

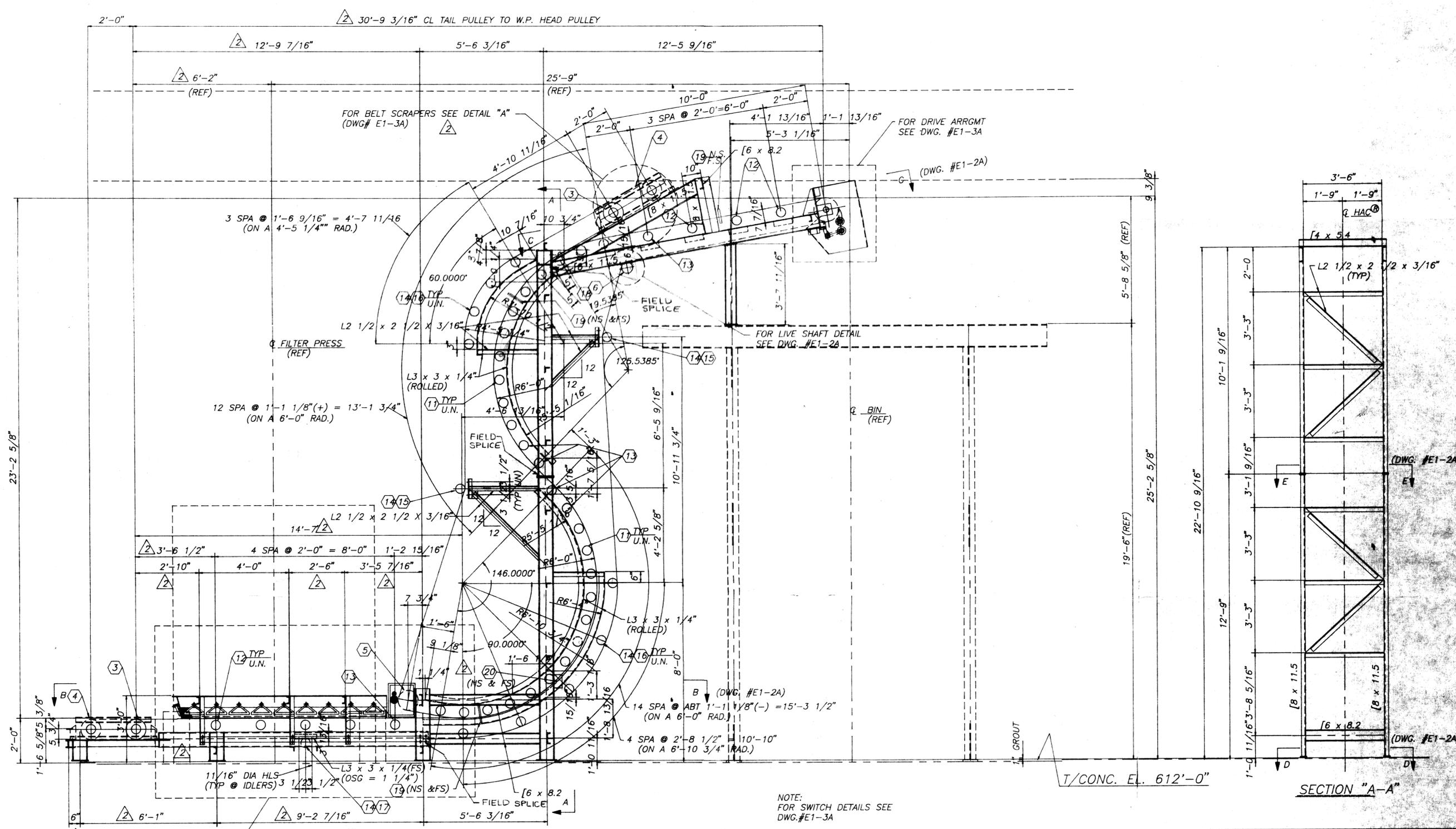
REVIEWED AND APPROVED BY THE
DIR. OF ENVIRONMENTAL PROTECTION,
DEPT. NATURAL RESOURCES,
IN ACCORDANCE WITH SEC. 144.01,
WIS. STATS., SUBJECT TO THE CON-
DITIONS SET FORTH IN THE LETTER
OF APPROVAL.
THOMAS G. FRANGOS
ADMINISTRATOR

APPROVAL NO.
72 355

DATE: FEB 4 '74

Notes: Continue reinforcing through contraction joints. Place expansion joint a maximum of 40 feet o.c.

DNR JAN 3 1974



NOTE: FOR SWITCH DETAILS SEE DWG. #E1-3A

GENERAL ARRANGEMENT of 24" B.W. HAC TO HANDLE FILTER CAKE SEWAGE SLUDGE

MAT'L DENSITY: 40 PCF
MAT'L SIZE: 2" MINUS
CONV. RATE: 10 TPH
CONV. SPEED: 240 FPM
CONV. DRIVE: 10 HP(BOTT BELT ONLY)

FOR DETAILS THIS AREA SEE DWG. #E1-4A

SECTION "A-A"

T/CONC. EL. 612'-0"

REVISIONS

BY	DATE	REVISIONS	NO.
Morgan	7-14-92	APPROVAL CHANGES	
Morgan	6-18-92	APPROVAL CHANGES	

CONTINENTAL CONVEYOR & EQUIPMENT COMPANY, INC.
 A NESCO Company

post office box 400
 winfield, ia 33594
 (205)487-6492

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GENERAL ARRANGEMENT for 24" B.W. HAC WASTE WATER TREATMENT PLANT SUPERIOR WISCONSIN

W-10393
 DRAWING NUMBER
 E1-1A 2

EQUIPMENT LIST -24" B.W. HAC®

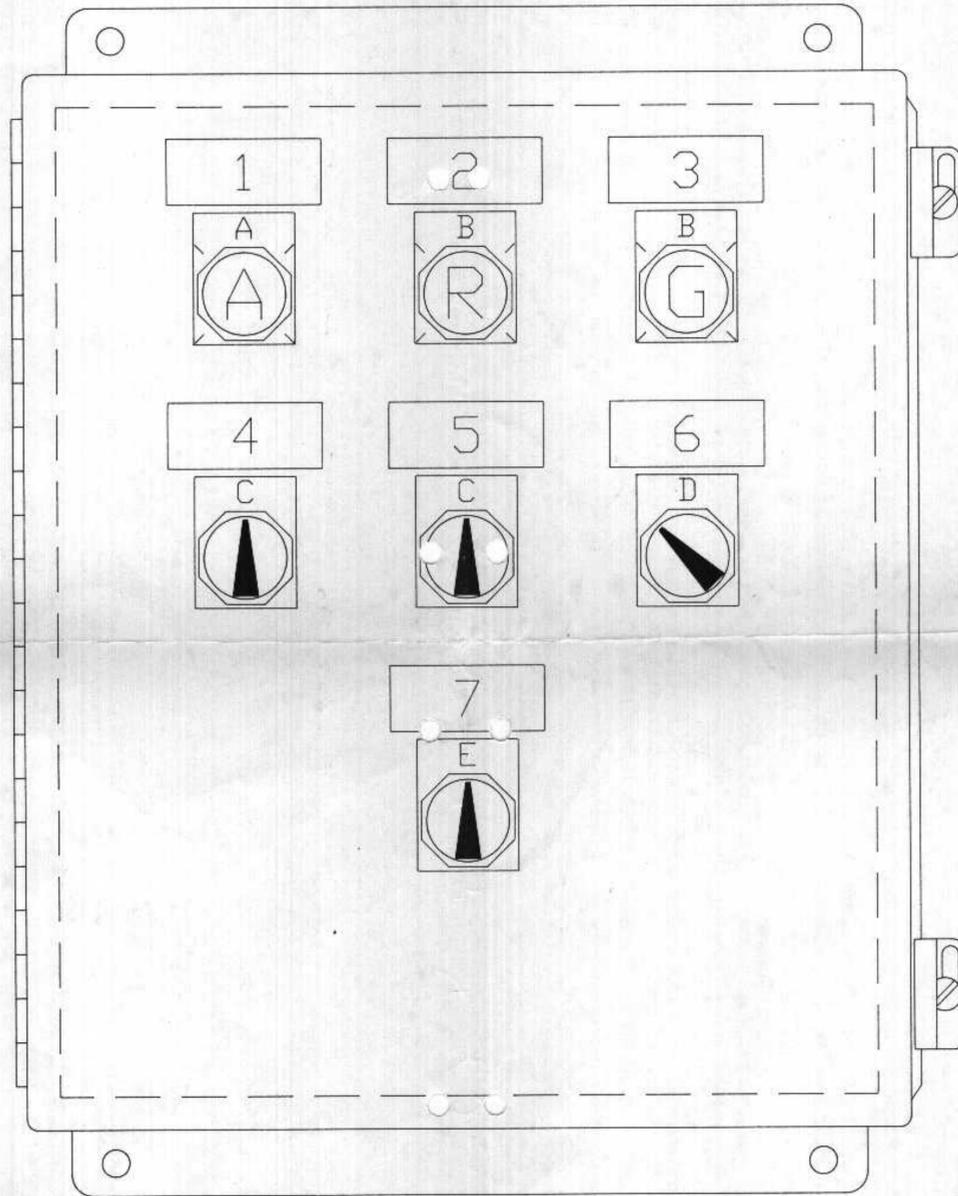
ASSEMBLY	ITEM NO.	QUANTITY	DESCRIPTION	ASSEMBLY	ITEM NO.	QUANTITY	DESCRIPTION		ITEM NO.	QUANTITY	DESCRIPTION
DRIVE	①	1	DODGE SHAFT-MOUNT REDUCER, QD-TYPE TAPERED BUSHED BORE, CAT. #TXT425, COMPLETE WITH TORQUE ARM ASS'Y AND HOLDBACK, CLASS II, 1.4 S.F., 2.4375 DIA. BORE. MOTOR MOUNT # TA-4M, 1 - 8" DIA. DRIVER SHEAVE (1.375 BORE), 1 - 8" DIA. DRIVEN SHEAVE (1.4375 BORE), 2 DYNA V-BELTS # 3VX-800 10 HP, HOSTILE ENVIRONMENT-RIGID BASE, 1750 RPM TYPE 0940M, NEMA FRAME #215T 3/80/460 VOLT NEMA "B" DESIGN	IDLERS (BY CCECO)	⑪	24	10 DEGREE 5" DIA. OFFSET STEEL ROLL H-PLUS TROUGHING IDLERS 24" B.W. PT# 78AK8283-24SW (B.W. + 15)	SPARE PARTS		1	DODGE FASF-XT22520 3.4375" DIA. BORE PILLOW BLOCK
					⑫	7	20 DEGREE 5" DIA. OFFSET STEEL ROLL H-PLUS TROUGHING IDLERS 24" B.W. PT# 78AK8286-24SW (B.W. + 15)		1	DODGE FASF-XT 2.4375" DIA. BORE PILLOW BLOCK	
					⑬	6	5 - 20 DEGREE 5" DIA. OFFSET STEEL ROLL H-PLUS TROUGHING IDLERS 24" B.W. PT# 78AK6989 (B.W. + 15)		1	PILLOW BLOCK SKF-SYR115-3 1.9375" DIA. BORE	
⑭	13	6" DIA. FLAT RETURN IDLERS PT# 78AK7920-3300 (B.W. + 15)	1	10 DEGREE 5" DIA. OFFSET STEEL ROLL H-PLUS TROUGHING IDLERS 24" B.W. PT#78AK8283-24SW (B.W. + 15)							
⑮	8	4 1/4" DROP BRACKET PT#72A3602	1	20 DEGREE 5" DIA. OFFSET STEEL ROLL H-PLUS TROUGHING IDLERS 24" B.W. PT#78AK8286-24SW (B.W. + 15)							
⑯	28	4 1/4" RISE BRACKET PT#72A4622	1	5 - 20 DEGREE 5" DIA. OFFSET STEEL ROLL H-PLUS TROUGHING IDLERS 24" B.W. PT##78AK6989 (B.W. + 15)							
⑰	2	2 1/8" DROP BRACKET PT#72A3606 (ALL IDLER BRACKETS PAINTED STEEL) (ALL IDLERS LAGGED WITH 1/8" THK URETHANE)	1	6" DIA. FLAT RETURN IDLERS PT#78AK7920-3300 (B.W. + 15)							
DRIVE SHAFT (BY CCECO)	②	1	C1045 SHAFT 3.4375" DIA. x APPROX. 60" LONG, NECKED TO 2.4375" DIA. FOR DRIVE WITH 3 KEYWAYS 12" DIA. x 30" STRAIGHT FACE PULLEY W/ BROWNING XT-35 HUBS & HERRINGBONE RUBBER LAGGING MACHINED TO 13,000 DIA. ASSEMBLED WITH DODGE FASF-XT22520 3.4375" DIA. BORE PILLOW BLOCKS	ELECTRICAL	⑱	1	ZERO-SPEED SWITCH. CONVEYOR COMPONENTS #MS STUB SHAFT # MS-3, FLEXIBLE COUPLING # MS-4, & COUPLING GUARD # MS-5		NOTE: 1. ENTIRE FRAME AND SUPPORT ASSEMBLY HOT DIPPED GALVANIZED. 2. ALL FASTENERS ON HAC STAINLESS STEEL.		
TAKE-UP SHAFT	③	2	C1045 SHAFT 2.9375" DIA. X 47" LONG, NECKED TO 2.4375" DIA. 10" DIA. X 30" STRAIGHT FACE PULLEY W/ BROWNING XT-30 HUB & .375" PLAIN RUBBER LAGGING		⑲	6	BELT MIS-ALIGNMENT SWITCH. SQUARE-D SERIES 9007 MODEL C54J				
TAKE-UP ASS'Y (BY CCECO)	④	4	SCREW TAKE-UP ASS'Y #TX207-24 W/2.4375" DIA. BORE BEARING WITH 24" TAKE-UP TRAVEL		⑳	2	EMERGENCY PULL CHORD SWITCH CONVEYOR COMPONENTS #RS-1				
BEND PULLEY (BY CCECO)	⑤	1	C1045 SHAFT 2.9375" DIA. x APPROX. 48" LONG, NECKED TO 2.4375" DIA. 10" DIA. x 30" S.F. CONV. PULLEY W/ XT-30 HUBS & .375 PLAIN RUBBER LAGGING. PILLOW BLOCKS DODGE FASF-XT 2.4375 DIA. BORE		㉑		ITEM OF SAFETY PULL CHORD, NO. 6, 3/32" DIA. (7 X 7) PREFORMED GALV. AIRCRAFT CABLE COATED W/ RED NYLON TO 3/16" DIA.				
LIVE SHAFT (BY CCECO)	⑥	1	C1045 SHAFT 1.9375" DIA. X 43" LONG. (DRILLED & TAPPED ONE END FOR .625" STUB SHAFT) 6" DIA. x 30" S.F. CONV. PULLEY W/ XT-20 HUBS & .25 PLAIN RUBBER LAGGING. PILLOW BLOCKS SKF - SYR115-3 1.9375 DIA. BORE (SHIPPED LOOSE)		㉒		LOT OF EYEBOLTS, 1/2" X 1 X 3 1/4" LG. (PLATED)				
CONV. BELT	⑦	APPROX. 180 LINEAR FEET	24" WIDE BELT, 2 PLY MP150 PIW, WITH 1/8" x 1/32" OMEGA COVERS, GOODYEAR OR EQUAL W/TWO (2) VULCANIZED BELT SPLICE KITS FOR FIELD VULCANIZING OF BELT		㉓		ITEM OF WIRE CLIPS, 3/16" DIA. (GALV.)				
⑦					㉔		ITEM OF WIRE THIMBLES 3/16" DIA. (GALV.)				
BELT CLEANERS	⑧	1	24" B.W. GORDON PRECLEANER	SKIRT BOARD	⑳						
	⑨	1	24" B.W. GORDON URETHANE SECONDARY CLEANER		㉕		MARTIN "DURT SEAL" SKIRT SYSTEM COMPLETE WITH 19 CLAMPS AND 1 ROLL SPECIAL SKIRT RUBBER				
	⑩	1	24" B.W. STAINLESS STEEL BLADE CLEANER								

ddc	7/20/92	Approval Changes	1
BY	DATE	REVISIONS	NO.
CONTINENTAL CONVEYOR & EQUIPMENT COMPANY, INC. A NESCO Company			
post office box 400 winfield, ill 35594 (205)487-6492			JOB NUMBER W-10393
EQUIPMENT LIST for 24" B.W. HAC® WASTE WATER TREATMENT PLANT SUPERIOR, WISCONSIN			DRAWING NUMBER E-2A

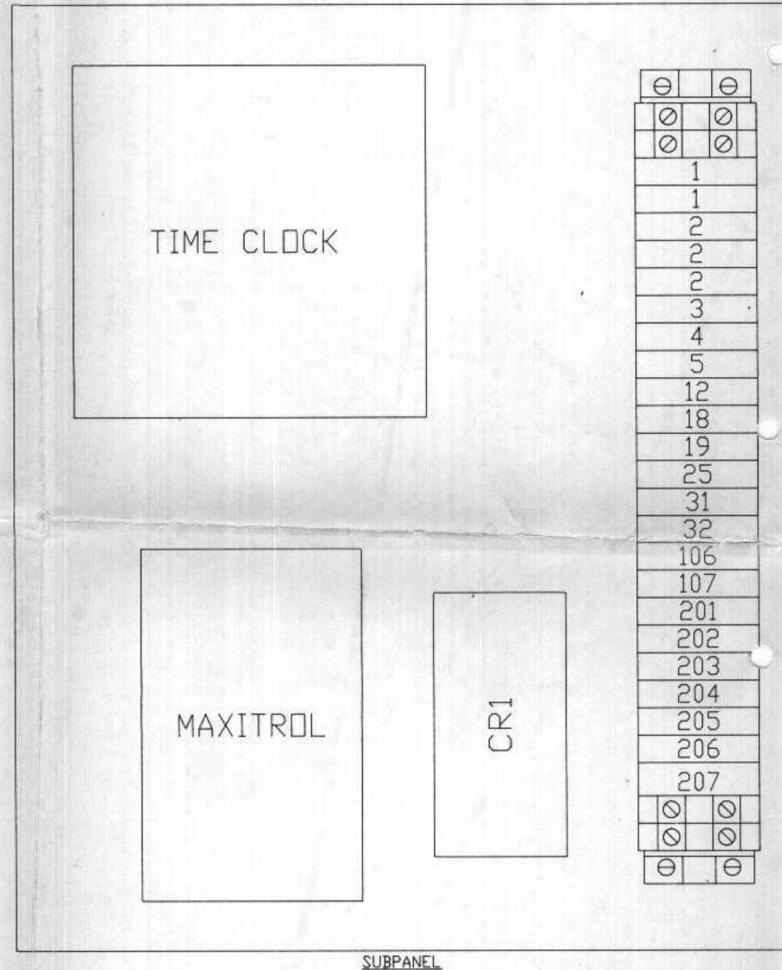
TOLERANCES NOT OTHERWISE SPECIFIED
 STEEL WORK "AISI"
 FRACTIONAL ± 1/32
 DECIMAL ± 1/64
 ANGULAR DO NOT SCALE PRINT

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DRAWN BY Morgan
 CHECKED BY
 APPROVED
 SCALE NONE
 DO NOT SCALE PRINT



ENCLOSURE: 12"H x 10"W x 8.0"D
 JIC CONSTRUCTION
 W/DNE 10.75"H x 8.88"W SUBPANEL



SUBPANEL

RINGTAG SPECIFICATIONS :
 TYPE : CR080PXN2
 LETTER SIZE : 0.125
 CUTTER : 0.020
 DEPTH : 0.008

RINGTAG SCHEDULE	
RTG	DESCRIPTION
A	RUN
B	DN
C	HAND - OFF - AUTO
D	OFF - AUTO
E	SUMMER - OFF - WINTER

NAMEPLATE SPECIFICATIONS :
 MATERIAL : GRAVOPLY II, WHT W/BLK LETTERS
 LETTER SIZE : .156
 CUTTER : .020
 DEPTH : 5

NAMEPLATE SCHEDULE		
NP#	SIZE	DESCRIPTION
1	A	BLOWER
2	A	BURNER ALARM
3	A	MAIN FLAME
4	A	EXHAUST FAN #1
5	A	EXHAUST FAN #2
6	A	EXHAUST FAN #3
7	A	MUA CONTROL

APPROVED
 DATE 7/20/92
 BY JSL/G

PANEL SHALL BE CONSTRUCTED PER
 UL 508 REQ. AND COMPLETE ASSEMBLY
 SHALL BEAR A SERIALIZED UL LABEL

CITY OF SUPERIOR - WWTTP
 MAIN PLANT BENT FILTER PRESS BARS

07/09/92 13100 C5077A01

No.	DATE	BY	DESCRIPTION
A	7/9/92	RJB	REVISED PER CUSTOMER

SCALE 1=1 APPR
 DR RJB DATE 5/26/92
 CK DATE
 SHOP ISSUE DATE

Control Assemblies Co.
 Factory Automation Specialists
 Minneapolis, Minnesota

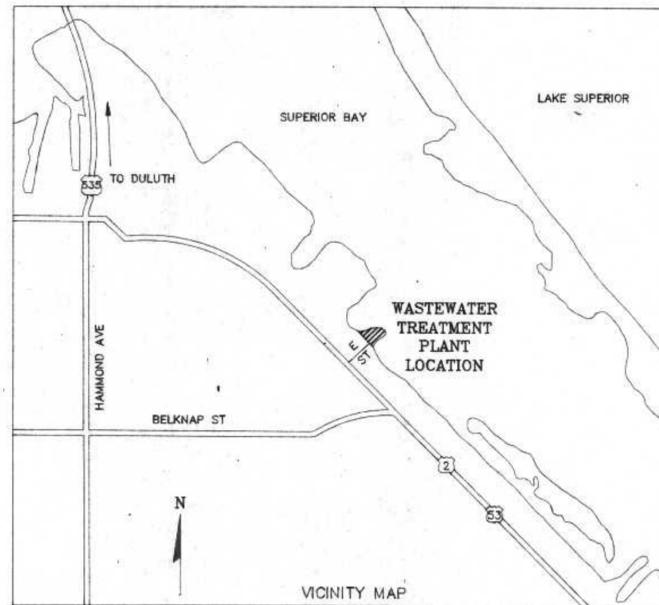
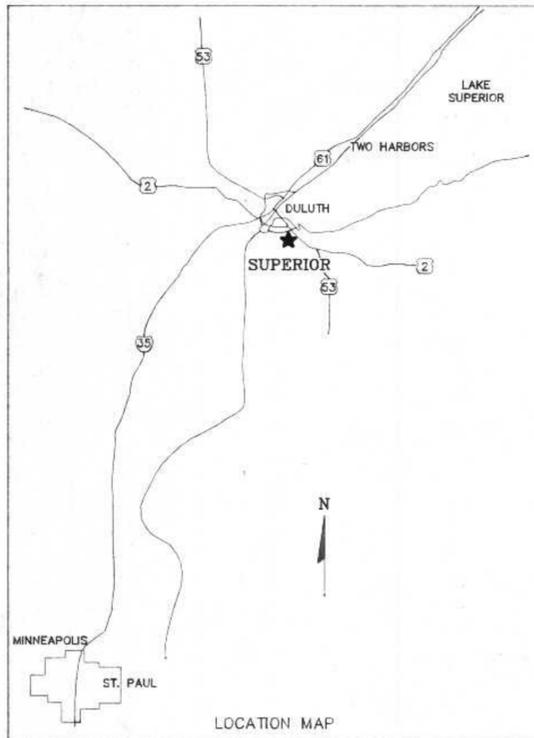
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DESCRIPTION:
 REMOTE BURNER
 CONTROL PANEL
 PANEL LAYOUT

FOR:
 L.E. RIBAR CO.

DRAWING NO.
 C5077
 SHEET 1 OF 2

PLANS FOR CONSTRUCTION OF
 SLUDGE DEWATERING/HANDLING FACILITIES
 SUPERIOR WASTE WATER
 TREATMENT PLANT
 CITY OF
 SUPERIOR, WISCONSIN



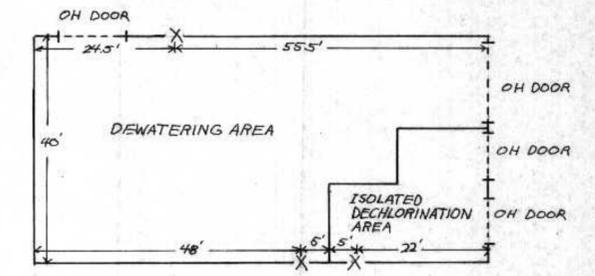
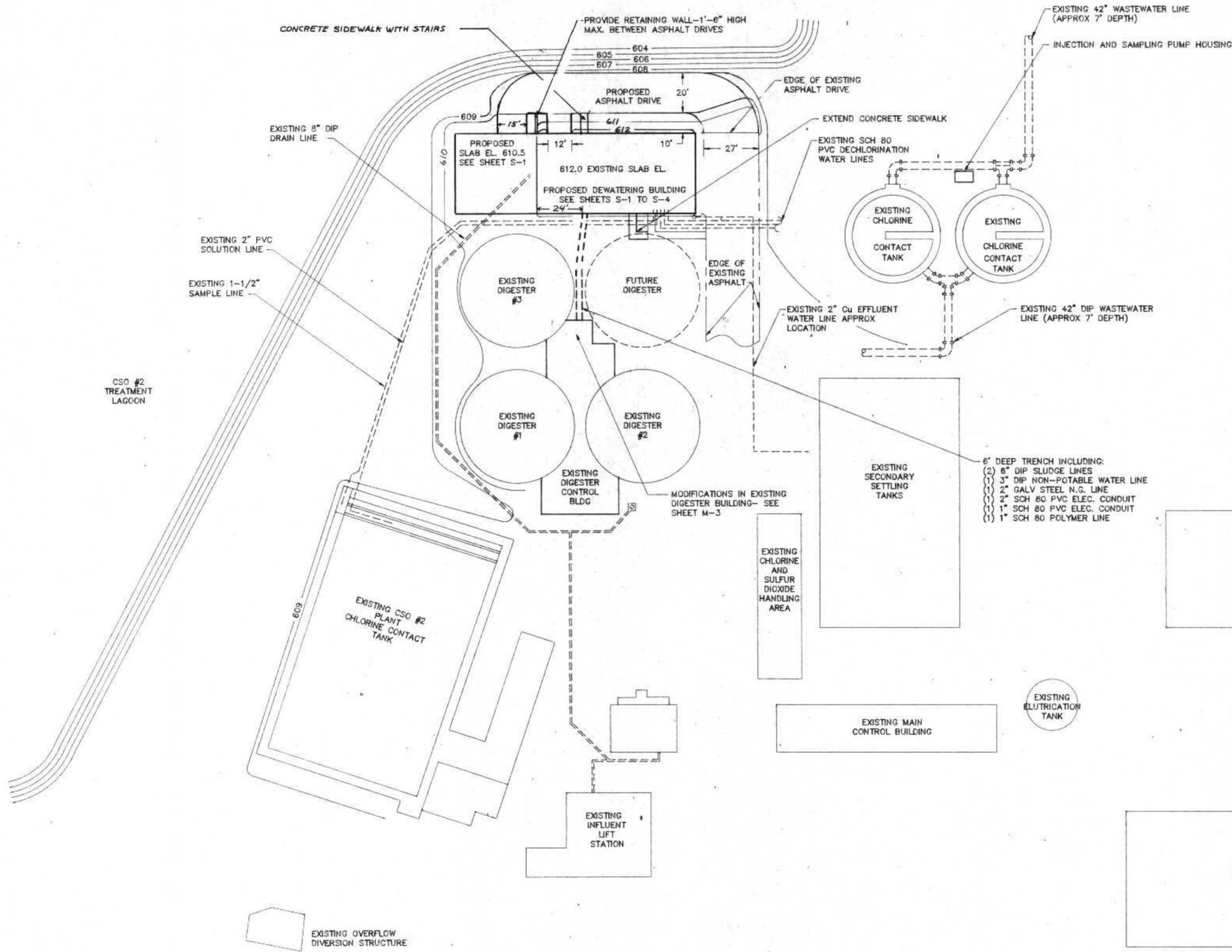
INDEX TO PLANS

TITLE	SHEET NO.
<i>SITE PLAN</i>	<i>C-1</i>
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<i>DEWATERING BUILDING ROOF AND WALL SYSTEMS</i>	<i>S-2</i>
<i>DEWATERING BUILDING ELEVATIONS</i>	<i>S-3</i>
<i>DEWATERING BUILDING STRUCTURAL DETAILS</i>	<i>S-4</i>
<i>DEWATERING BUILDING MECHANICAL PLAN</i>	<i>M-1</i>
<i>DEWATERING BUILDING MECHANICAL SECTIONS</i>	<i>M-2</i>
<i>DIGESTER CONTROL BUILDING MODIFICATIONS</i>	<i>M-3</i>
<i>SLUDGE CAKE STORAGE BIN</i>	<i>M-4</i>
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<i>MECHANICAL DETAILS</i>	<i>M-6</i>
<i>DEWATERING BUILDING HVAC</i>	<i>H-1</i>
<i>ELECTRICAL SITE PLAN AND DISTRIBUTION</i>	<i>E-1</i>
<i>ELECTRICAL PLANS- DEWATERING & DIGESTER BLDGS</i>	<i>E-2</i>
<i>ELECTRICAL DETAILS</i>	<i>E-3</i>

REVISED 8/22/91
 5/15/92
 9/21/92

ENGINEER
 RMA ENGINEERING CO.
 DULUTH, MN

SLUDGE DEWATERING
 HANDLING FACILITY
 1991-92



BUILDING EXIT DIAGRAM
Scale 1"=15'

SITE PLAN NOTES

- BUILDING CONTRACTOR RESPONSIBLE FOR CONCRETE WORK, DEWATERING BUILDING, ASPHALT DRIVE EXTENSION, SIDEWALK EXTENSION, NECESSARY RESEEDING AND ASPHALT PATCH AND NECESSARY GRADING WORK.
- MECHANICAL CONTRACTOR RESPONSIBLE FOR PIPE TRENCH AND YARD PIPING.
- ELECTRICAL SUB-CONTRACTOR (UNDER MECHANICAL) RESPONSIBLE FOR OUTSIDE ELECTRICAL DISTRIBUTION- SEE SHEET E-1.
- WORK UNDER THIS CONTRACT SHOWN IN DARK LINE
- ASPHALT DRIVE TO INCLUDE 6" GRAVEL SUBBASE (AS REQUIRED), 3" ASPHALT BASE COURSE, AND 1" ASPHALT SURFACE COURSE.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
Richard Anthony
DATE: 6/24/91 REG. NO. 25488

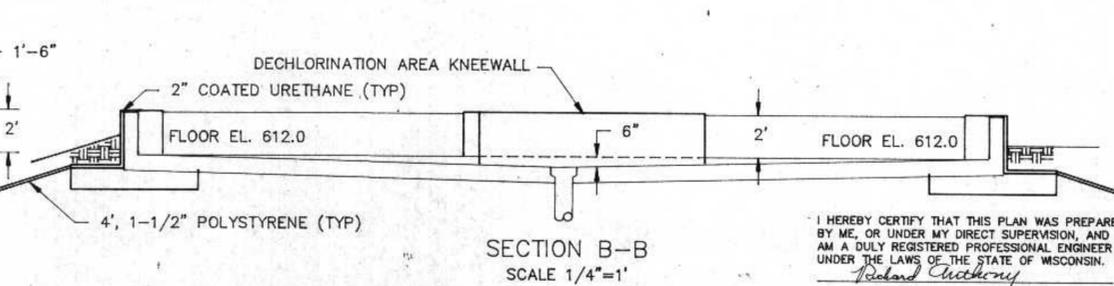
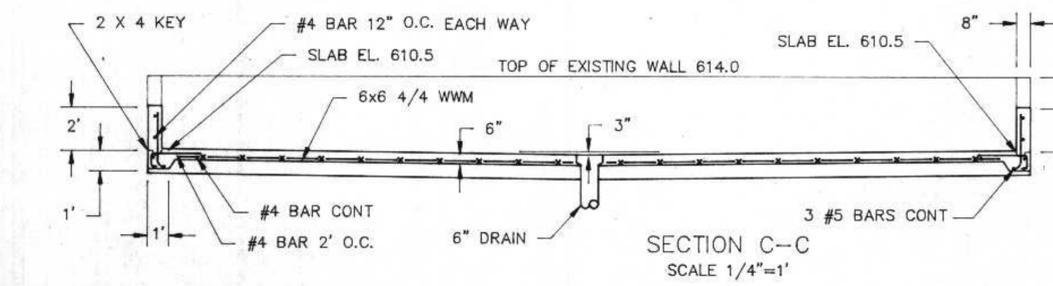
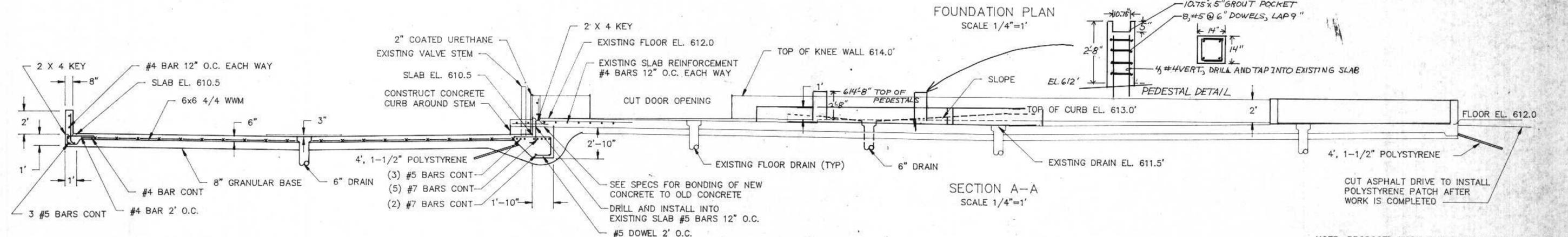
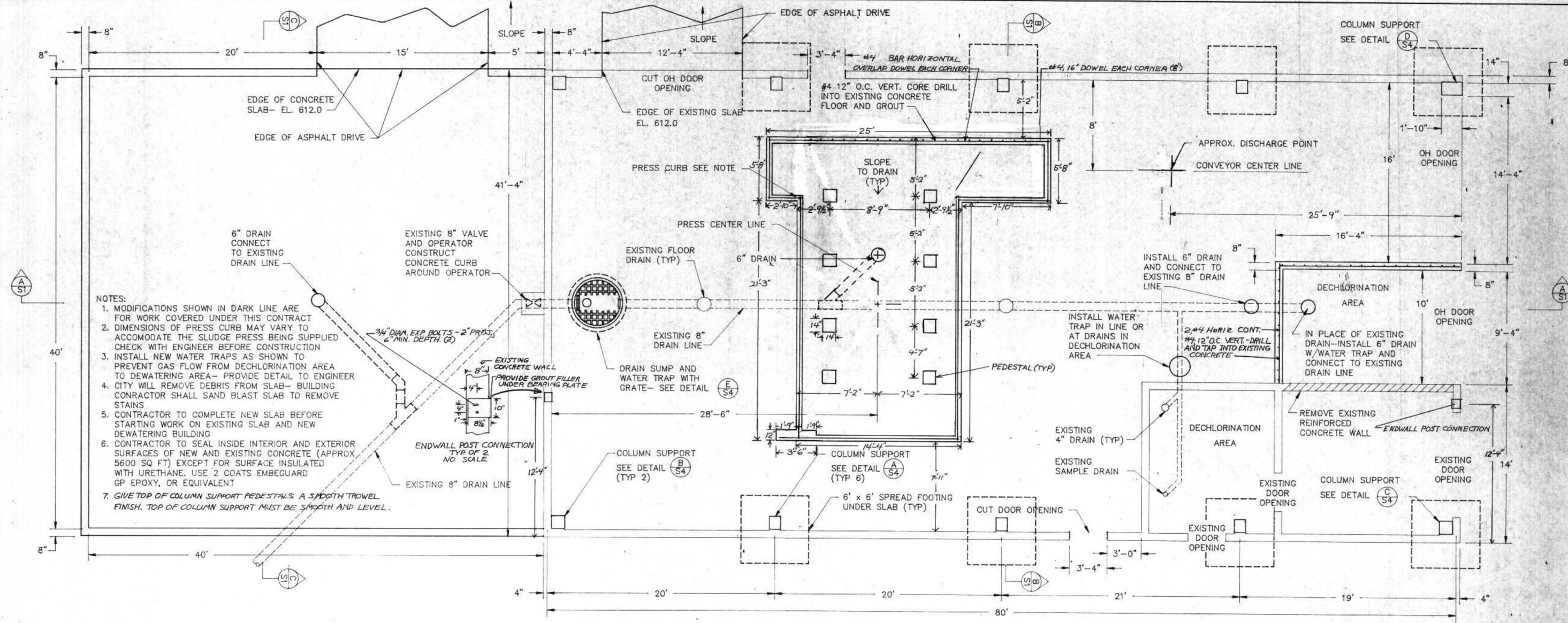
REVISIONS		
NO.	BY	DATE
1	RMA	3/22/91

SITE PLAN

CITY OF SUPERIOR, WISCONSIN
WASTE WATER TREATMENT PLANT
SLUDGE DEWATERING/HANDLING FACILITIES

DESIGNED BY <i>RMA</i>	SCALE 1"=30'	JOB NO.
DRAWN BY <i>GB</i>	RMA ENGINEERING COMPANY	
CHECKED BY	CONSULTING ENGINEERS	
APPROVED BY	DATE	SHEET C-1





I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
Richard Anthony
 DATE: 6/24/91 REG. NO.: 25488

REVISIONS		
NO.	BY	DATE
1	RMA	3/22/91
2	RMA	5/15/92
3	RMA	8/17/92

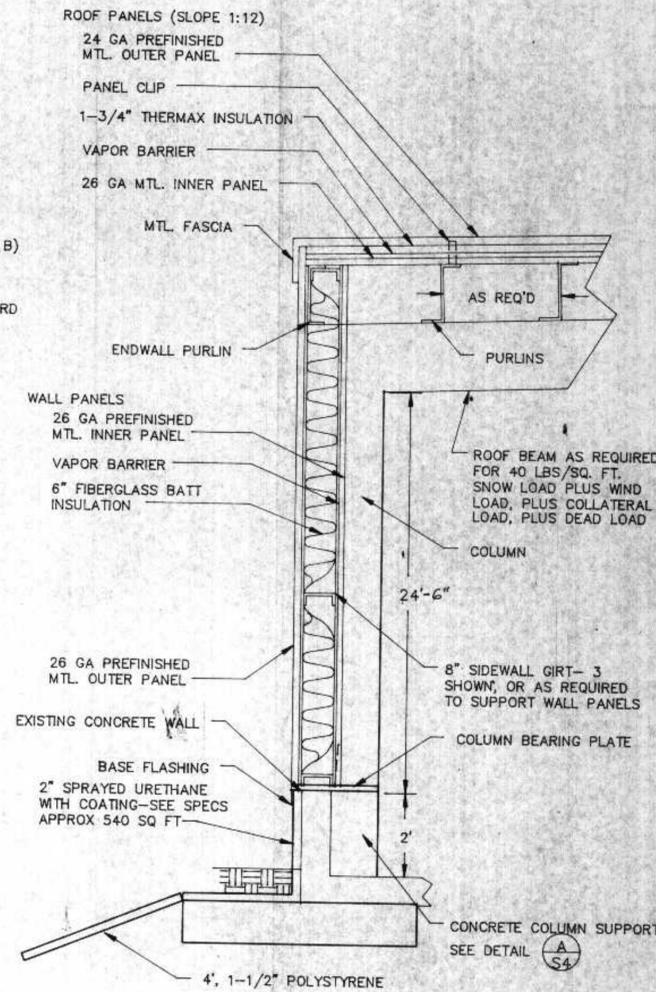
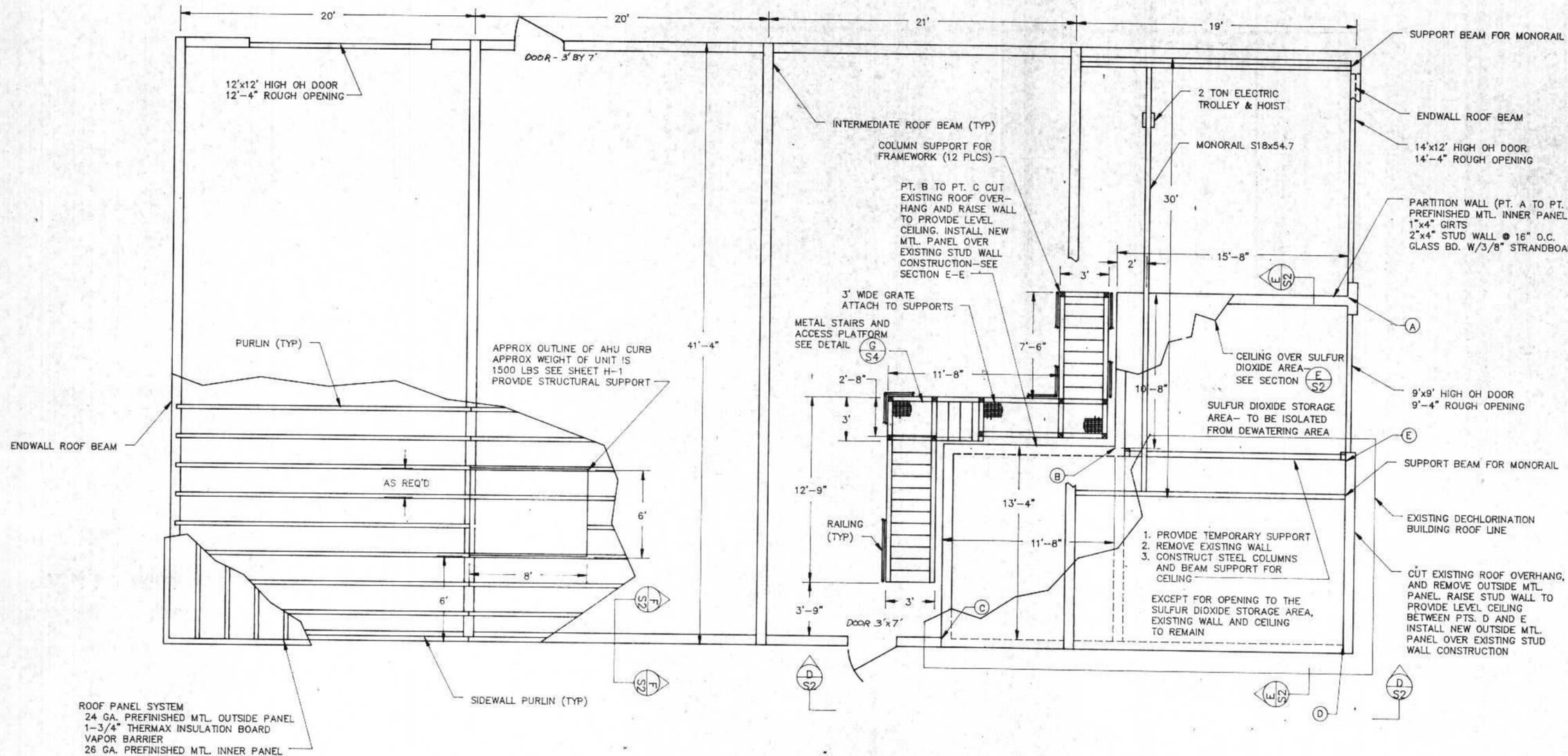
DEWATERING BUILDING FOUNDATION PLAN

CITY OF SUPERIOR, WISCONSIN
 WASTE WATER TREATMENT PLANT,
 SLUDGE DEWATERING/HANDLING FACILITIES

DESIGNED BY RMA
 DRAWN BY GB
 CHECKED BY
 APPROVED BY

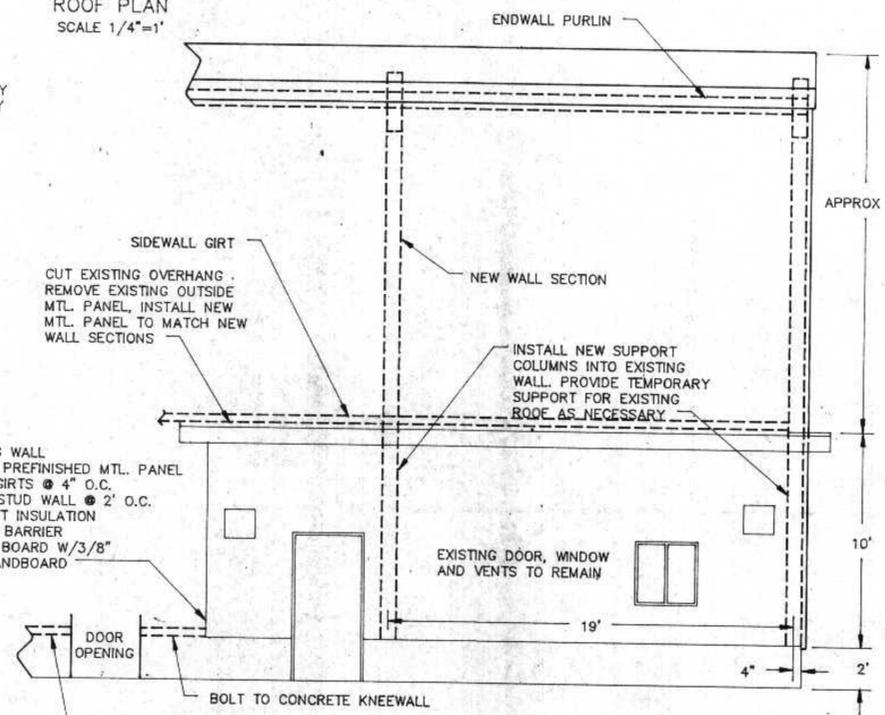
RMA ENGINEERING COMPANY
 CONSULTING ENGINEERS

SCALE 1/4"=1'
 SHEET S-1



ROOF PANEL SYSTEM
 24 GA. PREFINISHED MTL. OUTSIDE PANEL
 1-3/4" THERMAX INSULATION BOARD
 VAPOR BARRIER
 26 GA. PREFINISHED MTL. INNER PANEL

ROOF PLAN
 SCALE 1/4"=1'



SECTION D-D
 SCALE 1/4"=1'

SECTION E-E
 SCALE 1/4"=1'

- NOTES:
1. ROOF SYSTEM: PROVIDE BEAMS, COLUMNS AND PURLINS TO SUPPORT 40 PSF SNOW LOAD, AND 20 PSF WIND LOAD, 3 PSF COLLATERAL LOAD AND DEAD LOAD
 2. PURLIN AND WALL GIRTS SPACING CAN BE VARIED DEPENDING ON STRUCTURAL AND MANUFACTURING REQUIREMENTS
 3. EXISTING DECHLORINATION BUILDING TO BE KEPT INTACT WHILE DEWATERING BUILDING IS BEING CONSTRUCTED
 4. OUTSIDE METAL PANEL AROUND EXISTING BUILDING IS TO BE REMOVED AND REPLACED WITH NEW PANEL TO MATCH THE REST OF THE BUILDING
 5. FOR METAL BUILDING STRUCTURAL DETAILS- SEE BUTLER BUILDING PLANS

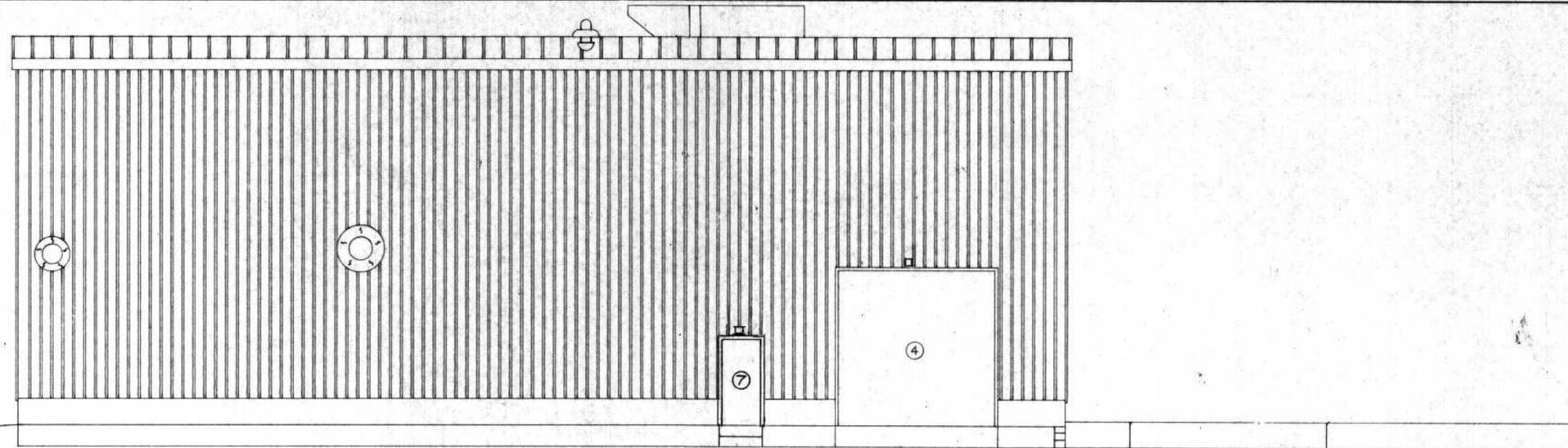
NOTE: THIS BUILDING DOES NOT HAVE A PERMANENT WORK SPACE. IT WILL BE OCCUPIED INTERMITTENTLY ONLY WHEN THE SLUDGE DEWATERING EQUIPMENT IS OPERATING OR BEING SERVICED. WORK STATIONS AND RESTROOM FACILITIES ARE LOCATED IN THE OPERATIONS BUILDING.

REVISIONS		
NO.	BY	DATE
1	RMA	8/23/91
2	RMA	6/13/92

DEWATERING BUILDING
 ROOF AND WALL SYSTEMS
 CITY OF SUPERIOR, WISCONSIN
 WASTE WATER TREATMENT PLANT
 SLUDGE DEWATERING/HANDLING
 FACILITIES

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
Richard Anthony
 DATE: 6/24/91 REG. NO.: 25488

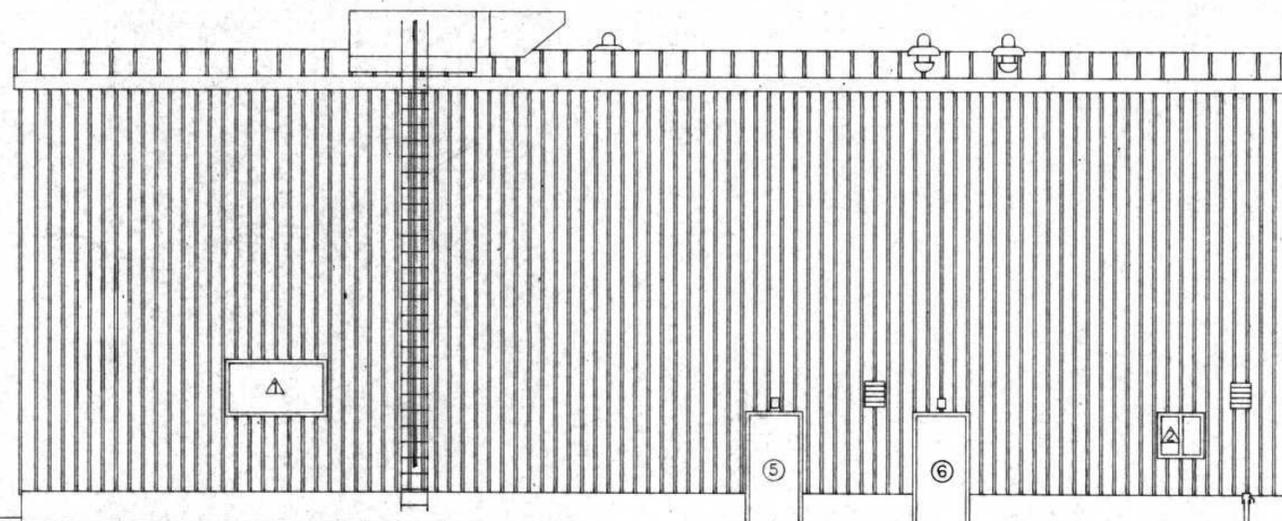
DESIGNED BY RMA
 DRAWN BY GB
 CHECKED BY
 APPROVED BY
 RMA ENGINEERING COMPANY
 CONSULTING ENGINEERS
 SCALE
 DATE
 SHEET S-2



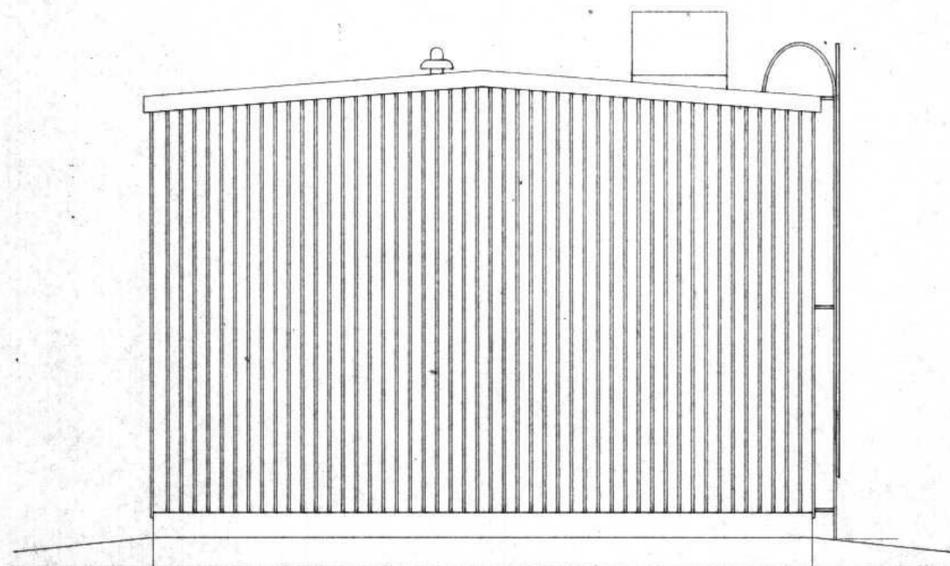
NORTH ELEVATION
SCALE 3/16"=1'

DOOR SCHEDULE					
LOCATION	TYPE	ROUGH OPENING	SIZE	THRESHOLD	REMARKS
① OH DOOR					EXISTING
② OH DOOR	INSULATED STEEL	9'-4" x 9'-2"	9' x 9'	NONE	POWER DOOR OPENER
③ OH DOOR	INSULATED STEEL	14'-4" x 12'-2"	14' x 12'	NONE	POWER DOOR OPENER
④ OH DOOR	INSULATED STEEL	12'-4" x 12'-2"	12' x 12'	NONE	POWER DOOR OPENER
⑤ DOOR	INSULATED STEEL	3'-4" x 7'-2"	3' x 7'	ALUMINUM	
⑥ DOOR					EXISTING
⑦ DOOR	INSULATED STEEL	3'-4" x 7'-2"	3' x 7'	ALUMINUM	

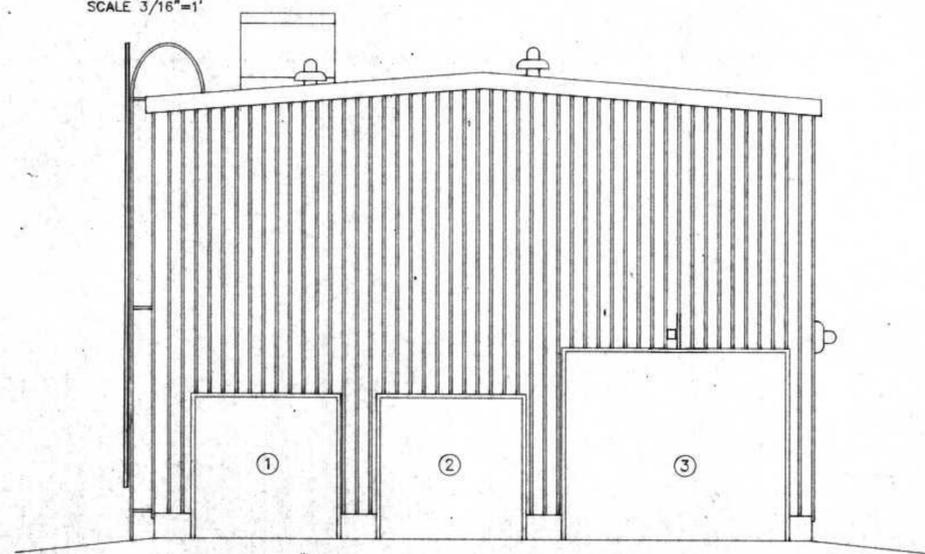
WINDOW SCHEDULE				
LOCATION	ROUGH OPENING	SIZE	GLASS	REMARKS
△	3'-4" x 6'-4"	3' x 6'	DBLE GLAZED INSULATION	
△				EXISTING



SOUTH ELEVATION
SCALE 3/16"=1'



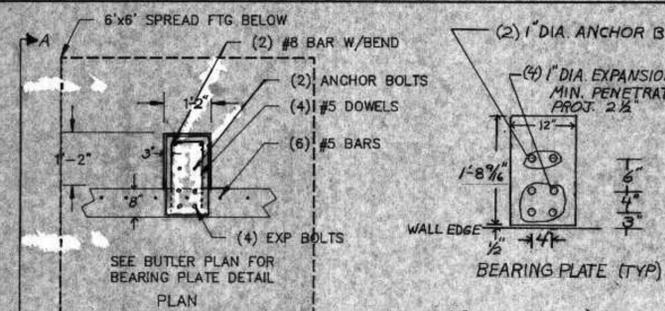
WEST ELEVATION
SCALE 3/16"=1'



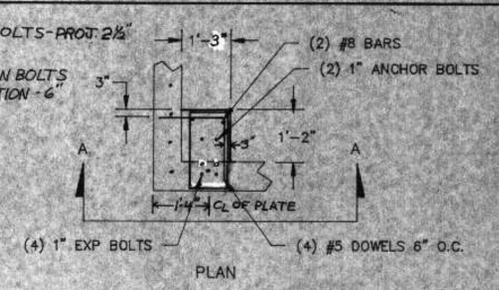
EAST ELEVATION

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Richard Anthony
DATE: 6/24/91 REG. NO.: 25488

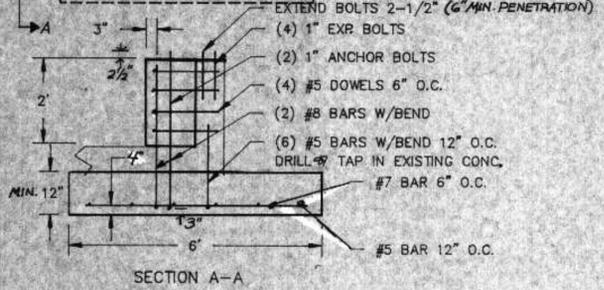
REVISIONS			DEWATERING BUILDING ELEVATIONS	
NO.	BY	DATE		
1	RMA	8/22/91	CITY OF SUPERIOR, WISCONSIN WASTE WATER TREATMENT PLANT SLUDGE DEWATERING/HANDLING FACILITIES	
2	RMA	5/15/92		
			RMA ENGINEERING COMPANY	
			CONSULTING ENGINEERS	
			SCALE 3/16"=1'	JOB NO.
			DATE	
			APPROVED BY	SHEET S-3



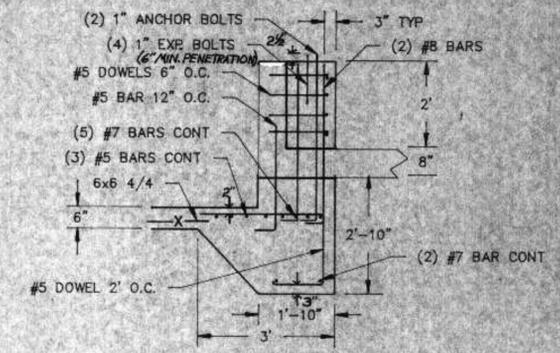
BEARING PLATE (TYP)



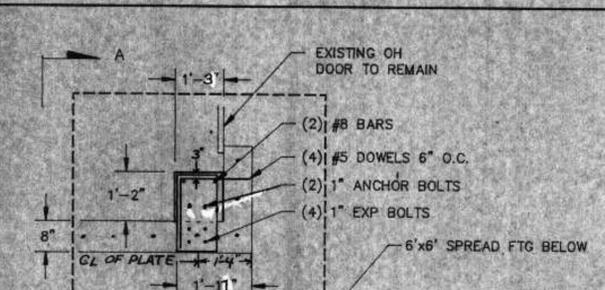
PLAN



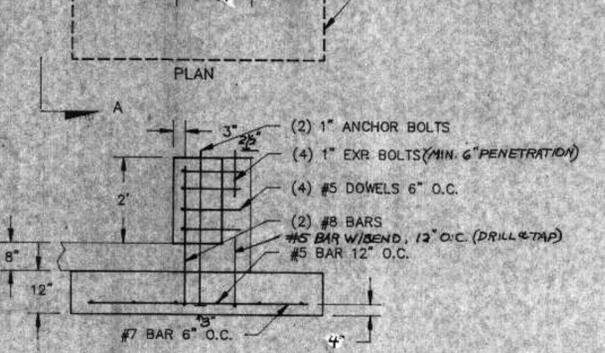
DETAIL A S4
NOT TO SCALE
SEE NOTES 1 AND 2



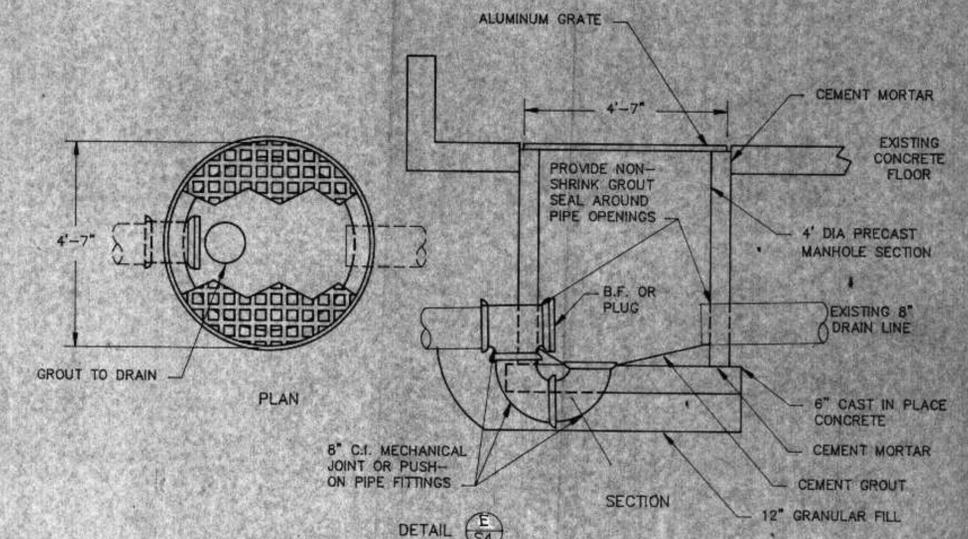
SECTION DETAIL B S4
NOT TO SCALE
SEE NOTES 1 AND 2



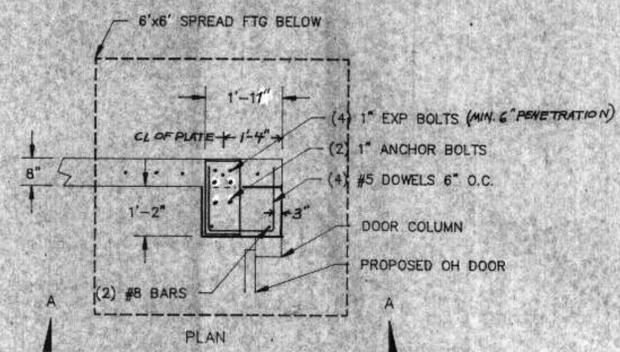
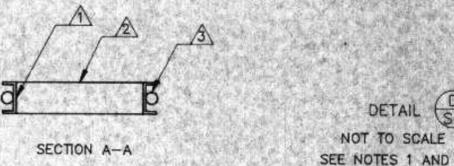
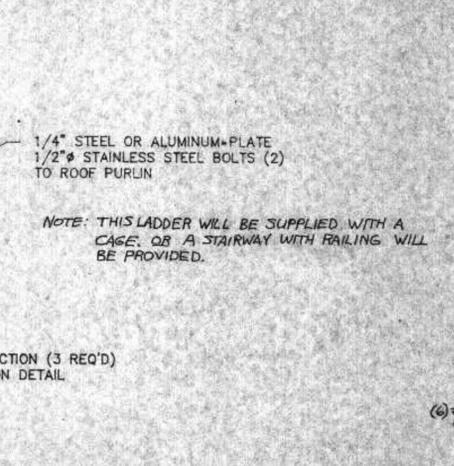
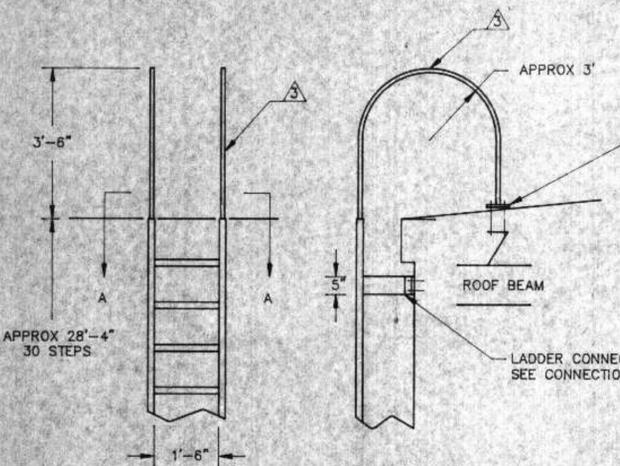
PLAN



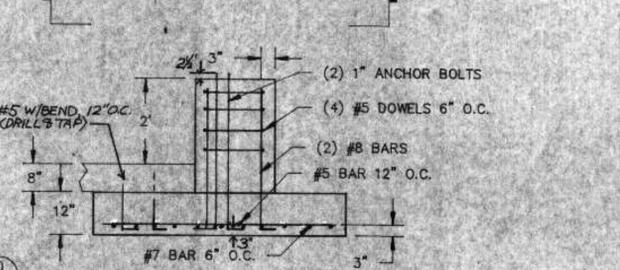
DETAIL C S4
NOT TO SCALE
SEE NOTES 1 AND 2



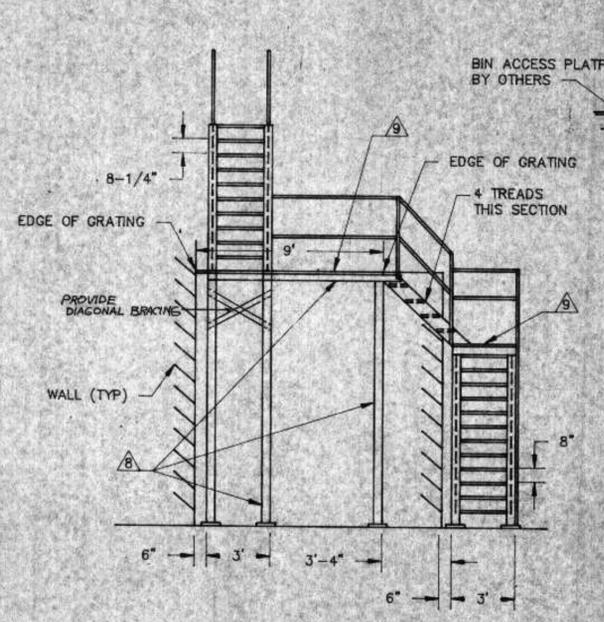
DETAIL E S4
NOT TO SCALE
SEE NOTE 1



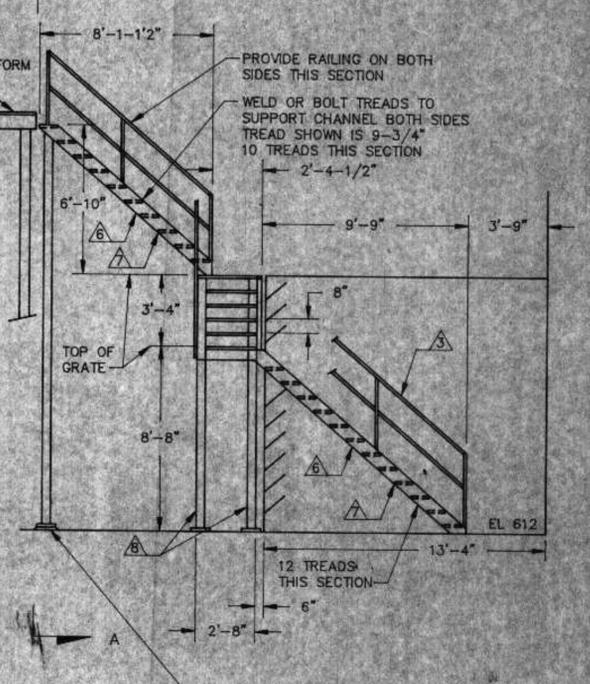
PLAN



DETAIL D S4
NOT TO SCALE
SEE NOTES 1 AND 2



SECTION A-A



DETAIL G S4
STAIRWAY SCALE: 1/4"=1'

- LADDER AND STAIRWAY SCHEDULE
- ▲ 4" STEEL OR ALUMINUM C CHANNEL RISER
 - ▲ 4" STEEL OR ALUMINUM C CHANNEL STEPS WELD TO RISER
 - ▲ 1" STEEL OR 1-1/2" ALUMINUM RAILS
 - ▲ 5" x 12" x 3/8" STEEL OR ALUMINUM PLATE WELD TO RISER
 - ▲ 5" LONG, 3" STEEL OR ALUMINUM ANGLE WELD TO PLATE
 - ▲ STEEL OR ALUMINUM CHANNEL STAIR TREAD SUPPORTS AS REQUIRED
 - ▲ STEEL OR ALUMINUM STAIR TREAD WELDED WITH NOSE PLATE- 300 LB DESIGN LOAD 9-3/4" TREAD WIDTH
 - ▲ 4" STEEL OR ALUMINUM CHANNEL STRUCTURAL SUPPORTS
 - ▲ STEEL OR ALUMINUM GRATING- 36" SPAN 200 LBS PER SQUARE FOOT

COATINGS
ALUMINUM-NOT REQUIRED
ALL STEEL- HOT DIP GALVANIZED

- NOTES:
- DRILL AND GROUT REBAR INTO EXISTING CONCRETE. SANDBLAST AND CLEAN EXISTING CONCRETE TO BE IN CONTACT WITH NEW CONCRETE. BEFORE NEW CONCRETE IS DEPOSITED THE SURFACE SHOULD BE COATED WITH 1/2" OF MORTAR.
 - CORE DRILL REBAR AS SHOWN INTO EXISTING CONCRETE FLOOR AND KNEEWALL AND GROUT
 - PROVIDE STAINLESS STEEL CONNECTIONS FOR ALL STAIRWAYS AND GRATINGS
 - EXISTING CONCRETE KNEEWALL MAY VARY SLIGHTLY IN TOP ELEVATION. CONSTRUCT CONCRETE SUPPORTS FOR BUILDING COLUMNS TO HAVE IDENTICAL TOP ELEVATION
 - BUILDING COLUMN ANCHOR PLATE DETAILS ARE SHOWN IN BUTLER BUILDING DRAWINGS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
Richard Anthony
DATE: 6/24/91 REG. NO.: 23482

REVISIONS		
NO.	BY	DATE
1	RMG	5/22/91
2	RMG	6/15/92

DESIGNED BY RMG
DRAWN BY GB
CHECKED BY
APPROVED BY

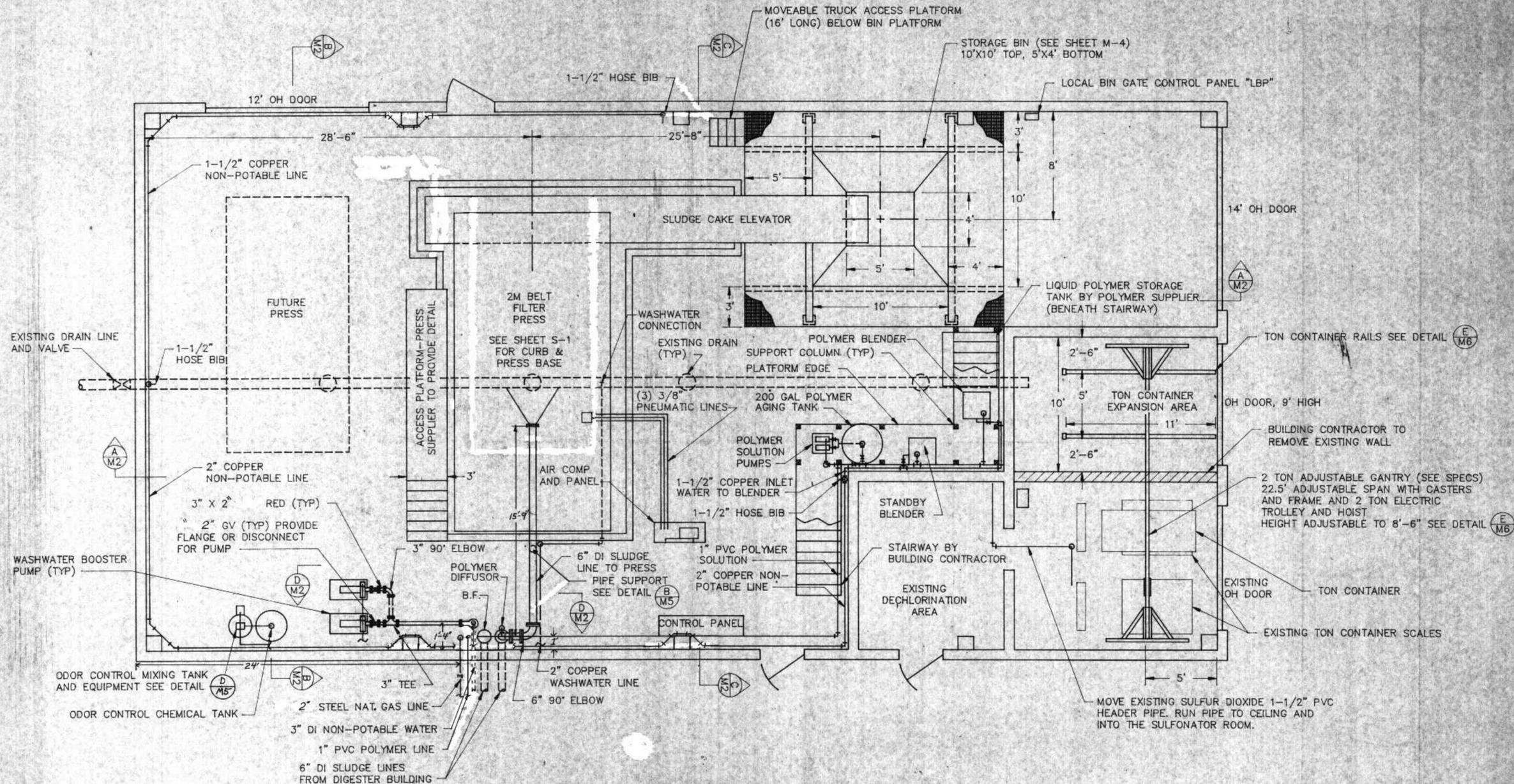
DEWATERING BUILDING STRUCTURAL DETAILS

CITY OF SUPERIOR, WISCONSIN
WASTE WATER TREATMENT PLANT
SLUDGE DEWATERING/HANDLING FACILITIES

RMA ENGINEERING COMPANY
CONSULTING ENGINEERS

SCALE: JOB NO.
DATE: SHEET S-4

DETAIL F S4
DEWATERING BUILDING ROOF LADDER
NO SCALE



PLAN VIEW
 SLUDGE DEWATERING BUILDING
 SCALE 1/4"=1'

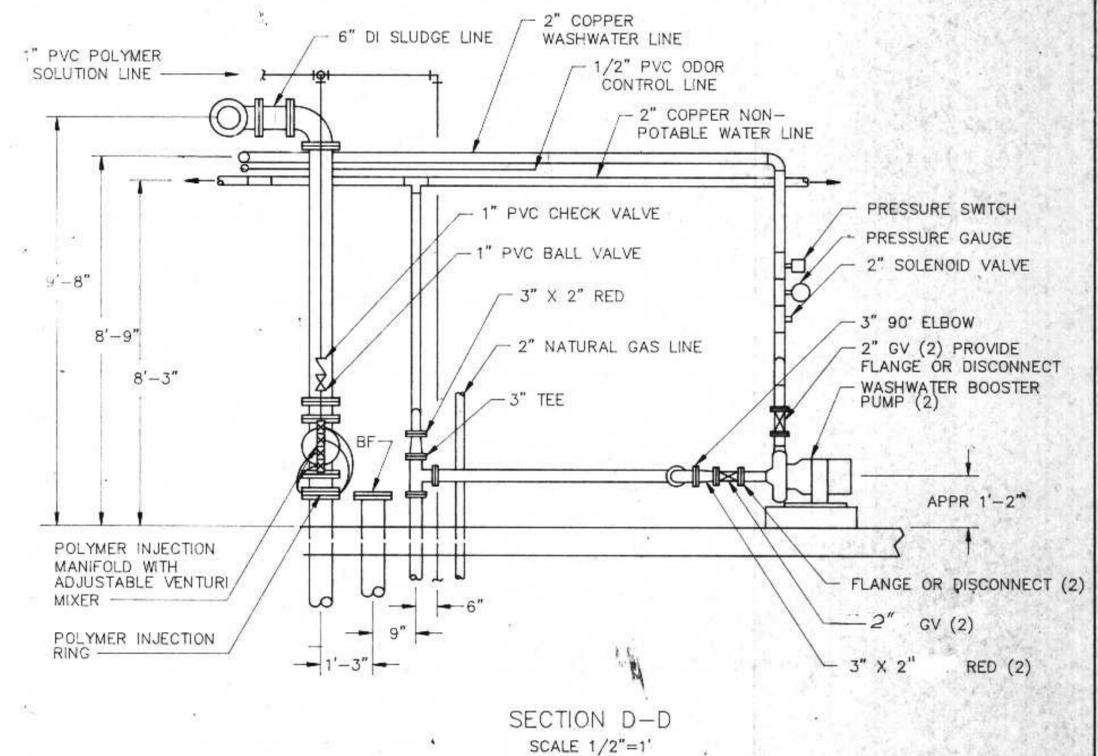
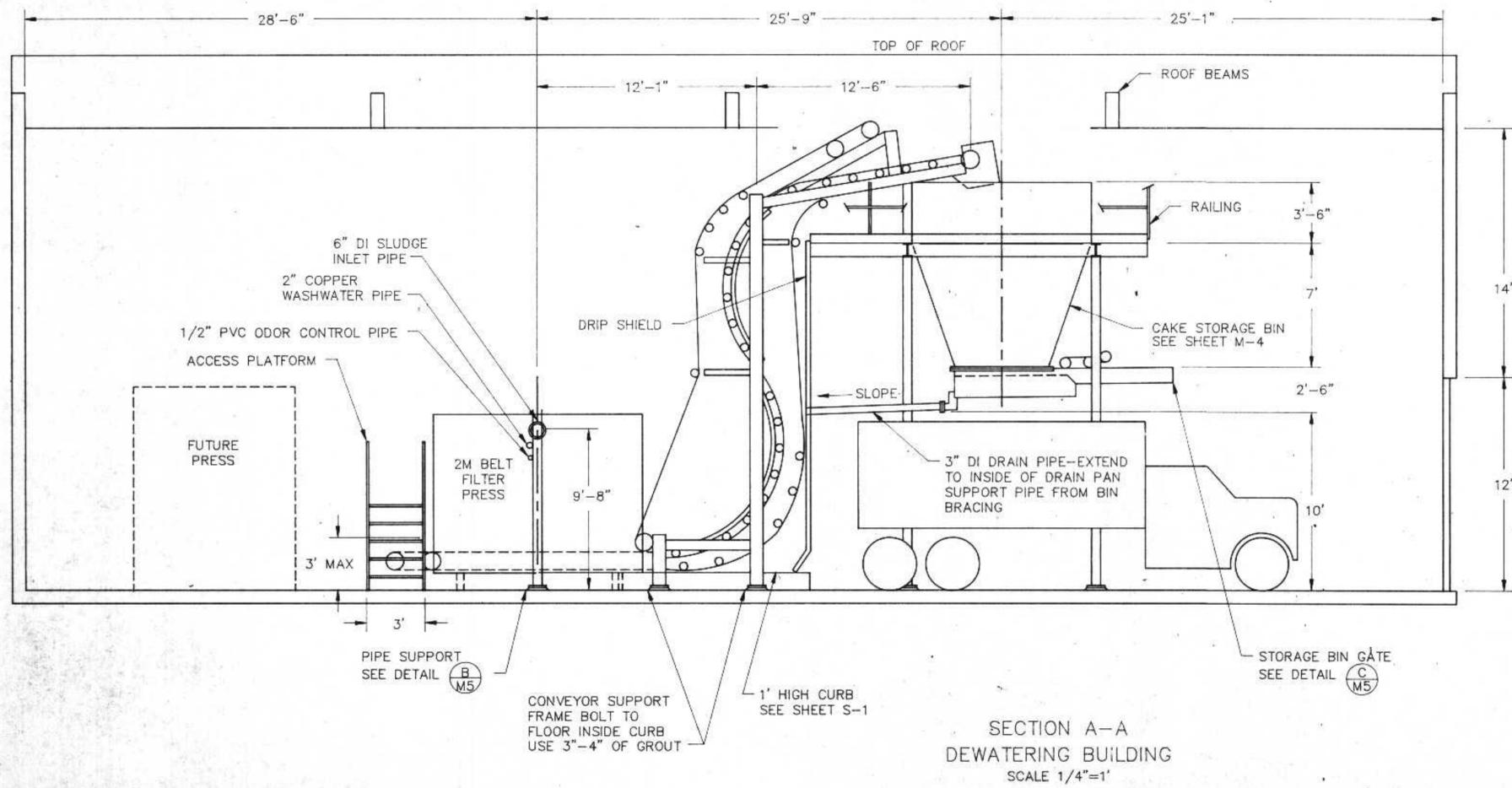
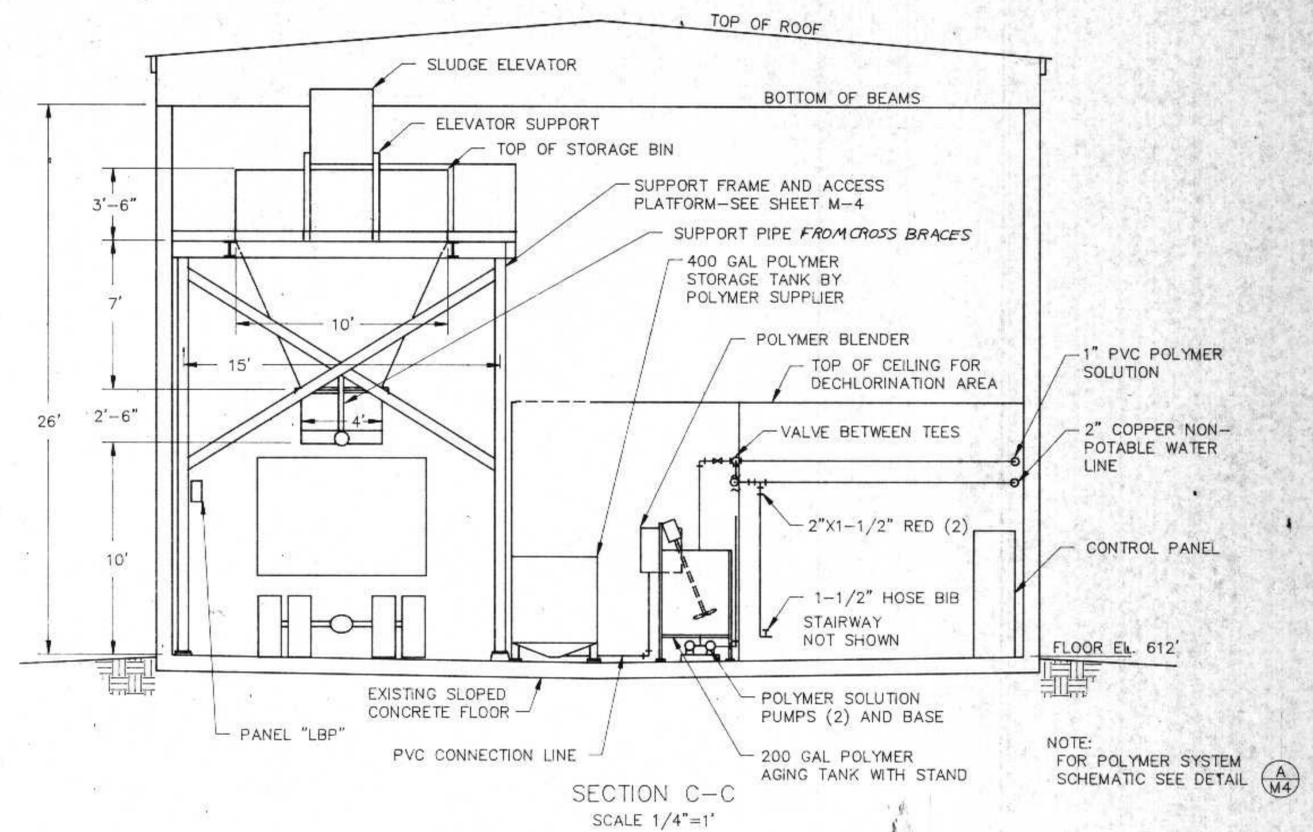
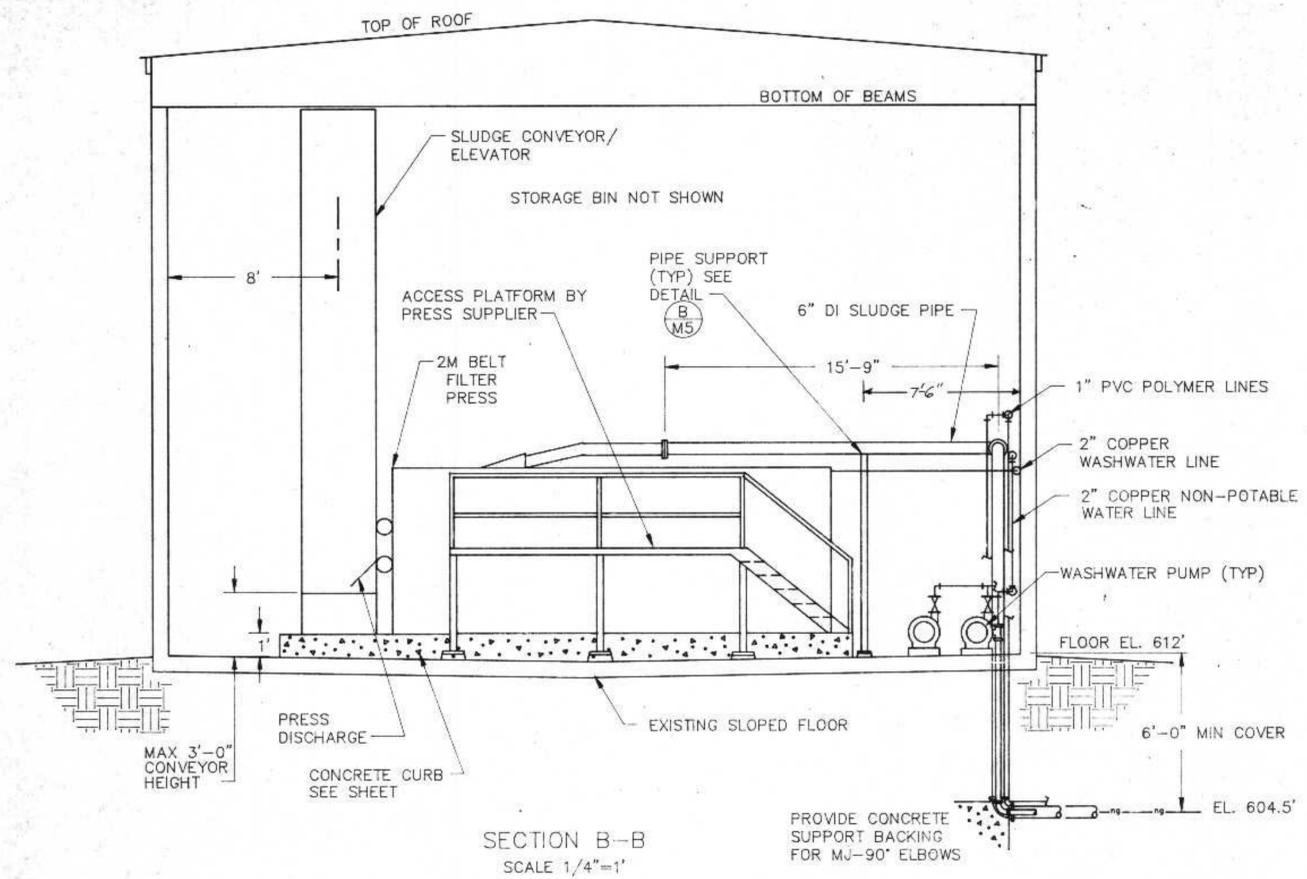
- NOTES:
1. FOR POLYMER SYSTEM INCLUDING VALVES SEE DETAIL (A M5)
 2. SEE SHEET M-4 FOR CAKE BIN AND ACCESS PLATFORM

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
Richard A. Ruckow
 DATE: 6/24/91 REG. NO.: 25488

REVISIONS		
NO.	BY	DATE
1	RWA	8/22/91
2	RWA	7/6/92

DEWATERING BUILDING
 MECHANICAL PLAN
 CITY OF SUPERIOR, WISCONSIN
 WASTE WATER TREATMENT PLANT
 SLUDGE DEWATERING/HANDLING
 FACILITIES

DESIGNED BY <i>RWA</i>	RMA ENGINEERING COMPANY CONSULTING ENGINEERS	SCALE 1/4"=1'	JOB NO.
DRAWN BY <i>GB</i>		DATE	
CHECKED BY			
APPROVED BY			SHEET M-1



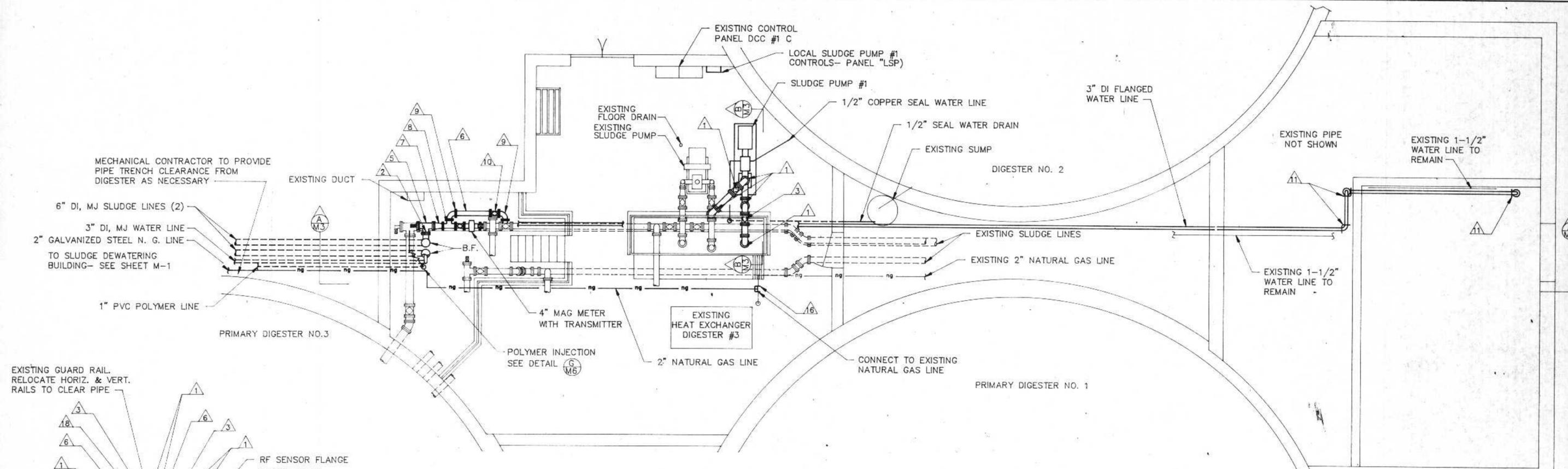
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
Richard Anthony
DATE: 6/24/91 REG. NO.: 25488

REVISIONS		
NO.	BY	DATE
1	RUA	8/22/91
2	RUA	9/22/91

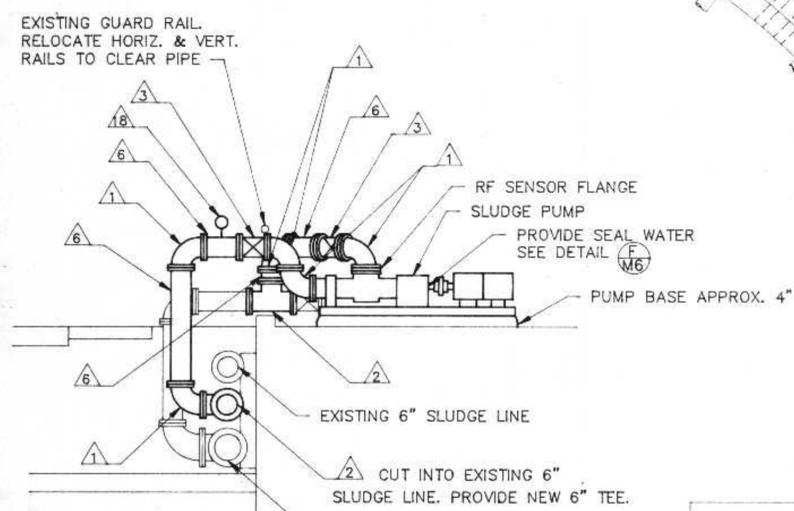
DESIGNED BY <i>RUA</i>		SCALE	JOB NO.
DRAWN BY <i>GB</i>		DATE	
CHECKED BY		RMA ENGINEERING COMPANY	
APPROVED BY		CONSULTING ENGINEERS	
		SHEET	M-2

DEWATERING BUILDING
MECHANICAL SECTIONS

CITY OF SUPERIOR, WISCONSIN
WASTE WATER TREATMENT PLANT
SLUDGE DEWATERING/HANDLING
FACILITIES



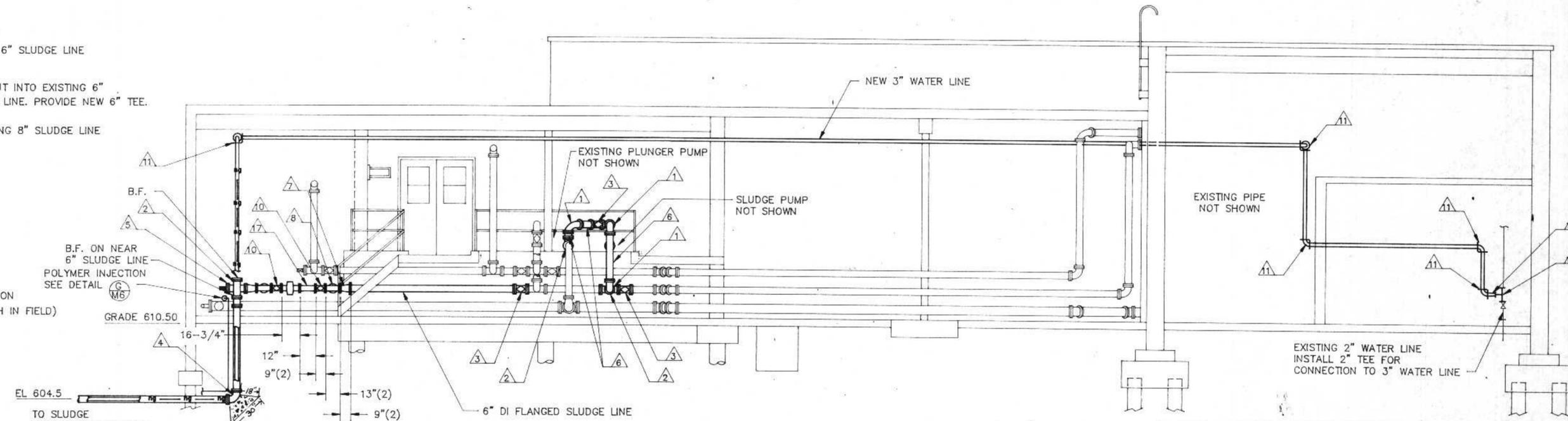
PLAN VIEW
 SCALE: 1/4"=1'



SECTION (B M5)
 SCALE: 3/8"=1'

VALVE AND FITTING SCHEDULE

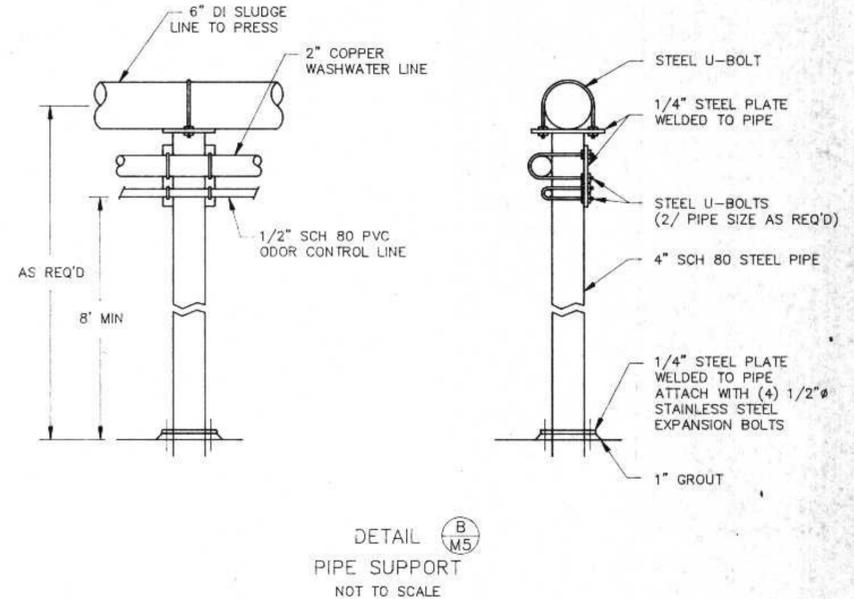
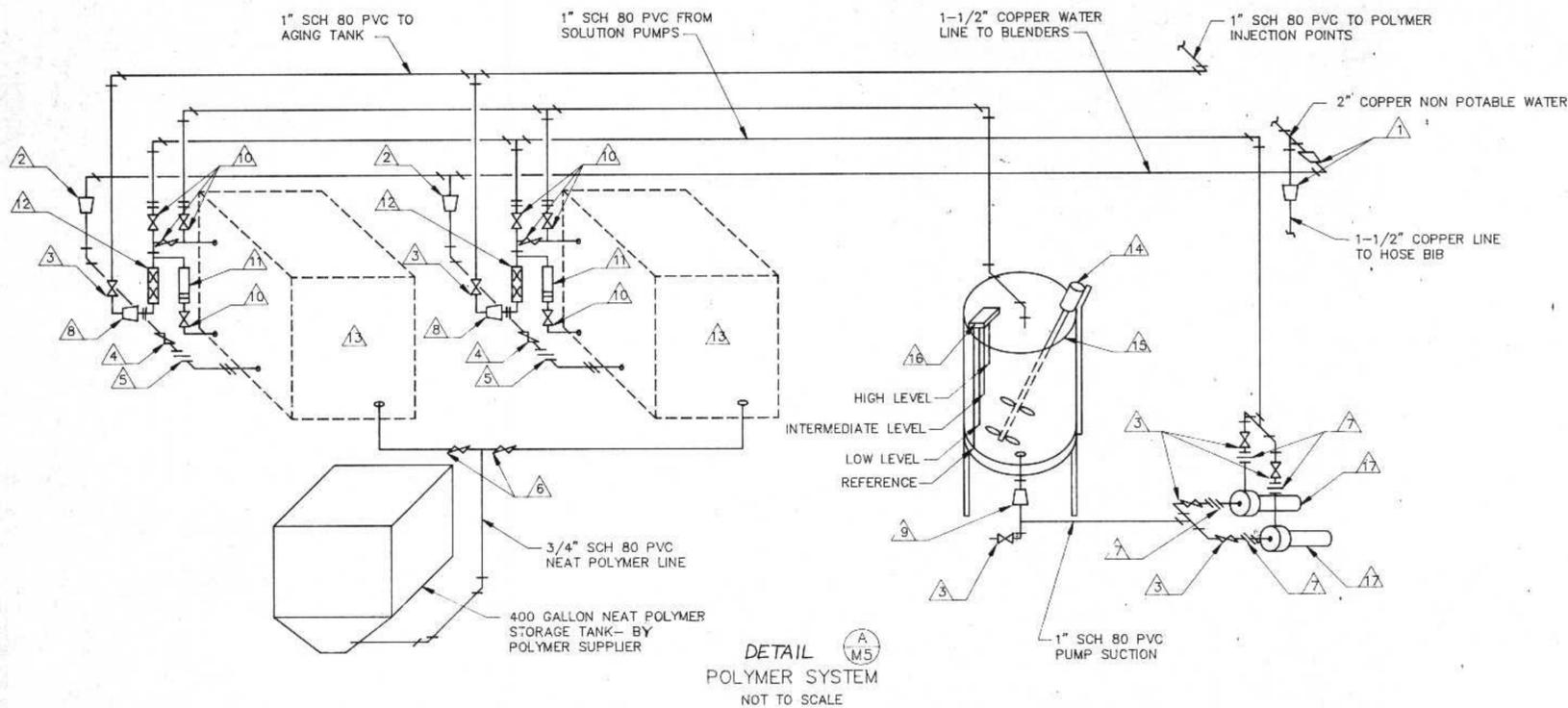
- 1 6" 90° FLANGED ELBOW
- 2 6" FLANGED TEE
- 3 6" FLANGED PLUG VALVE
- 4 6" 90° MJ ELBOW
- 5 6" FLANGED TEE WITH FLUSHING CONNECTION
- 6 6" FLANGED SPOOL PIECE (CUT TO LENGTH IN FIELD)
- 7 6" X 4" FLANGED REDUCER
- 8 4" FLANGED TEE
- 9 4" FLANGED 90° ELBOW
- 10 4" FLANGED PLUG VALVE
- 11 3" FLANGED 90° ELBOW
- 12 3" X 2" REDUCER
- 13 2" TEE
- 14 1" PVC BALL VALVE
- 15 1" PVC CHECK VALVE
- 16 2" GALVANIZED STEEL TEE
- 17 4" FLANGED SPOOL PIECE
- 18 PRESSURE GAUGE



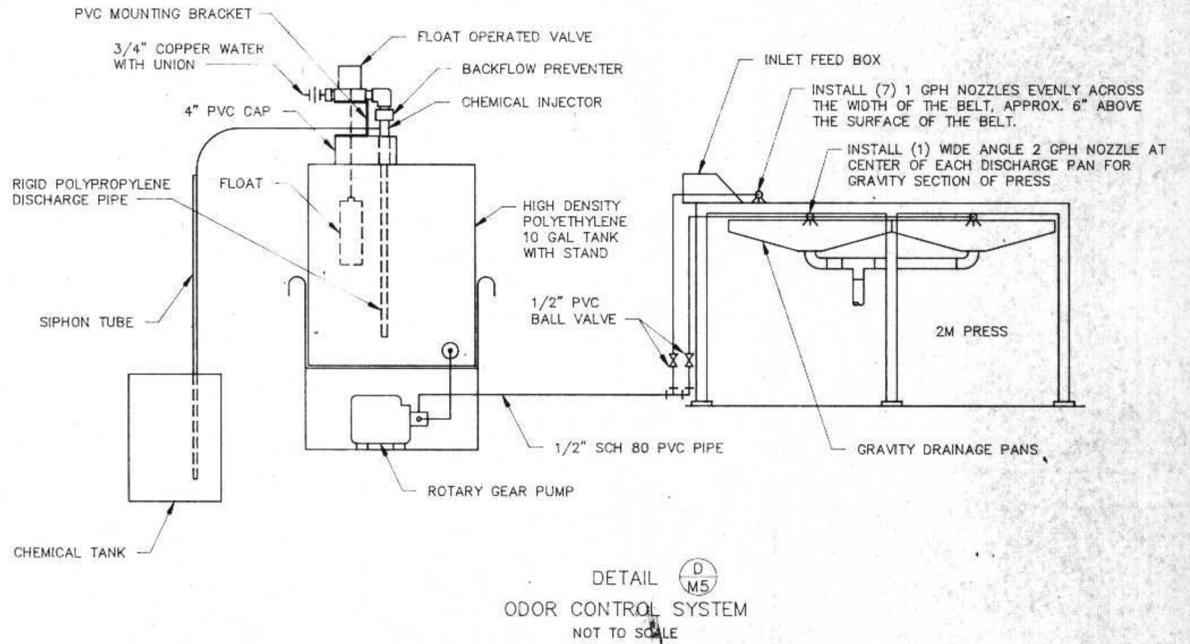
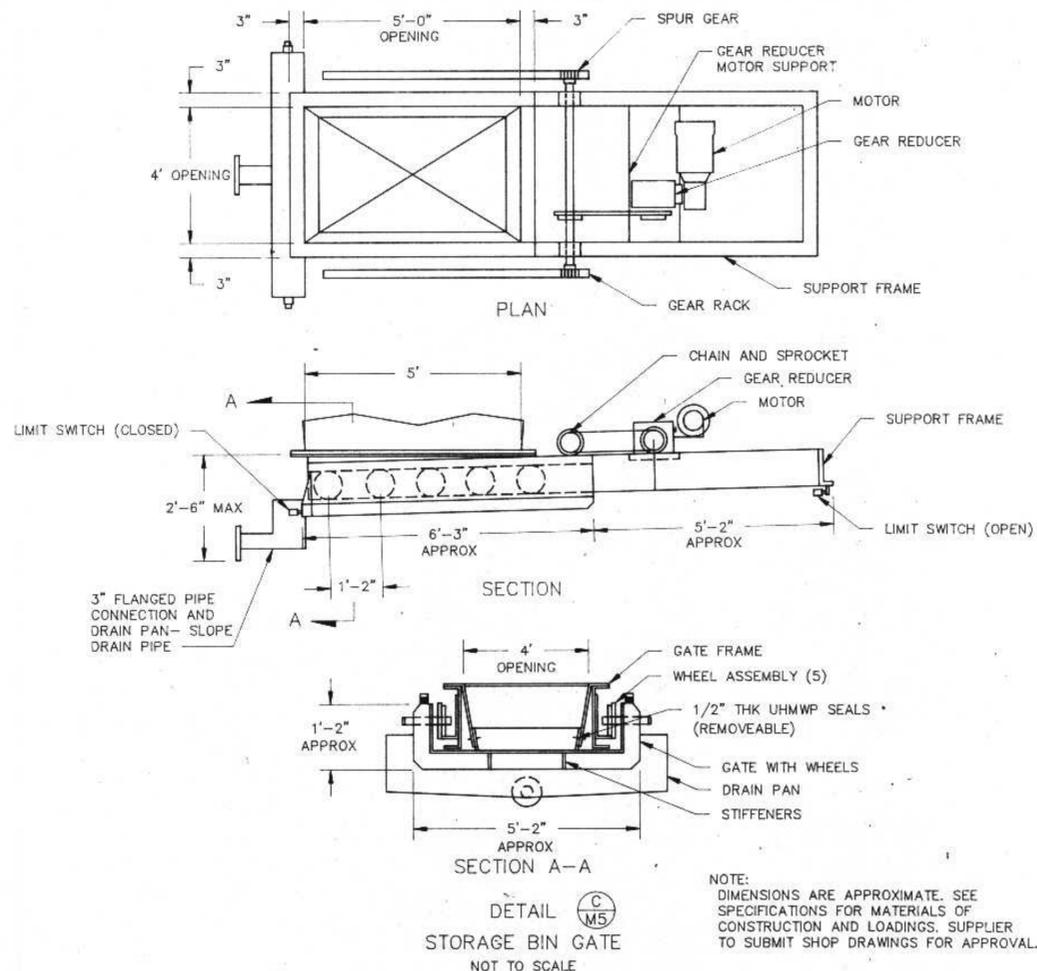
SECTION (A M3)
 SCALE: 1/4"=1'

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
Richard Anthony
 DATE: 6/24/91 REG. NO.: 25488

REVISIONS			DIGESTER CONTROL BUILDING MODIFICATIONS	
NO.	BY	DATE		
1	Rma	8/22/91		
2	Rma	7/6/92		
			CITY OF SUPERIOR, WISCONSIN WASTE WATER TREATMENT PLANT SLUDGE DEWATERING/HANDLING FACILITIES	
DESIGNED BY	Rma		RMA ENGINEERING COMPANY CONSULTING ENGINEERS	SCALE 1/4"=1'
DRAWN BY	GB			DATE
CHECKED BY				
APPROVED BY				SHEET M-3



POLYMER SYSTEM SCHEDULE		
ITEM	DESCRIPTION	FURNISHED BY
1	2" X 1-1/2" COPPER REDUCER	CONTRACTOR
2	1-1/2" X 1" COPPER REDUCER	CONTRACTOR
3	1" PVC BALL VALVE	CONTRACTOR
4	1" BRONZE GLOBE VALVE	CONTRACTOR
5	1" UNION	CONTRACTOR
6	3/4" PVC BALL VALVE	CONTRACTOR
7	1" DISCONNECT	CONTRACTOR
8	1-1/4" X 1" PVC REDUCER	CONTRACTOR
9	1" X 3/4" PVC REDUCER	CONTRACTOR
10	PVC VALVES	SYSTEM SUPPLIER
11	DILUTION WATER ROTOMETER	SYSTEM SUPPLIER
12	STATIC MIXER	SYSTEM SUPPLIER
13	BLENDER UNIT	SYSTEM SUPPLIER
14	SOLUTION TANK MIXER	SYSTEM SUPPLIER
15	200 GALLON TANK AND STAND	SYSTEM SUPPLIER
16	4-PROBE TANK LEVEL CONTROL	SYSTEM SUPPLIER
17	POLYMER SOLUTION PUMP	SYSTEM SUPPLIER



NOTES:
 1. ITEM 13 INCLUDES PRESSURE GAUGES, MIXING WATER ROTOMETER, NEAT POLYMER PUMP, SOLENOID SWITCH AND MIXING TANK.
 2. // DESIGNATES CONNECTIONS BETWEEN PIPING BY CONTRACTOR AND BLENDING EQUIPMENT BY SYSTEM SUPPLIER.
 3. MOUNTING PLATFORM BY SYSTEM SUPPLIER - TO BE BOLTED TO WALL.

NOTE: DIMENSIONS ARE APPROXIMATE. SEE SPECIFICATIONS FOR MATERIALS OF CONSTRUCTION AND LOADINGS. SUPPLIER TO SUBMIT SHOP DRAWINGS FOR APPROVAL.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
 Richard Anthony
 DATE: 6/24/91 REG. NO.: 25488

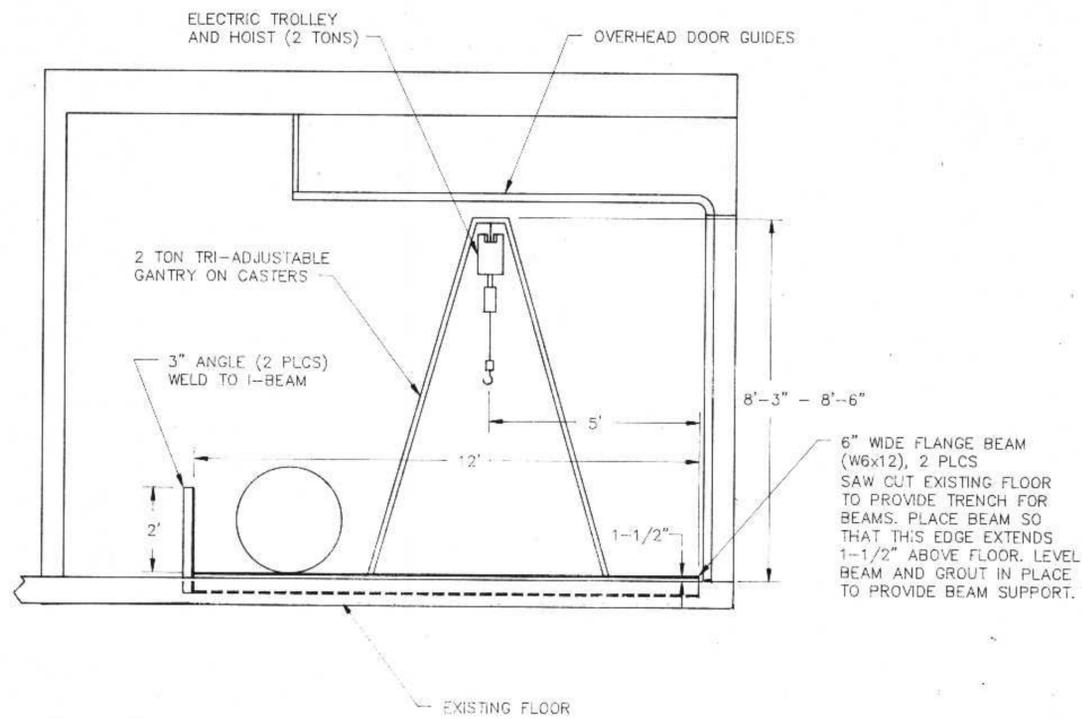
REVISIONS			MECHANICAL DETAILS	
NO.	BY	DATE	SCALE	JOB NO.
1	Rua	8/22/91	NTS	
2	Rua	7/21/92		

CITY OF SUPERIOR, WISCONSIN
 WASTE WATER TREATMENT PLANT
 SLUDGE DEWATERING/HANDLING FACILITIES

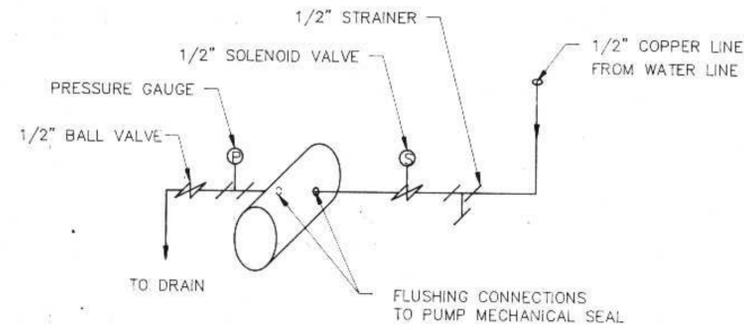
DESIGNED BY: Rua
 DRAWN BY: GB
 CHECKED BY:
 APPROVED BY:

RMA ENGINEERING COMPANY
 CONSULTING ENGINEERS

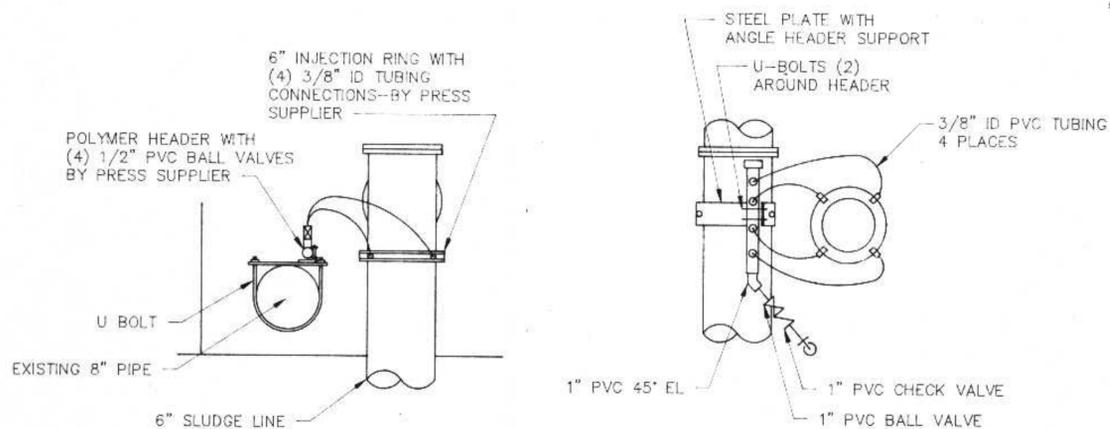
SHEET M-5



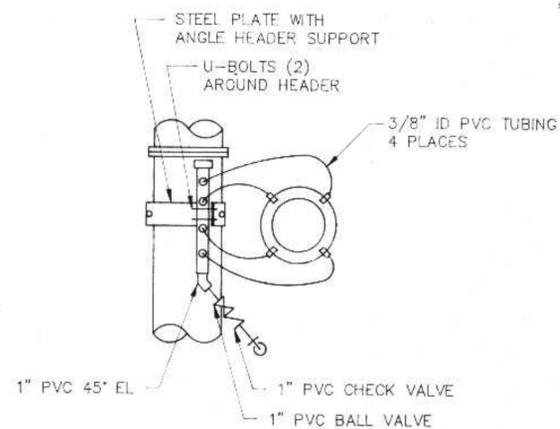
DETAIL E
M6
TON CONTAINERS RAILS AND HOIST
SCALE: 1/2"=1'



DETAIL F
M6
SLUDGE PUMP FLUSHING
WATER CONNECTION



SECTION

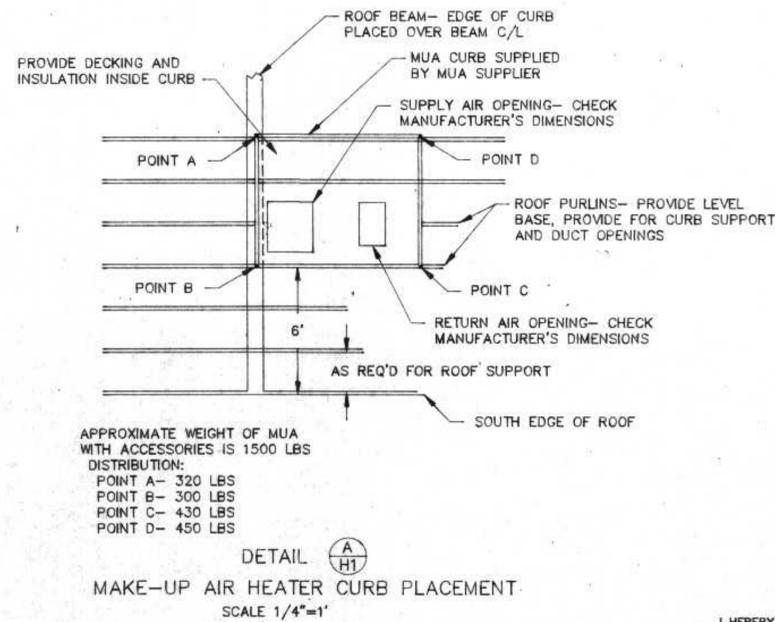
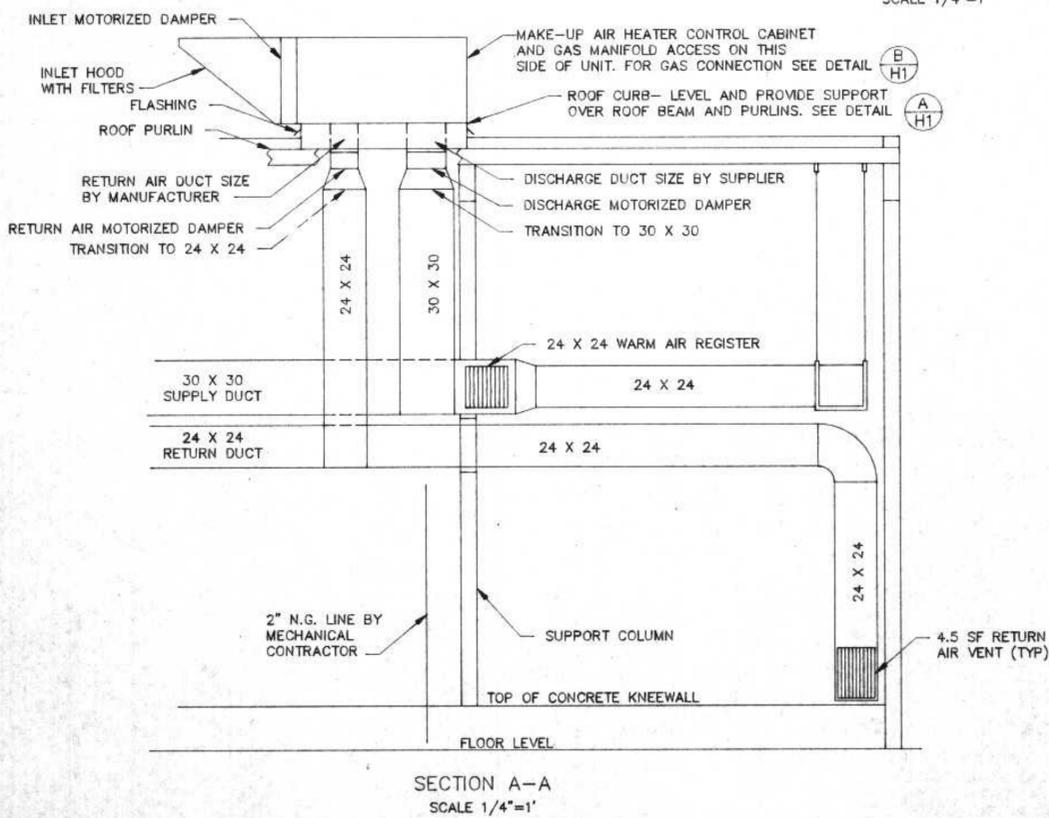
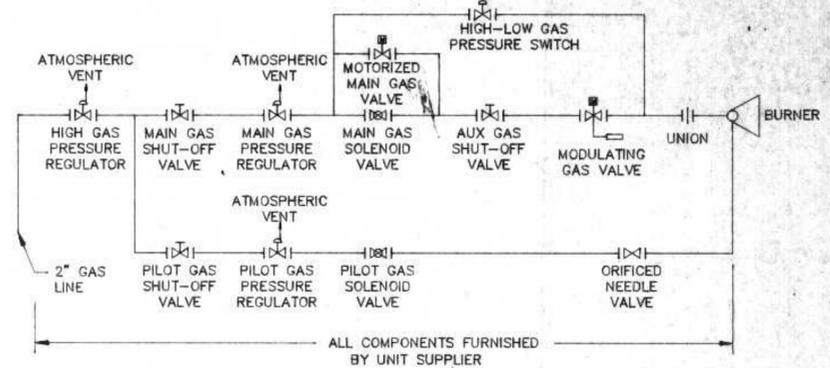
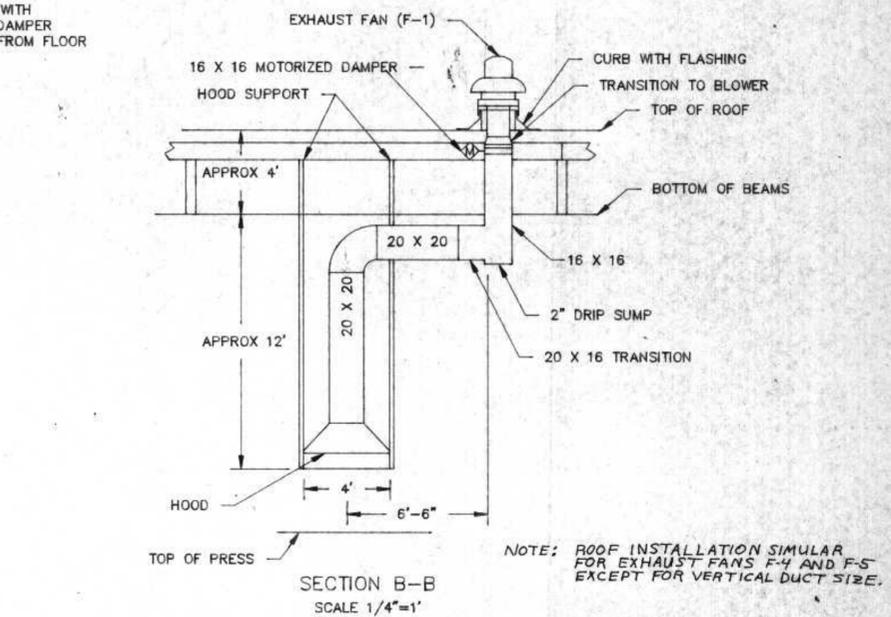
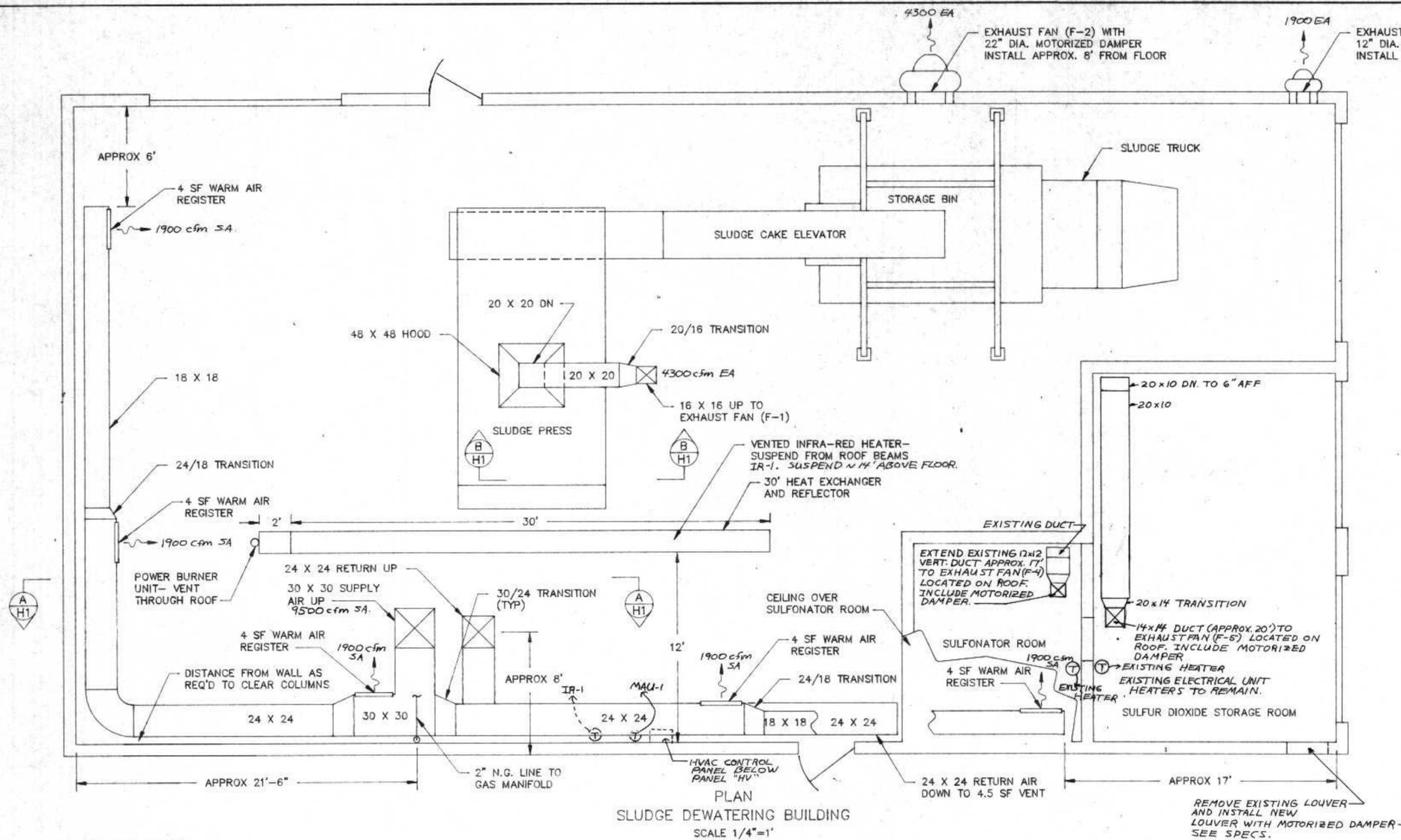


PLAN

DETAIL G
M6
POLYMER INJECTION IN
DIGESTER CONTROL BUILDING

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
Richard Anthony
 DATE: 6/24/91 REG. NO.: 25488

REVISIONS			MECHANICAL DETAILS	
NO.	BY	DATE		
1	RMA	8/22/91	CITY OF SUPERIOR, WISCONSIN WASTE WATER TREATMENT PLANT SLUDGE DEWATERING/HANDLING FACILITIES	
2	RMA	9/18/92		
			DESIGNED BY <i>RMA</i> DRAWN BY <i>GB</i> CHECKED BY APPROVED BY	
				RMA ENGINEERING COMPANY CONSULTING ENGINEERS



EXHAUST FAN SCHEDULE									
UNIT	LOCATION	MANUFACTURER MODEL OR EQUIV	C.F.M.	S.P. IN.	R.P.M.	ARRANGEMENT	HP VOLT/PH	COMMENTS	
F-1	DEWATERING BLDG ROOF	LOREN COOK 195 C6B	4300	.25	985	P.R. VENTLR	3/4 460/3		
F-2	DEWATERING BLDG N. WALL	LOREN COOK 195 W6B	4300	.25	985	P.W. VENTLR	3/4 460/3		
F-3	DEWATERING BLDG N. WALL	LOREN COOK 135 W4B	1900	.25	1330	P.W. VENTLR	1/3 120/1		
F-4	SULFONATOR ROOM ROOF	LOREN COOK 120 C2B	1000	.25	1100	P.R. VENTLR	1/8 120/1	SEE SECTION B-B	
F-5	SULFUR DIOXIDE ROOF	LOREN COOK 135 C4B	1900	.25	1330	P.R. VENTLR	1/3 120/1	SEE SECTION B-B	

MAKE-UP AIR HEATER / IR HEATER									
UNIT	LOCATION	MANUFACTURER MODEL OR EQUIV	C.F.M.	S.P. IN.	R.P.M.	BTU/HR	FUEL	HP VOLT/PH	ARRANGEMENT
MUA-1	DEWATERING BLDG ROOF	INDUSTRIAL AIR SYSTEMS DACR-120	9500	1.0	1035	925,000	N.G.	7.5 460/3	HORIZONTAL
IR-1	DEWATERING BLDG	SOLARONICS MODEL 100-30A				100,000	NG	120/1	30' TUBE LENGTH

REVISIONS		
NO.	BY	DATE
1	RMG	8/22/91
2	RMG	5/15/92

DEWATERING BUILDING HVAC

CITY OF SUPERIOR, WISCONSIN WASTE WATER TREATMENT PLANT SLUDGE DEWATERING/HANDLING FACILITIES

DESIGNED BY RMG

DRAWN BY GB

CHECKED BY

APPROVED BY

RMA ENGINEERING COMPANY CONSULTING ENGINEERS

SCALE 1/4"=1'

JOB NO.

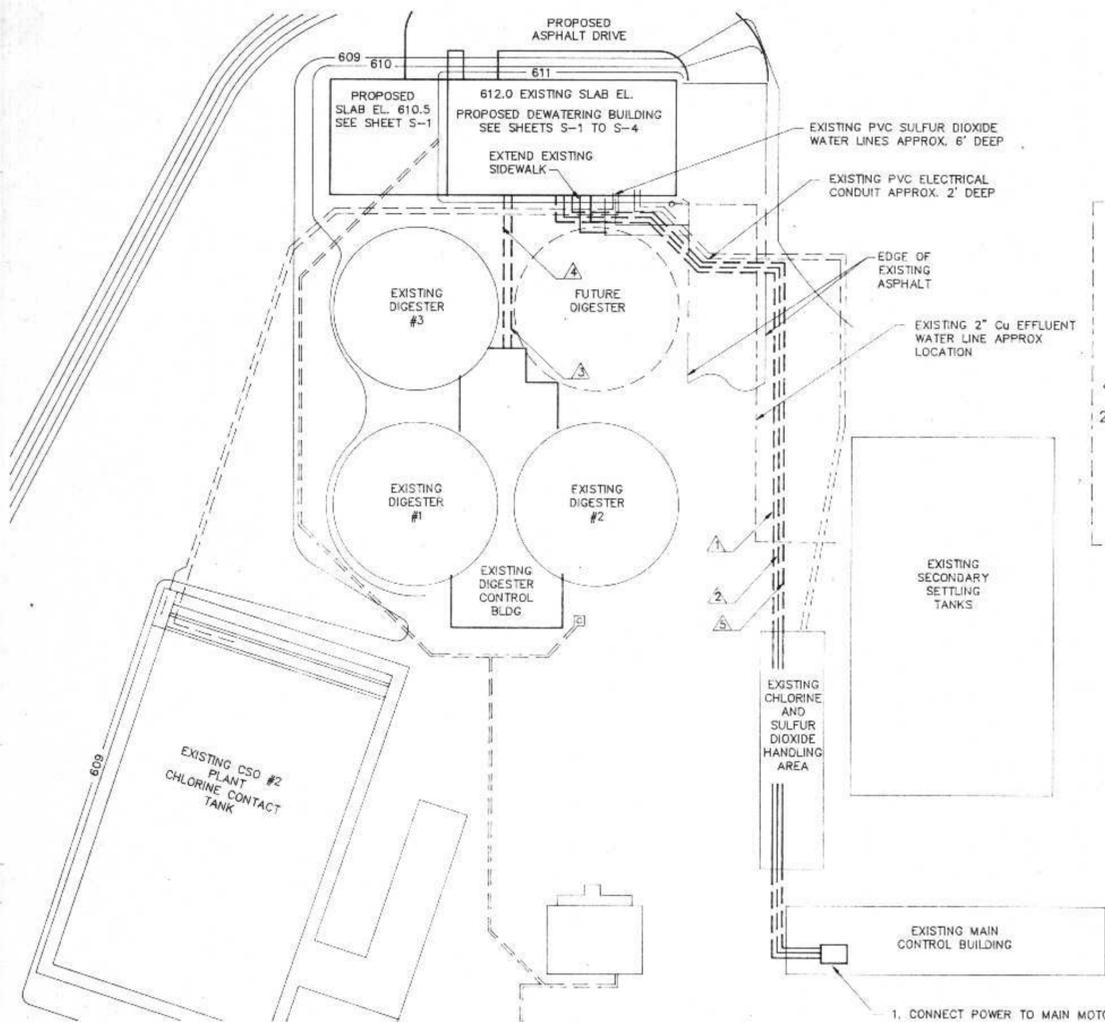
DATE

SHEET H-1

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.

Richard Anthony

DATE: 6/24/91 REG. NO.: 25488



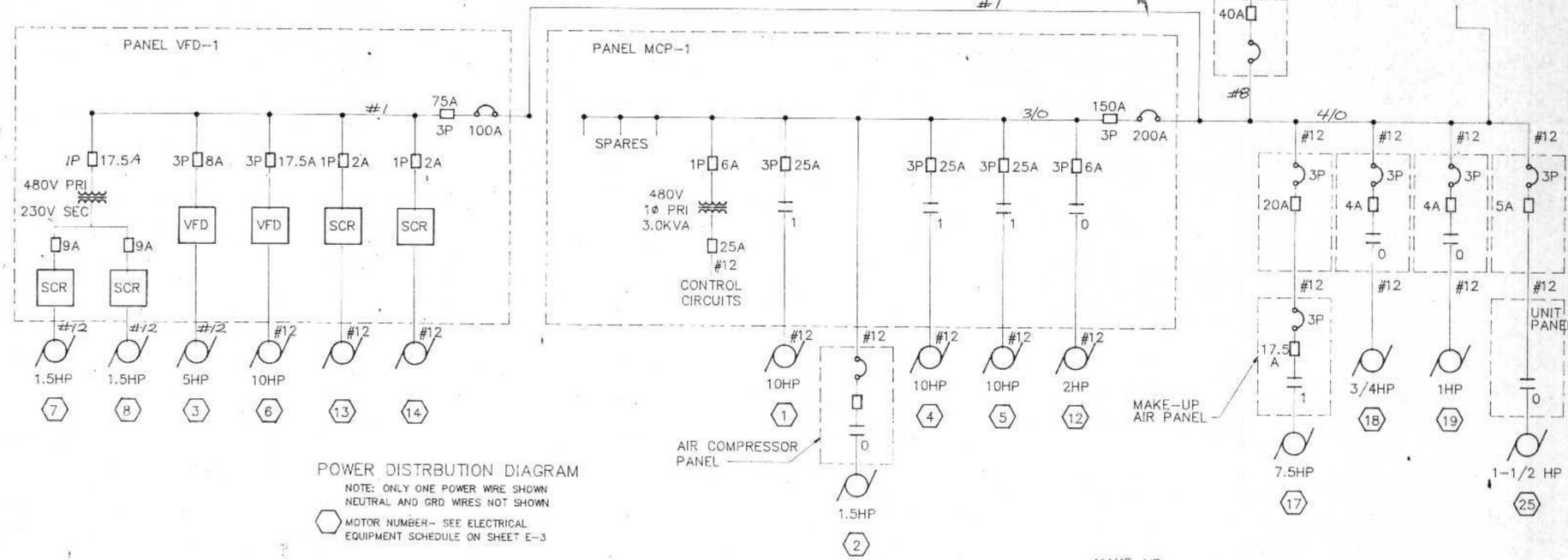
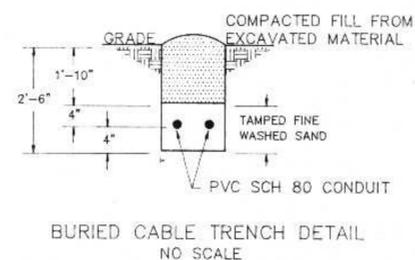
ELECTRICAL SITE PLAN
SCALE: 1"=30'

- CONNECT POWER TO MAIN MOTOR CONTROL CENTER USING 225A FUSED DISCONNECT
- CONNECT ALARM CIRCUITS TO ALARM PANEL. HORN TO ACTIVATED UPON ALARM
- INSTALL THREE ALARM LIGHTS (RED) WITH PUSH-TO-TEST PUSHBUTTON ALARM LIGHTS FOR THE FOLLOWING CONDITIONS:
 - EMERGENCY STOP
 - CATEGORY ONE ALARM
 - CATEGORY TWO ALARM

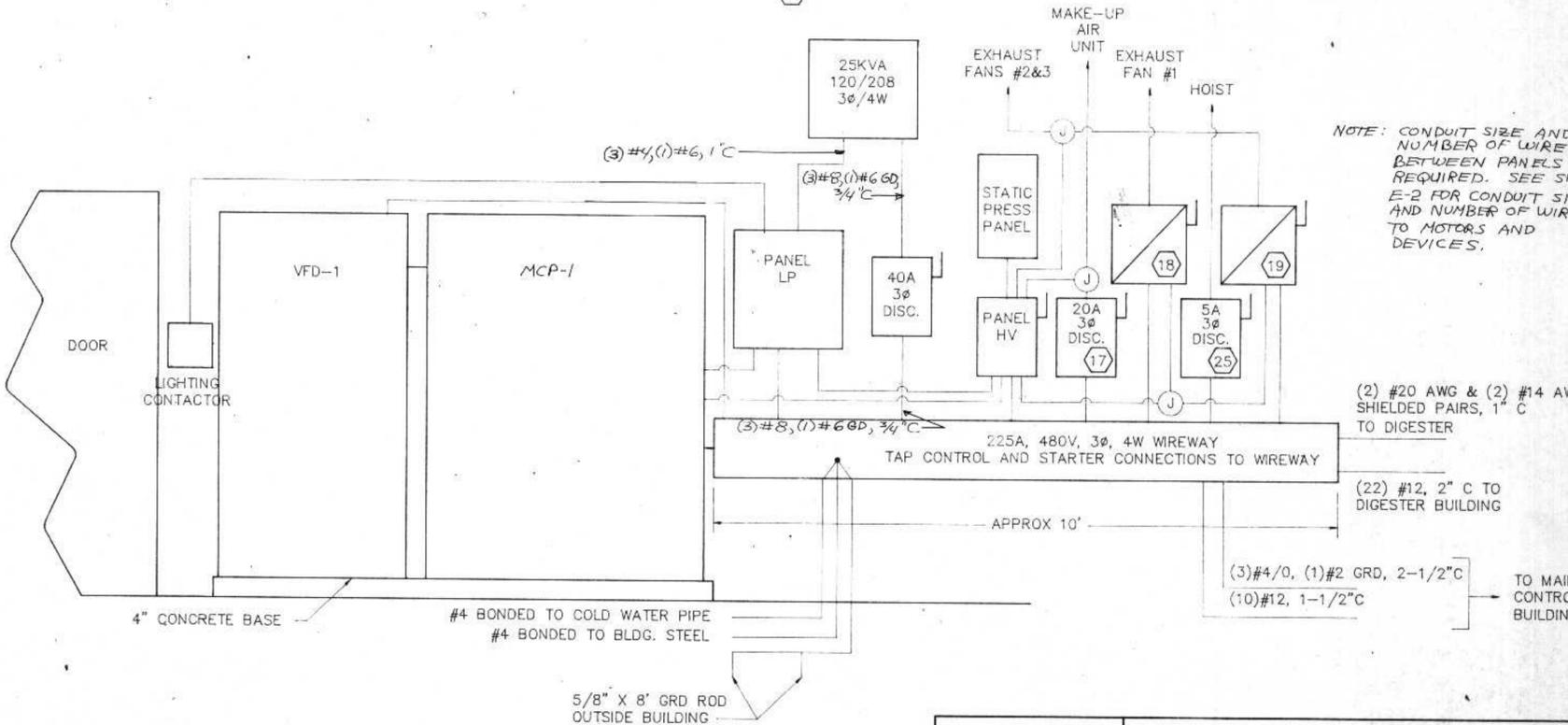
UNDERGROUND FEEDER SCHEDULE		
SYMBOL	CONDUCTORS	PVC 80
▲	(3) #4/0 AND (1) #2 GRD	2-1/2"
▲	(10) #12	1-1/2"
▲	(2) #20 AWG AND (2) #14 AWG SHIELDED PAIRS	1"
▲	(2) #12 AND (1) #12 GRD	2"
▲	(25) PAIR SHIELDED PHONE CABLE (2) SHIELDED, (2) NON-SHIELDED SPEAKER CABLE	1-1/2"

ELECTRICAL NOTES

- PROVIDE RIGID GALVANIZED CONDUIT SLEEVE WHEN PASSING UNDER ROADWAY AS SHOWN
- SEE SHEET E-3 FOR ELECTRICAL EQUIPMENT SCHEDULE
- RUN CONDUIT THROUGH TON CONTAINER STORAGE BUILDING- USE METAL CONDUIT ABOVE GROUND
- FOR RISER DIAGRAM- WIRE MAY BE RUN IN CONDUIT CONNECTING PANELS OR IN WIREWAY
- INSTEAD OF COMBINATION STARTERS FOR MOTORS 17, 18 AND 19, MAGNETIC STARTERS AND FUSES CAN BE PROVIDED BY THE HEATING/VENTILATION SYSTEM SUPPLIER AS PART OF PANEL HV



NOTE:
PANEL LP PROVIDES 120 VOLT POWER FOR LIGHTS, ODOR CONTROL SYSTEM, ODOR BLENDERS #1 & #2, POLYMER TANK MIXER, IR HEATER, MAG METER AND EXHAUST FAN #3.



NOTE: CONDUIT SIZE AND NUMBER OF WIRES BETWEEN PANELS AS REQUIRED. SEE SHEET E-2 FOR CONDUIT SIZE AND NUMBER OF WIRES TO MOTORS AND DEVICES.

REVISIONS		
NO.	BY	DATE
1	RMA	8/22/91
2	RMA	9/21/91

ELECTRICAL SITE PLAN AND POWER DISTRIBUTION

CITY OF SUPERIOR, WISCONSIN WASTE WATER TREATMENT PLANT SLUDGE DEWATERING/HANDLING FACILITIES

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.

Richard C. Cichon

DATE: 6/24/91 REG. NO.: 25488

DESIGNED BY RMA

DRAWN BY GB

CHECKED BY

APPROVED BY

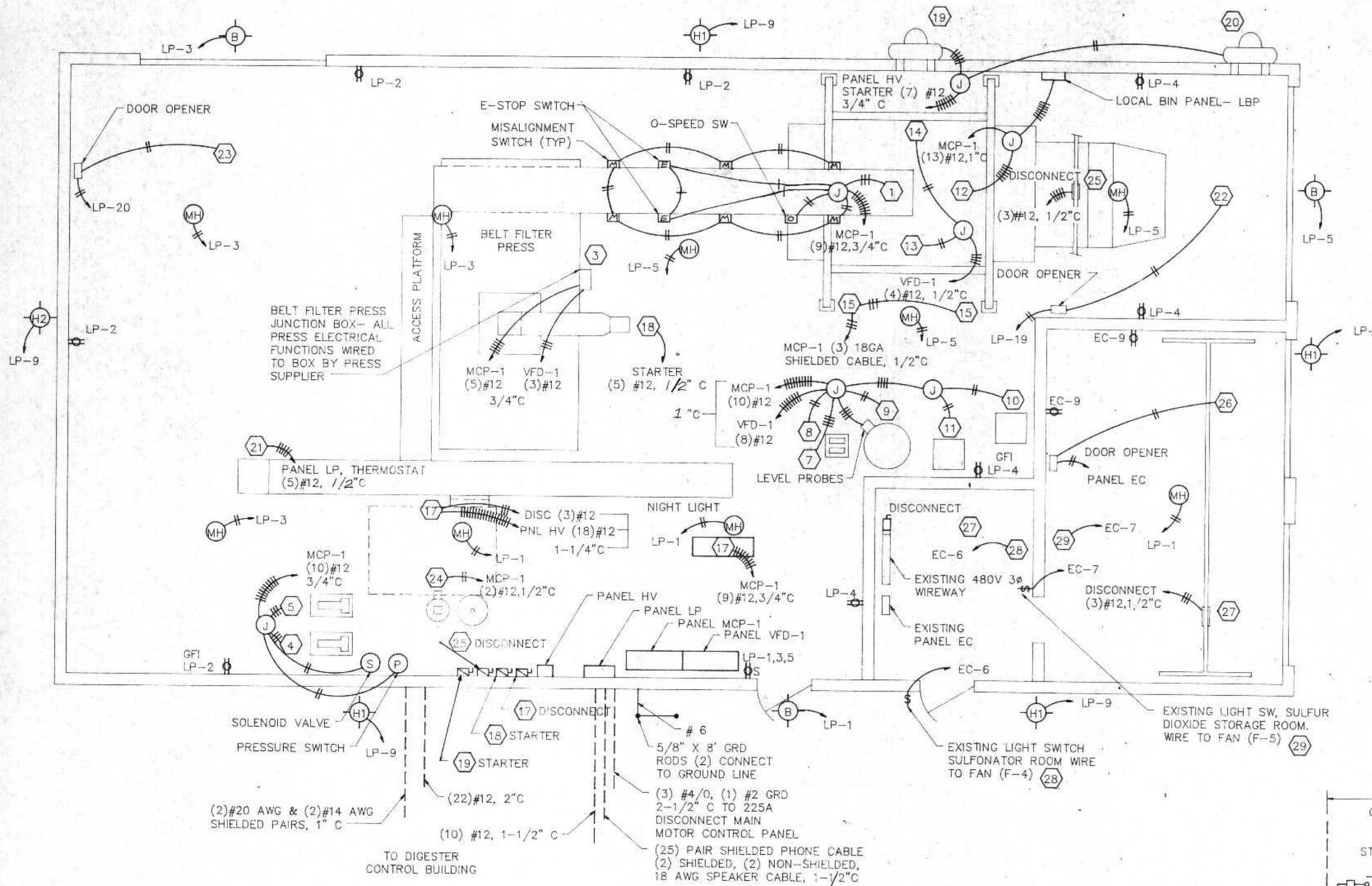
RMA ENGINEERING COMPANY
CONSULTING ENGINEERS

SCALE 1"=30'

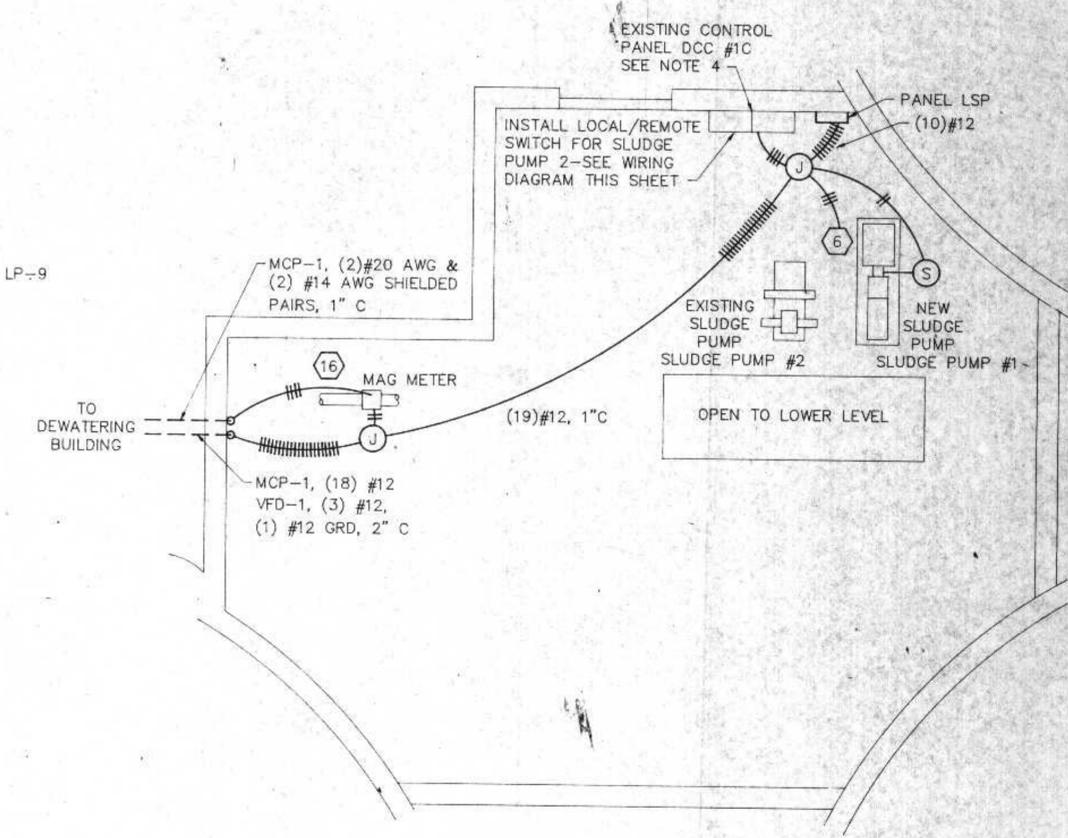
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DATE

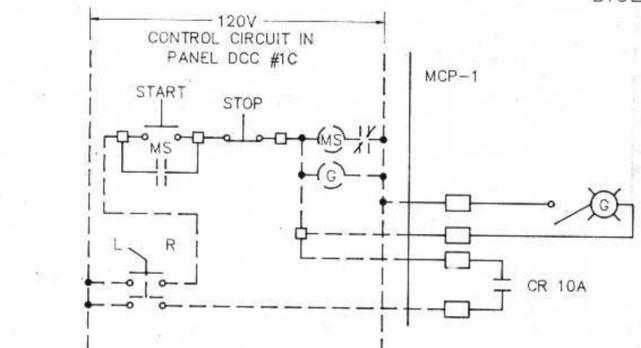
SHEET E-1



DEWATERING BUILDING
ELECTRICAL PLAN
SCALE: 1/4"=1'



DIGESTER CONTROL BUILDING
ELECTRICAL PLAN
SCALE: 1/4"=1'



SLUDGE PUMP-2
WIRING DIAGRAM FOR PANEL DCC #1C

NOTE:
START AND STOP SWITCHES ARE
LOCATED AT SLUDGE PUMP #2

- ELECTRICAL NOTES**
- USE SCHEDULE 80 PVC CONDUIT FOR BURIED CABLES USE GALVANIZED METAL RIGID CONDUIT INSIDE BUILDING
 - SEE SHEET E-3 FOR ELECTRICAL EQUIPMENT SCHEDULE
 - SEE SHEET E-3 FOR PROPOSED LAYOUT FOR MCP-1
 - EXISTING SLUDGE PUMP RELAY IN PANEL DCC #1C TO BE OPERATED FROM RELAY DRY CONTACT IN MCP-1
 - PANEL LSP TO PROVIDE LOCAL CONTROL OF NEW SLUDGE PUMP. PANEL TO CONTAIN START PUSH BUTTONS, HOA SWITCH, GREEN RUNNING LIGHT. SEE SPECIFICATIONS FOR TIE INTO MCP-1
 - PROVIDE ONE GFI DUPLEX RECEPTACLE ON CIRCUITS LP-2 AND LP-4

LIGHTING SCHEDULE						
TYPE	MOUNTING	LAMPS	DIFFUSER	MANUFACTURERS CATALOG NO.	REMARKS	NUMBER
MH	ROOF SUPPORT	1-400W	—	HUBBELL HBS-400H8-OU	QUAD VOLTAGE METAL HALIDE	9
B	WALL	70W HPS	LEXAN	NORTH STAR WMW 059LS-12N-PE	120V OUTDOOR BRACKET WITH PHOTOCELL	3
H1	WALL	1-400W	—	HUBBELL PRP-400S-118	QUAD VOLTAGE HIGH PRESS SODIUM	4
H2	WALL	1-250W	—	HUBBELL PRP-250S-118	QUAD VOLTAGE HIGH PRESS SODIUM	1

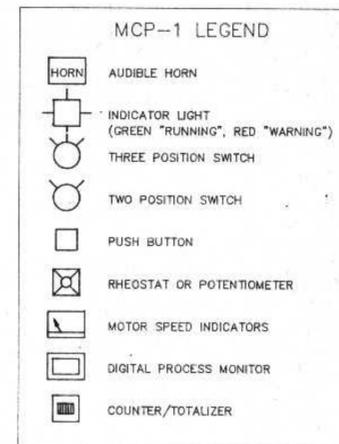
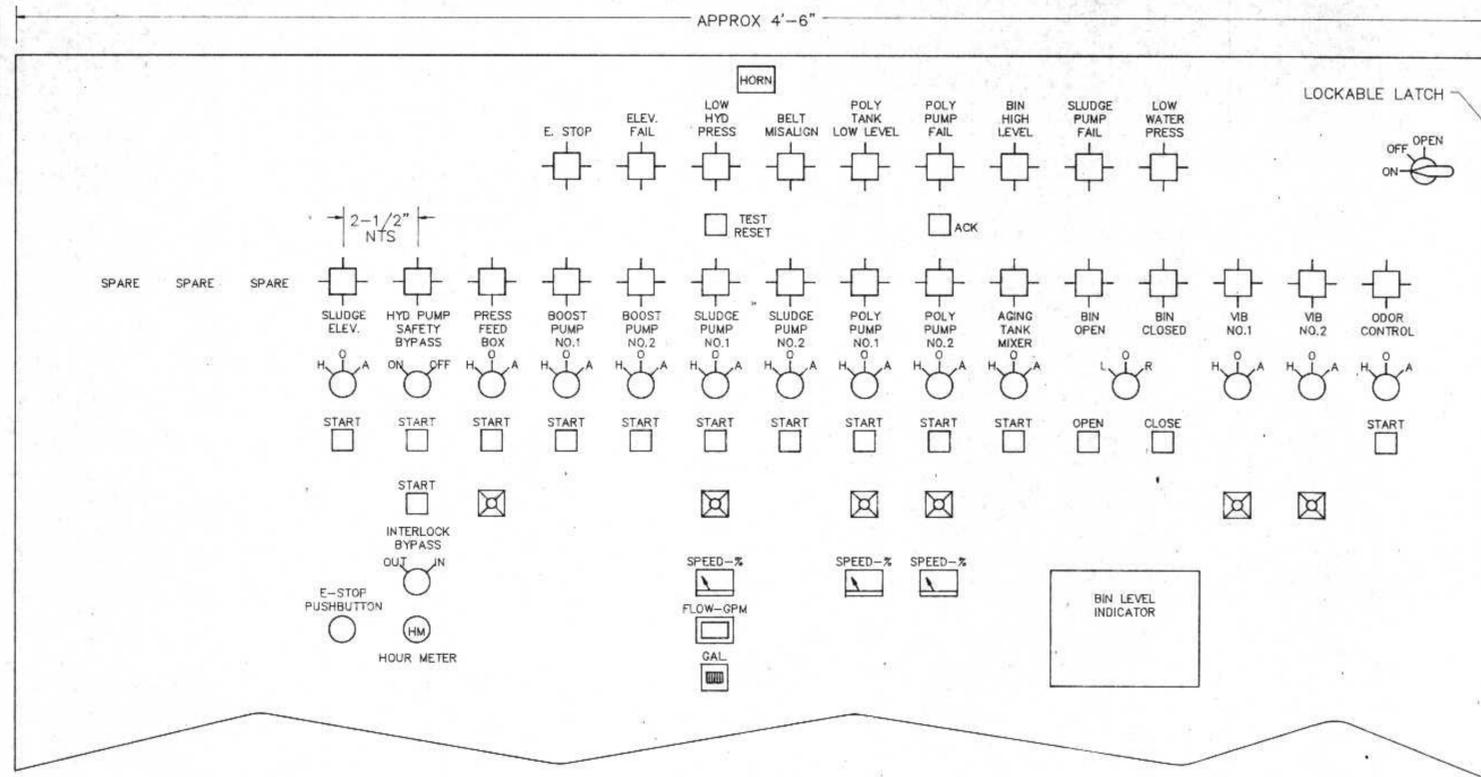
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
Richard A. Anthony
DATE: 6/24/91 REG. NO.: 25488

REVISIONS			ELECTRICAL PLAN	
NO.	BY	DATE		
1	PMA	8/22/91		
2	Rua	9/21/92		

CITY OF SUPERIOR, WISCONSIN
WASTE WATER TREATMENT PLANT
SLUDGE DEWATERING/HANDLING FACILITIES

DESIGNED BY: Rua	RMA ENGINEERING COMPANY CONSULTING ENGINEERS	SCALE: 1/4"=1'	JOB NO.
DRAWN BY: GB		DATE	
CHECKED BY:			
APPROVED BY:			

SHEET E-2



PANEL SCHEDULE						
PANEL	ENCLOSURE	VOLT	AMP	PHASE	FURNISHED BY	MANUFACTURERS DESIGNATION
MCP-1	NEMA 4	480	200	3	ELECT	
VFD-1	NEMA 1	480	40	3	ELECT	
HV	NEMA 2	120	---	1	BUILDING	
LSP	NEMA 2	120	---	1	ELECT	
LBP	NEMA 2	120	---	1	ELECT	
LP	NEMA 2	208/120	90	3	ELECT	CUTLER HAMMER PB4ML125

ELECTRICAL EQUIPMENT SCHEDULE																	
NO.	DESCRIPTION	LOCATION	HP/KW	VOLT	PH	TYPE	SIZE	FURNISHED	STARTER		CONTROL PANEL		POWER PANEL		WIRE	COND	REMARKS
									PANEL	PANEL	SWITCH	FURNISHED	PANEL	FURNISHED			
1	SLUDGE ELEVATOR DR #1	DEWATERING BLDG	10 HP	480	3	MAG	1	ELECT	MCP-1	MCP-1	HOA	ELECT	MCP-1	ELECT	12		
2	AIR COMPRESSOR	DEWATERING BLDG	1.5 HP	480	3	MAG	0	PRESS	MCP-1	MCP-1	HOA	ELECT	AIR	PRESS	12		
3	PRESS DRIVE	DEWATERING BLDG	5 HP	480	3	VFD	-	PRESS	VFD-1	MCP-1	HOA	ELECT	VFD-1	ELECT	12		
4	WASHWATER PUMP #1	DEWATERING BLDG	10 HP	480	3	MAG	1	ELECT	MCP-1	MCP-1	HOA	ELECT	MCP-1	ELECT	12		
5	WASHWATER PUMP #2	DEWATERING BLDG	10 HP	480	3	MAG	1	ELECT	MCP-1	MCP-1	HOA	ELECT	MCP-1	ELECT	12		
6	SLUDGE PUMP	DEWATERING BLDG	10 HP	480	3	VFD	-	ELECT	VFD-1	MCP-1	HOA	ELECT	VFD-1	ELECT	12		
7	POLYMER SOLUTION PUMP #1	DEWATERING BLDG	1-1/2 HP	230	1	SCR	-	PRESS	VFD-1	MCP-1	HOA	ELECT	VFD-1	ELECT	12		
8	POLYMER SOLUTION PUMP #2	DEWATERING BLDG	1-1/2 HP	230	1	SCR	-	PRESS	VFD-1	MCP-1	HOA	ELECT	VFD-1	ELECT	12		
9	AGING TANK MIXER	DEWATERING BLDG	1/3 HP	120	1	MAN	-	UNIT	UNIT	MCP-1	HOA	ELECT	LP-6	ELECT	12		
10	POLYMER BLENDER #1	DEWATERING BLDG	---	120	1	MAN	-	UNIT	UNIT	UNIT	PRESS	LP-7	ELECT	12			
11	POLYMER BLENDER #2	DEWATERING BLDG	---	120	1	MAN	-	UNIT	UNIT	UNIT	PRESS	LP-8	ELECT	12			
12	STORAGE BIN GATE	DEWATERING BLDG	2 HP	480	3	MAG	0	ELECT	MCP-1	MCP-1	PB	ELECT	MCP-1	ELECT	12		
13	STORAGE BIN VIBRATOR #1	DEWATERING BLDG	---	480	-	SCR	-	ELEVATOR	VFD-1	MCP-1	HOA	ELECT	MCP-1	ELECT	12		
14	STORAGE BIN VIBRATOR #2	DEWATERING BLDG	---	480	-	SCR	-	ELEVATOR	VFD-1	MCP-1	HOA	ELECT	MCP-1	ELECT	12		
15	STORAGE BIN LEVEL SENSOR	DEWATERING BLDG	---	120	-	---	-	UNIT	UNIT	CONVEYOR	MCP-1	ELECT	MCP-1	ELECT	12		
16	MAG METER	DIGESTER BLDG	---	120	-	---	-	UNIT	UNIT	MECH	LP-10	ELECT	12				
17	MAKE-UP AIR HEATER	DEWATERING BLDG	7.5 HP	480	3	COMB	1	BUILDING	UNIT	HV	UNIT	BUILDING	UNIT	BUILDING	12		DISCONNECT BY ELECT.
18	EXHAUST FAN #1	DEWATERING BLDG	3/4 HP	480	3	COMB	0	ELECT	UNIT	HV	HOA	BUILDING	COMB	ELECT	12		
19	EXHAUST FAN #2	DEWATERING BLDG	1 HP	480	3	COMB	0	ELECT	COMB	HV	HOA	BUILDING	COMB	ELECT	12		
20	EXHAUST FAN #3	DEWATERING BLDG	1/3 HP	120	1	MAN	-	BUILDING	HV	O-A	BUILDING	LP-17	ELECT	12			
21	IR BURNER	DEWATERING BLDG	---	120	1	---	-	UNIT	UNIT	UNIT	BUILDING	LP-18	ELECT	12			
22	14' DOOR OPENER	DEWATERING BLDG	1/2 HP	120	1	MAN	-	UNIT	UNIT	UNIT	BUILDING	LP-19	ELECT	12			
23	12' DOOR OPENER	DEWATERING BLDG	1/2 HP	120	1	MAN	-	UNIT	UNIT	UNIT	BUILDING	LP-20	ELECT	12			
24	ODOR CONTROL SYSTEM	DEWATERING BLDG	---	120	1	---	-	UNIT	UNIT	MCP-1	MCP-1	MECH	LP-21	ELECT	12		
25	HOIST AND TROLLEY	DEWATERING BLDG	2 HP	480	3	MAG	0	BUILDING	UNIT	UNIT	UNIT	BUILDING	---	---	12		DISCONNECT BY ELECT
26	9' DOOR OPENER	SULFUR DIOXIDE RM	1/3 HP	120	1	MAN	-	UNIT	UNIT	UNIT	BUILDING	EC-13	EXISTING	12			
27	HOIST AND TROLLEY	SULFUR DIOXIDE RM	2 HP	480	3	MAG	0	BUILDING	UNIT	UNIT	UNIT	BUILDING	---	---	12		DISCONNECT BY ELECT
28	EXHAUST FAN #4	SULFONATOR ROOM	1/6 HP	120	1	MAN	-	BUILDING	UNIT	UNIT	UNIT	BUILDING	EC-6	EXISTING	12		WIRE TO LIGHT SWITCH
29	EXHAUST FAN #5	SULFUR DIOXIDE RM	1/3 HP	120	1	MAN	-	BUILDING	UNIT	UNIT	UNIT	BUILDING	EC-7	EXISTING	12		WIRE TO LIGHT SWITCH

- NOTES:
- RESPONSIBLE PARTIES:
 BID ITEM #1- BUILDING CONTRACTOR (BUILDING)
 * HEATING/VENTILATION SYSTEM SUPPLIER
 BID ITEM #2- BELT FILTER PRESS SUPPLIER (PRESS)
 * POLYMER SYSTEM SUPPLIER
 BID ITEM #3- SLUDGE ELEVATOR AND BIN SUPPLIER (ELEVATOR)
 BID ITEM #4- INSTALLATION/MECHANICAL CONTRACTOR (MECH)
 * ELECTRICAL SUBCONTRACTOR (ELECT)

* SUBCONTRACTOR OR SUBSUPPLIER

- MCP-1 BELT FILTER PRESS CONTROLS MAY BE ALTERED DEPENDING ON PRESS SUPPLIED

REVISIONS			ELECTRICAL PANELS AND SCHEDULE	
NO.	BY	DATE		
1	Rwa	8/22/91		
2	Rwa	7/21/92		

CITY OF SUPERIOR, WISCONSIN
WASTE WATER TREATMENT PLANT
SLUDGE DEWATERING/HANDLING
FACILITIES

DESIGNED BY Rwa	SCALE	JOB NO.
DRAWN BY GB	RMA ENGINEERING COMPANY	DATE
CHECKED BY	CONSULTING ENGINEERS	SHEET E-3
APPROVED BY		

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 Richard C. Anthony
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