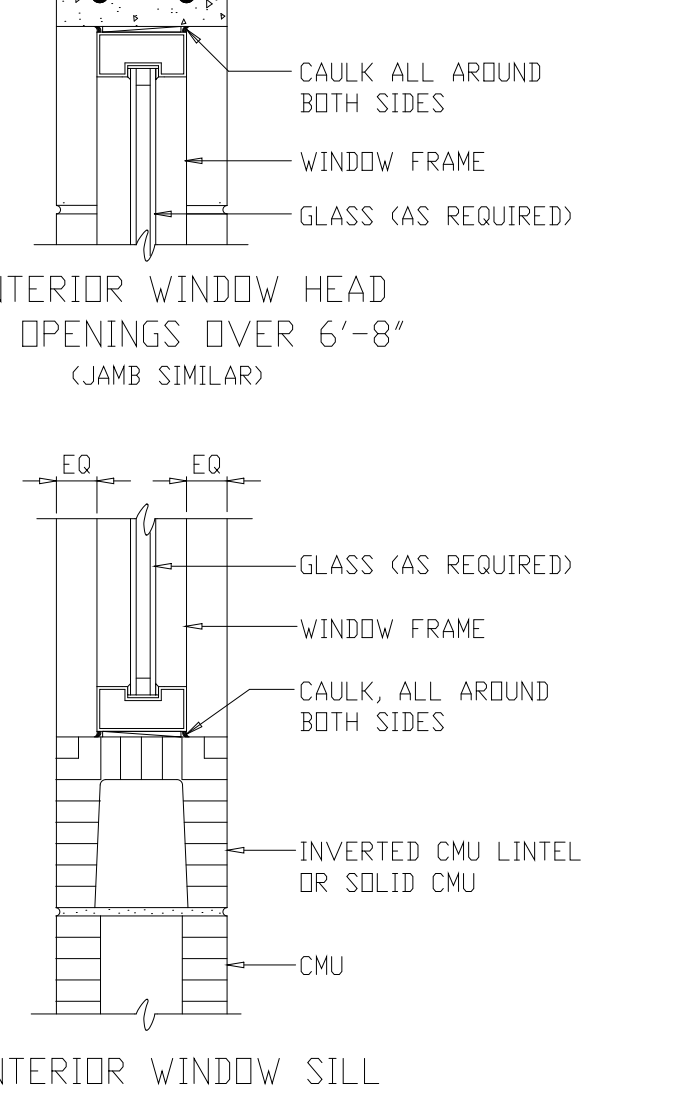
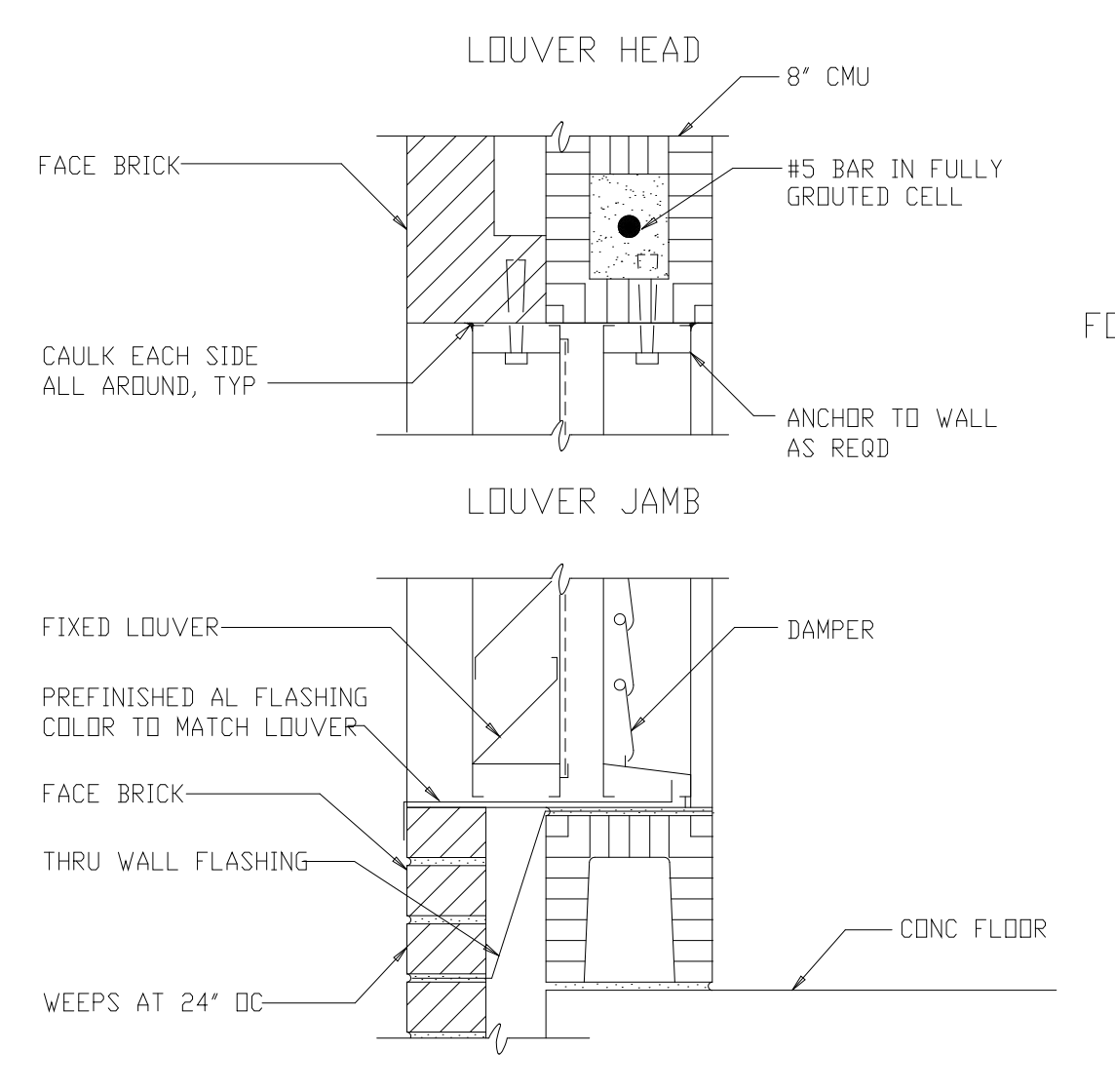
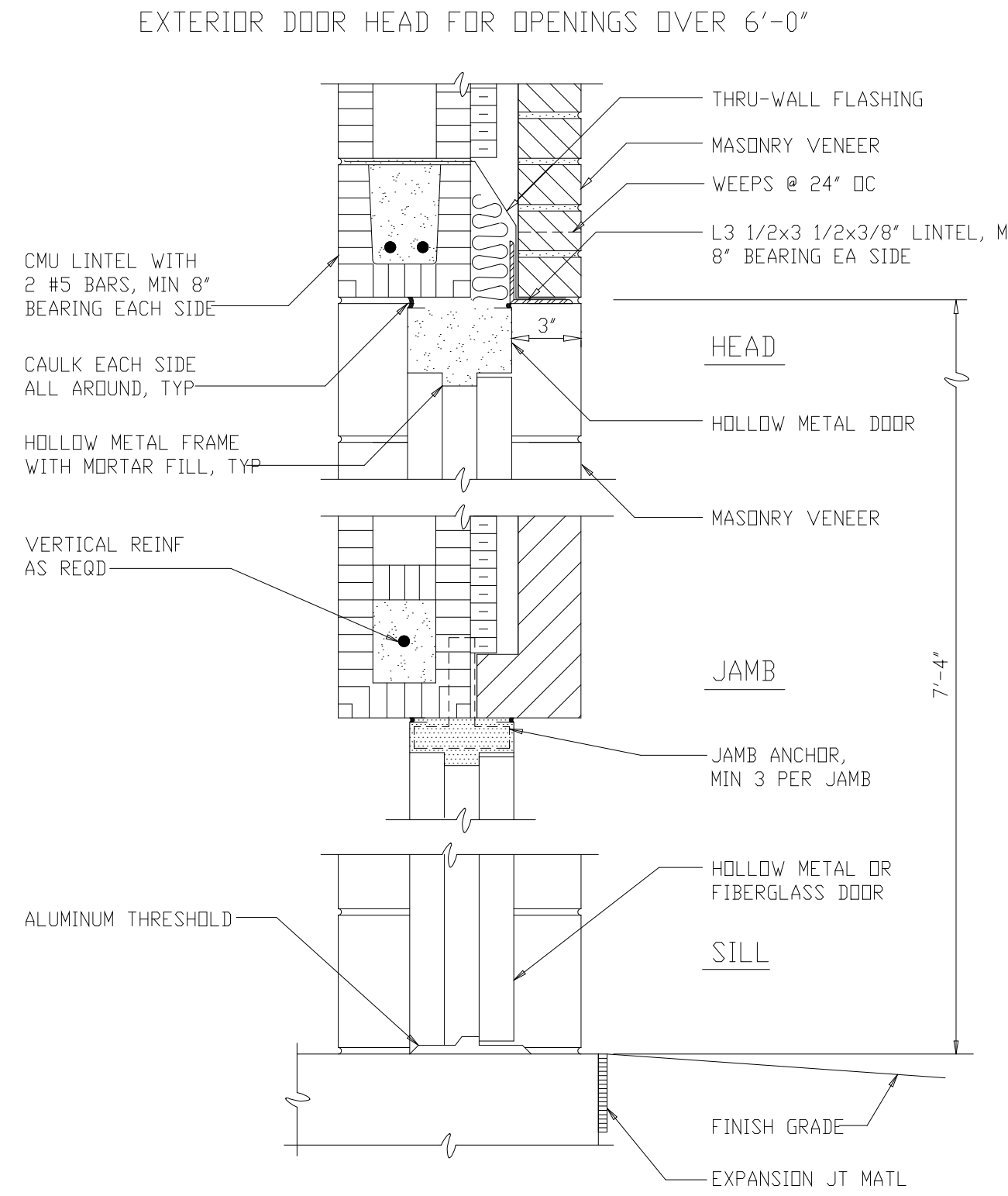
DETAIL 27
1 1/2"=1'-0"
A-201



DETAIL 29
1 1/2"=1'-0"
A-201



DETAIL 28
1 1/2"=1'-0"
A-203



TYPICAL INTERIOR DOOR OPENINGS LESS THAN 6'-0"

TYPICAL INTERIOR DOOR OPENINGS GREATER THAN 6'-0"

INTERIOR WINDOW HEAD W/ ROLLING COUNTER FIRE DOOR

EXTERIOR WINDOW HEAD FOR OPENINGS OVER 6'-0"

INTERIOR WINDOW HEAD FOR OPENINGS OVER 6'-8" (JAMB SIMILAR)

INTERIOR WINDOW HEAD FOR OPENINGS LESS THAN 6'-0" (JAMB SIMILAR)

INTERIOR WINDOW JAMB W/ ROLLING COUNTER FIRE DOOR

EXTERIOR WINDOW HEAD

LOUVER SILL

INTERIOR WINDOW SILL

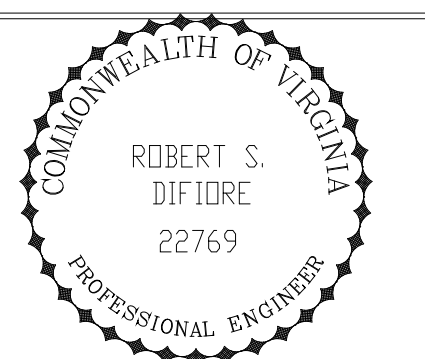
INTERIOR WINDOW SILL

INTERIOR WINDOW SILL W/ ROLLING COUNTER FIRE DOOR

EXTERIOR WINDOW SILL

RECORD DRAWING

DESIGNED	ETM
DRAWN	BRC
CHECKED	
PROJ ENGR	AB/RNC
	JJB
APPROVED	

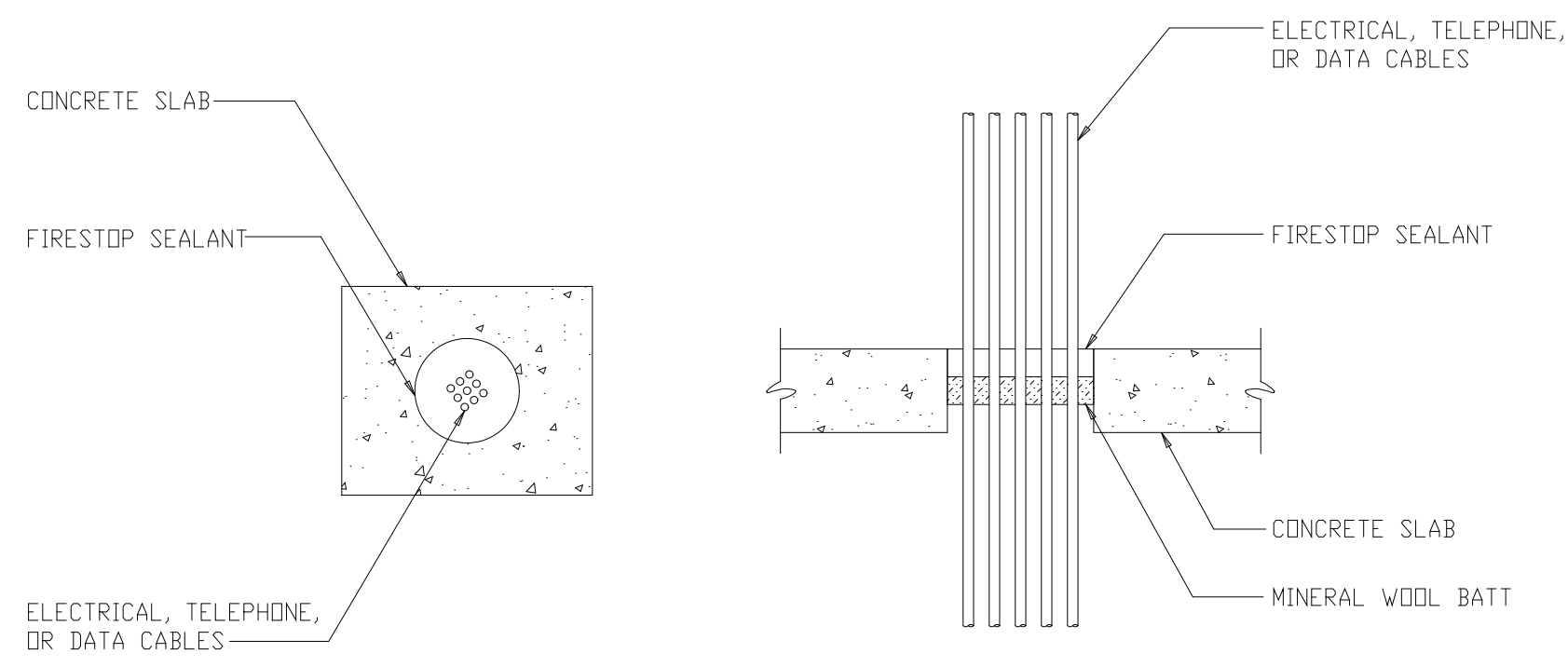


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SOLIDS PROCESSING FACILITIES

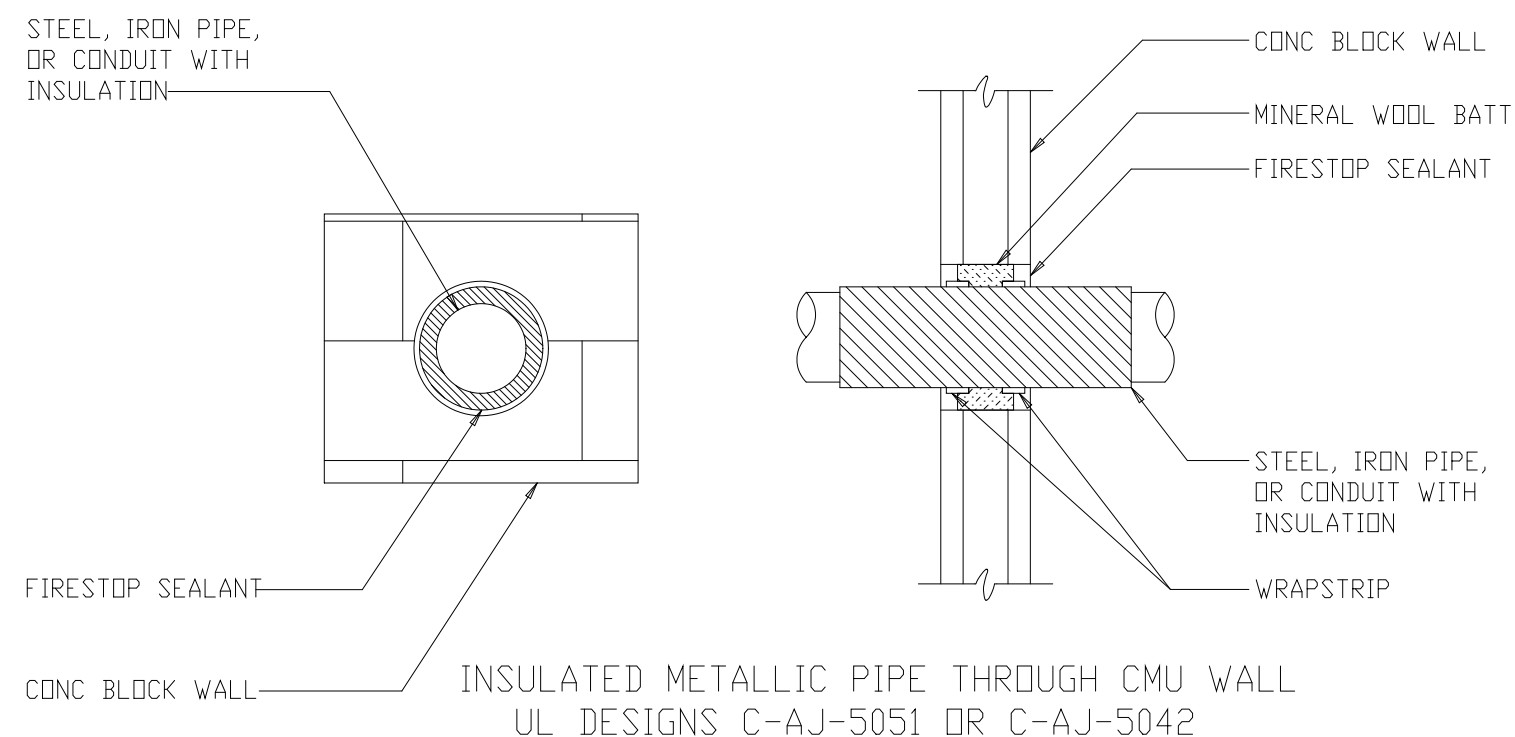
SCHEDULES AND STANDARD DETAILS
ARCHITECTURAL
TYPICAL STANDARD DETAILS
SHEET 2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT 94
	H & S JOB NUMBER	2843
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	A502
	SHEET	192 OF 199



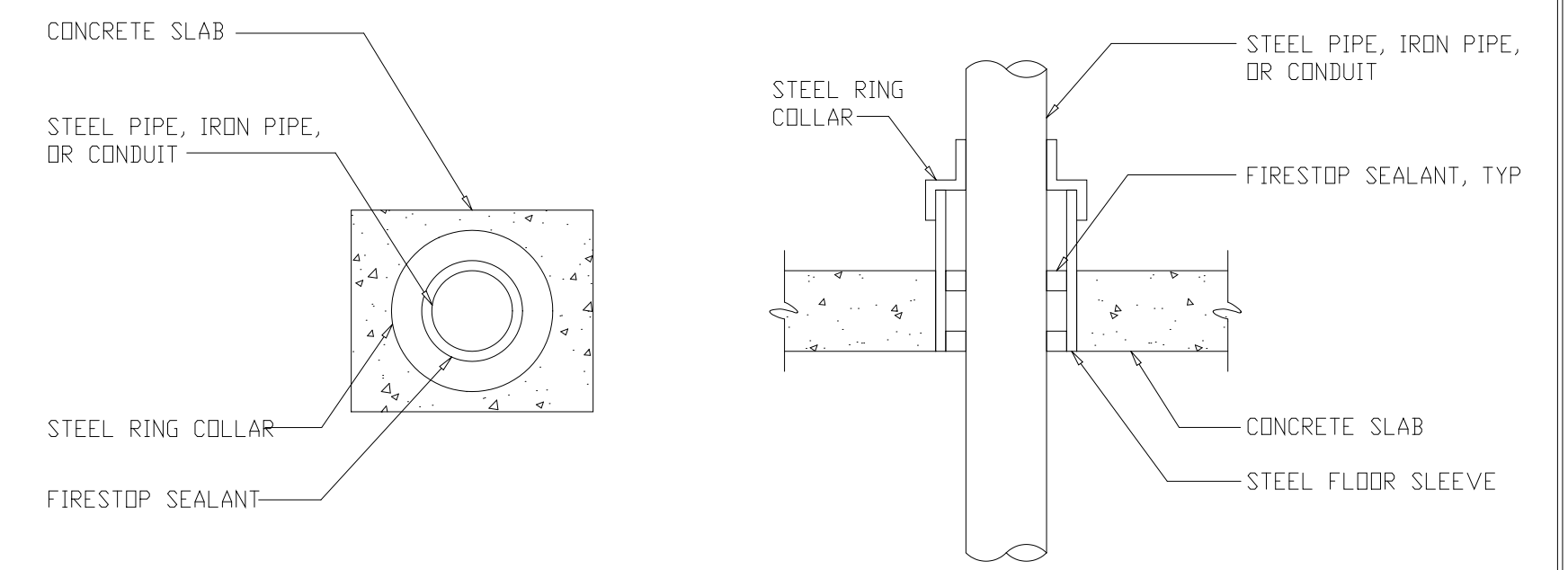
ELECTRICAL AND TELEPHONE CABLES THROUGH CONCRETE FLOOR
UL DESIGN C-AJ-3042

DETAIL	29
NTS	STD



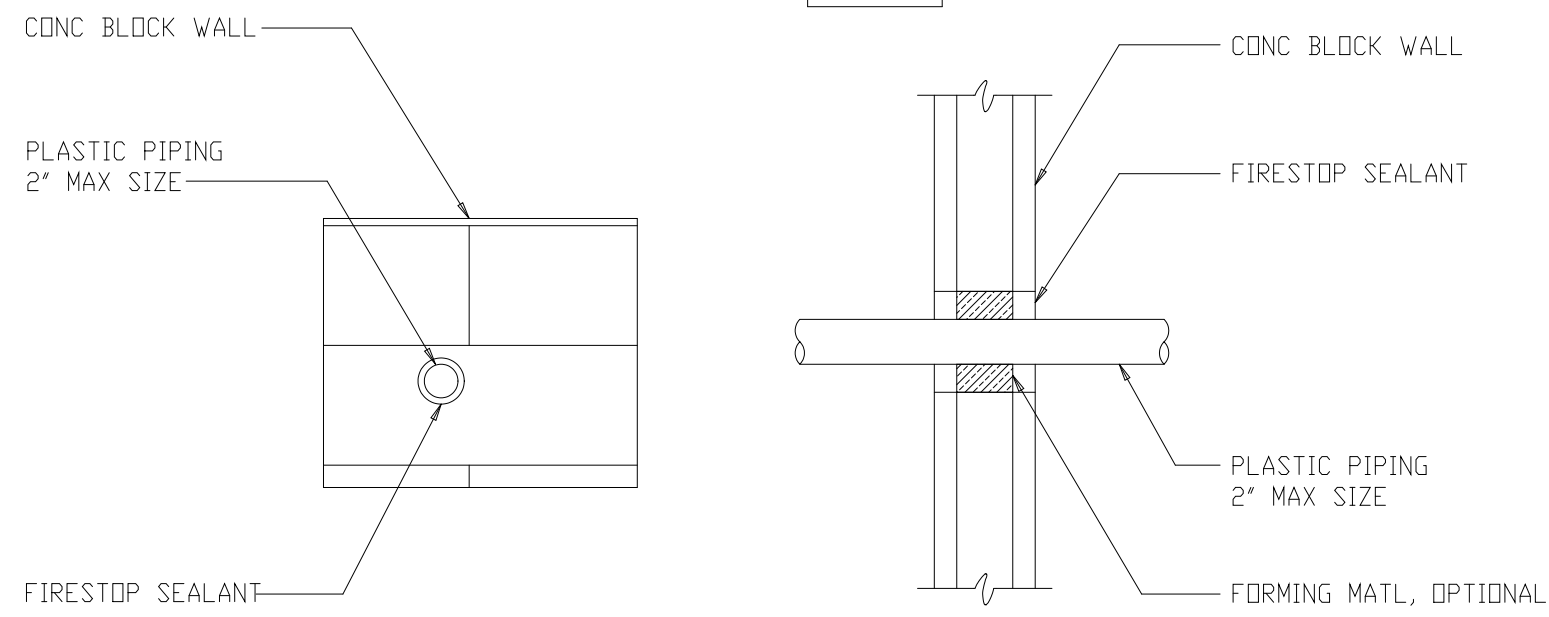
INSULATED METALLIC PIPE THROUGH CMU WALL
UL DESIGNS C-AJ-5051 OR C-AJ-5042

DETAIL	30
NTS	STD



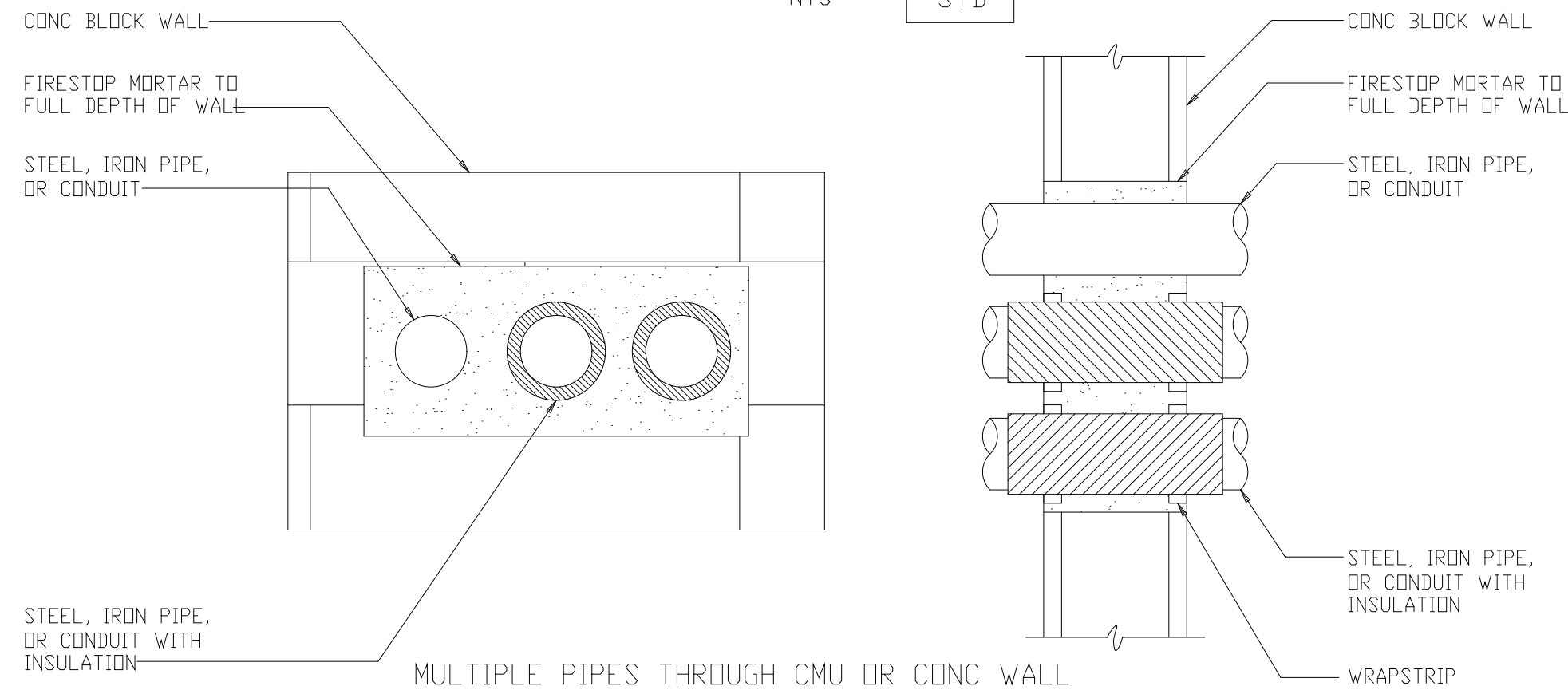
METALLIC PIPE THROUGH CONCRETE FLOOR
UL DESIGN C-AJ-1080

DETAIL	31
NTS	STD



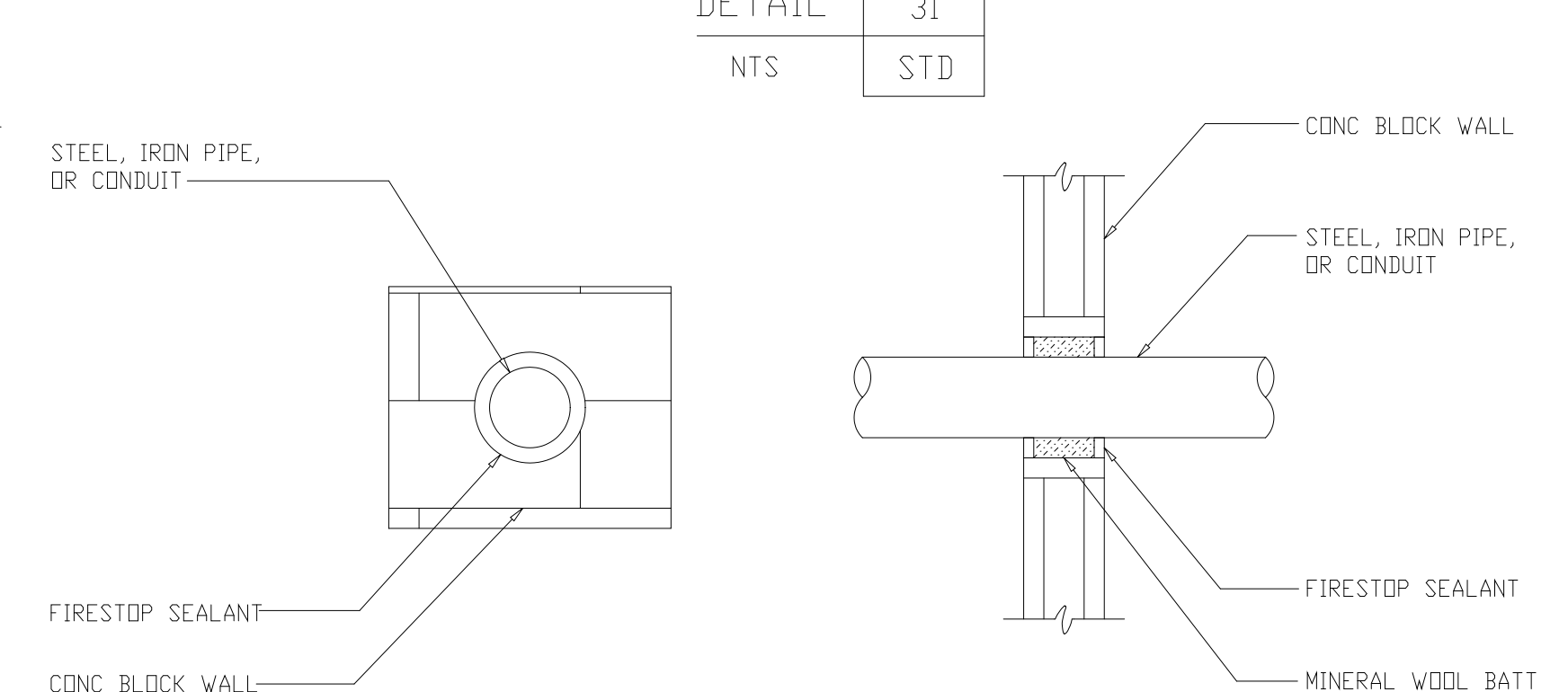
PLASTIC PIPE THROUGH CMU WALL
UL DESIGN C-AJ-2031

DETAIL	32
NTS	STD



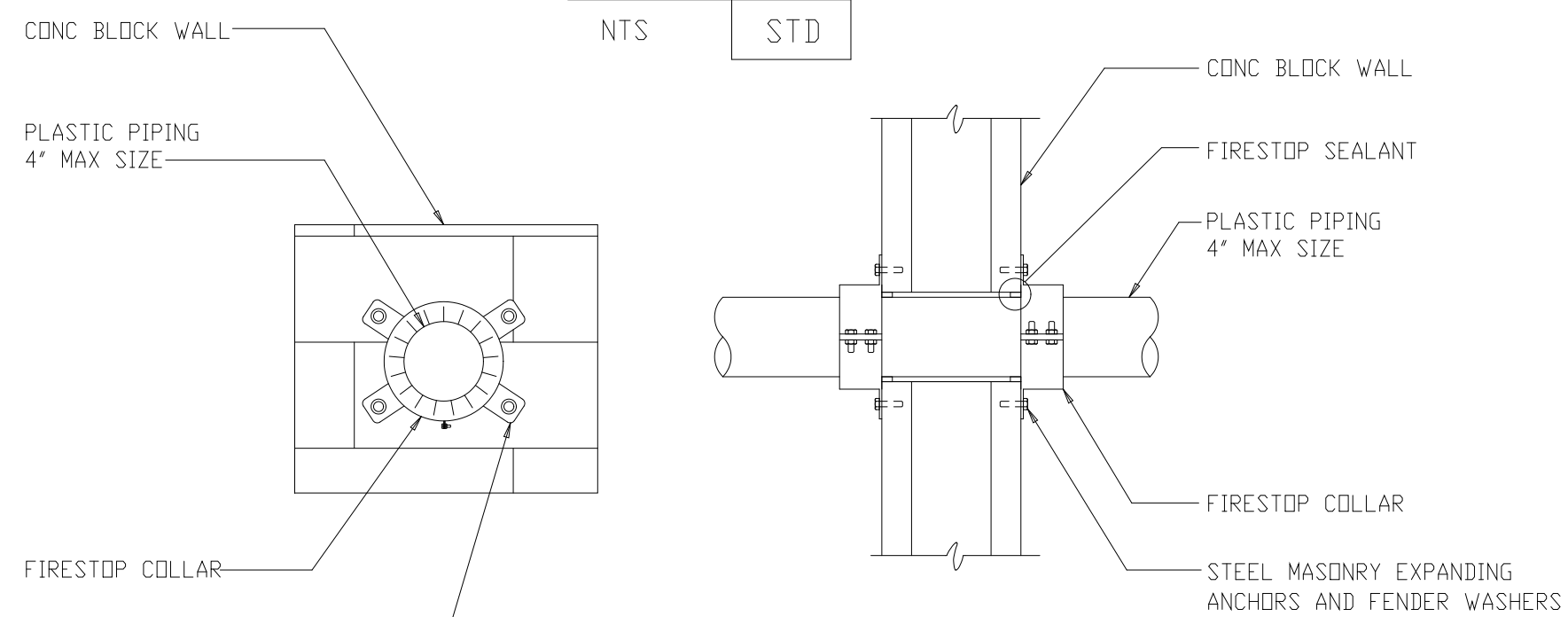
MULTIPLE PIPES THROUGH CMU OR CONC WALL
UL DESIGN C-AJ-8033

DETAIL	33
NTS	STD



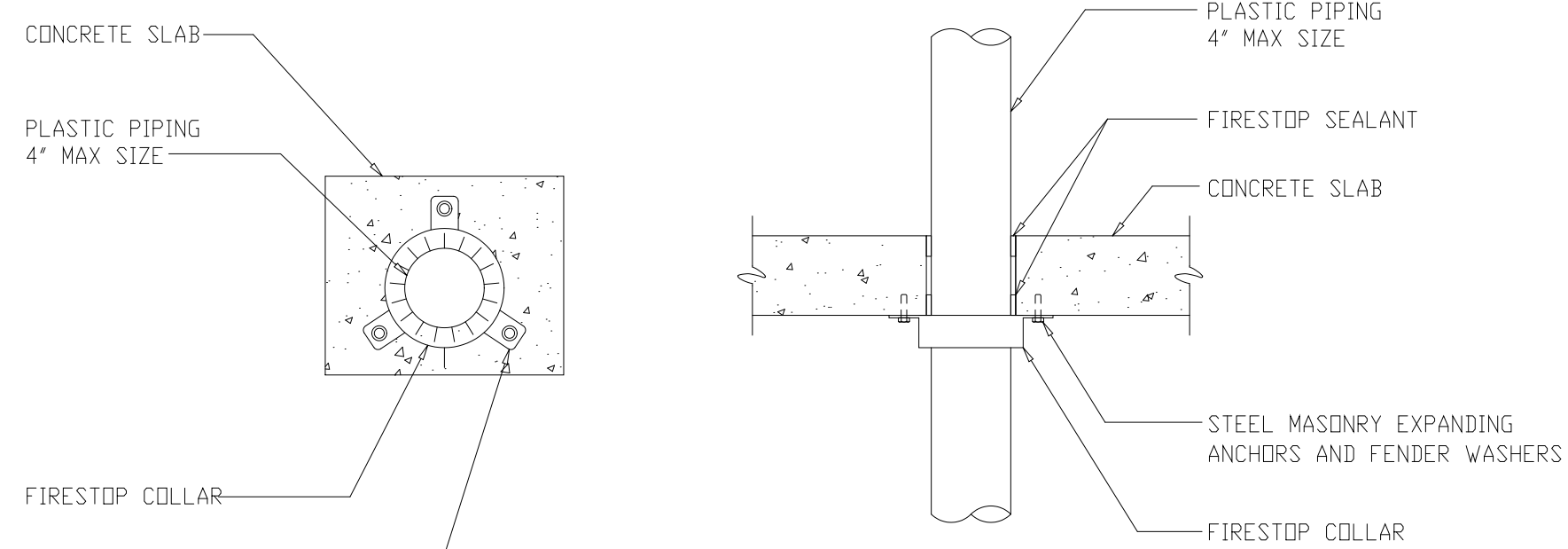
METALLIC PIPE THROUGH CMU WALL
UL DESIGN C-AJ-1079

DETAIL	34
NTS	STD



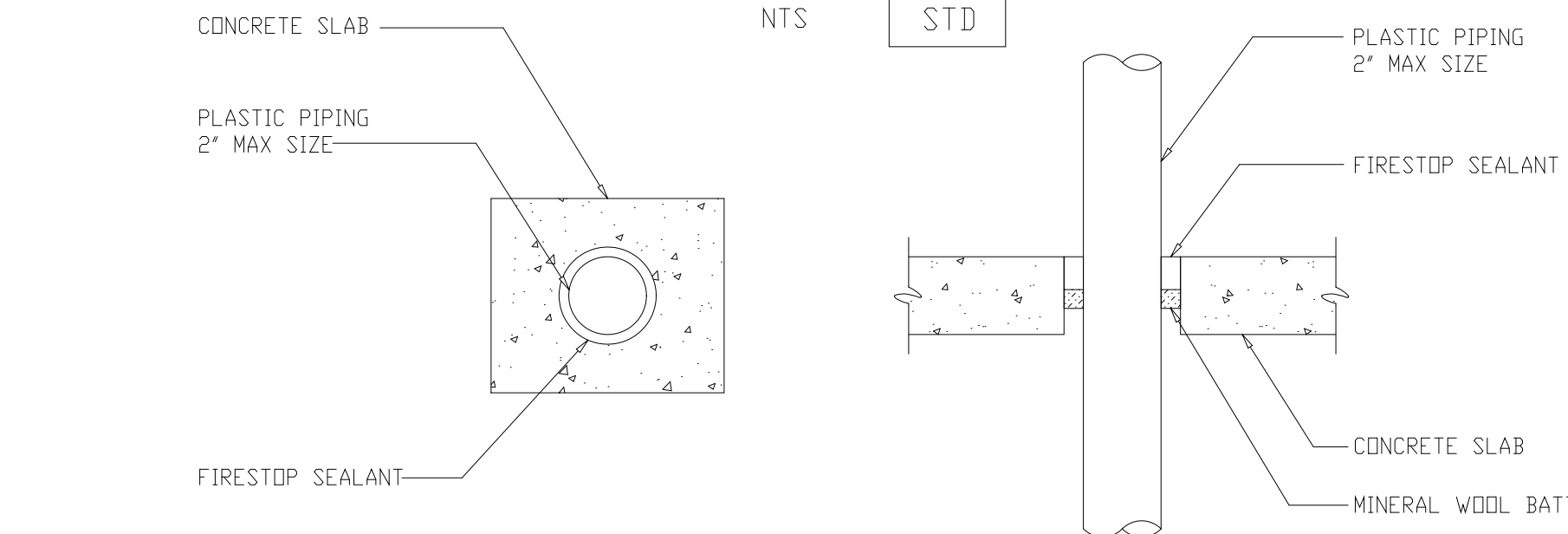
PLASTIC PIPE THROUGH CMU WALL
UL DESIGN C-AJ-2063

DETAIL	35
NTS	STD



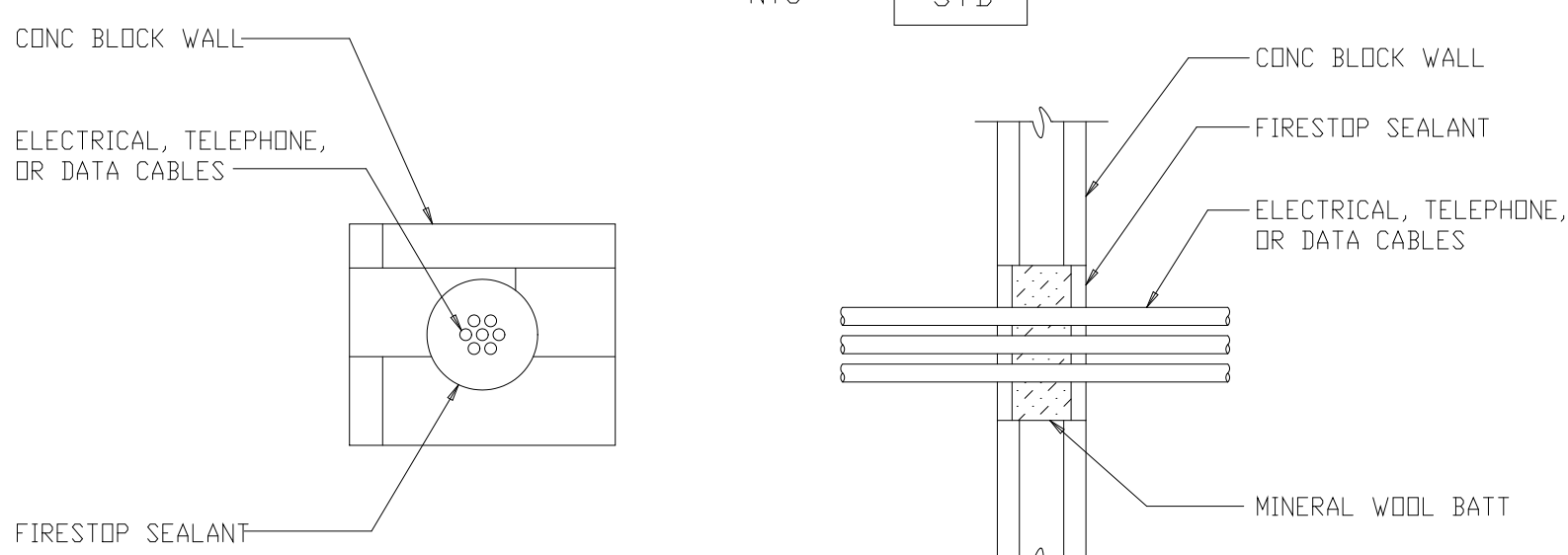
PLASTIC PIPE THROUGH CONCRETE FLOOR
UL DESIGN C-AJ-2038

DETAIL	36
NTS	STD



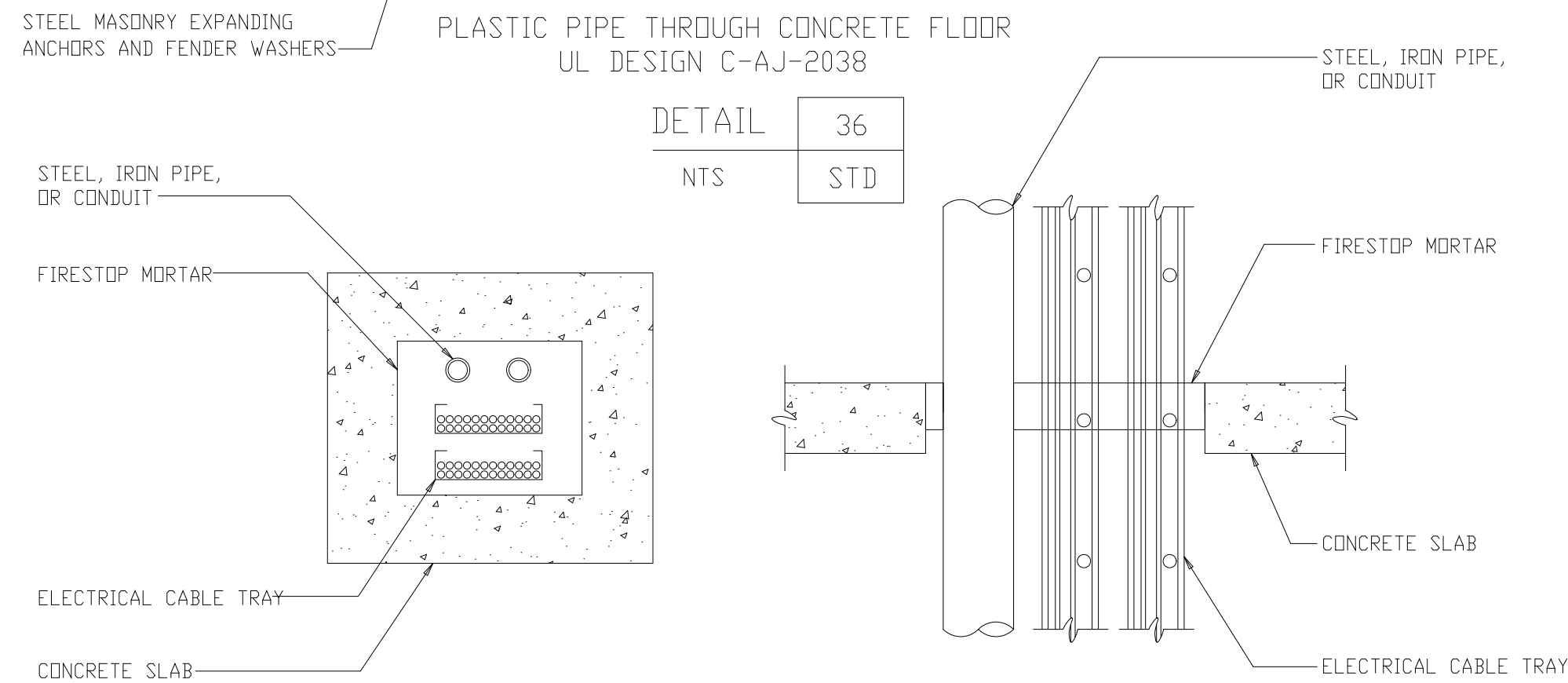
PLASTIC PIPE THROUGH CONCRETE FLOOR
UL DESIGN C-AJ-2057

DETAIL	37
NTS	STD



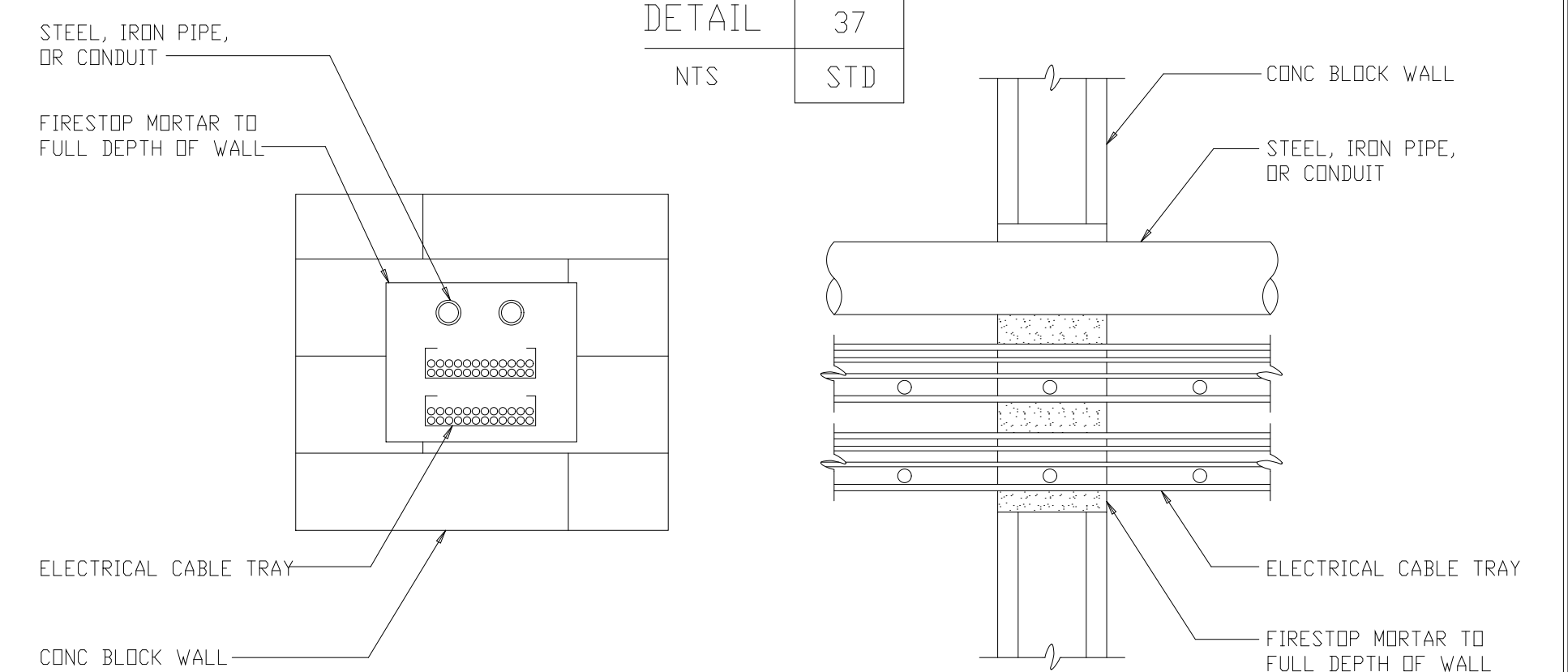
ELECTRICAL CABLES THROUGH CMU WALL
UL DESIGN C-AJ-3042

DETAIL	38
NTS	STD



MULTIPLE PIPE / CABLE TRAY THROUGH CONCRETE FLOOR
UL DESIGN C-AJ-8016

DETAIL	39
NTS	STD



MULTIPLE PIPE / CABLE TRAY THROUGH CMU WALL
UL DESIGN C-AJ-8016

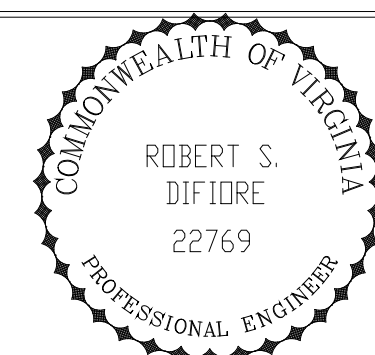
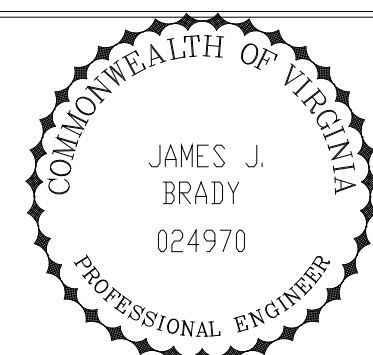
DETAIL	40
NTS	STD

RECORD DRAWING

PLOT DATE: 11/17/99 9:54am FILE: \\ns0401\csh\119\4003 by: MATTI, XREF FILE: NONE

NO.	DESCRIPTION	DATE	BY	APPROVED
3	RECORD DRAWINGS	6-99	F.X.P.	
2	CONSTRUCTION	9-94	JJB	
1	COUNTY REGULATORY APPROVAL ISSUED FOR	9-94	JJB	

DESIGNED	WHR
DRAWN	DRD
CHECKED	AAB/RNC
PROJ.ENGR.	JJB
	JJB

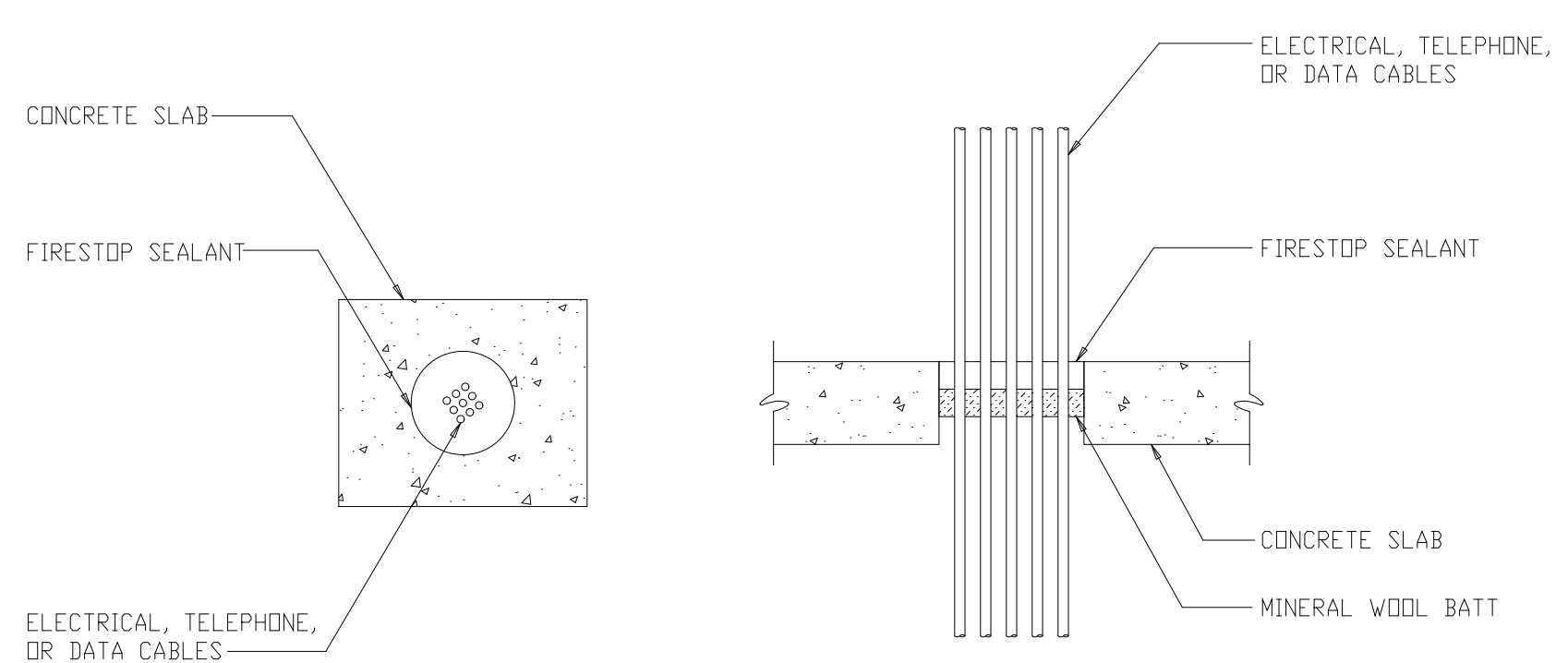


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SOLIDS PROCESSING FACILITIES

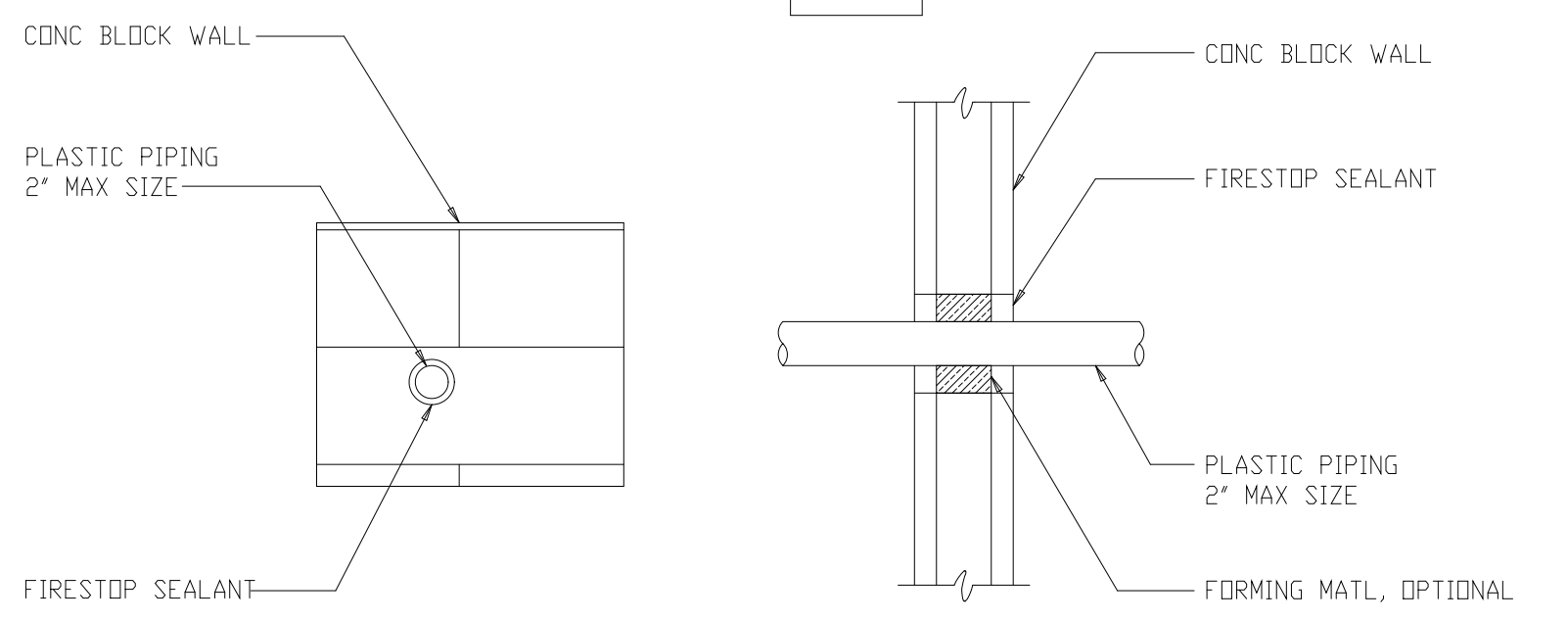
SCHEDULES AND STANDARD DETAILS
ARCHITECTURAL
FIRESTOPPING DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER A-503
	SHEET 193 OF 199



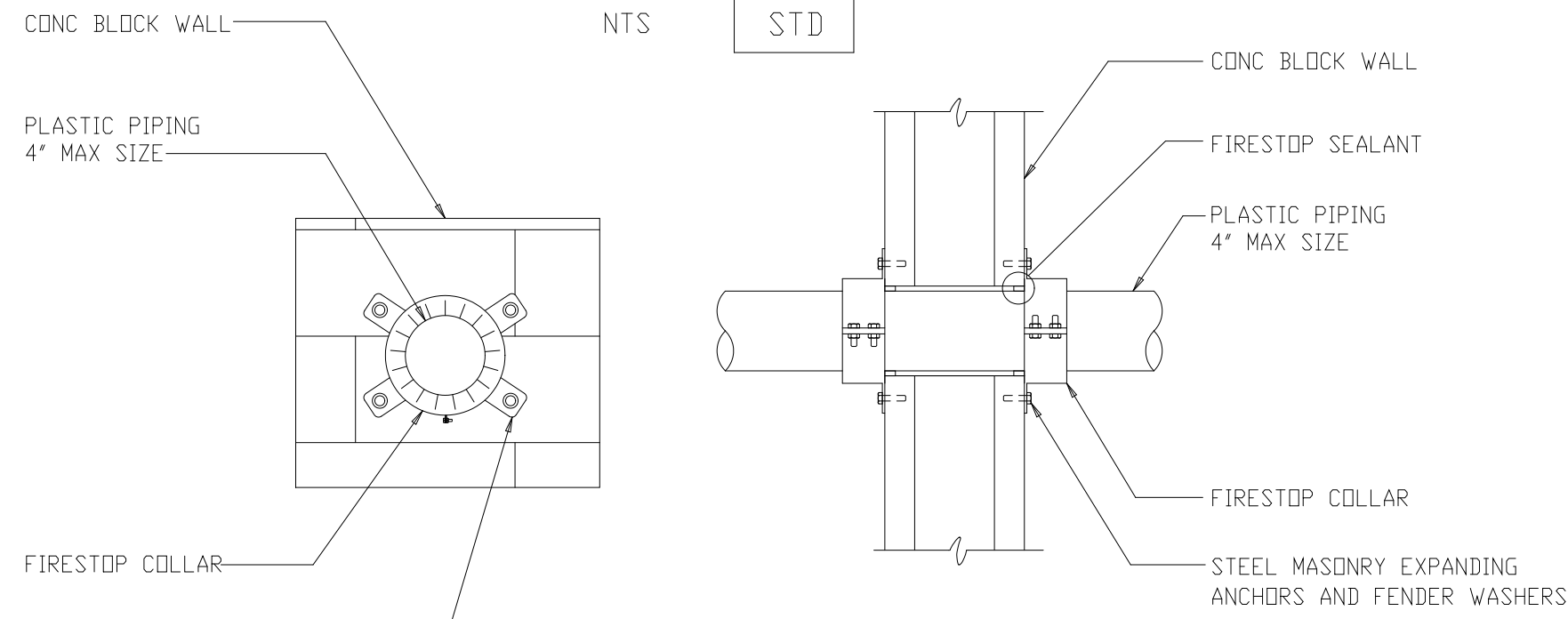
ELECTRICAL AND TELEPHONE CABLES THROUGH CONCRETE FLOOR
UL DESIGN C-AJ-3042

DETAIL	29
NTS	STD



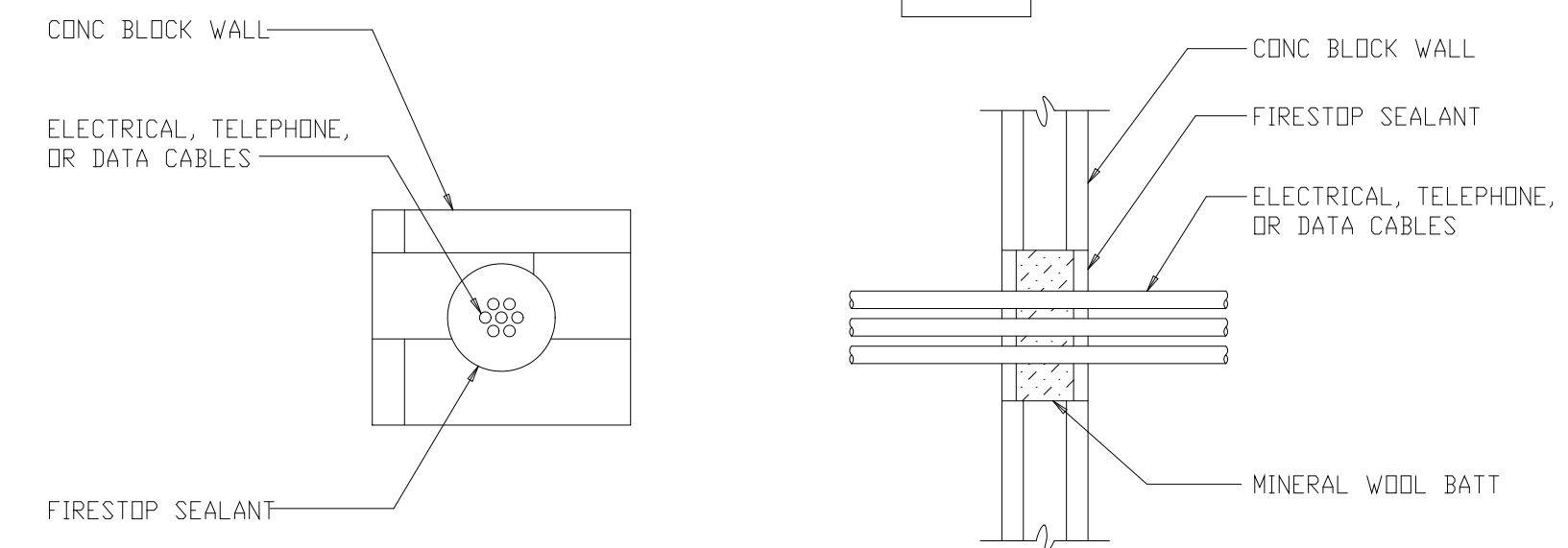
PLASTIC PIPE THROUGH CMU WALL
UL DESIGN C-AJ-2031

DETAIL	32
NTS	STD



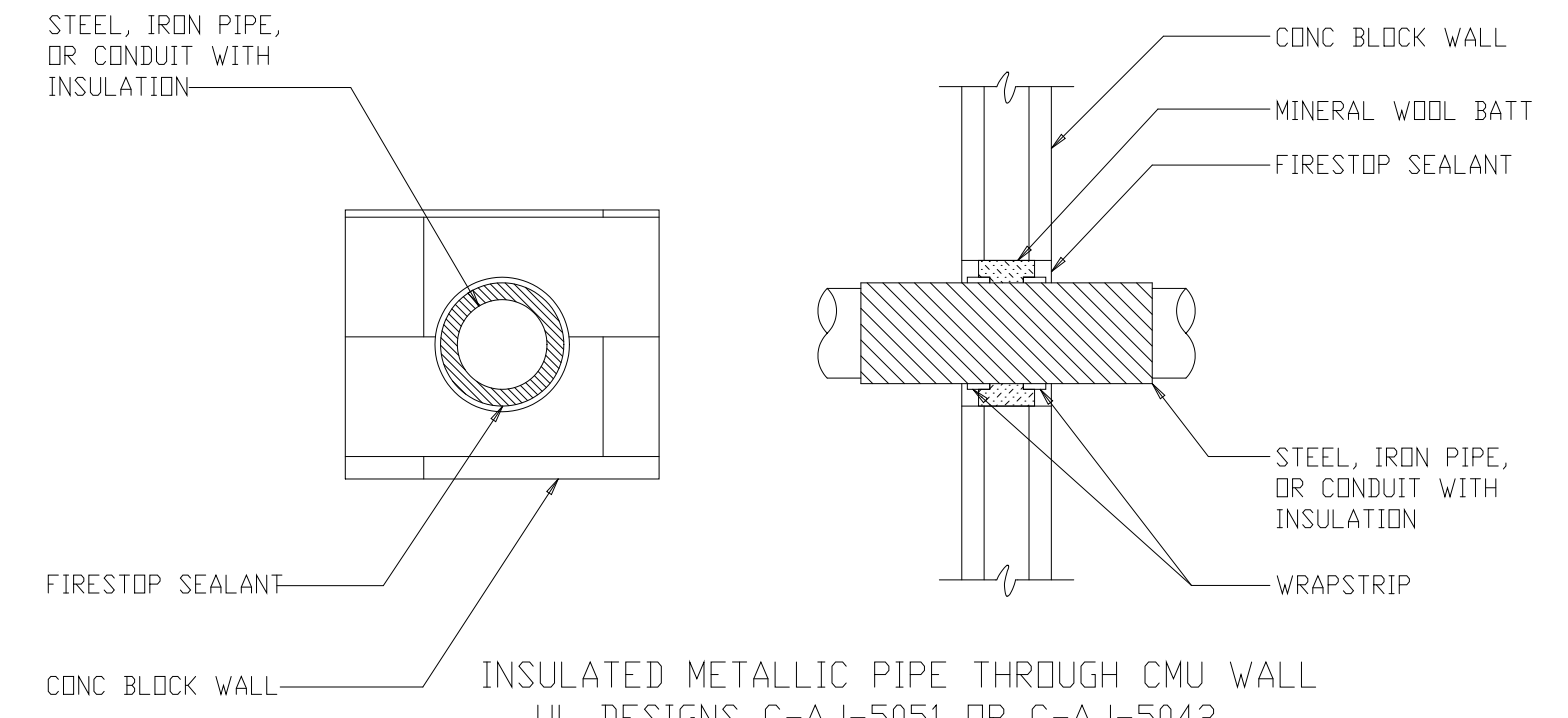
PLASTIC PIPE THROUGH CMU WALL
UL DESIGN C-AJ-2063

DETAIL	35
NTS	STD



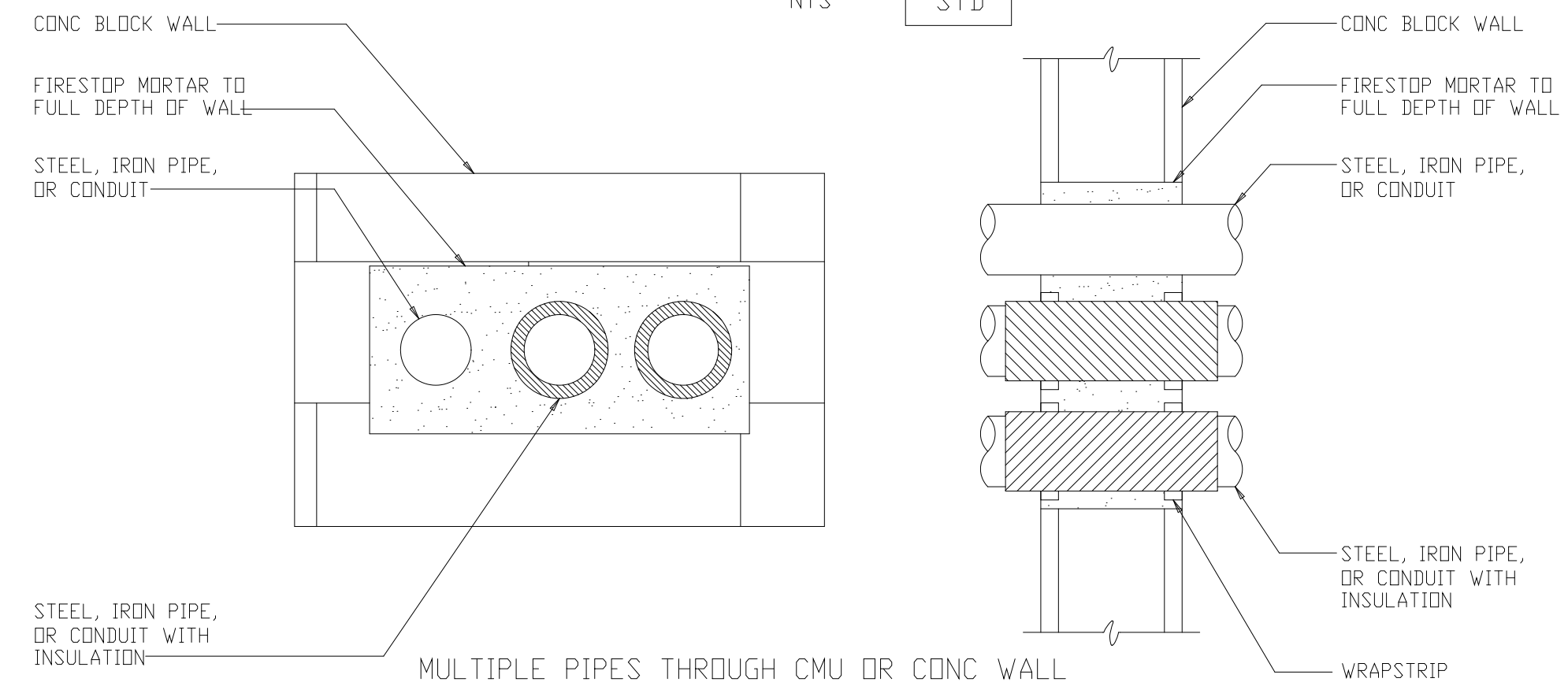
ELECTRICAL CABLES THROUGH CMU WALL
UL DESIGN C-AJ-3042

DETAIL	38
NTS	STD



INSULATED METALLIC PIPE THROUGH CMU WALL
UL DESIGNS C-AJ-5051 OR C-AJ-5042

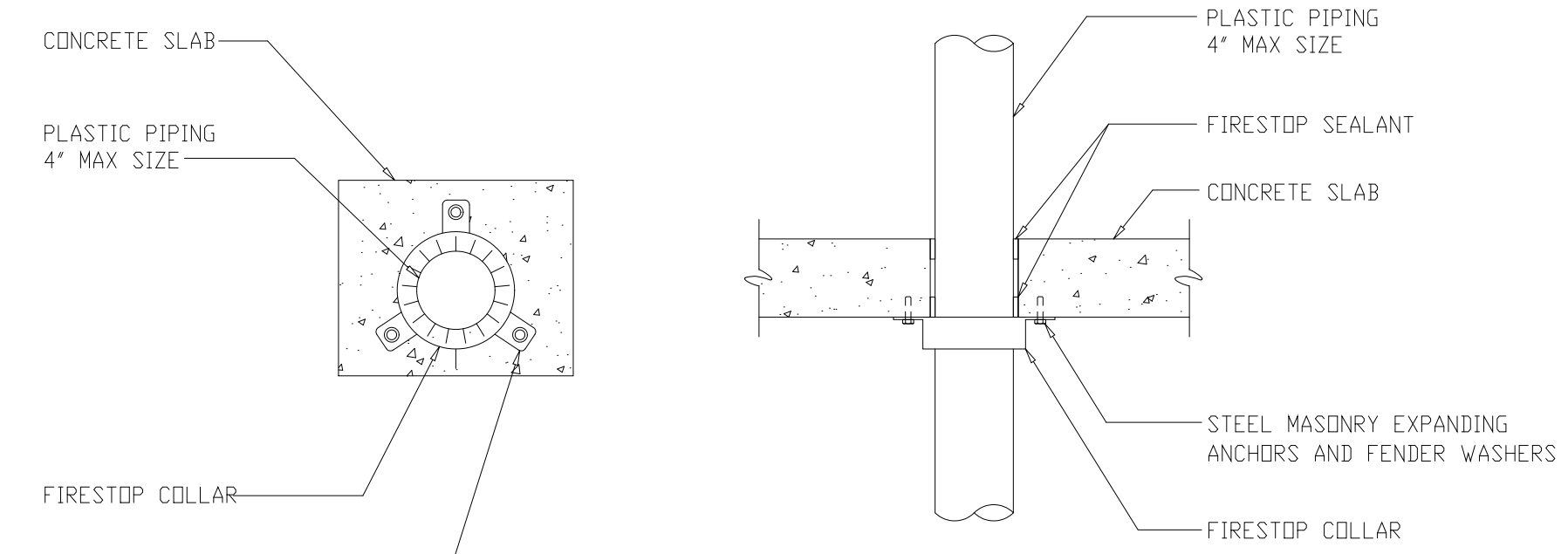
DETAIL	30
NTS	STD



MULTIPLE PIPES THROUGH CMU OR CONC WALL
UL DESIGN C-AJ-8033

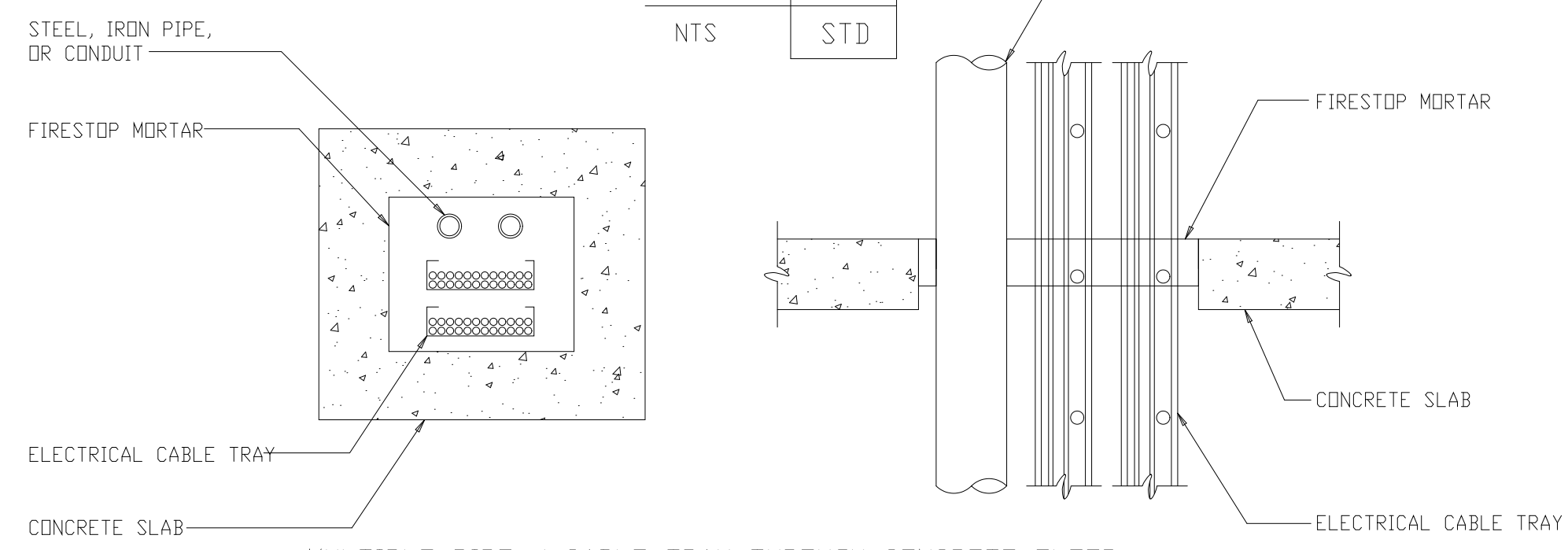
DETAIL	33
NTS	STD

NOTE: WHERE PIPES PENETRATE CONCRETE WALL FROM TUNNEL, USE UL APPROVED SEAL BAGS BY FLAMESAFE OR EQUAL



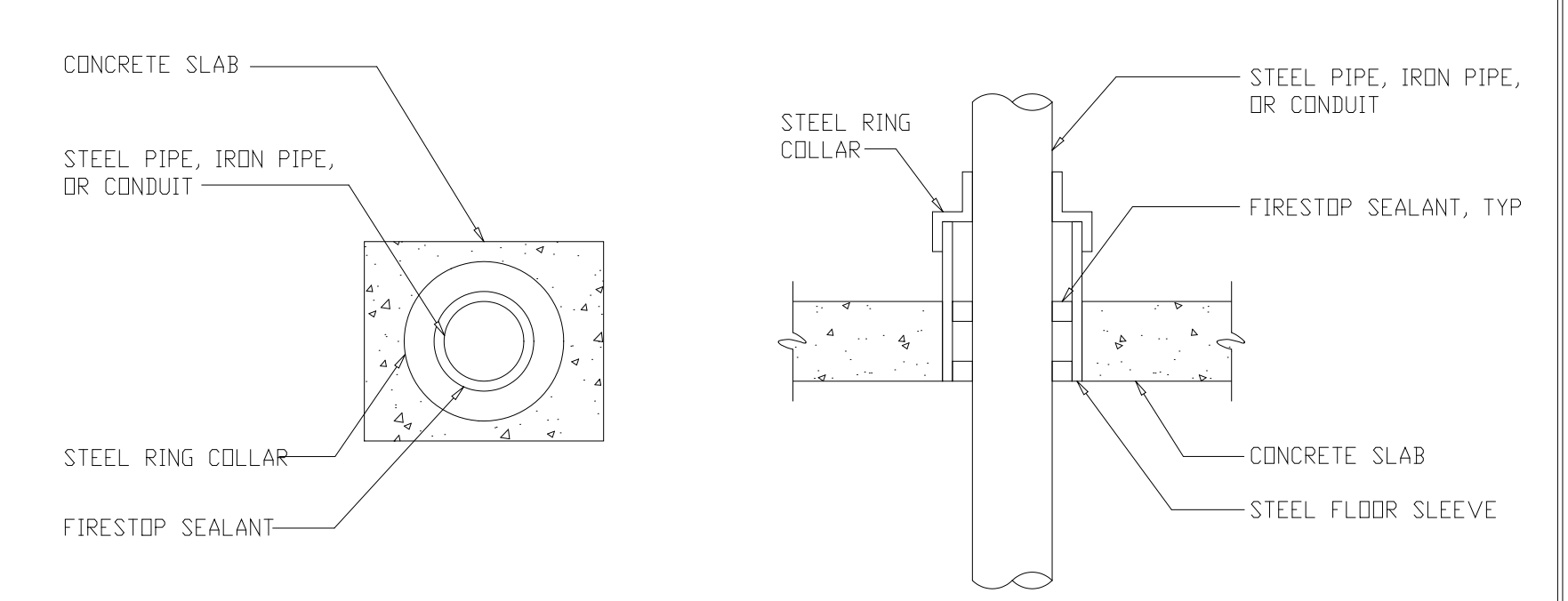
PLASTIC PIPE THROUGH CONCRETE FLOOR
UL DESIGN C-AJ-2038

DETAIL	36
NTS	STD



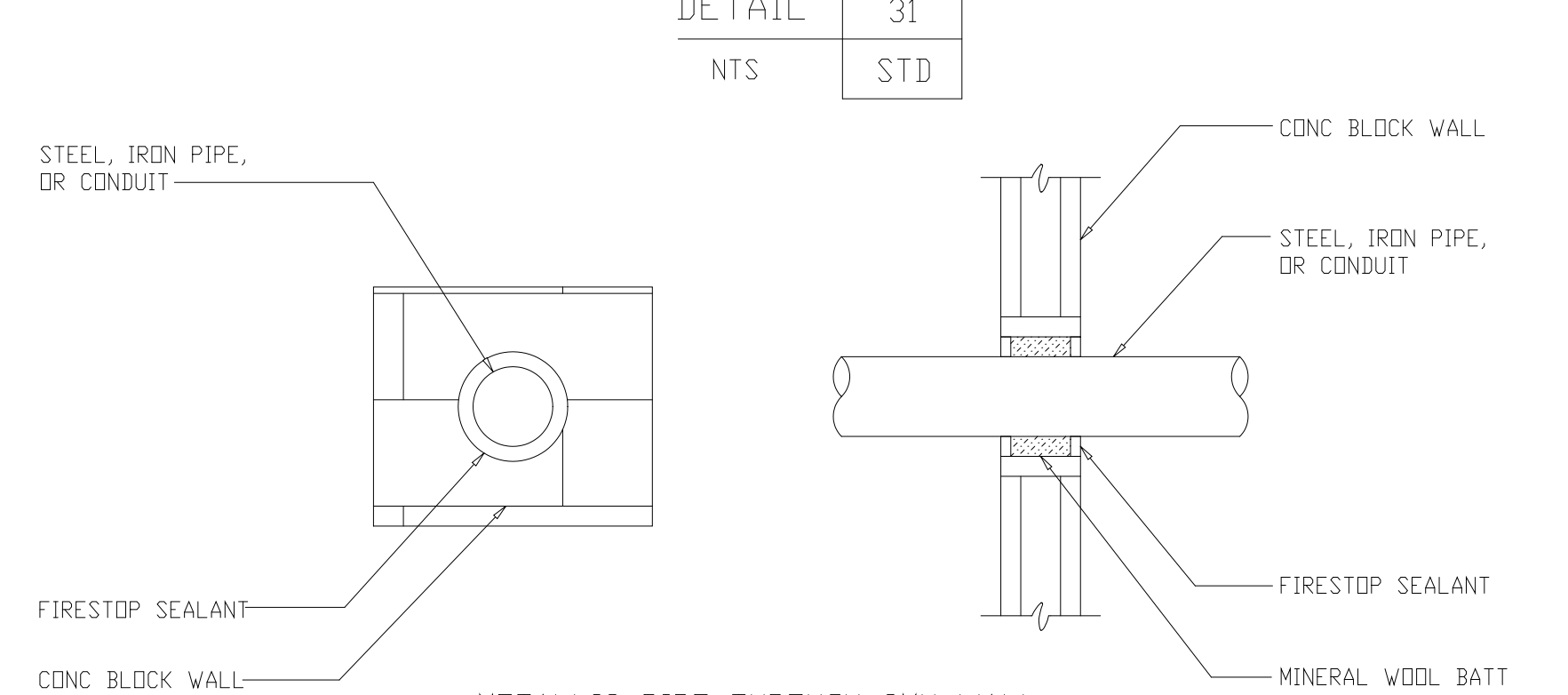
MULTIPLE PIPE / CABLE TRAY THROUGH CONCRETE FLOOR
UL DESIGN C-AJ-8016

DETAIL	39
NTS	STD



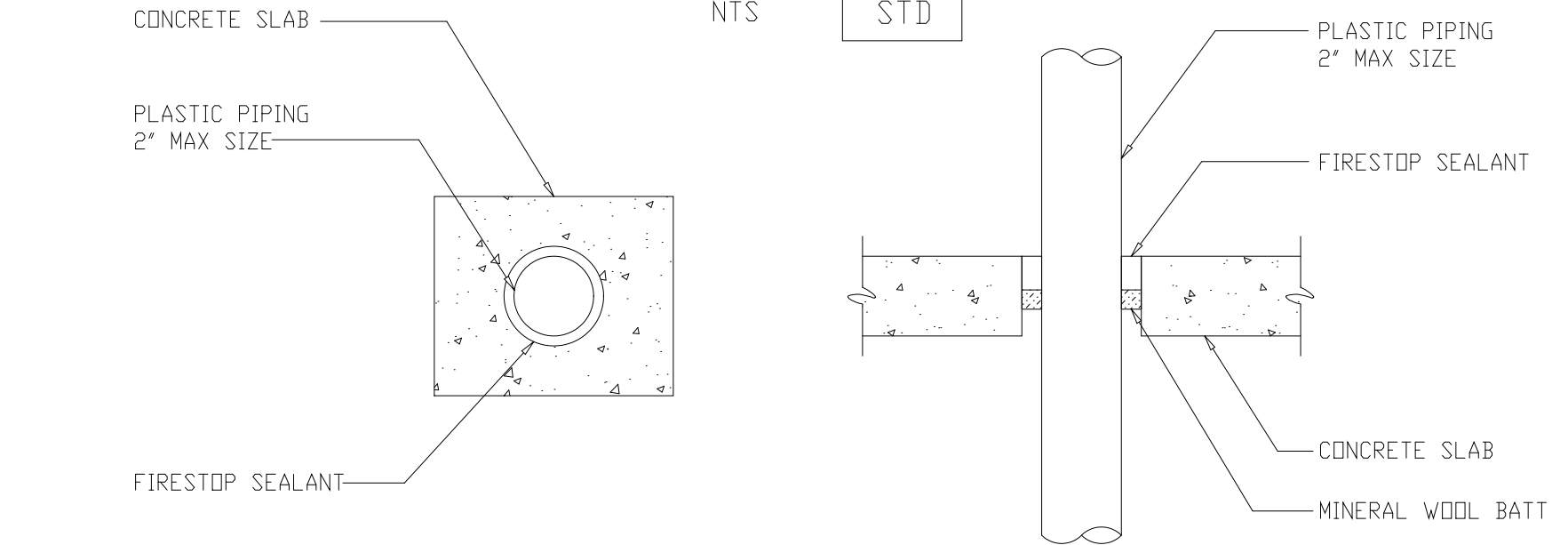
METALLIC PIPE THROUGH CONCRETE FLOOR
UL DESIGN C-AJ-1080

DETAIL	31
NTS	STD



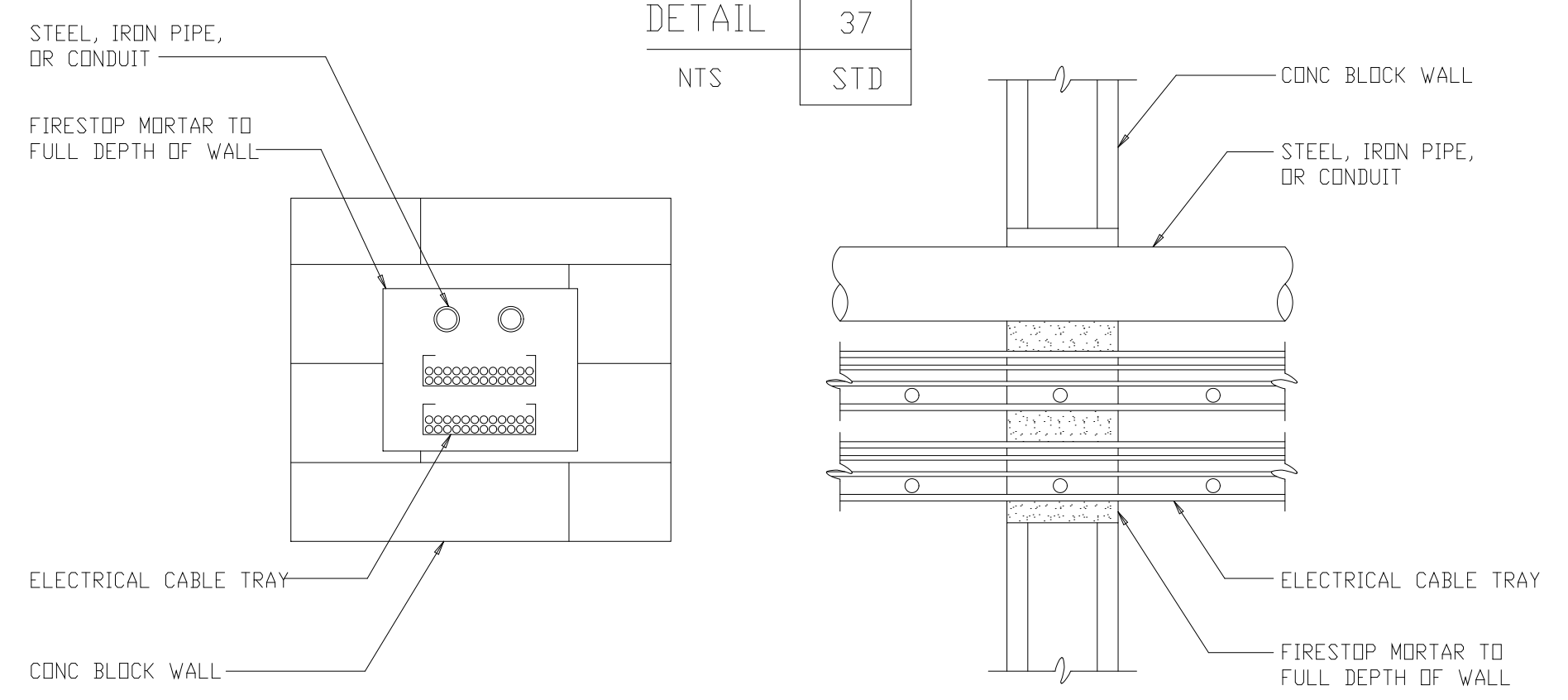
METALLIC PIPE THROUGH CMU WALL
UL DESIGN C-AJ-1079

DETAIL	34
NTS	STD



PLASTIC PIPE THROUGH CONCRETE FLOOR
UL DESIGN C-AJ-2057

DETAIL	37
NTS	STD



MULTIPLE PIPE / CABLE TRAY THROUGH CMU WALL
UL DESIGN C-AJ-8016

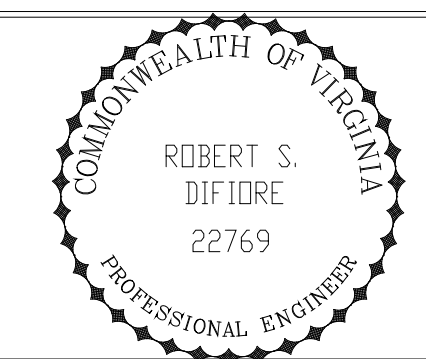
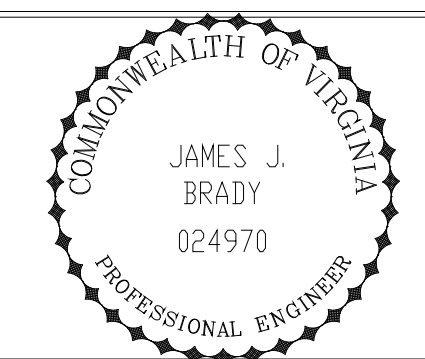
DETAIL	40
NTS	STD

RECORD DRAWING

PLOT DATE: 11/17/99 10:58am FILE: H:\9302\DWG\193-A-503.dwg by: MHTS

NO.	DESCRIPTION	DATE	BY	APPROVED
3	RECORD DRAWINGS	6-99	F.X.P.	
2	CONSTRUCTION	9-94	JJB	
1	COUNTY REGULATORY APPROVAL ISSUED FOR	9-94	JJB	

DESIGNED	WHR
DRAWN	DRD
CHECKED	AAB/RNC
PROJ.ENGR.	JJB
	JJB



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Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

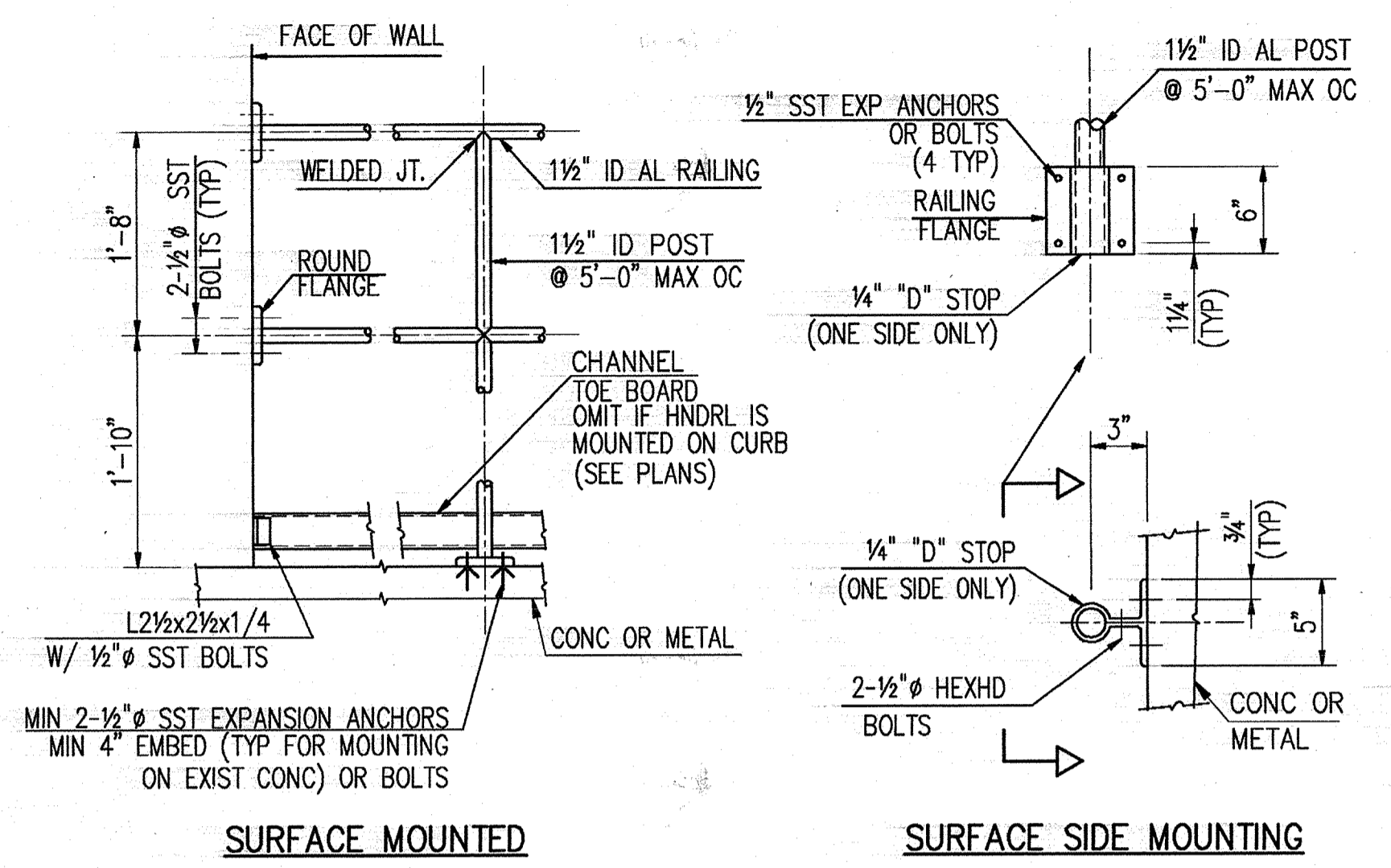
ARLINGTON COUNTY
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

SCHEDULES AND STANDARD DETAILS
ARCHITECTURAL
FIRESTOPPING DETAILS

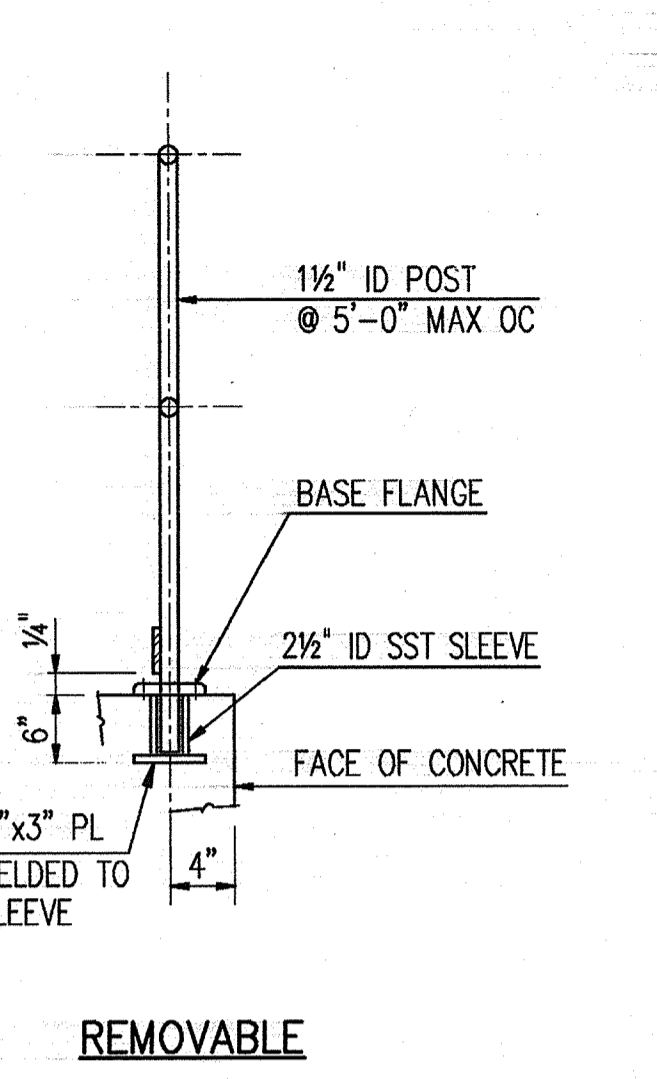
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 2843
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER A-503
	SHEET 193 OF 199

STRUCTURAL STEEL NOTES

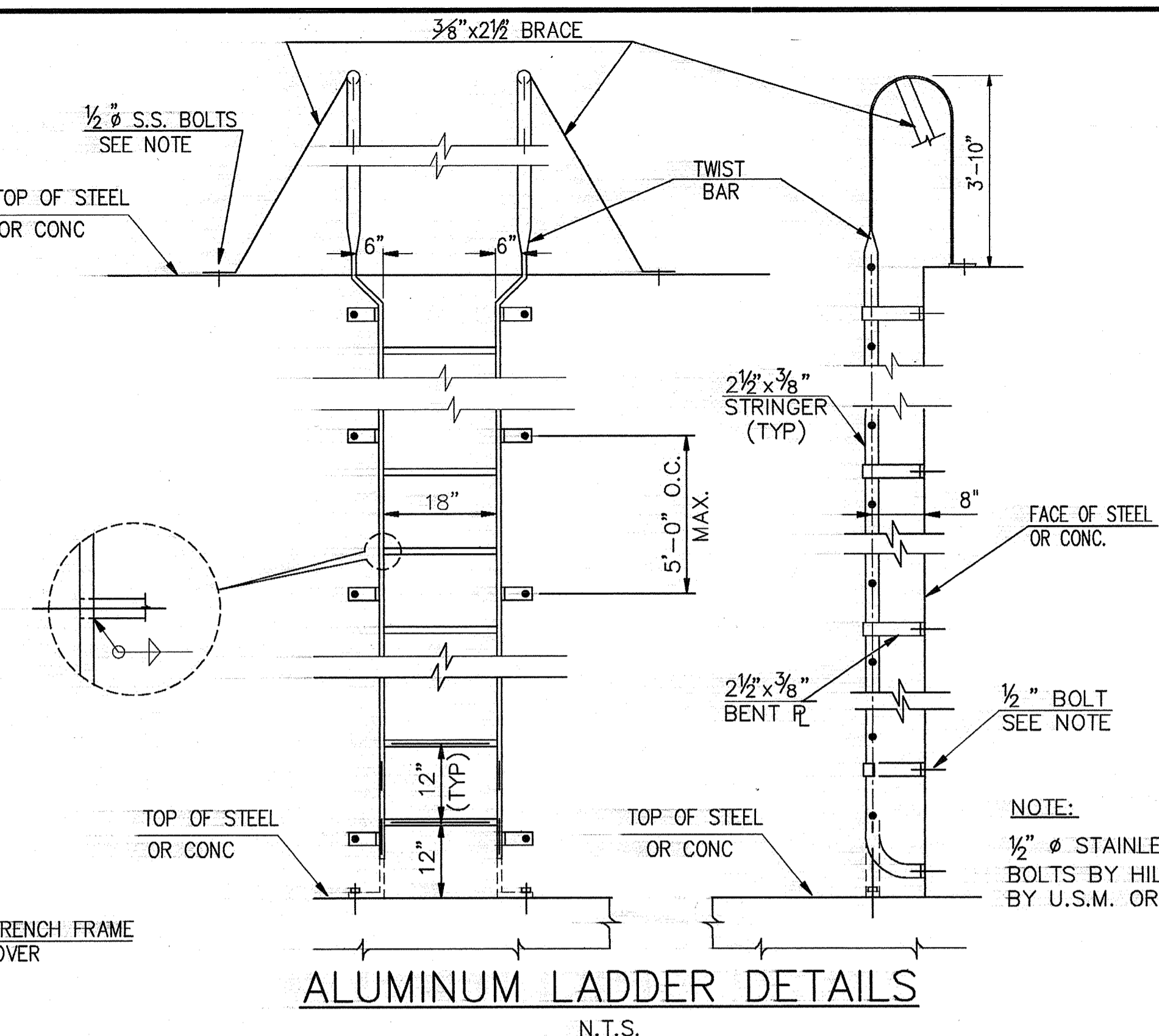
1. ALL STRUCTURES AND MISCELLANEOUS IRON SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH A.I.S.C. (LATEST EDITION) "SPECIFICATION FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE SPECIFICATION FOR THE ASSEMBLY". STRUCTURAL JOINTS USING ASTM A325 OR A490".
2. ALL STRUCTURAL STEEL DESIGNED IN ACCORDANCE WITH ABOVE A.I.S.C. SPECIFICATIONS, TYPE I AND TYPE II CONSTRUCTION.
3. SHOP CONNECTIONS - SHOP WELDING.
4. FIELD CONNECTIONS - SHALL BE HIGH STRENGTH (H.S.) STEEL BOLTS
 - a. CONNECTIONS OF BEAMS AND GIRDERS TO COLUMNS.
 - b. CONNECTIONS OF ALL MEMBERS FORMING PART OF THE BRACING SYSTEM OF THE STRUCTURE, INCLUDING MAIN MEMBERS USED AS STRUTS OR TIES IN THE BRACING SYSTEM.
 - c. SPLICES AND MONORAIL BEAM CONNECTIONS.
 - d. OTHER CONNECTIONS SPECIFICALLY INDICATED ON DWGS.
5. WHERE BRACING MEMBERS OR HANGERS ARE BOLTED TO THE BOTTOM FLANGES OF BEAMS, BOLTS SHALL BE PLACED SO THAT ONLY ONE HOLE OCCURS IN ANY CROSS SECTION OF THE BEAM, UNLESS OTHERWISE SHOWN.
6. GUSSET PLATES SHALL HAVE A MINIMUM THICKNESS OF 5/16".
7. ALL CONNECTIONS SHALL BE DESIGNED FOR THE MINIMUM LOADS GIVEN UNDER "FRAMED BEAM CONNECTIONS" IN TABLE II OF THE A.I.S.C. SPECIFICATIONS OR LOADS SHOWN ON THE PLANS, WHICHEVER IS GREATER. USE TYPE N OR X UNLESS NOTED OTHERWISE.
8. ALL MATERIAL TO BE A-36 UNLESS NOTED OTHERWISE.



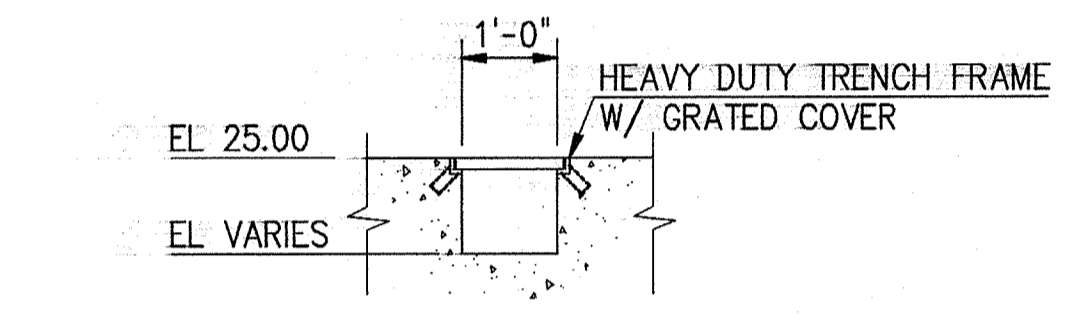
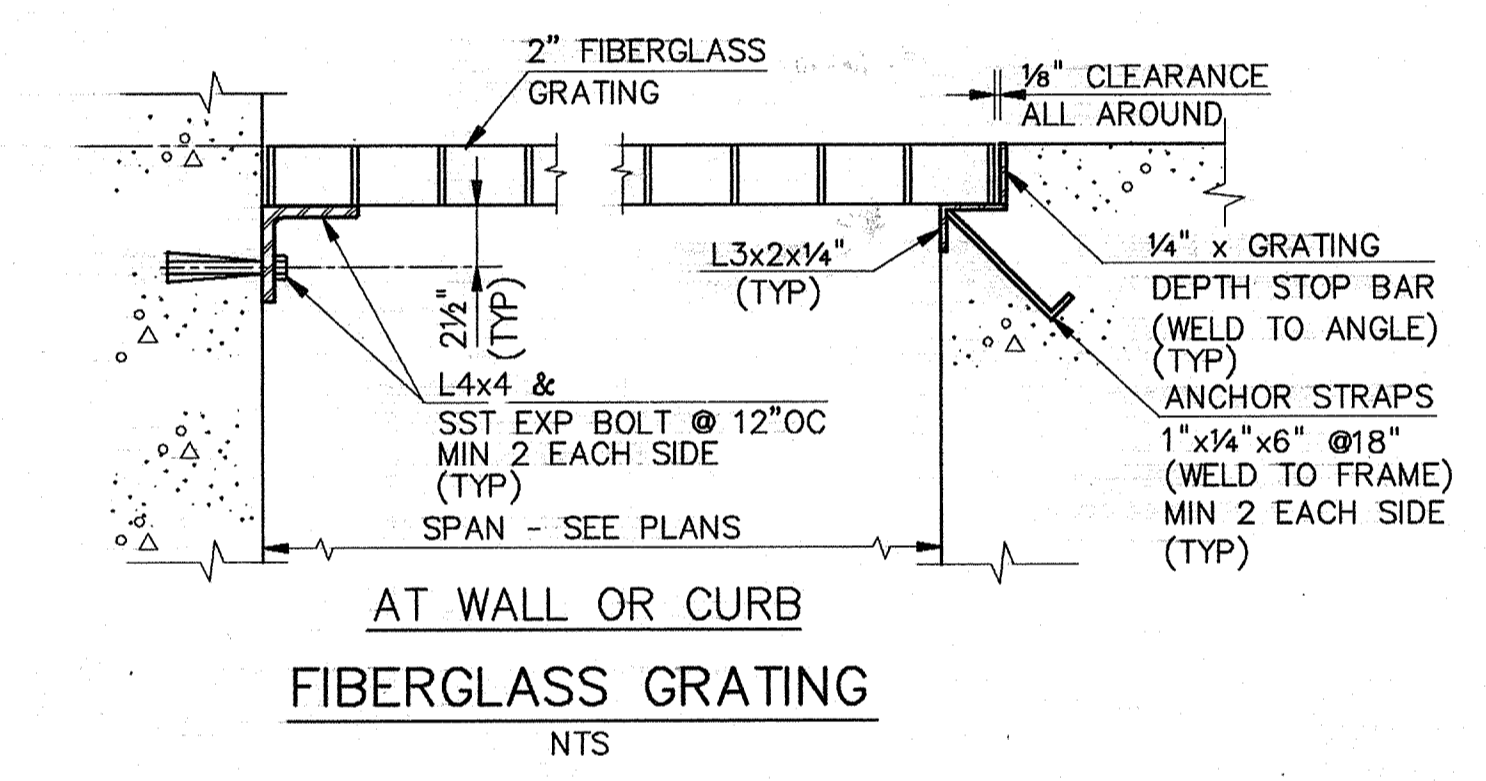
HANDRAIL DETAILS
N.T.S.



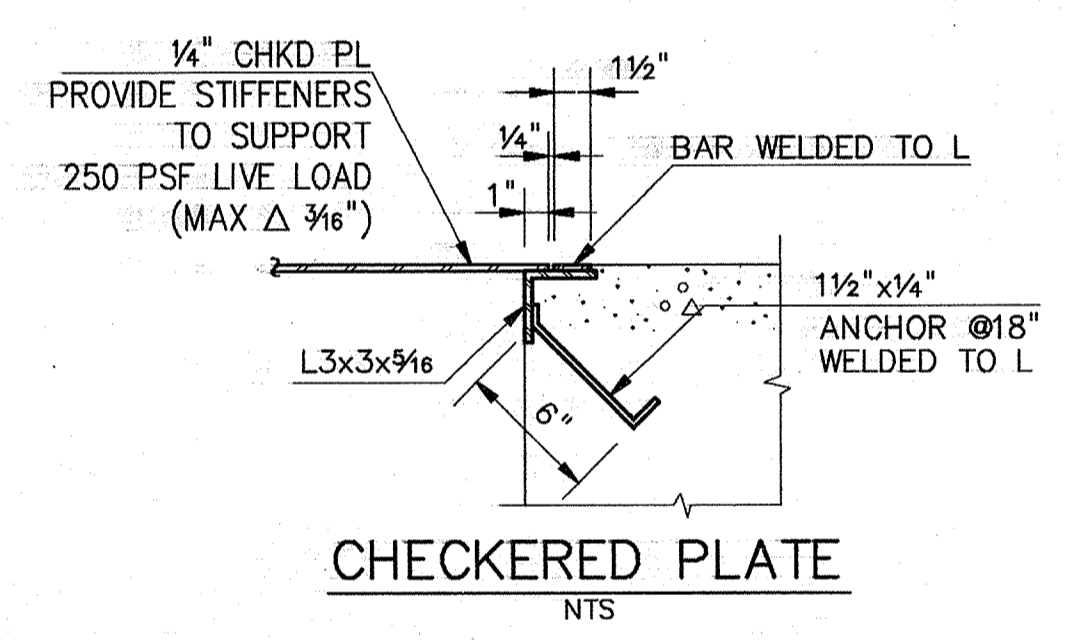
REMOVABLE



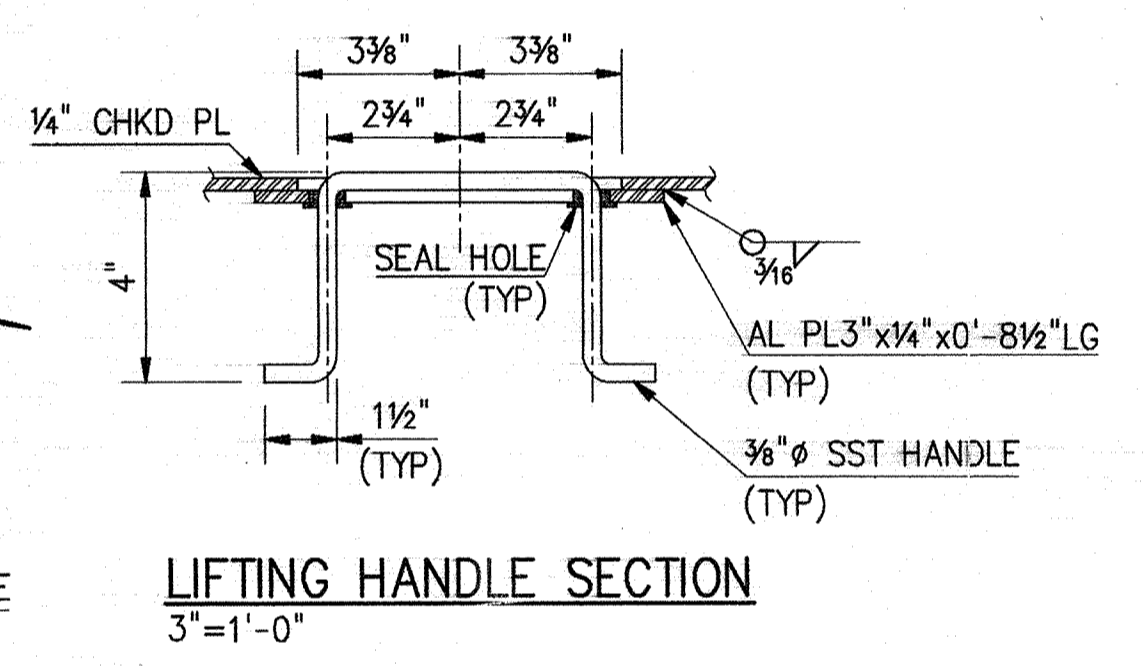
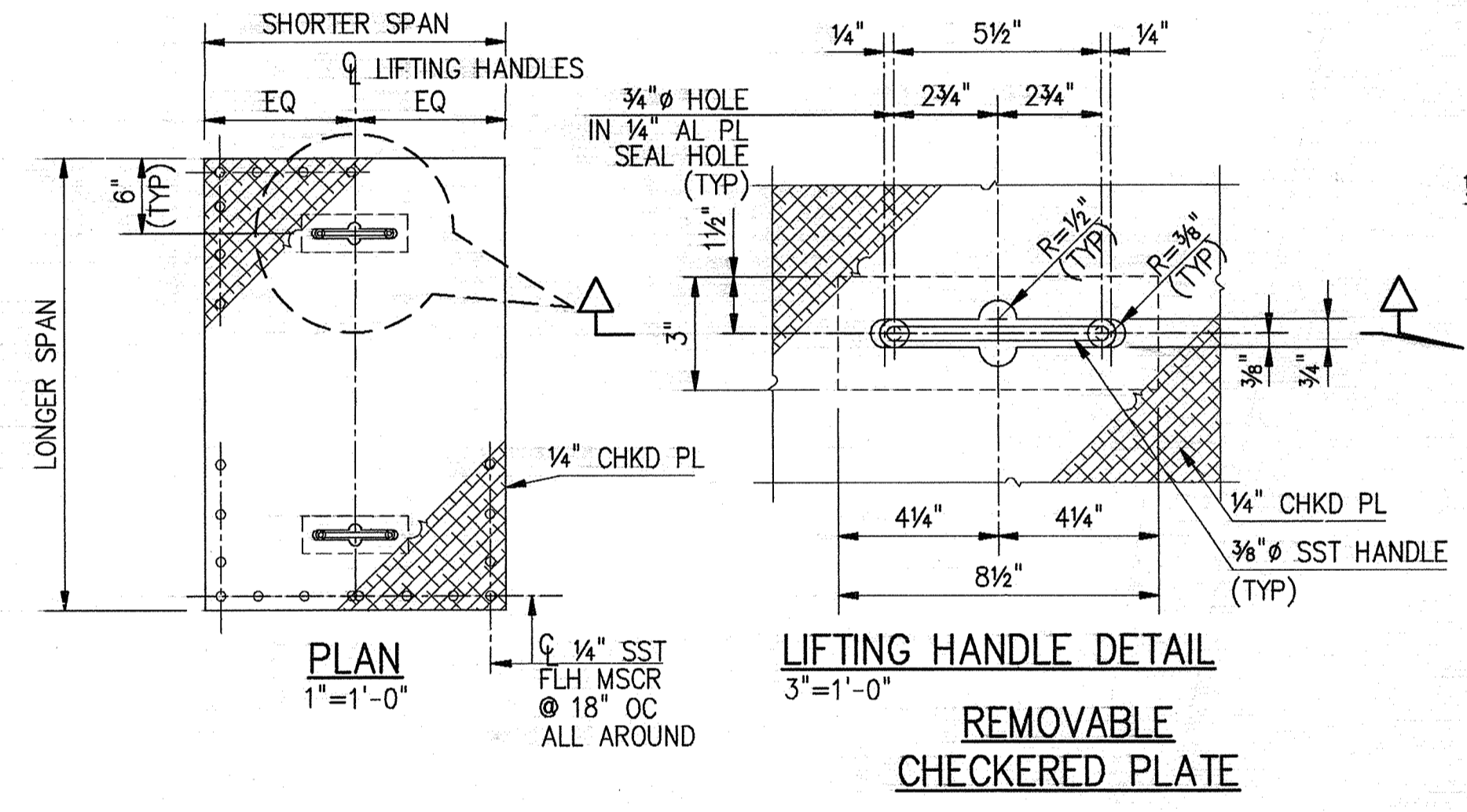
NOTE:
 1/2" STAINLESS STEEL KWIK BOLTS BY HILTI OR PARABOLTS BY U.S.M. OR APP'D EQUAL.



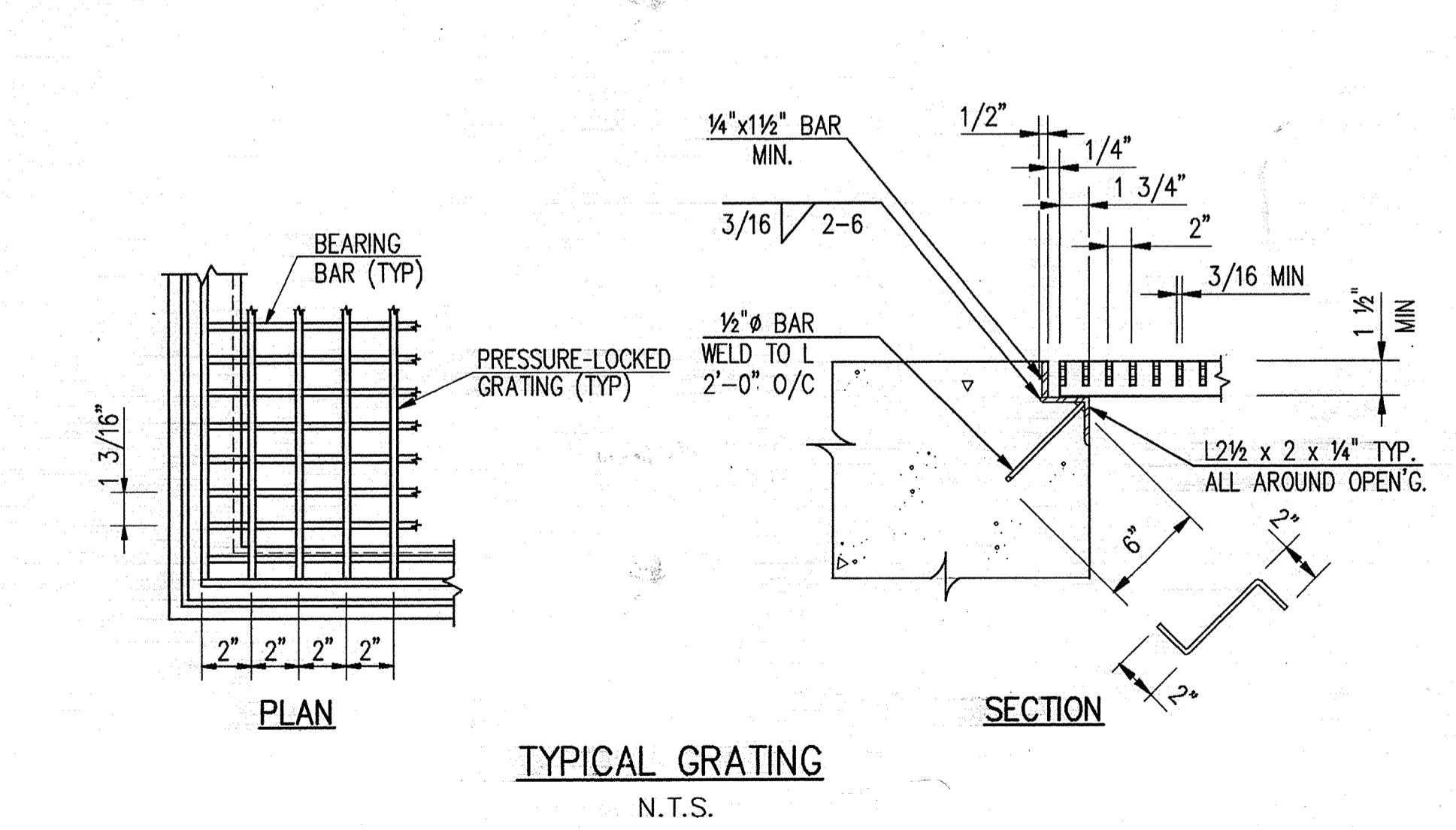
TYPICAL DRAIN TRENCH DETAIL
N.T.S.



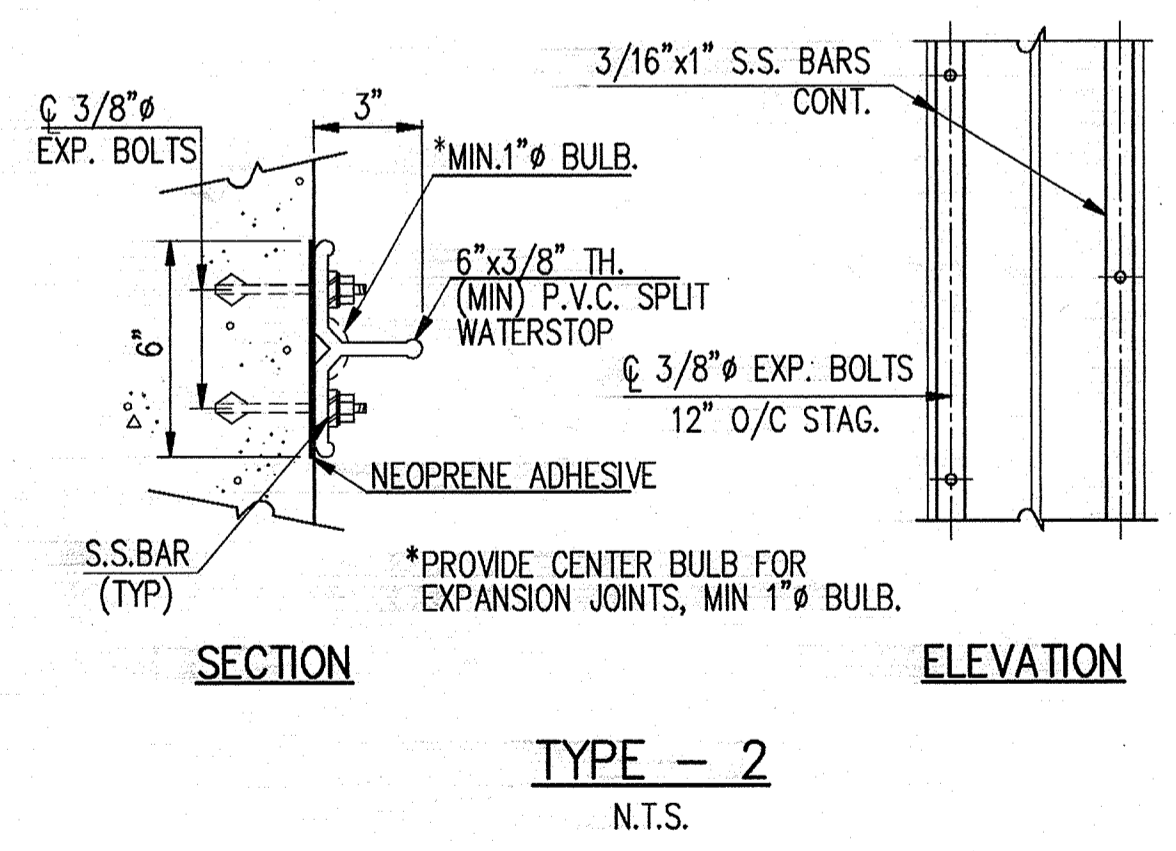
CHECKED PLATE
N.T.S.



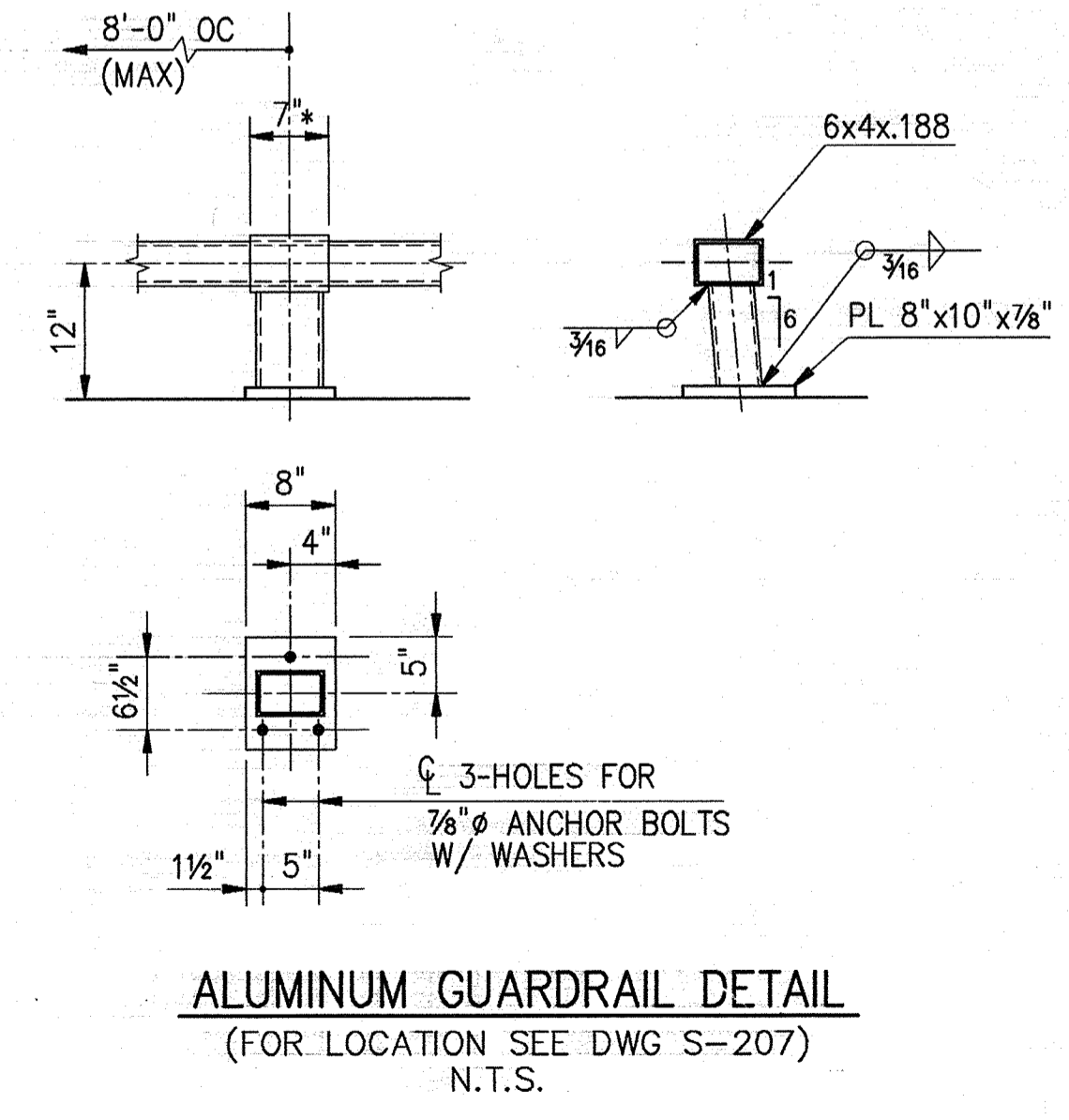
LIFTING HANDLE SECTION
3"=1'-0"



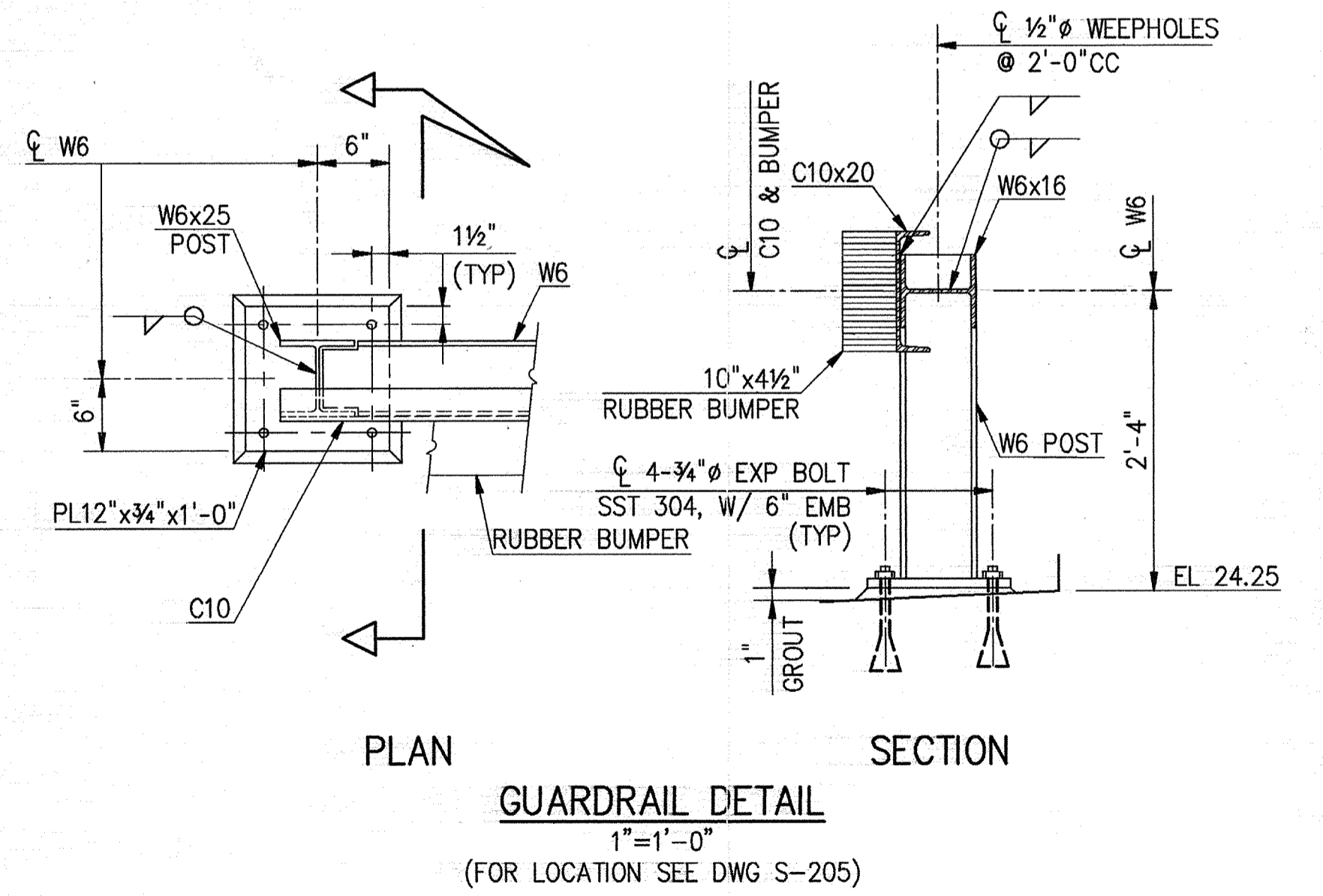
TYPICAL GRATING
N.T.S.



TYPE - 2 WATERSTOP
NEW TO EXISTING CONCRETE



ALUMINUM GUARDRAIL DETAIL
(FOR LOCATION SEE DWG S-207)
N.T.S.

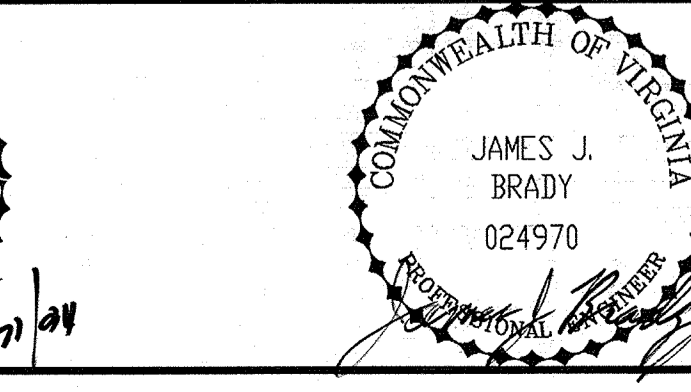
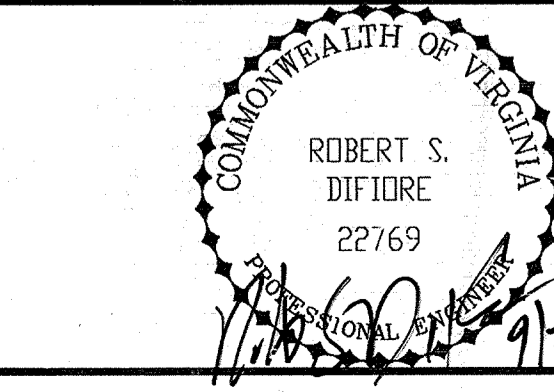


GUARDRAIL DETAIL
1"=1'-0"
(FOR LOCATION SEE DWG S-205)

NOTE:
 ALL MISC METAL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. UNLESS OTHERWISE NOTED.

DESIGNED	M.Y.
DRAWN	R.P.
CHECKED	W.E.G.
PROJ. ENGR.	M.Y.
APPROVED	J.J.B.

NO.	ISSUED FOR	DATE	BY	APPROVED
2	CONSTRUCTION	9-94	J.J.B.	
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	



Hazen and Sawyer
 Environmental Engineers & Scientists
 RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

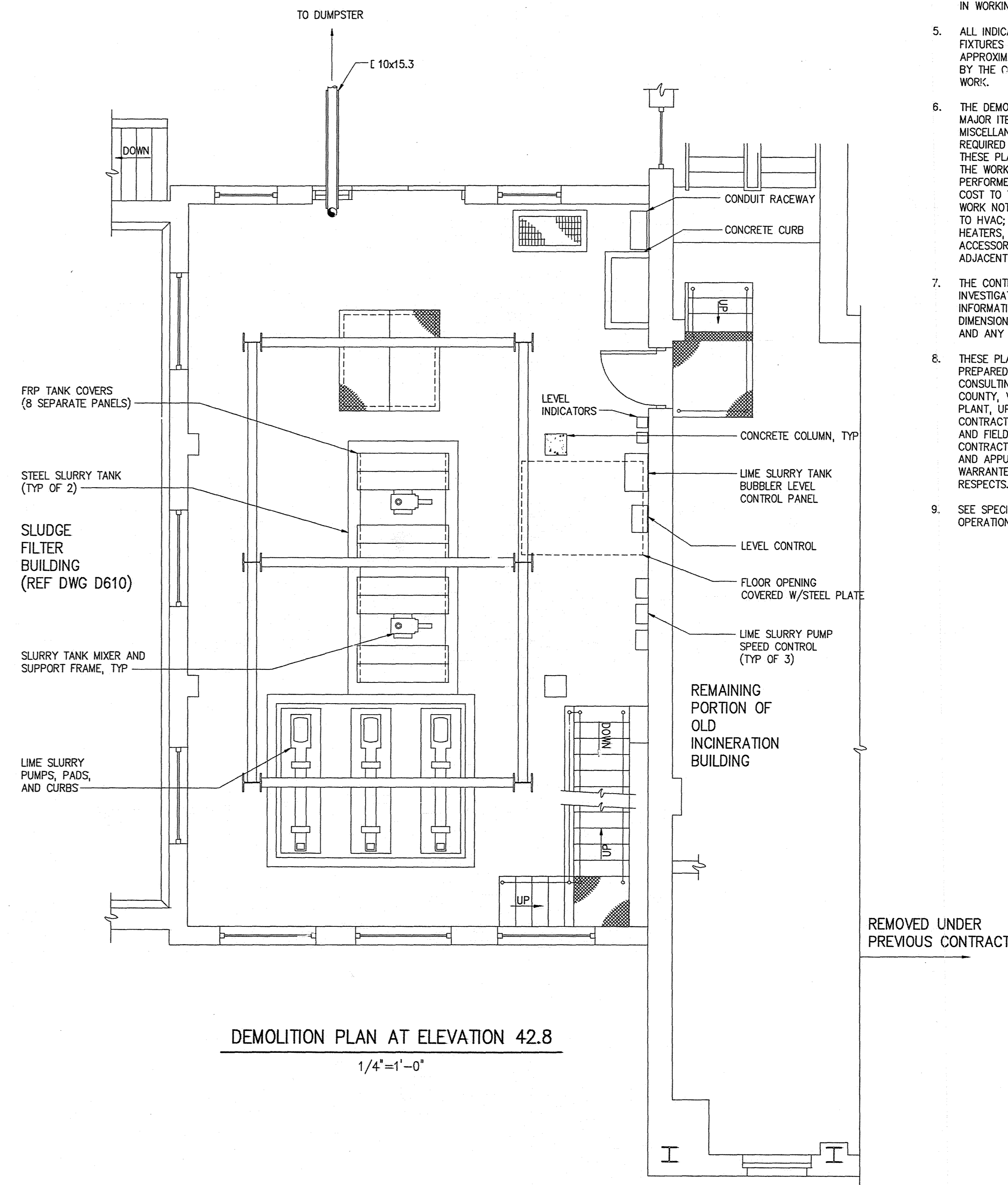
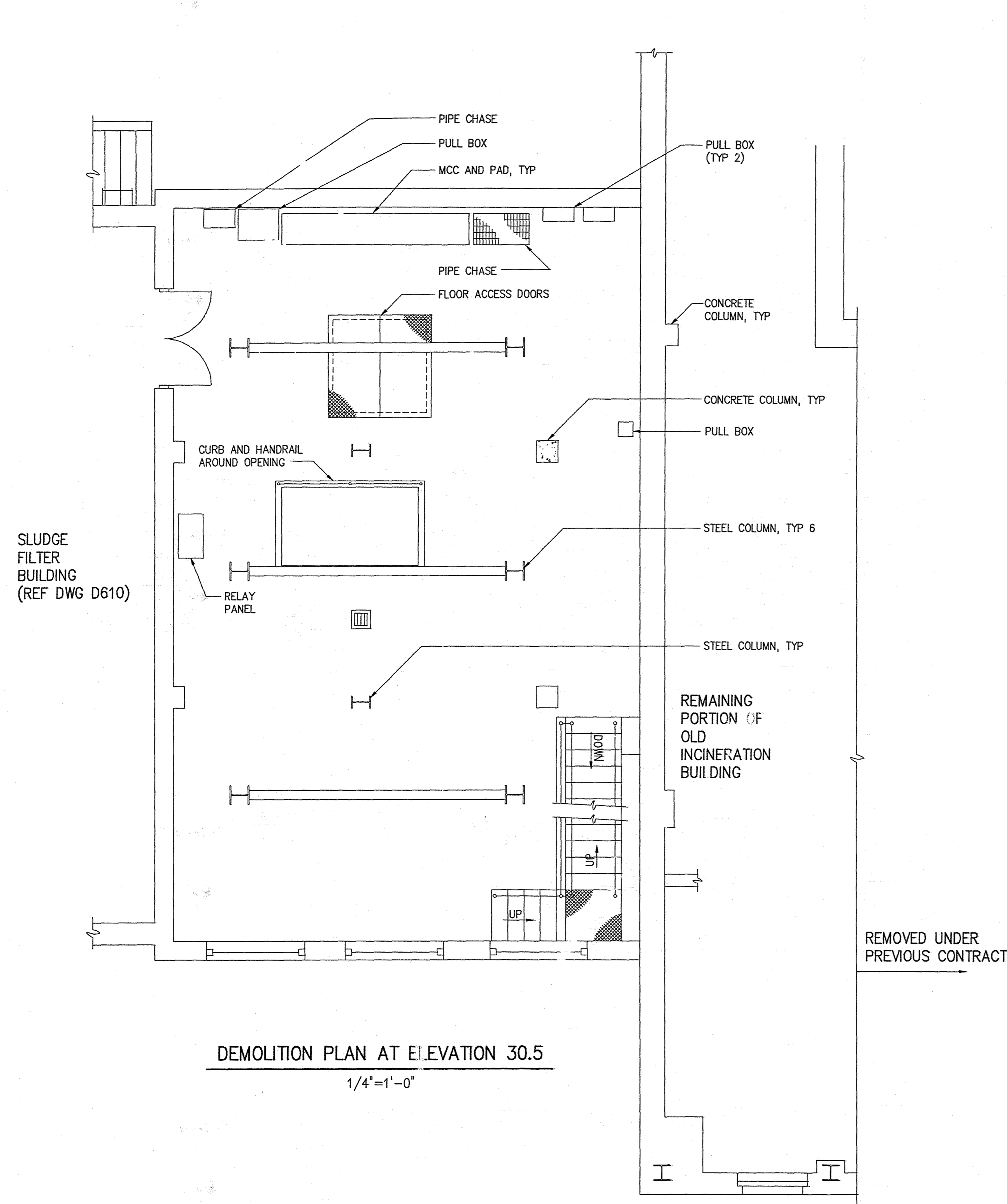
ARLINGTON COUNTY
 WATER POLLUTION CONTROL PLANT
 UPGRADE AND EXPANSION - PHASE III A
 SOLIDS PROCESSING FACILITIES

SCHEDULE AND STANDARD DETAILS
 STRUCTURAL
 STANDARD NOTES AND DETAILS
 SHEET-2

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	SEPT. 1994
	H & S JOB NUMBER	3274
	CONTRACT NUMBER	93-02-WPC
	DRAWING NUMBER	S-502
	SHEET	195 OF 199

NOTES:

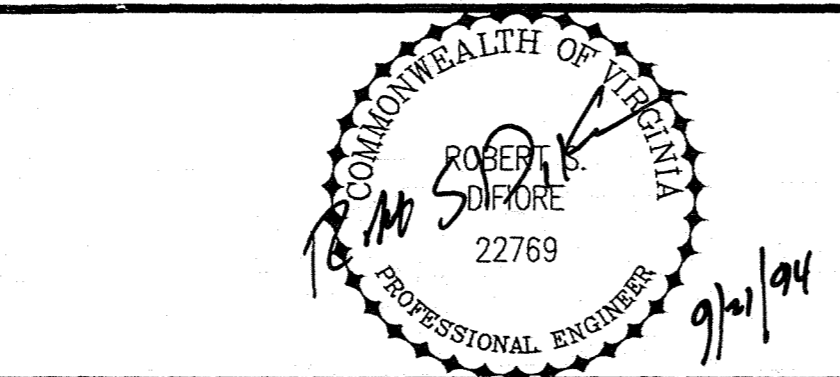
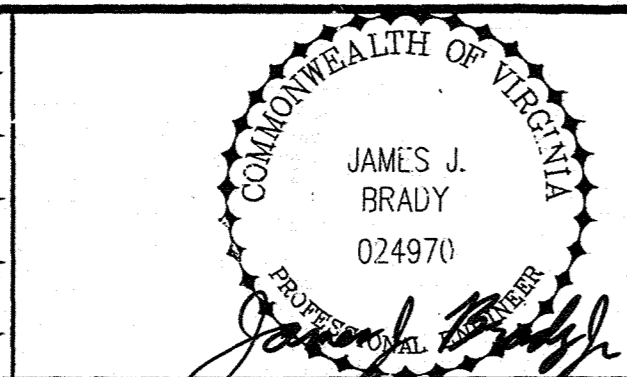
1. REMOVE LIME BUILDING AND REMAINING INCINERATION BUILDING AND STRUCTURES INCLUDING ALL CONCRETE, EQUIPMENT, PIPING, FURNISHINGS, ELECTRICAL AND UNDERGROUND PIPING.
2. STRUCTURES REMOVED BELOW FINAL GRADES INDICATED SHALL BE BACKFILLED WITH COMPACTED SELECT FILL AND GRADED AS SHOWN ON THE DRAWINGS.
3. SOME PIPING AND ELECTRICAL NOT SHOWN.
4. ALL REQUIRED EROSION AND SEDIMENTATION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO ANY DEMOLITION OR REMOVALS. THEY ARE TO BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONTRACT.
5. ALL INDICATED DIMENSIONS AND LOCATIONS OF FIXTURES AND EQUIPMENT TO BE REMOVED ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO BEGINNING DEMOLITION WORK.
6. THE DEMOLITION WORK INDICATED INCLUDES THE MAJOR ITEMS TO BE DEMOLISHED OR MODIFIED. MISCELLANEOUS ADDITIONAL DEMOLITION WORK REQUIRED UNDER THIS CONTRACT, BUT NOT SHOWN ON THESE PLANS, IS CONSIDERED TO BE INCLUDED UNDER THE WORK OF THIS CONTRACT AND SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. MISCELLANEOUS ADDITIONAL WORK NOT SHOWN MAY INCLUDE, BUT IS NOT LIMITED TO HVAC, INCLUDING FANS, DUCT WORK, AND HEATERS; PLUMBING INCLUDING FIXTURES, ACCESSORIES, ELECTRICAL; INCLUDING CONDUITS, ADJACENT DUCT BANKS, SERVICE DROPS, ETC.
7. THE CONTRACTOR SHALL MAKE HIS OWN FIELD INVESTIGATIONS TO DETERMINE ADDITIONAL INFORMATION REQUIRED AS TO EXISTING STRUCTURE DIMENSIONS, ELEVATIONS, APPURTENANCES, METHODS, AND ANY OTHER INFORMATION HE MAY REQUIRE.
8. THESE PLANS WERE COMPILED UTILIZING DRAWINGS PREPARED BY CAMP, DRESSER AND MCKEE (CDM), CONSULTING ENGINEERS, ENTITLED ARLINGTON COUNTY, VIRGINIA, WATER POLLUTION CONTROL PLANT, UPGRADE AND EXPANSION PHASE IIB, CONTRACT NO. 90-02-WPC, DATED SEPTEMBER 1991, AND FIELDWORK BY HAZEN AND SAWYER. THE CONTRACTOR IS ADVISED THAT FEATURES, DIMENSIONS AND APPURTENANCES SHOWN ON THESE PLANS ARE NOT WARRANTED TO BE COMPLETE AND ACCURATE IN ALL RESPECTS.
9. SEE SPECIFICATION 01520-MAINTENANCE OF PLANT OPERATIONS DURING CONSTRUCTION.



DATE PLOTTED: 03/14/94 11:58 AM

NO.	ISSUED FOR	DATE	BY	APPROVED
2	CONSTRUCTION	9-94	J.J.B.	J.J.B.
1	COUNTY REGULATORY APPROVAL	9-94	J.J.B.	J.J.B.

DESIGNED	H & S
DRAWN	M. O.S.
CHECKED	R.N.C.
PROJ. ENGR.	J.J.B.
APPROVED	J.J.B.



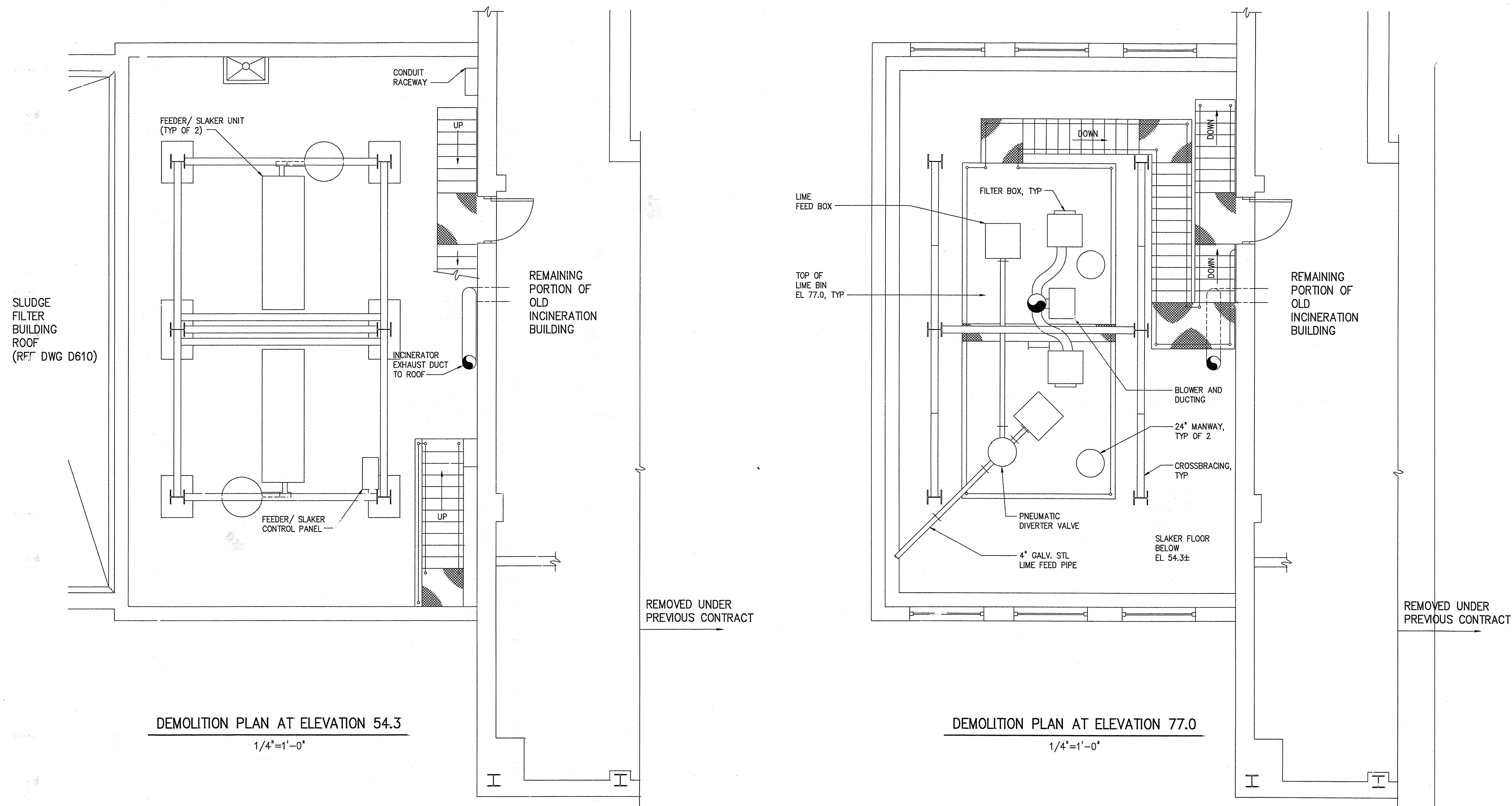
HAZEN AND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY, VIRGINIA
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

DEMOLITION
LIME BUILDING
PLANS AT ELEVATION 30.5 AND 42.8

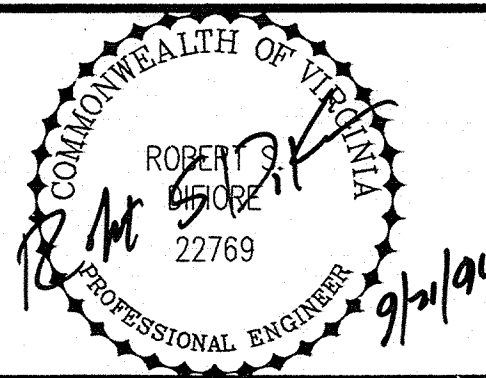
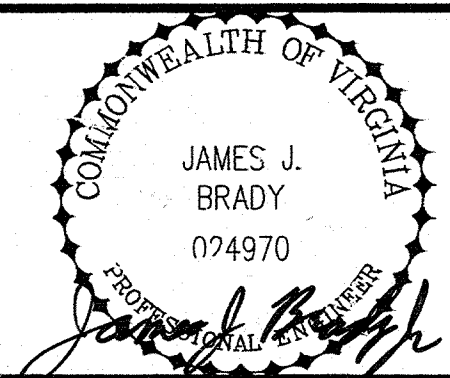
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE MARCH 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER D601
	SHEET 196 OF 199

NOTES:
1. FOR NOTES SEE DRAWING D601



NOT DATE 07/27/94. NOT SCALE. 11. CAD FILE - 13. 07/27/94. 07/27/94. 07/27/94. 07/27/94.

DESIGNED	H & S			
DRAWN	M.O.S.			
CHECKED	R.N.C.			
PROJ. ENGR.	J.J.B.			
NO.	ISSUED FOR	DATE	BY	APPROVED
2	CONSTRUCTION	9-94		
1	COUNTY REGULATORY APPROVAL	9-94	J.J.H.	J.J.B.



HAZEN AND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

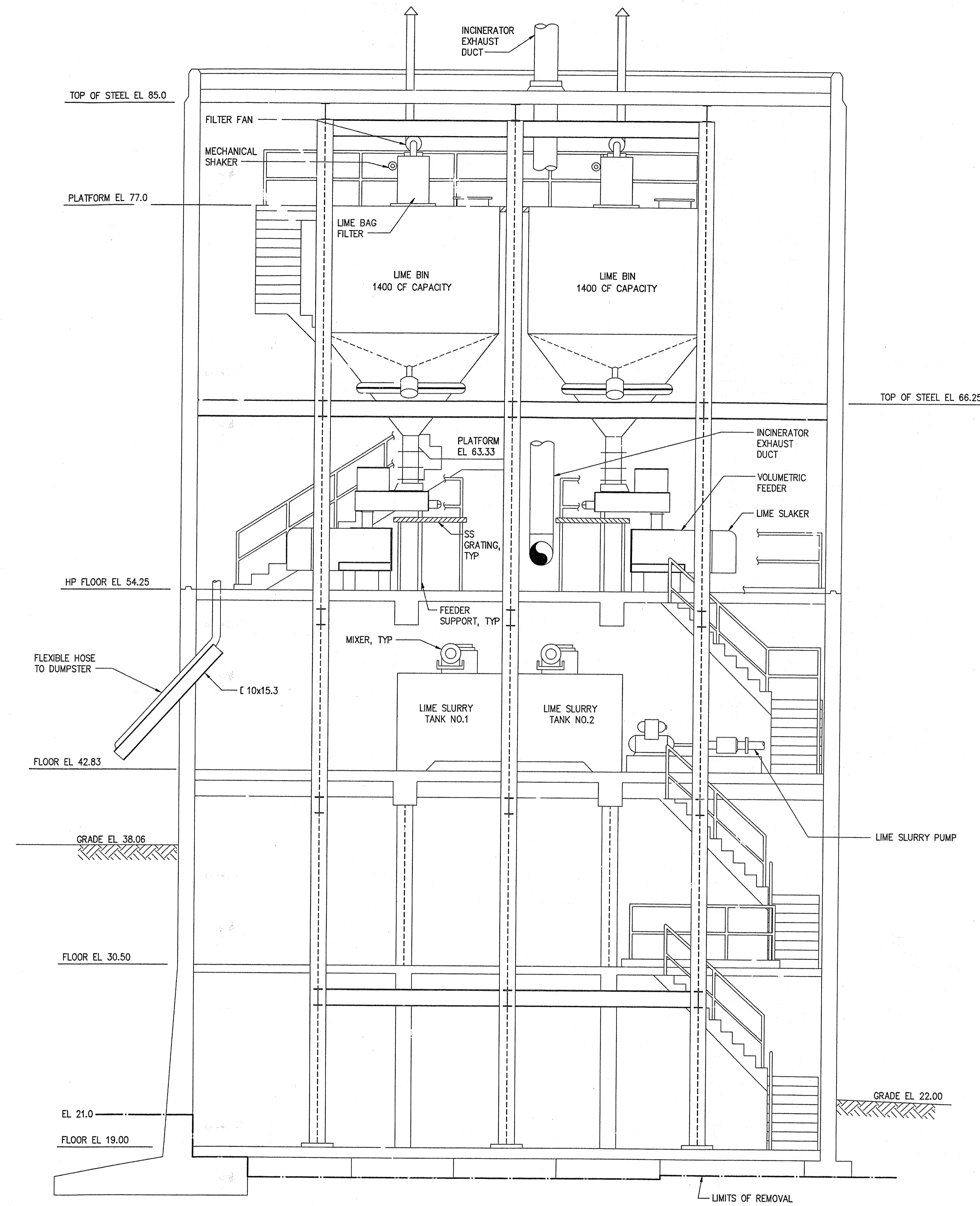
ARLINGTON COUNTY, VIRGINIA
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

DEMOLITION
LIME BUILDING
PLANS AT ELEVATION 54.3 AND 77.0

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER D602
SHEET 197 OF 199	

NOTES:

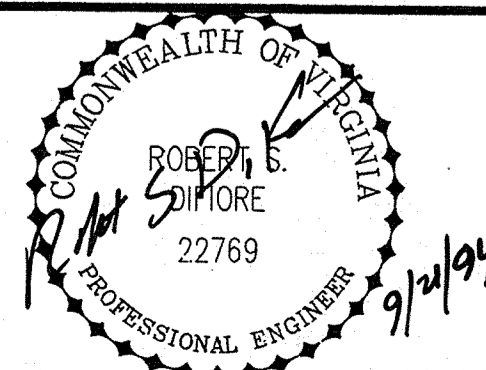
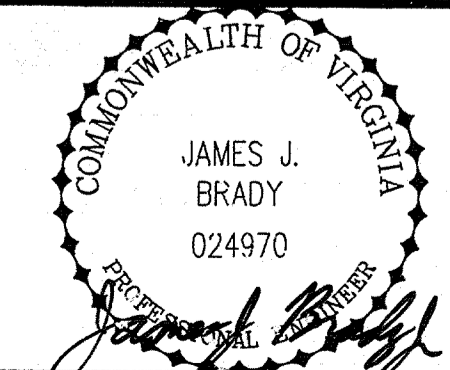
1. REMOVE BUILDING AND STRUCTURES TO LIMITS AS SHOWN, INCLUDING ALL CONCRETE, EQUIPMENT PIPING, FURNISHINGS, ELECTRICAL AND UNDERGROUND PIPING.
2. BACKFILL WITH COMPACTED SELECT FILL TO FINAL GRADES, LANDSCAPE AND / OR PAVE AS SHOWN.
3. SOME PIPING AND ELECTRICAL NOT SHOWN.
4. SEE SPECIFICATION SECTION 01520—MAINTENANCE OF PLANT OPERATIONS DURING CONSTRUCTION, FOR A COMPLETE LIST OF EQUIPMENT AND MATERIALS TO BE REMOVED.



SECTION
1/4"=1'-0"

DATE 09/24/94
 DRAWN DRD
 CHECKED R.N.C.
 PROJ. ENGR. J.J.B.
 NO. 1
 ISSUED FOR COUNTY REGULATORY APPROVAL
 DATE 9-94
 BY J.J.B.
 APPROVED J.J.B.

DESIGNED	H & S
DRAWN	DRD
CHECKED	R.N.C.
PROJ. ENGR.	J.J.B.
NO.	1
ISSUED FOR	COUNTY REGULATORY APPROVAL
DATE	9-94
BY	J.J.B.
APPROVED	J.J.B.



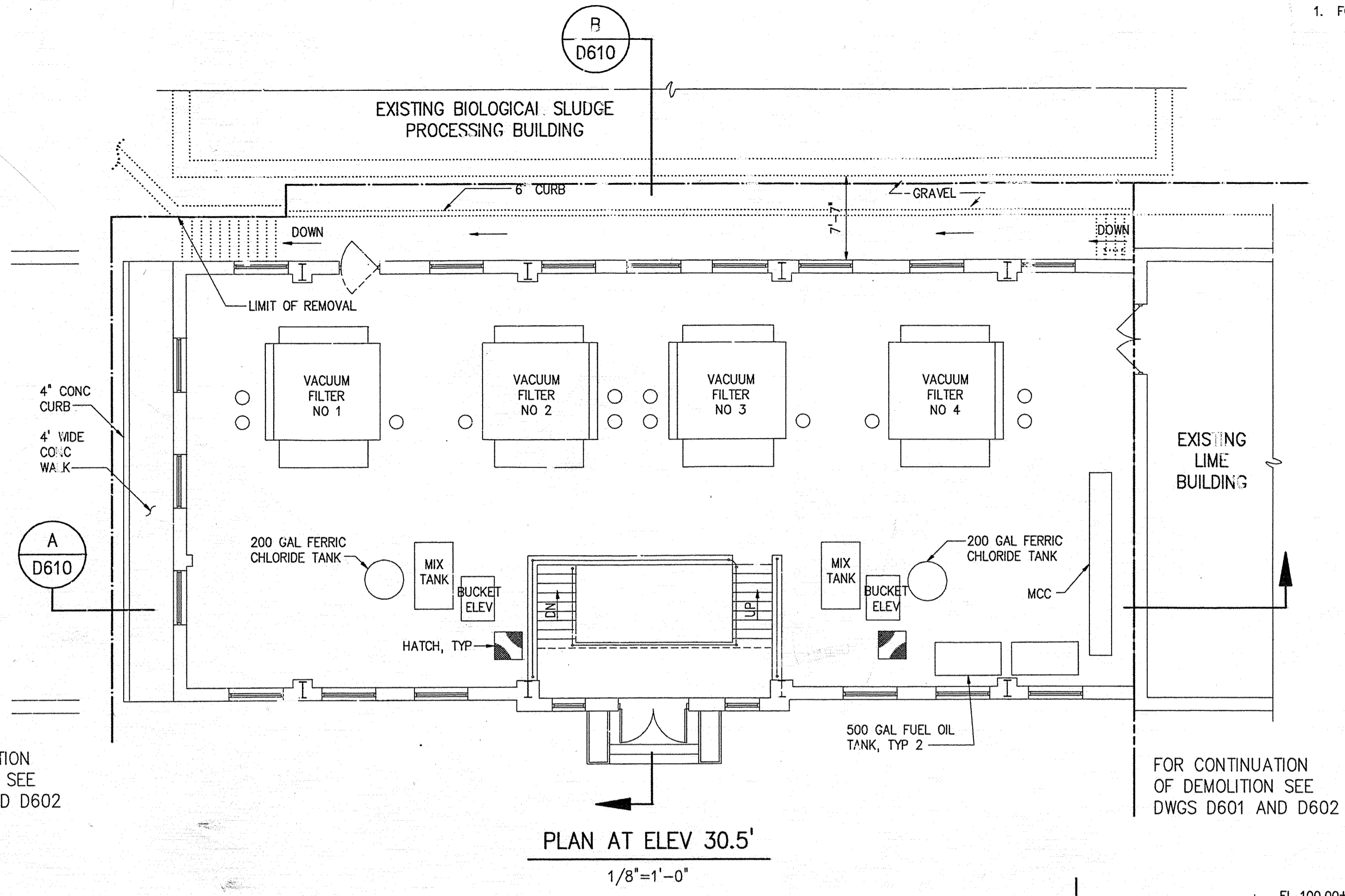
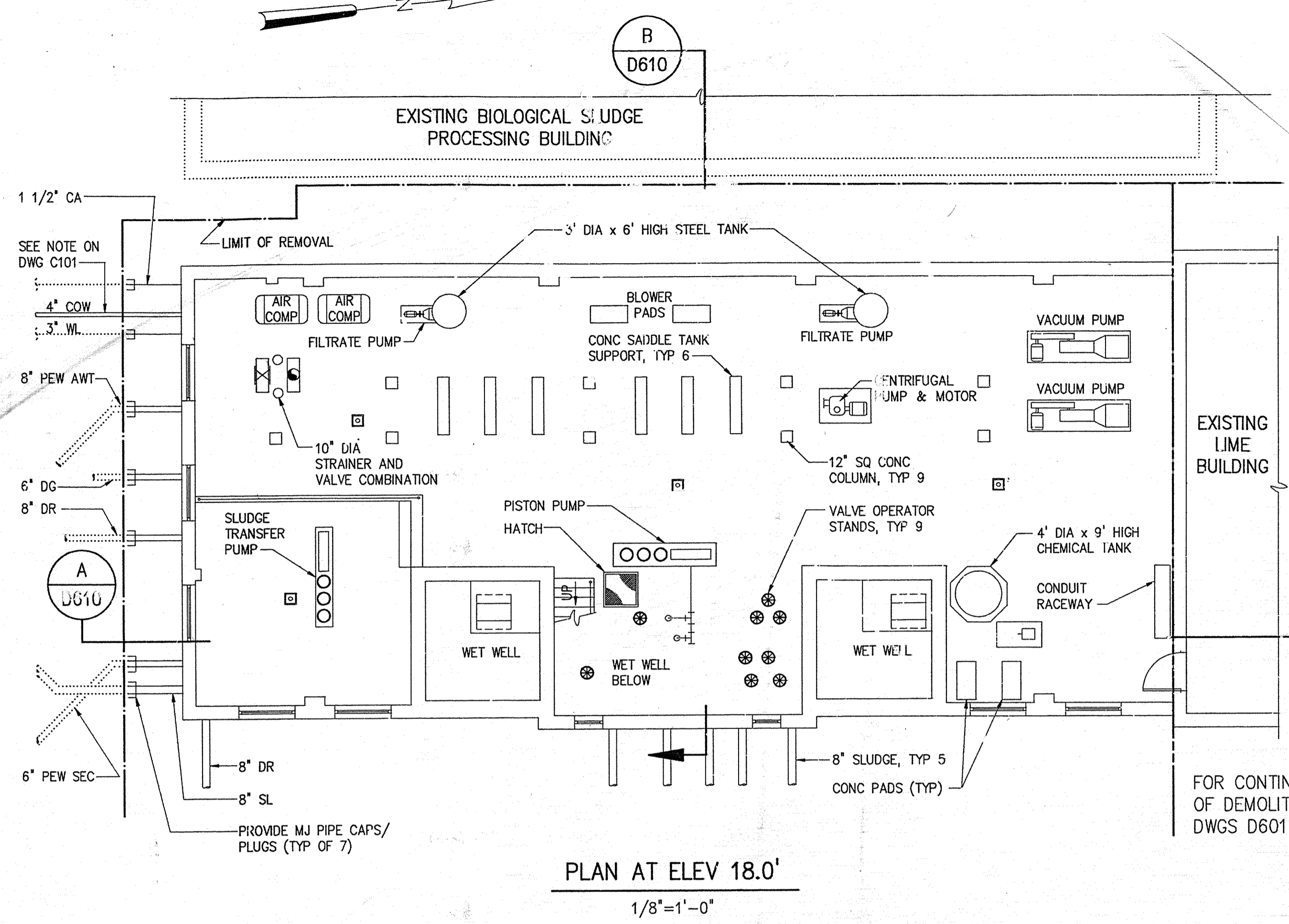
HAZEN AND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY, VIRGINIA
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

DEMOLITION
LIME BUILDING - SECTION

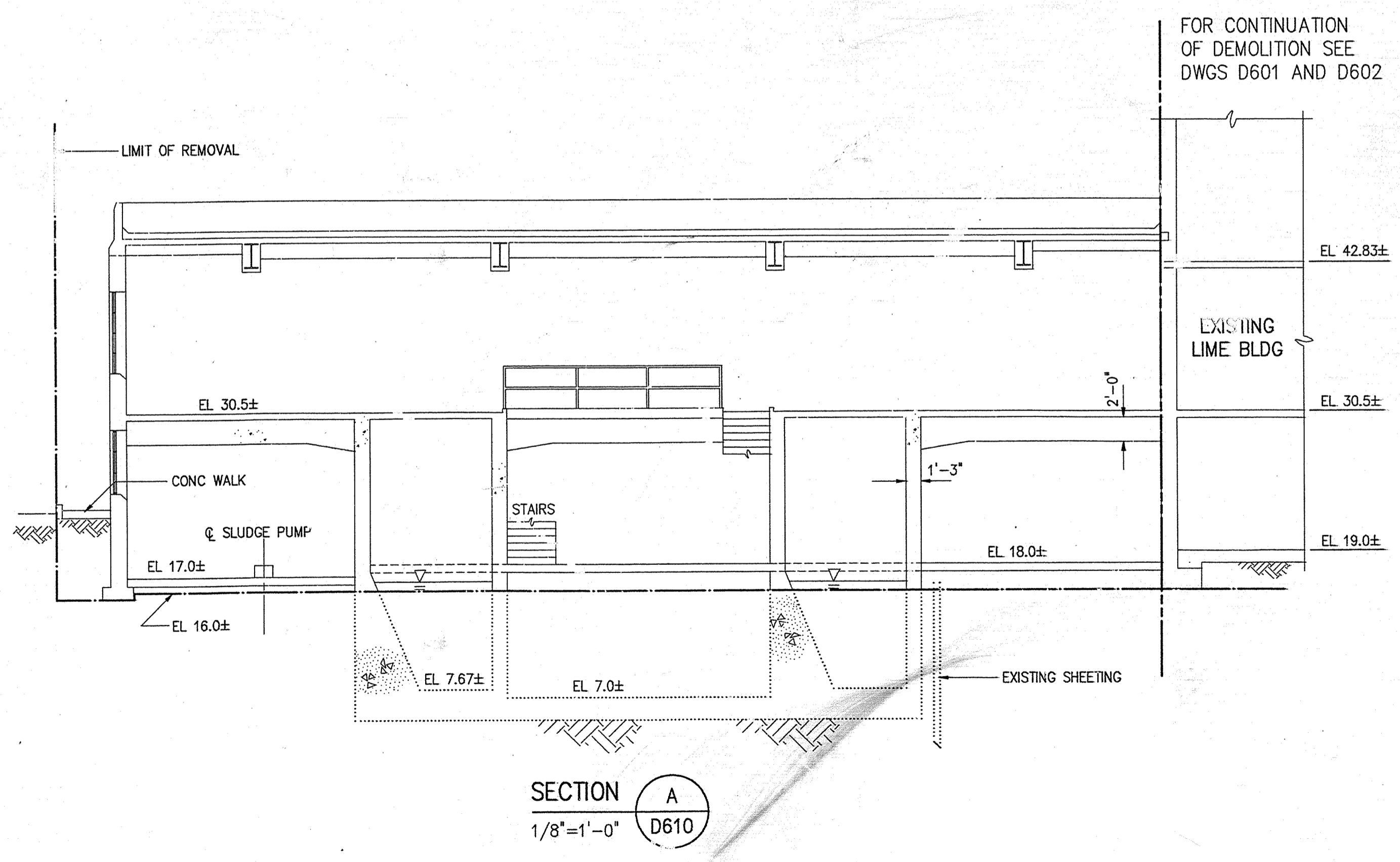
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER D603
	SHEET 198 OF 199

NOTES:
1. FOR NOTES SEE DRAWING D601

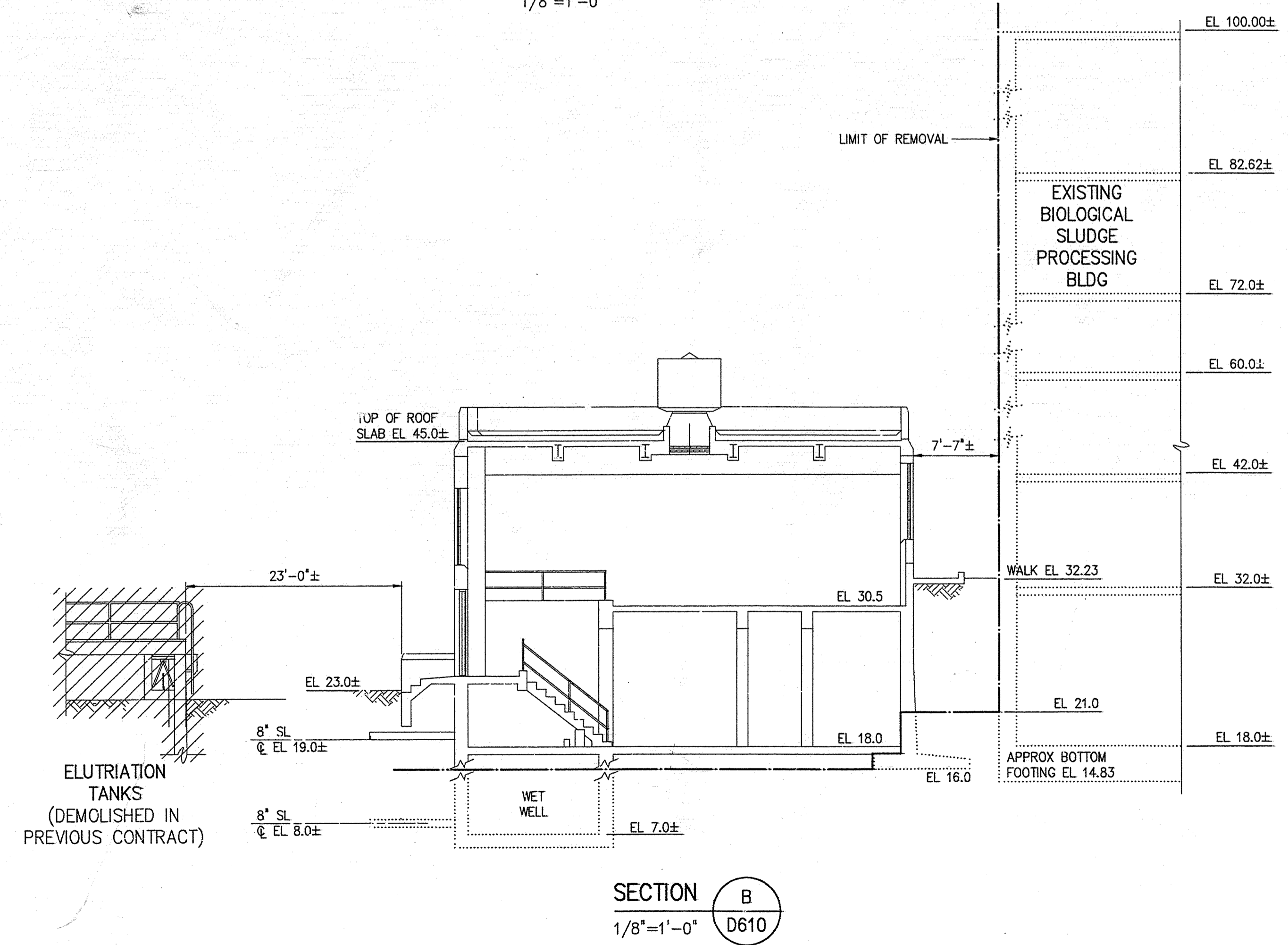


FOR CONTINUATION OF DEMOLITION SEE DWGS D601 AND D602

FOR CONTINUATION OF DEMOLITION SEE DWGS D601 AND D602

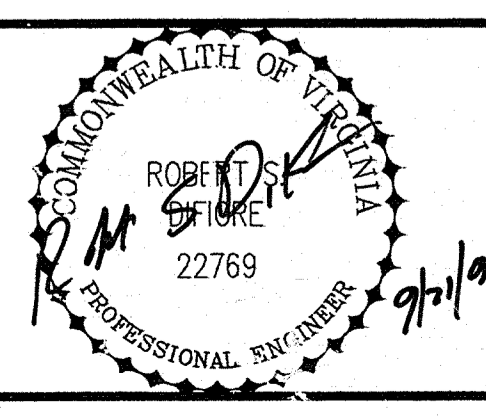
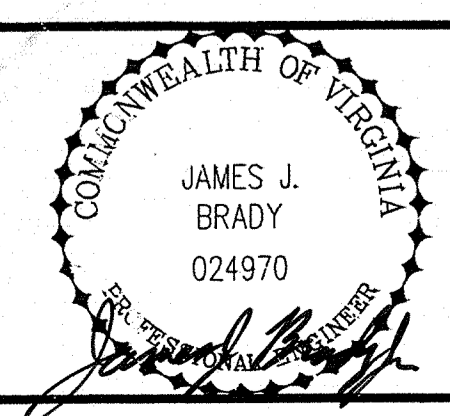


FOR CONTINUATION OF DEMOLITION SEE DWGS D601 AND D602



DATE PLOTTED: 09/21/94 11:54 AM FILE: C:\WORKING\331\ARL\331.DWG PLOT BY: JAMES J. BRADY

DESIGNED	H & S
DRAWN	M.O.S.
CHECKED	R.N.C.
PROJ. ENGR.	J.J.B.
ISSUED FOR	J.J.R.
DATE	9-94
BY	J.J.B.
APPROVED	



HAZEN AND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ARLINGTON COUNTY, VIRGINIA
WATER POLLUTION CONTROL PLANT
UPGRADE AND EXPANSION - PHASE III A
SOLIDS PROCESSING FACILITIES

DEMOLITION
SLUDGE FILTER BUILDING
PLANS AND SECTIONS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE SEPT. 1994
	H & S JOB NUMBER 3274
	CONTRACT NUMBER 93-02-WPC
	DRAWING NUMBER D610
	SHEET 199 OF 199