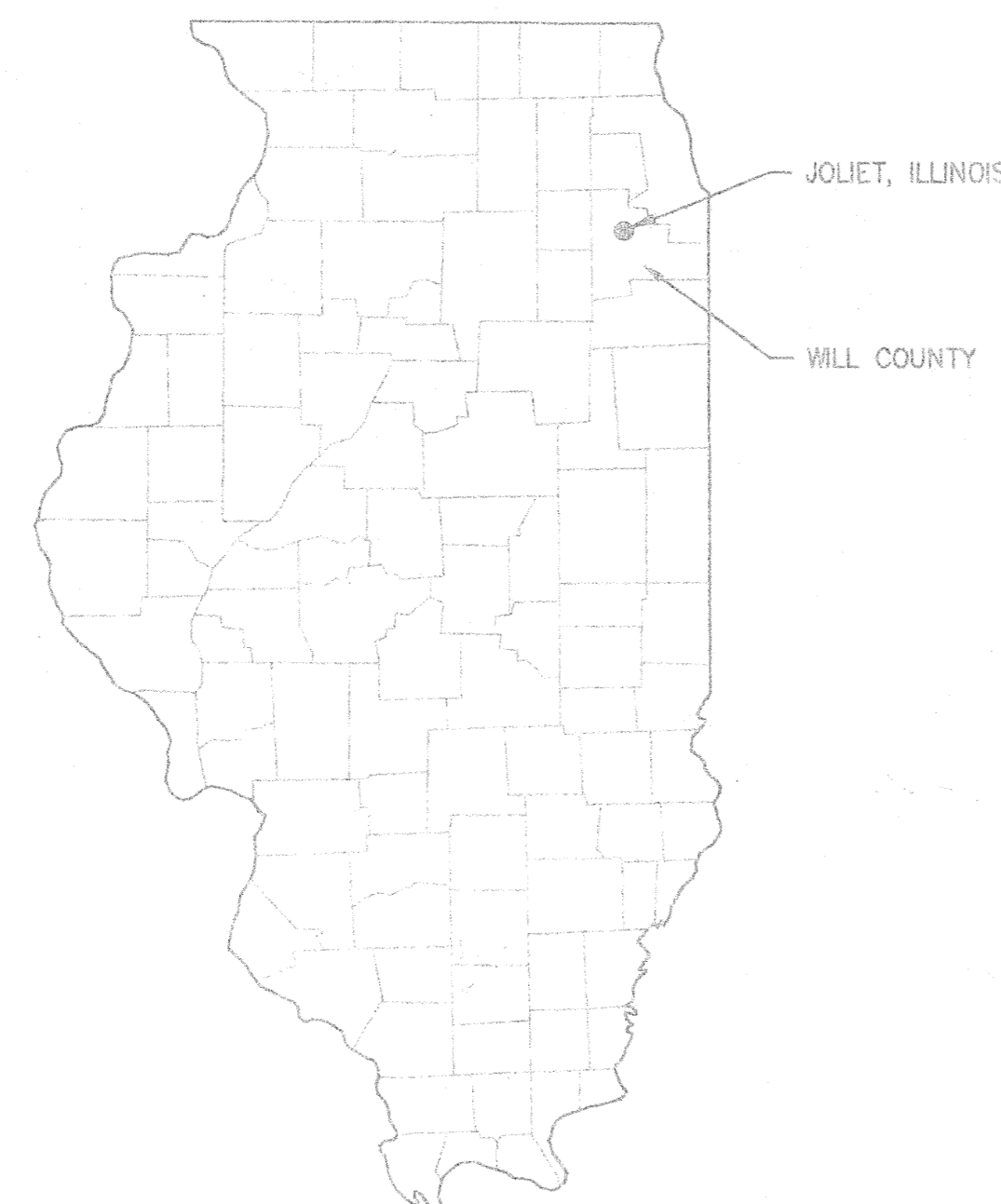


EASTSIDE WASTEWATER TREATMENT PLANT CITY OF JOLIET, ILLINOIS SLUDGE STORAGE FACILITY

NOVEMBER 1995



INDEX OF DRAWINGS

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- E-6 PUMP BUILDING CONTROL DIAGRAMS
- M-1 PUMP BUILDING MECHANICAL PLAN

BID SET
SET NO. _____

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING
ANY PORTION OF THIS DRAWING.

DESIGNED BY:	JLE	9/95
DRAWN BY:	JLE	9/95
CHECKED BY:	BDS	9/95
APPROVED BY:	RJC	10/95
AGENCY:	DETAILS	DATE

NO.	DATE	REVISION	APP'D

NO.	DATE	REVISION	APP'D

NO.	DATE	REVISION	APP'D

CDI
CLARK DIETZ, INC.
ENGINEERS ARCHITECTS
CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS KENOSHA, WISCONSIN

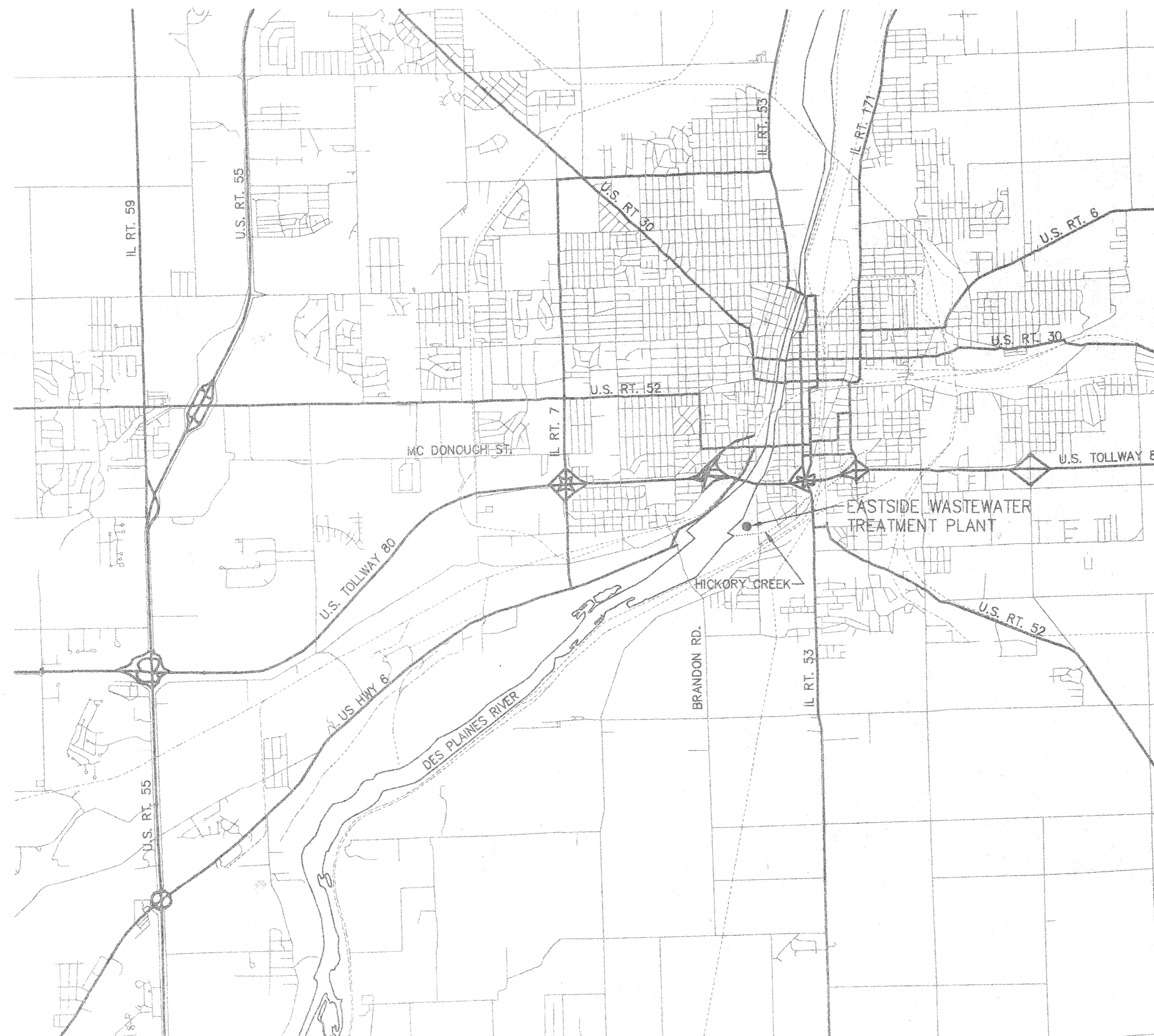
EASTSIDE WASTEWATER
TREATMENT PLANT
CITY OF JOLIET, ILLINOIS.

SLUDGE STORAGE FACILITY
COVER

PROJECT NUMBER J02171
DRAWING NUMBER G-1

GENERAL NOTES

1. NOT ALL OF THE GAS, POWER, OR TELEPHONE LINES, WHETHER ABOVE OR BELOW GROUND, HAVE BEEN SHOWN ON THE DRAWINGS. THE CONTRACTOR MUST REALIZE THAT THE ACTUAL LOCATIONS OF THE UTILITIES SHOWN ON THE DRAWINGS MAY BE DIFFERENT FROM THE LOCATIONS INDICATED.
2. THE LOCATIONS OF THE EXISTING YARD PIPING, SUCH AS RAW SEWAGE LINES, DRAIN LINES, NON-POTABLE WATER LINES, ETC., AS SHOWN ON THE DRAWINGS, HAS BEEN DETERMINED FROM PLANS FOR THE EXISTING FACILITIES AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR MUST ASSUME RESPONSIBILITY FOR ALL PIPING AND MUST REALIZE THAT THE ACTUAL LOCATIONS MAY BE DIFFERENT FROM THOSE INDICATED ON THE DRAWINGS.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE THE WASTEWATER TREATMENT FACILITY, ALL EXISTING PROCESS PIPING, AND ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE OWNER.
4. BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL PRESERVE AND PROTECT PROPERTY MARKERS, SECTION CORNERS, SURVEY MARKS AND CITY BENCH MARKS, SUCH AS STONES, PIPES, OR OTHER MONUMENTS ENCOUNTERED. IF THE CONTRACTOR MUST RELOCATE THE PROPERTY MARKERS OR MONUMENTS, THEIR LOCATION SHALL BE REFERENCED BY A REGISTERED LAND SURVEYOR AND THE OWNER NOTIFIED BEFORE MOVING. ALL PROPERTY MARKERS AND MONUMENTS RELOCATED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE AREA AND NO EXTRA COMPENSATION CONNECTED WITH OVERHEAD UTILITIES WILL BE ALLOWED.
7. THE CONTRACTOR IS RESPONSIBLE FOR DUST AND MUD CONTROL.
8. ROADWAY SURFACING AND BASE MATERIALS, OR ANY OTHER PROPERTY REMOVED OR DAMAGED, SHALL BE REPLACED OR REPAIRED AS PROVIDED FOR IN THE SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS.
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION TRAFFIC CONTROL.
10. IT IS INTENDED THAT GRADING BE PROVIDED TO ASSURE ADEQUATE DRAINAGE AWAY FROM THE BUILDINGS AND STRUCTURES. ALL GRADING SHALL BE APPROVED BY THE OWNER.
11. THE CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING EROSION CONTROL AND THE SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OR WORK ON THE PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
12. INFORMATION ON DETAIL DRAWINGS TAKES PRIORITY OVER ALL GENERAL DRAWINGS AND SCHEDULES. CONFLICTS SHALL BE RESOLVED ACCORDINGLY.
13. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES, THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.
14. THE COST OF ABIDING BY THE PROVISIONS OF PERMITS ISSUED BY VARIOUS AGENCIES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ALL ASSOCIATED BONDING REQUIREMENTS AND COSTS ARE INCIDENTAL TO THE CONTRACT.
15. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FROM THE WILL COUNTY HIGHWAY DEPARTMENT (815/727-8478) WHEN OVERWEIGHT LOADS ARE TO BE TRANSPORTED TO AND FROM THE PLANT SITE. THE PERMIT WILL BE NECESSARY FOR LOADS EXCEEDING THE STATE MAXIMUM WEIGHT LIMIT OF 73,280 LBS. AN INDIVIDUAL PERMIT WILL BE REQUIRED FOR EACH OVERWEIGHT LOAD. THE CONTRACTOR MAY APPLY FOR THE PERMIT BY PHONE AND PICK UP AND SIGN THE PERMIT AT THE HIGHWAY DEPARTMENT OFFICES IN JOLIET. THE FOLLOWING INFORMATION WILL BE NEEDED:
 - A DESCRIPTION OF THE LOAD.
 - THE LOAD ORIGIN AND DESTINATION.
 - THE LOAD'S TOTAL LENGTH, WIDTH, AND HEIGHT.
 - WEIGHTS OF SEPARATE COMPONENTS OF THE LOAD (TRACTOR WEIGHT, TRAILER WEIGHT, AND THE WEIGHT OF THE OBJECT BEING MOVED).
 - LICENSE NUMBERS OF THE TRACTOR AND TRAILER BEING USED.
 - DATE THAT THE MOVE WILL TAKE PLACE.



PROJECT LOCATION MAP

SCALE: 1"=4000'±

BENCHMARK

- CDI #1 TOP OF CONCRETE WALL AT NE CORNER OF EXISTING AERATION TANKS. ELEV. 527.00
 CDI #2 RIM OF EXISTING MANHOLE 251' NORTH OF SW CORNER OF EXISTING SLUDGE DRYING BEDS. ELEV. 523.36

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY:	JLE	9/95
DRAWN BY:	JLE	9/95
CHECKED BY:	BDS	9/95
APPROVED BY:		
ACTIVITY	INITIALS	DATE

NO.	DATE	REVISION	APP'D

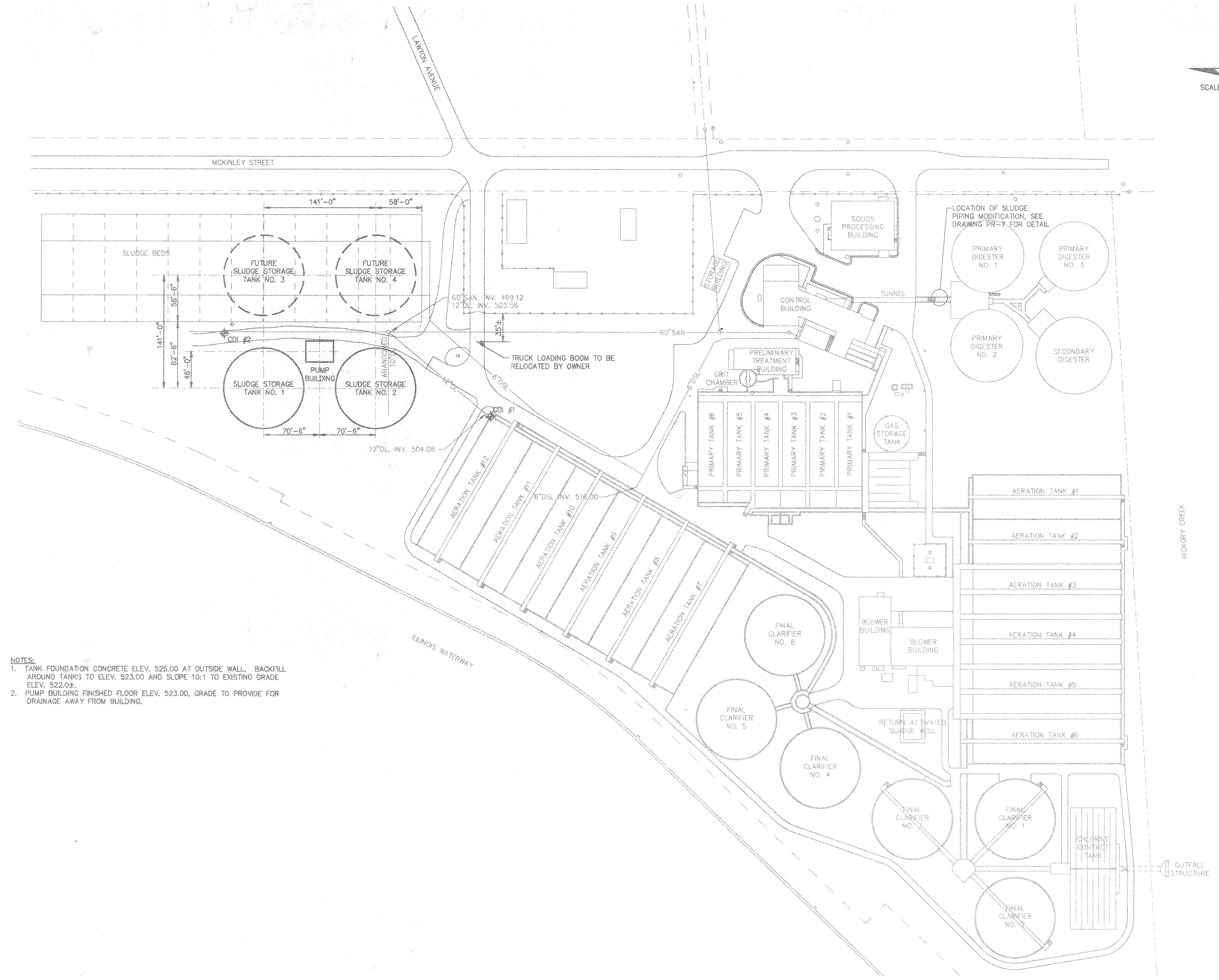
NO.	DATE	DISTRIBUTION

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 ENGINEERS ARCHITECTS
 CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS KENOSHA, WISCONSIN

EASTSIDE WASTEWATER
 TREATMENT PLANT
 CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
 LOCATION MAP AND
 GENERAL NOTES

PROJECT NUMBER J02171
 DRAWING NUMBER G-2



- NOTES:**
1. TANK FOUNDATION CONCRETE ELEV. 525.00 AT OUTSIDE WALL. BACKFILL AROUND TANKS TO ELEV. 523.00 AND SLOPE 10:1 TO EXISTING GRADE ELEV. 522.0±.
 2. PUMP BUILDING FINISHED FLOOR ELEV. 523.00, GRADE TO PROVIDE FOR DRAINAGE AWAY FROM BUILDING.

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

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DRAWN BY:	JLE	9/95
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APPROVED BY:	RJC	10/95
ACTIVITY	INITIALS	DATE

NO.	DATE	REVISION	APP'D

DATE	DISTRIBUTION

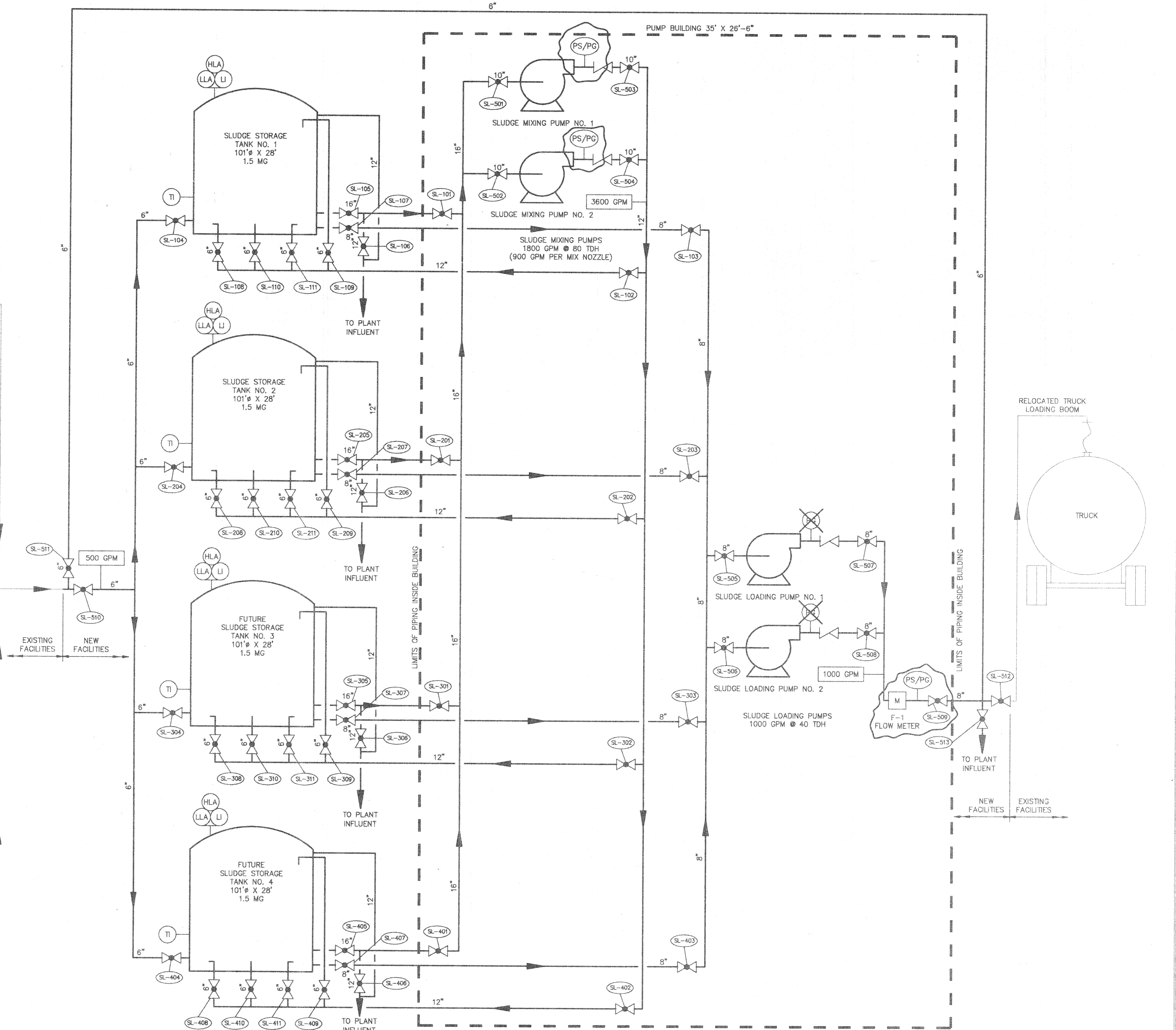
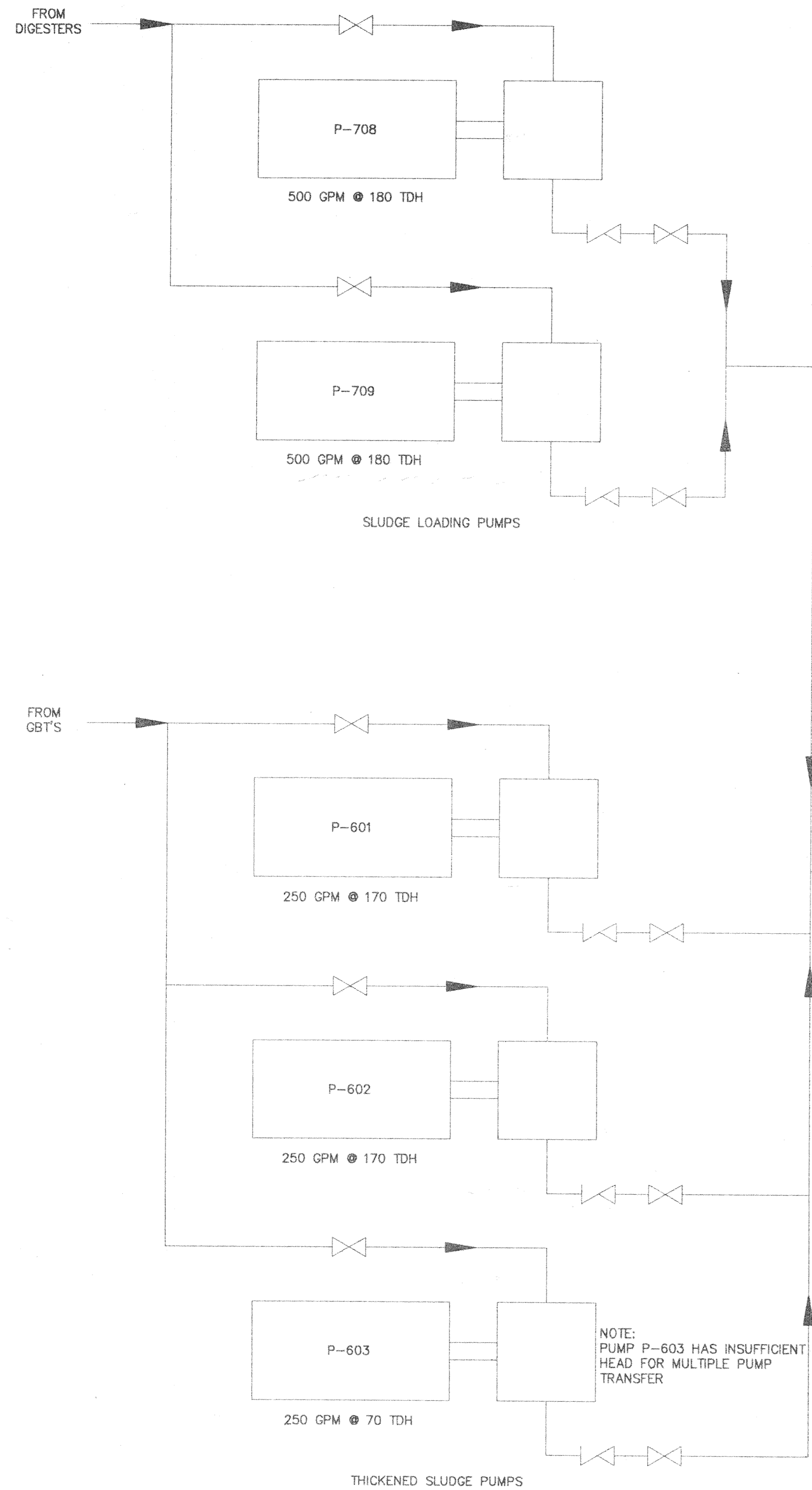


CLARK DIETZ, INC.
ENGINEERS ARCHITECTS
CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS KENOSHA, WISCONSIN

EASTSIDE WASTEWATER TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
SITE PLAN

PROJECT NUMBER: J02171
PR-1



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DRAWN BY:	JLE	9/95
CHECKED BY:	BDS	9/95
APPROVED BY:	RJC	10/95
ACTIVITY	INITIALS	DATE

NO	DATE	REVISION	APP'D
1	12/12/95	ADD 3 PRESSURE SWITCHES WITH PRESSURE GAUGES.	RJC
		DELETE 4 PRESSURE ONLY GAUGES	

DATE	DISTRIBUTION

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS
CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS KENOSHA, WISCONSIN

EASTSIDE WASTEWATER TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
PROCESS FLOW/
P & I DIAGRAM

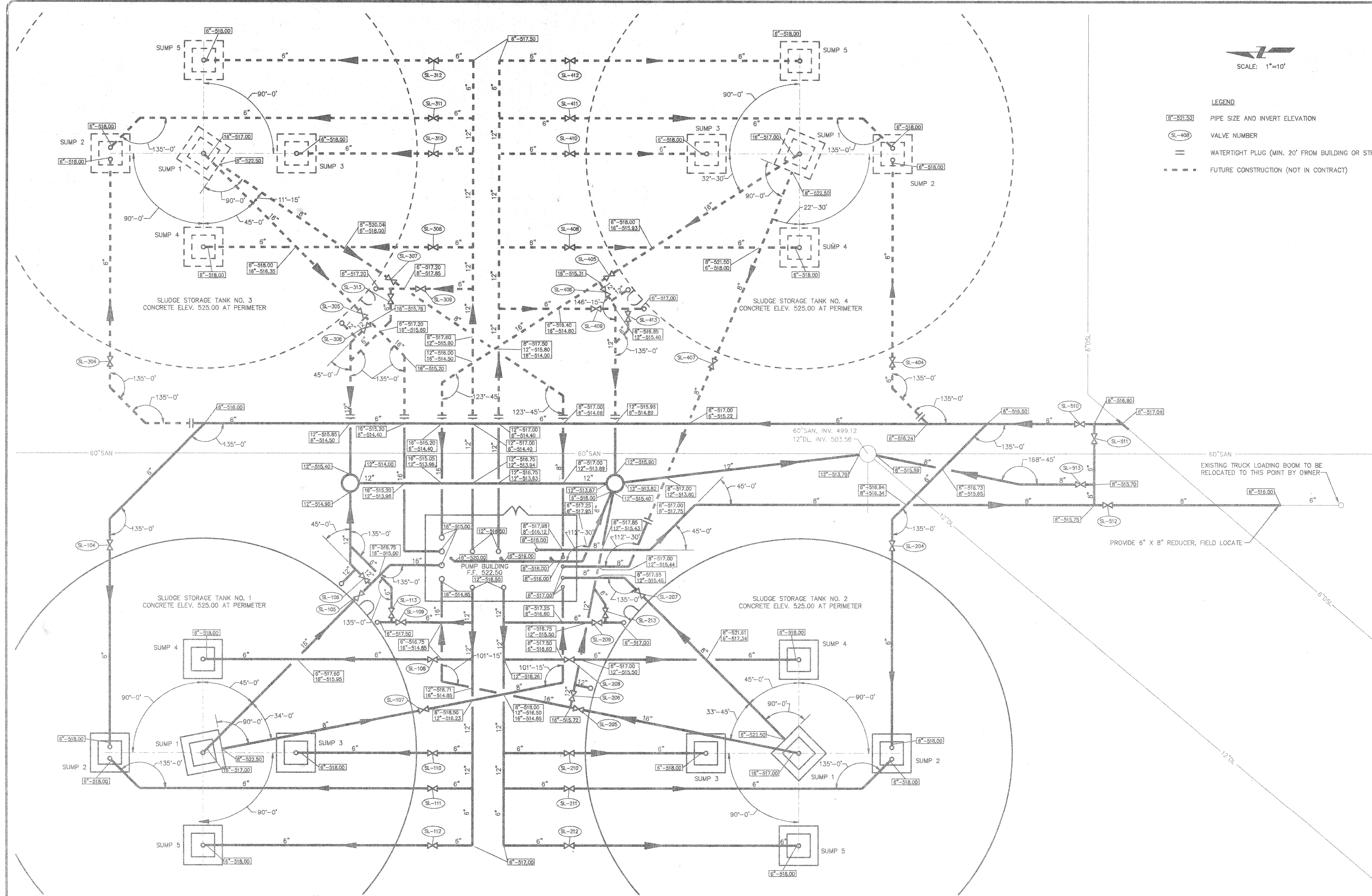
PROJECT NUMBER J02171
DRAWING NUMBER PR-2R



SCALE: 1"=10'

LEGEND

- 8"-521.50 PIPE SIZE AND INVERT ELEVATION
- SL-408 VALVE NUMBER
- WATERTIGHT PLUG (MIN. 20' FROM BUILDING OR STRUCTURE)
- FUTURE CONSTRUCTION (NOT IN CONTRACT)



NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

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APPROVED BY:	RJC	10/95
ACTIVITY	INITIALS	DATE

NO.	DATE	REVISION	APP'D
3	3/13/98	RELOCATE TOP NOZZLE AND LADDER ON BOTH TANKS. ADD VALVE AND DRAIN LINE TO TOP NOZZLE LINE. RJC	
2	2/14/98	ADD FOURTH SUMP TO TANK WITH DIMENSIONAL 6" PIPING AND ROTATING SUMPS 4 & 5 TO 90° RJC	
1	12/12/95	REDO PIPING LAYOUT DUE TO BLD. SIZE CHANGE RJC	

DATE	DISTRIBUTION

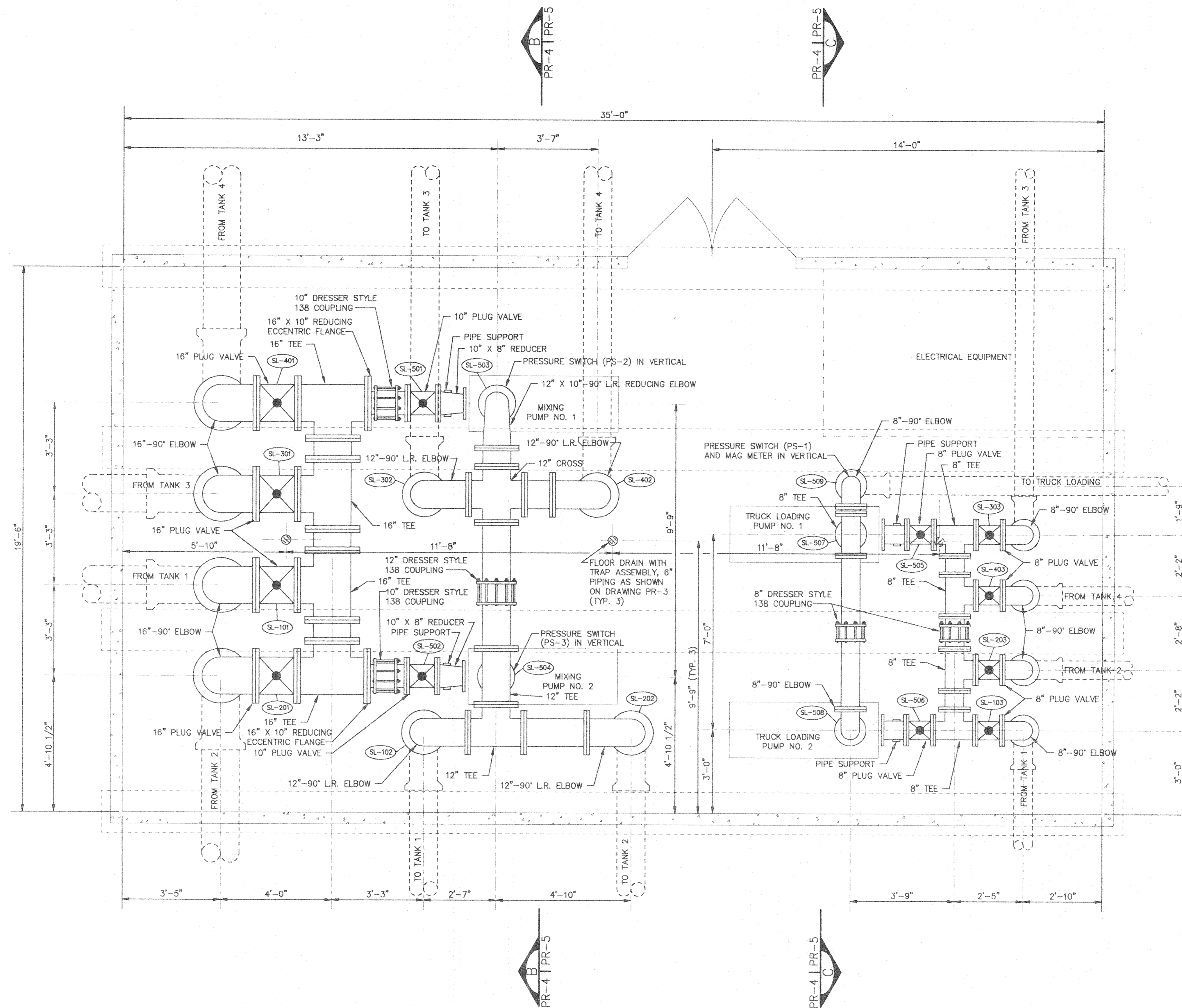
CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS

CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS KENOSHA, WISCONSIN

EASTSIDE WASTEWATER TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
SLUDGE STORAGE TANK
SITE PIPING

PROJECT NUMBER J02171
PR-37



SLUDGE PUMP BUILDING PLAN
SCALE: 1/2"=1'

- NOTES:**
1. CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO STARTING CONSTRUCTION.
 2. VALVES SL-503, SL-504, SL-507 & SL-508 TO HAVE CHAINWHEEL ACTUATORS. ALL REMAINING INTERIOR VALVES TO HAVE HANDWHEEL ACTUATORS. COORDINATE ACTUATOR LOCATIONS AND ANGLES WITH OWNER PRIOR TO ORDERING VALVES.

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

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DRAWN BY:	JLE	9/95
CHECKED BY:	BDS	9/95
APPROVED BY:	RJC	10/95
ACTIVITY	INITIALS	DATE

NO	DATE	CHANGE (SIZE OF BUILDING AND REDO PIPING)	RJC

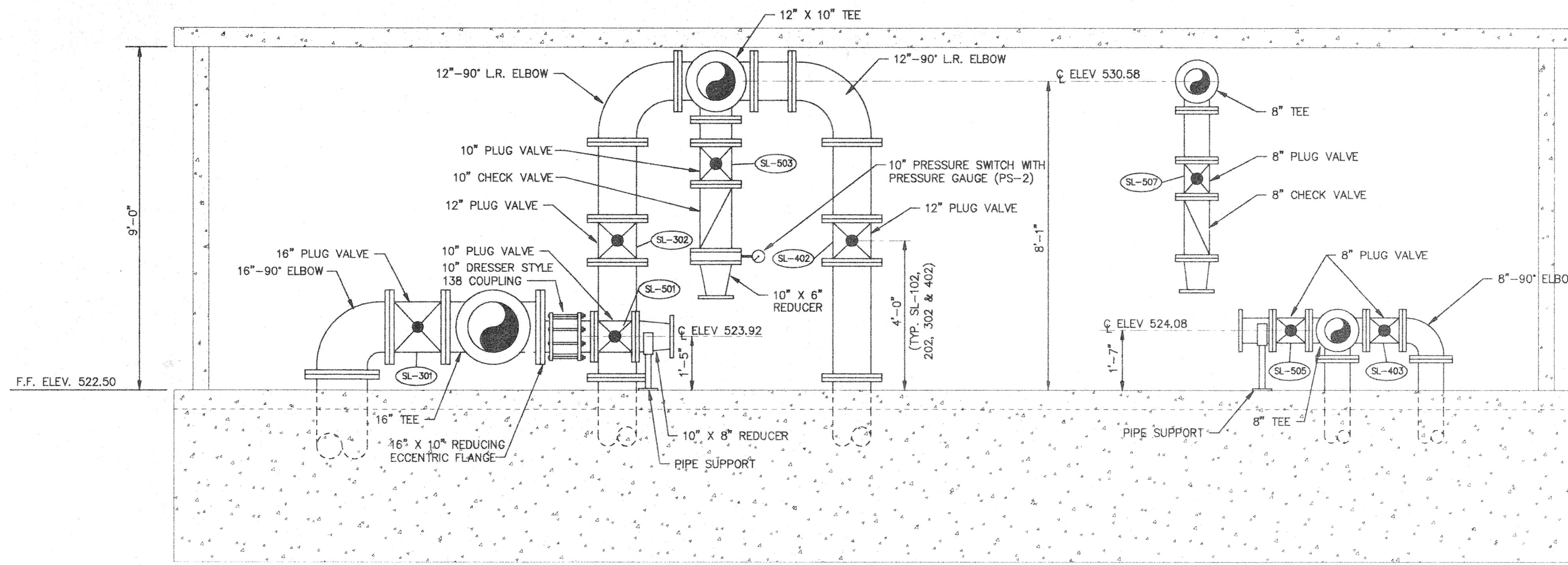
DATE	DISTRIBUTION

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ENGINEERS ARCHITECTS
CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS KENOSHA, WISCONSIN

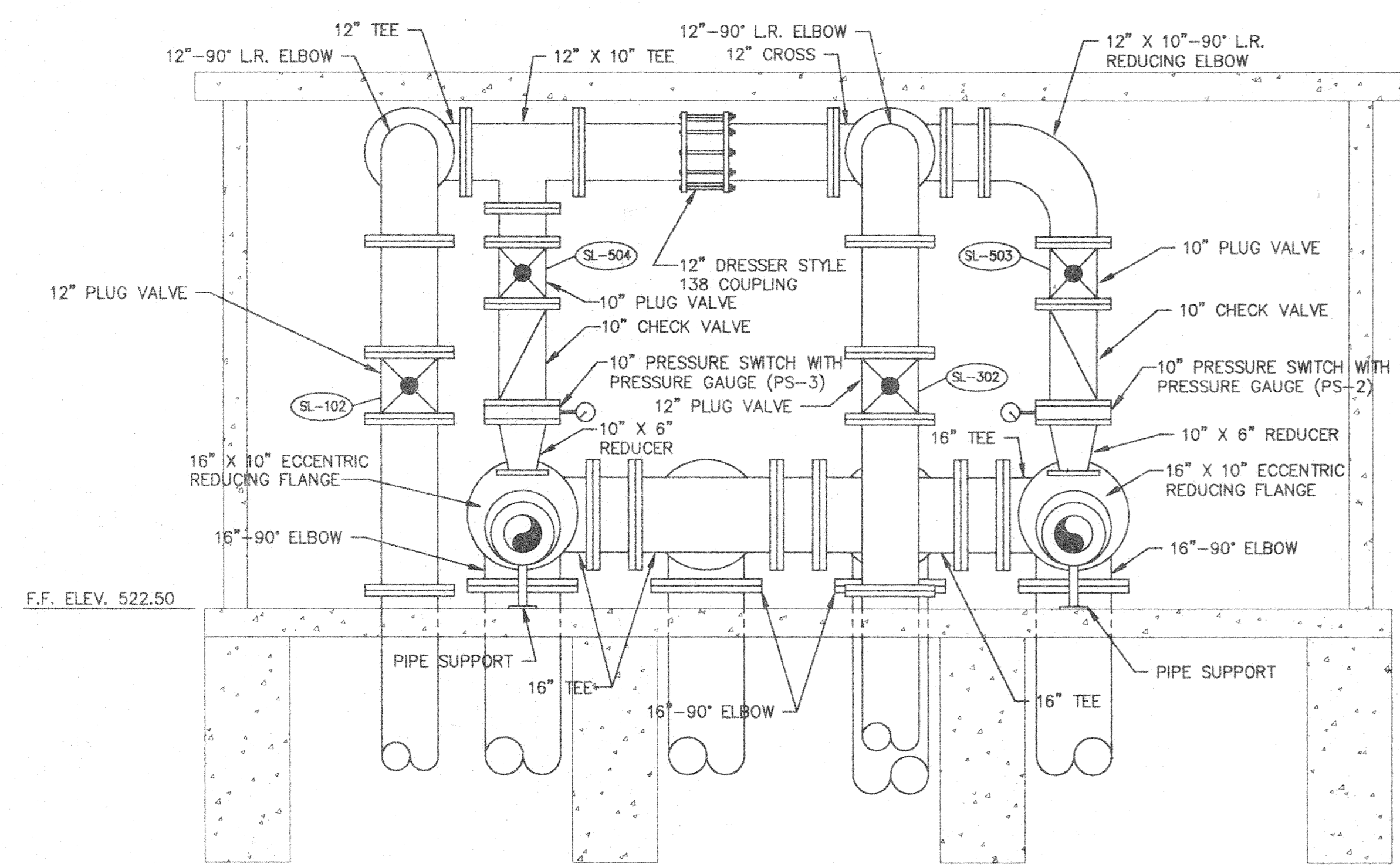
EASTSIDE WASTEWATER TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY PUMP BUILDING PLAN

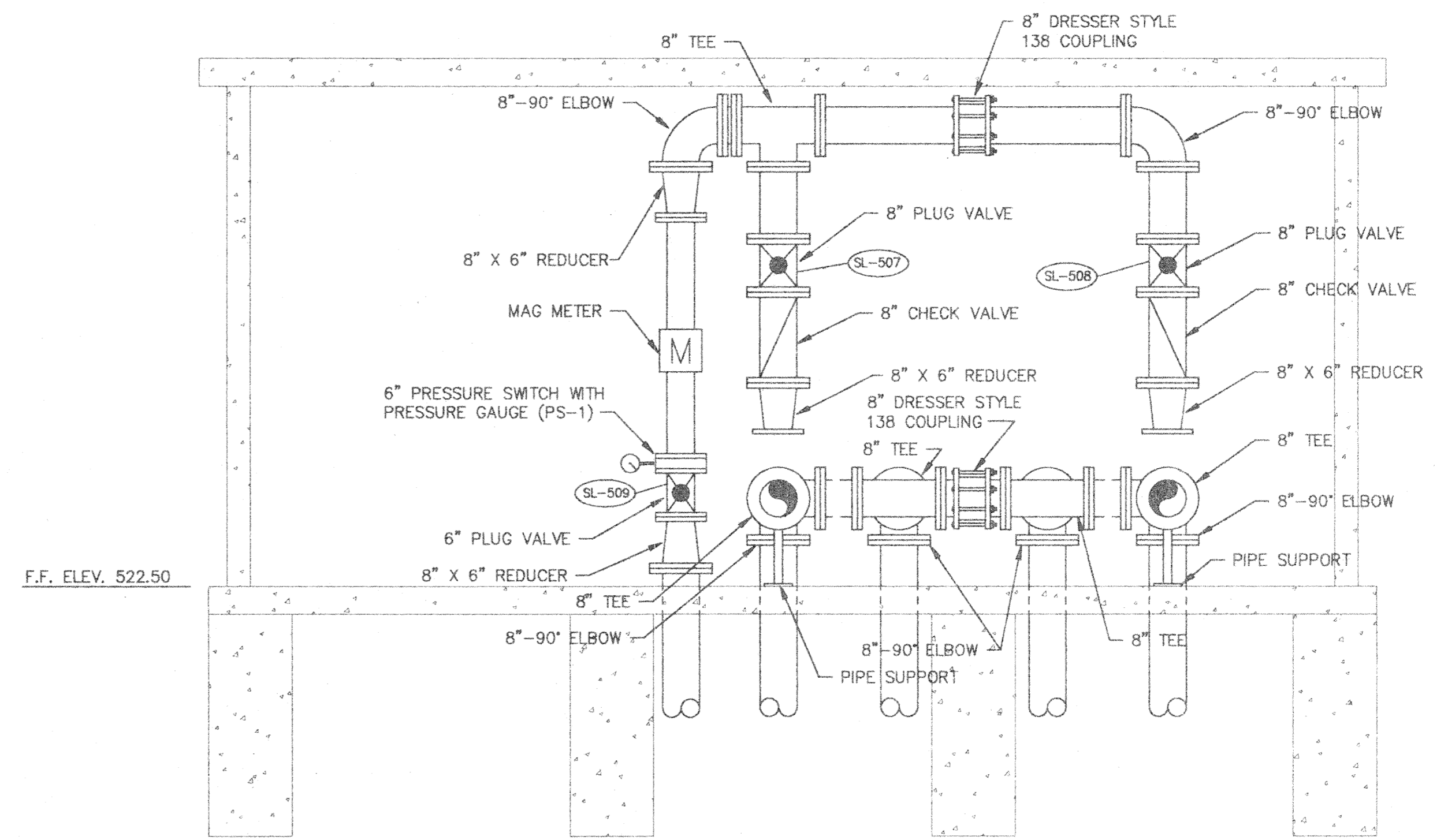
PROJECT NUMBER	J02171
DRAWING NUMBER	PR-4R



SECTION A-A
SCALE: 1/2"=1' PR-4 | PR-5



SECTION B-B
SCALE: 1/2"=1' PR-4 | PR-5



SECTION C-C
SCALE: 1/2"=1' PR-4 | PR-5

- NOTES:
1. CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO STARTING CONSTRUCTION.
 2. VALVES SL-503, SL-504, SL-507 & SL-508 TO HAVE CHAINWHEEL ACTUATORS, ALL REMAINING INTERIOR VALVES TO HAVE HANDWHEEL ACTUATORS. COORDINATE ACTUATOR LOCATIONS AND ANGLES WITH OWNER PRIOR TO ORDERING VALVES.
 3. PRESSURE SWITCHES SHALL BE ROBBINS-MYERS RKL SERIES OR EQUAL. SWITCHES SHALL BE INSTALLED AS SHOWN ON THIS DRAWING. THE PRESSURE SWITCHES SHALL PROVIDE PRESSURE SIGNALS FOR BOTH OVER PRESSURE AND RUN DRY PUMP PROTECTION. THE 120 VAC SWITCH SHALL HAVE NEMA 4 ENCLOSURE, 0-60 PSIG ADJUSTABLE OPERATING RANGE WITH 150 PSIG OVERRANGE, NITRILE ELASTOMER, CARBON STEEL HOUSING, 0-100 PSI PRESSURE GAUGE AND ALARM OPTION.

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

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ACTIVITY	INITIALS	DATE

NO.	DATE	REVISION	APP'D
1	12/12/95	CHANGE SIZE OF BUILDING AND REDO PIPING	RJC

DATE	DISTRIBUTION
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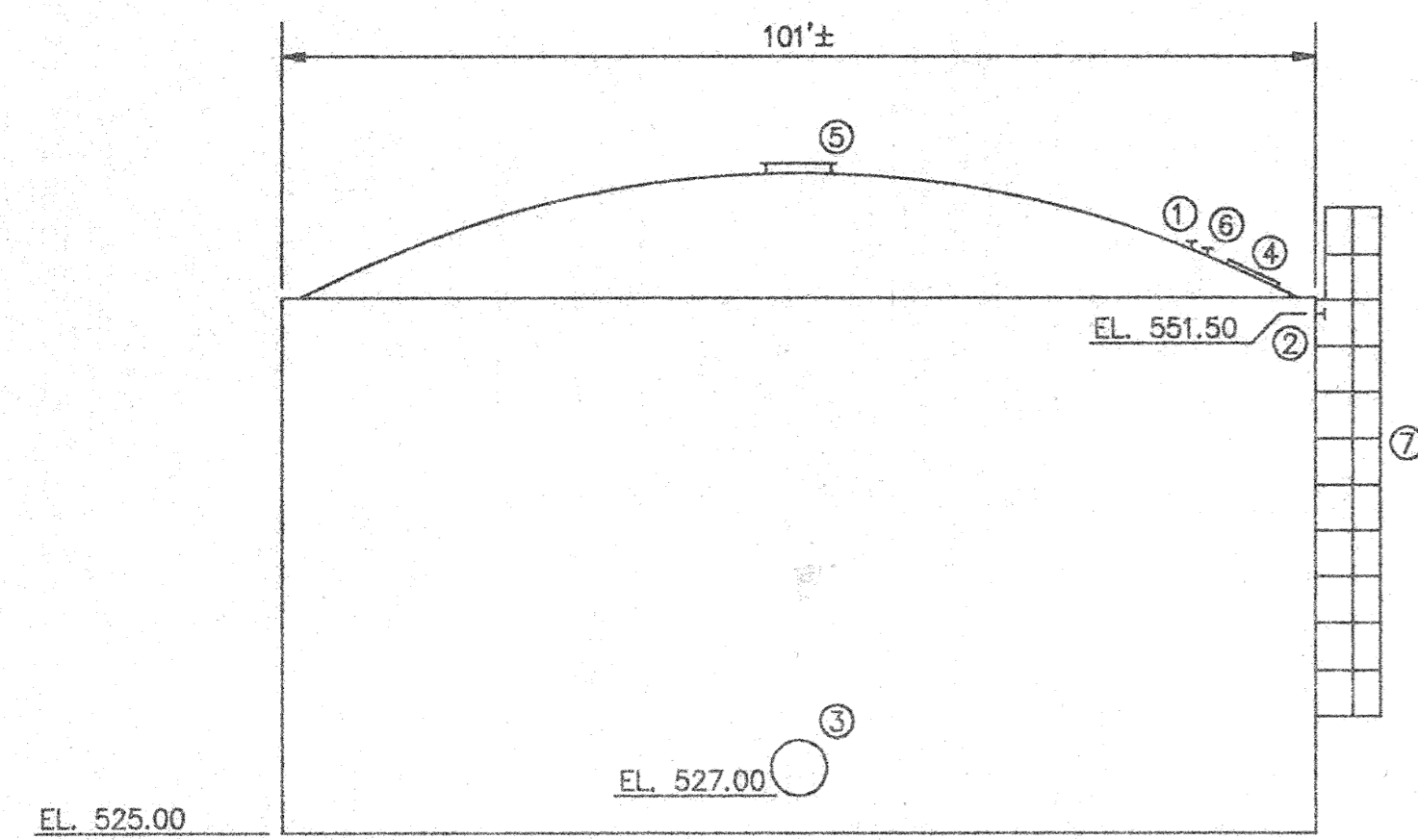
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ENGINEERS ARCHITECTS

CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS KENOSHA, WISCONSIN

EASTSIDE WASTEWATER TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
PUMP BUILDING SECTIONS

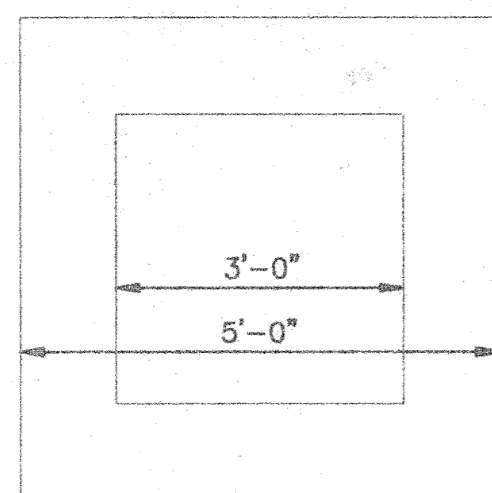
PROJECT NUMBER J02171
DRAWING NUMBER PR-5R



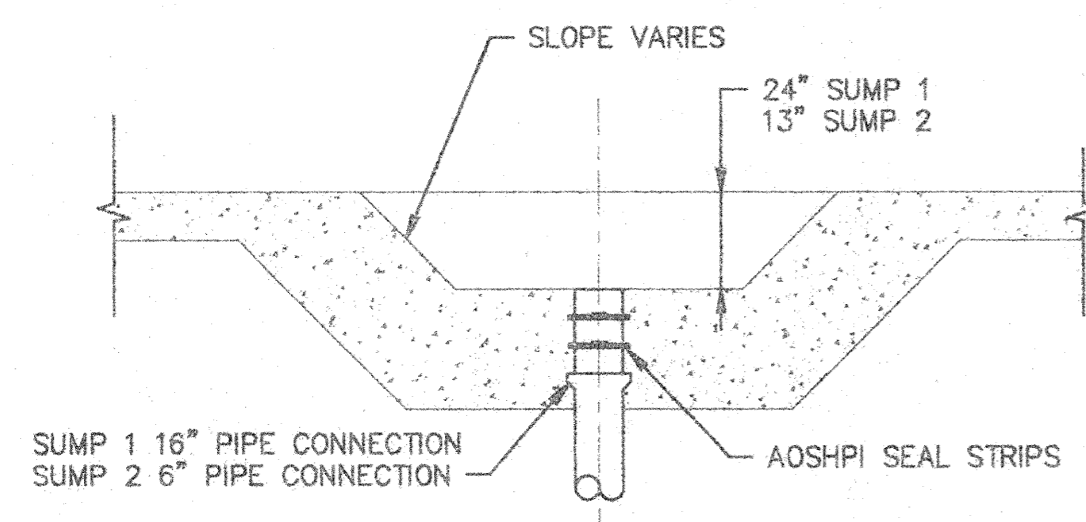
OPENING NO.	SIZE/DESCRIPTION	AXIS ORIENTATION			
		TANK 1	TANK 2	TANK 3	TANK 4
①	3" FLANGE LEVEL	SE	NE	SW	NW
②	12" OVERFLOW	SE	NE	SW	NW
③	30" MANWAY (2 TOTAL)	E & W	E & W	E & W	E & W
④	36" X 36" MIN. ACCESS HATCH	SE TOP	NE TOP	SW TOP	NW TOP
⑤	42" VENT	CENTER TOP	CENTER TOP	CENTER TOP	CENTER TOP
⑥	8" SAMPLE PORT	SE TOP	NE TOP	SW TOP	NW TOP
⑦	LADDER W/SAFETY CAGE	SE	NE	SW	NW

TANK ACCESSORIES

SCALE: NONE



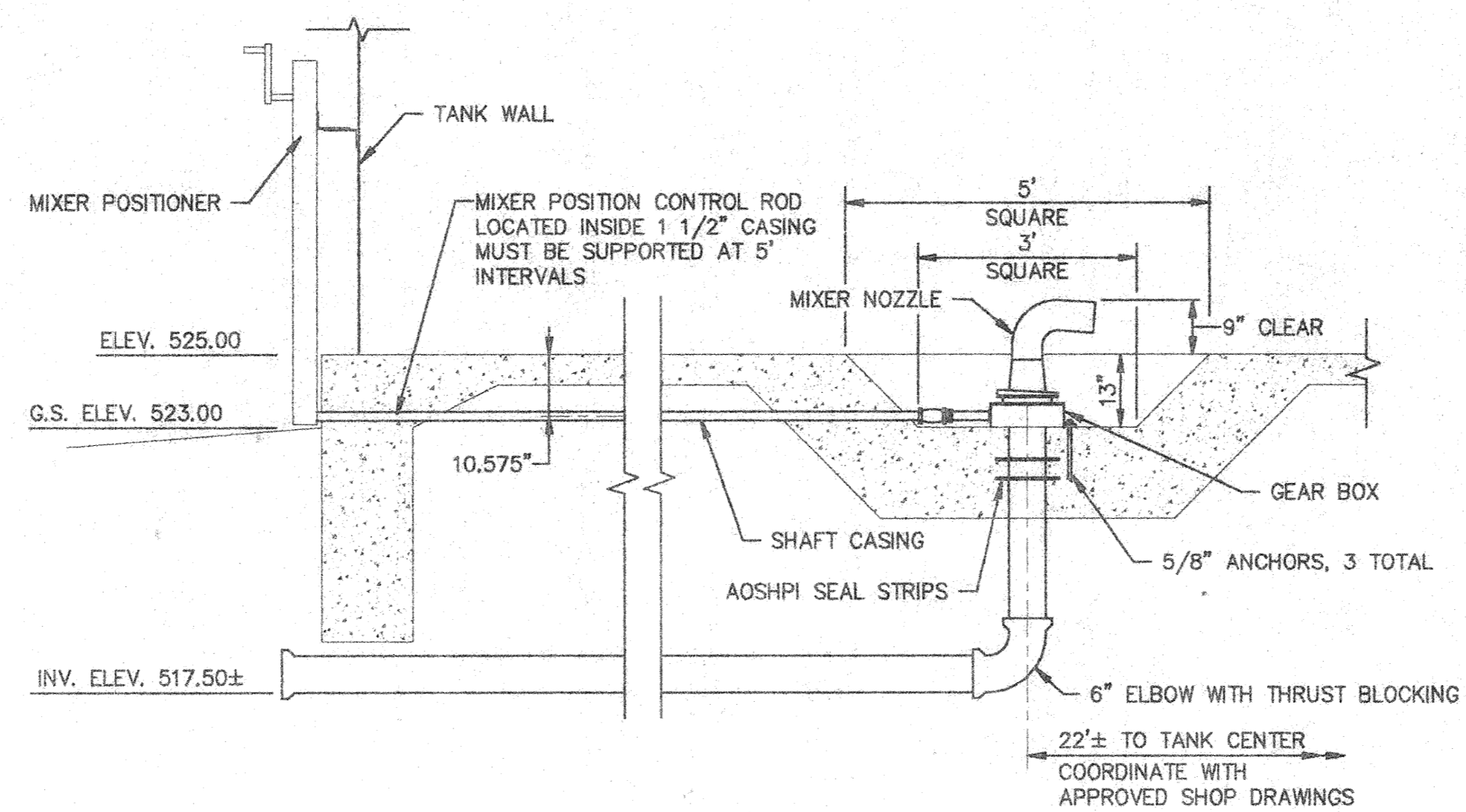
PLAN



SECTION

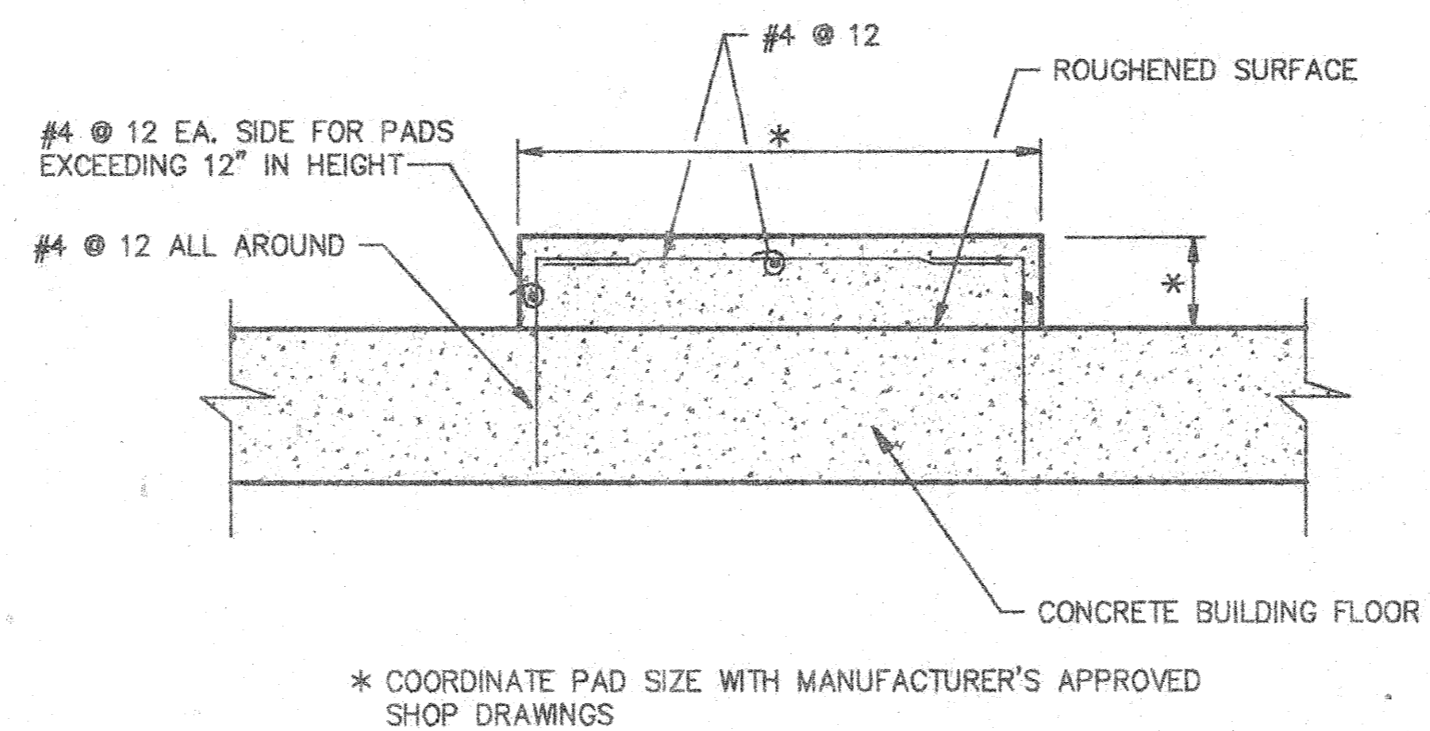
SUMP 1 & 2 DETAIL

SCALE: NONE



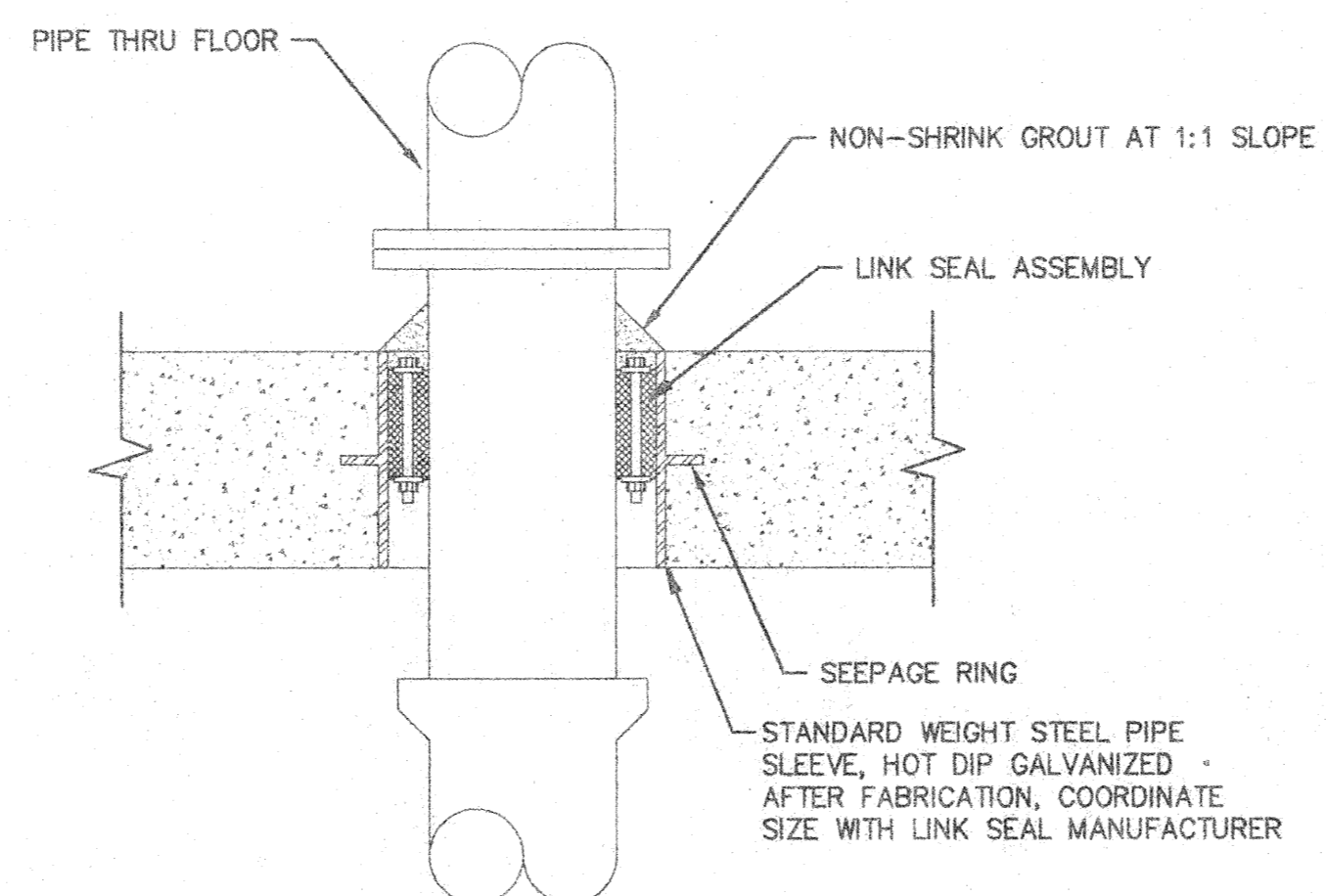
MIXER DETAIL - SUMPS 3, 4 & 5

SCALE: NONE



PUMP BUILDING EQUIPMENT PAD

SCALE: NONE



PUMP BUILDING FLOOR PENETRATION DETAIL

SCALE: NONE

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

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ACTIVITY	INITIALS	DATE

NO	DATE	REVISION	APPD

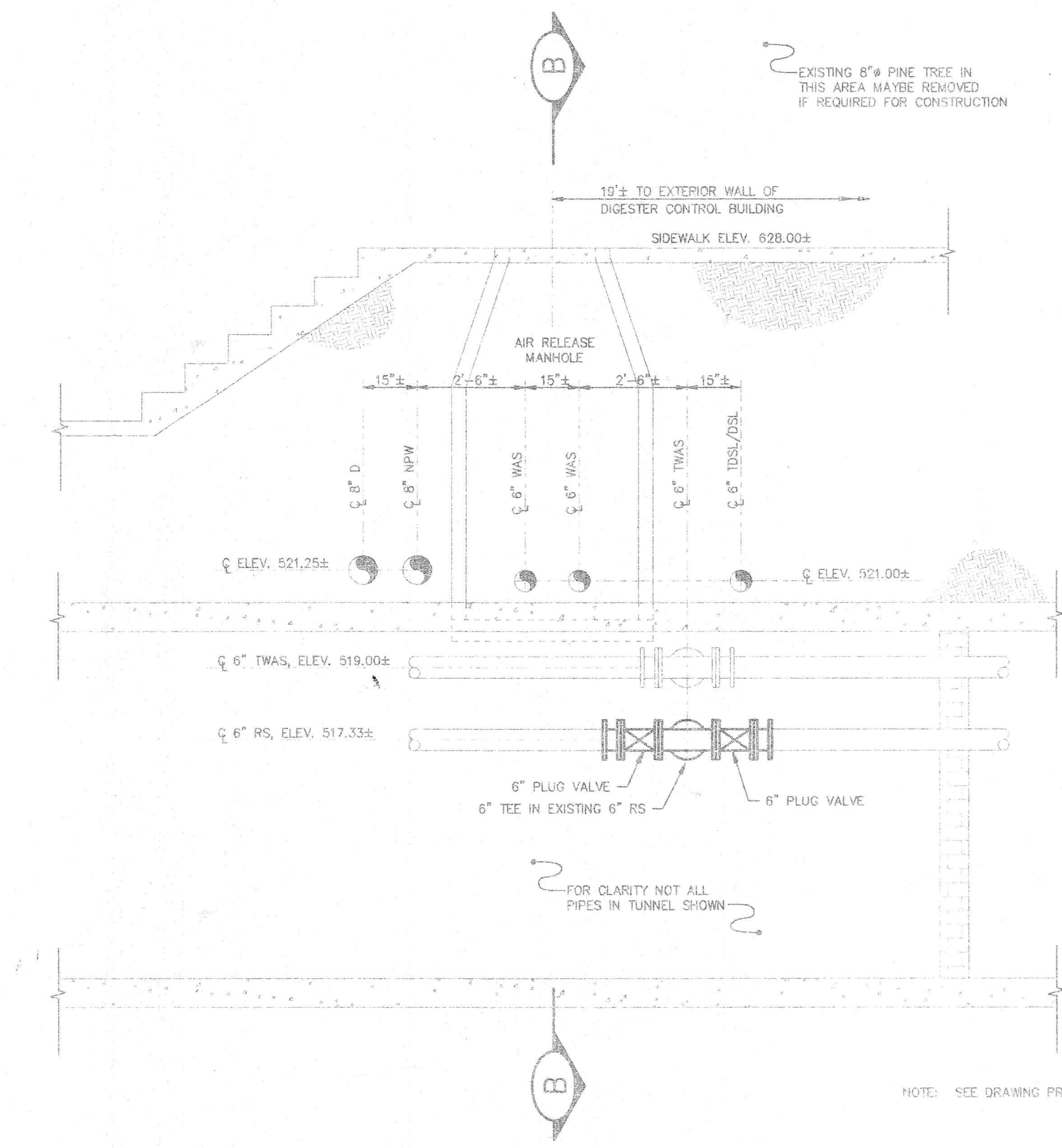
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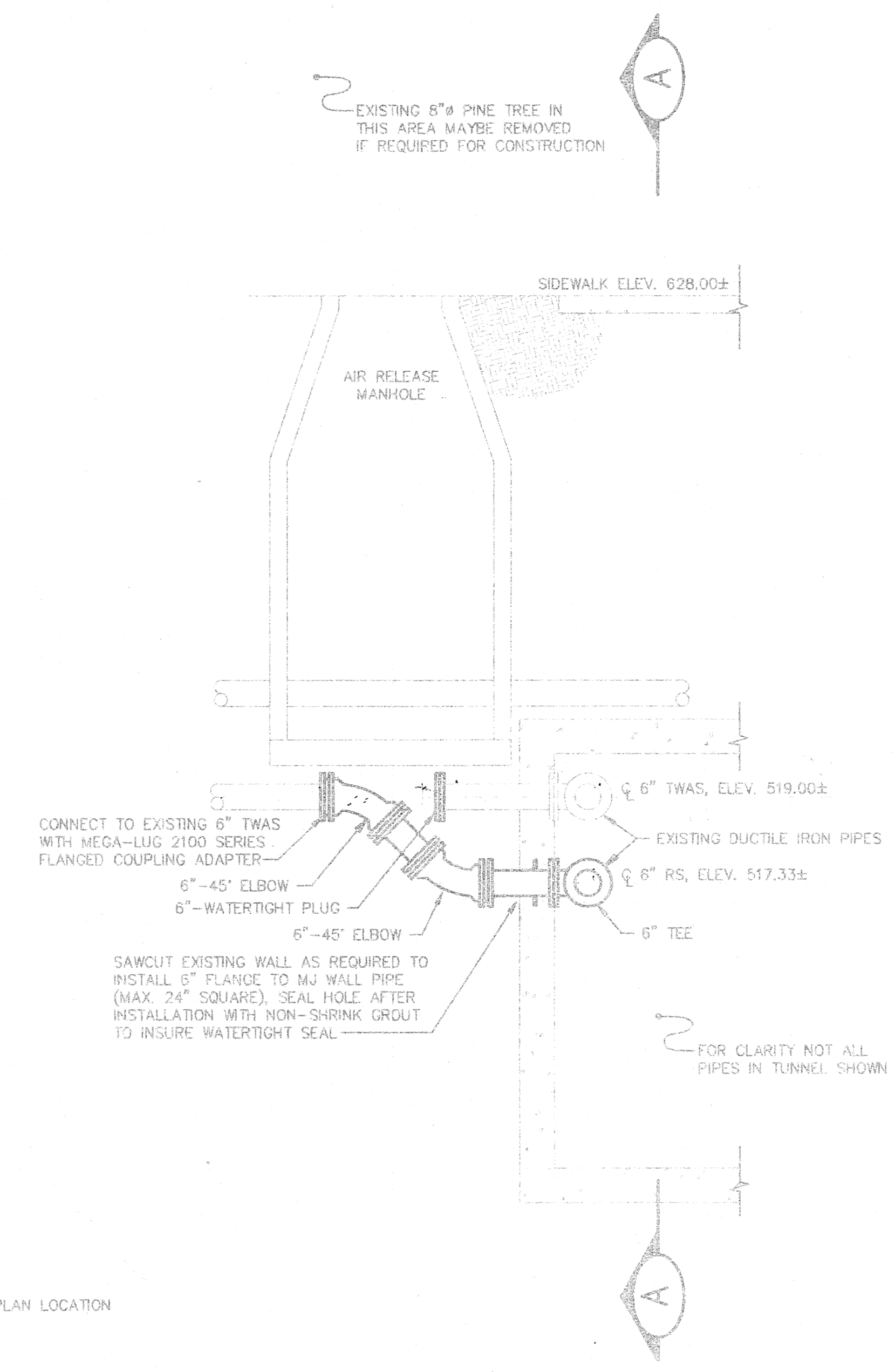
EASTSIDE WASTEWATER TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
SLUDGE STORAGE TANK AND BUILDING DETAILS

PROJECT NUMBER J02171
DRAWING NUMBER PR-6



SECTION A-A (LOOKING EAST)



SECTION B-B (LOOKING SOUTH)

NOTE: SEE DRAWING PR-1 FOR PLAN LOCATION

SLUDGE PIPING MODIFICATION DETAIL
SCALE: 1/2" X 1'

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING

DESIGNED BY:	JLE	9/95
DRAWN BY:	JLE	9/95
CHECKED BY:	BDS	9/95
APPROVED BY:	RUC	10/05
ACTIVITY	REVISED	DATE



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ENGINEERS ARCHITECTS

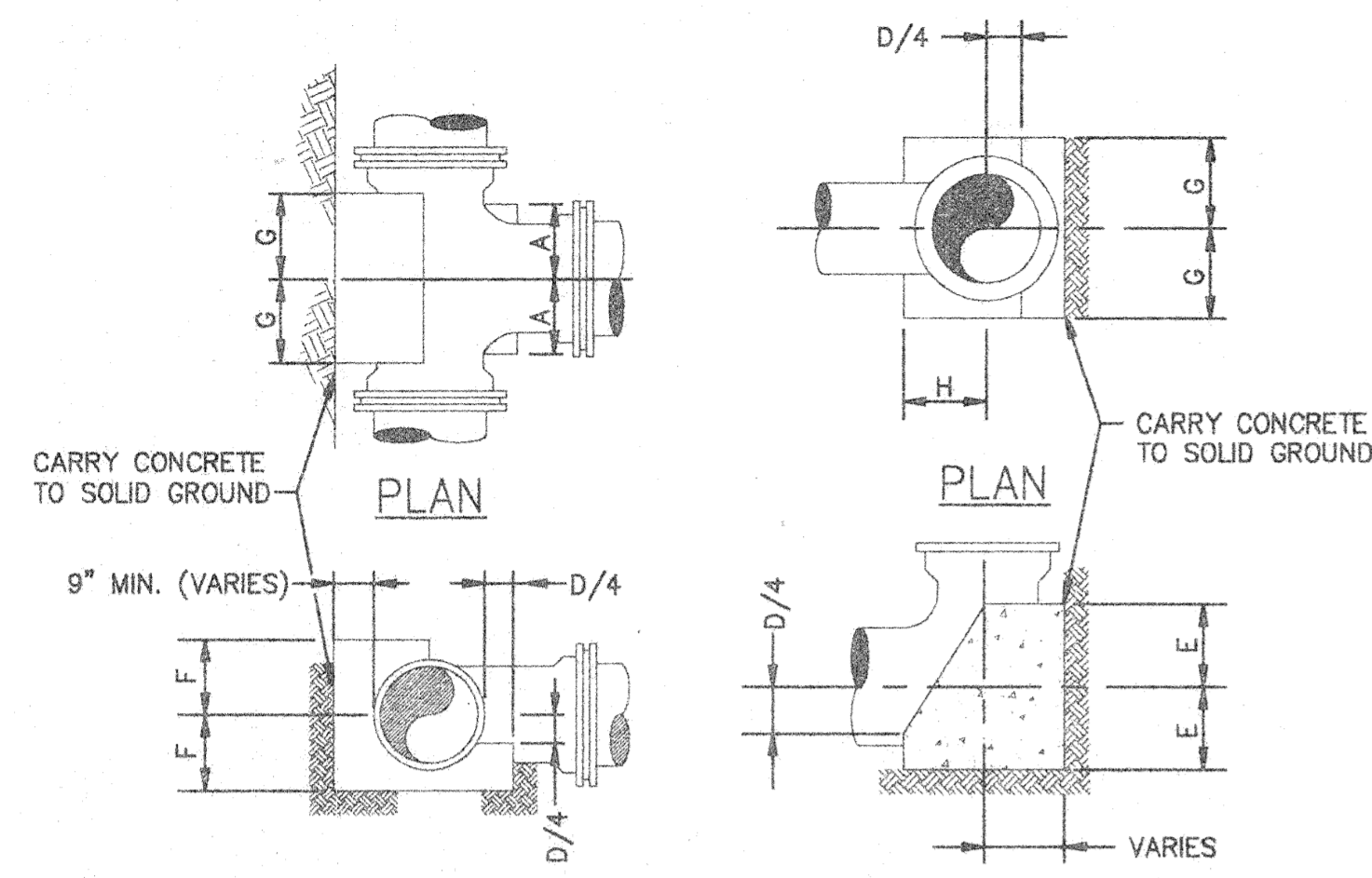
CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS WENDELL, MISSOURI

EASTSIDE WASTEWATER
TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
SLUDGE PIPING
MODIFICATION DETAIL

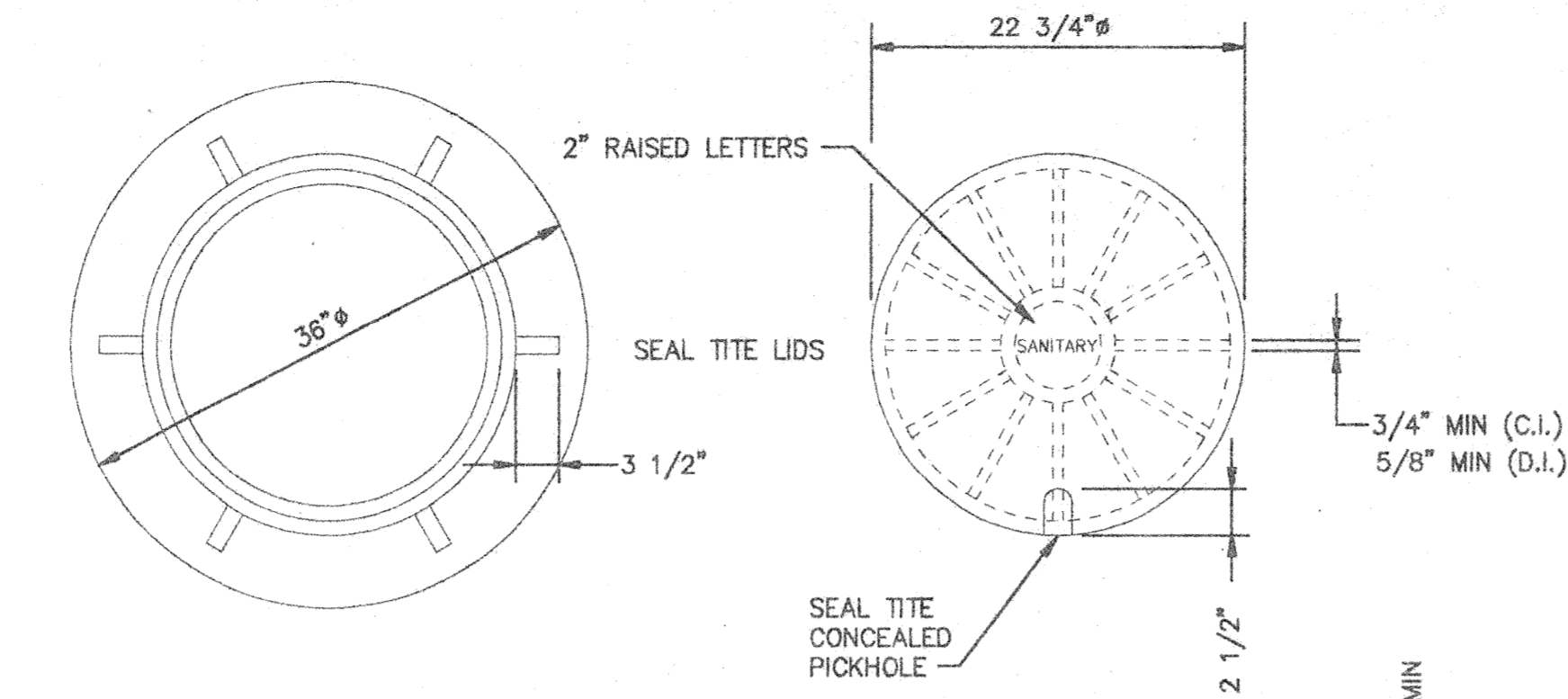
PROJECT NUMBER J02171

PR-7



THRUST BLOCK FOR TEES
SCALE: NONE

THRUST BLOCK FOR VERTICAL ELBOW
SCALE: NONE

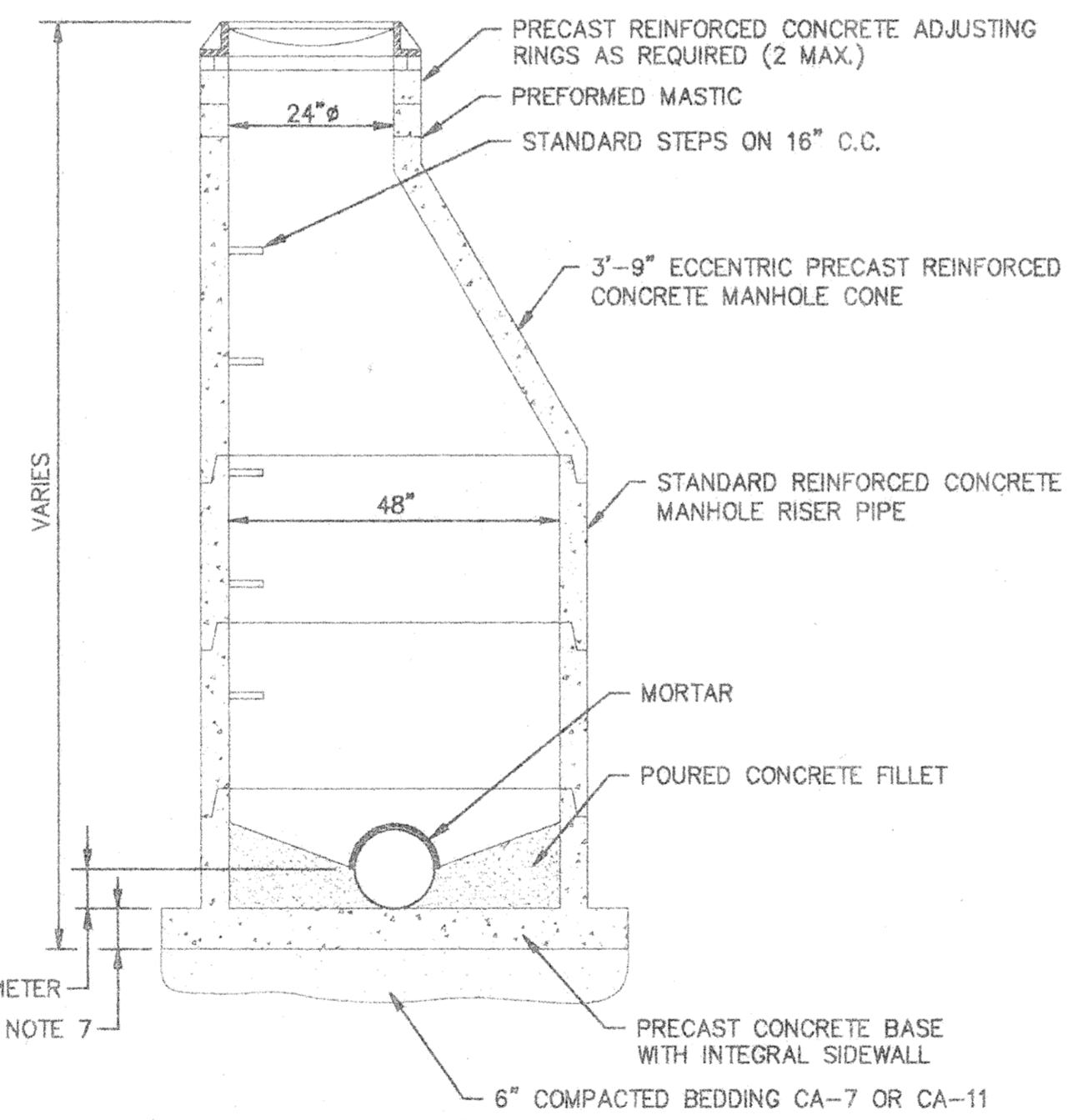


CAST FRAME
WEIGHT: 355 LBS

CAST CLOSED LID
(SEAL TITE CONCEALED PICKHOLE)
WEIGHT: 115 LBS

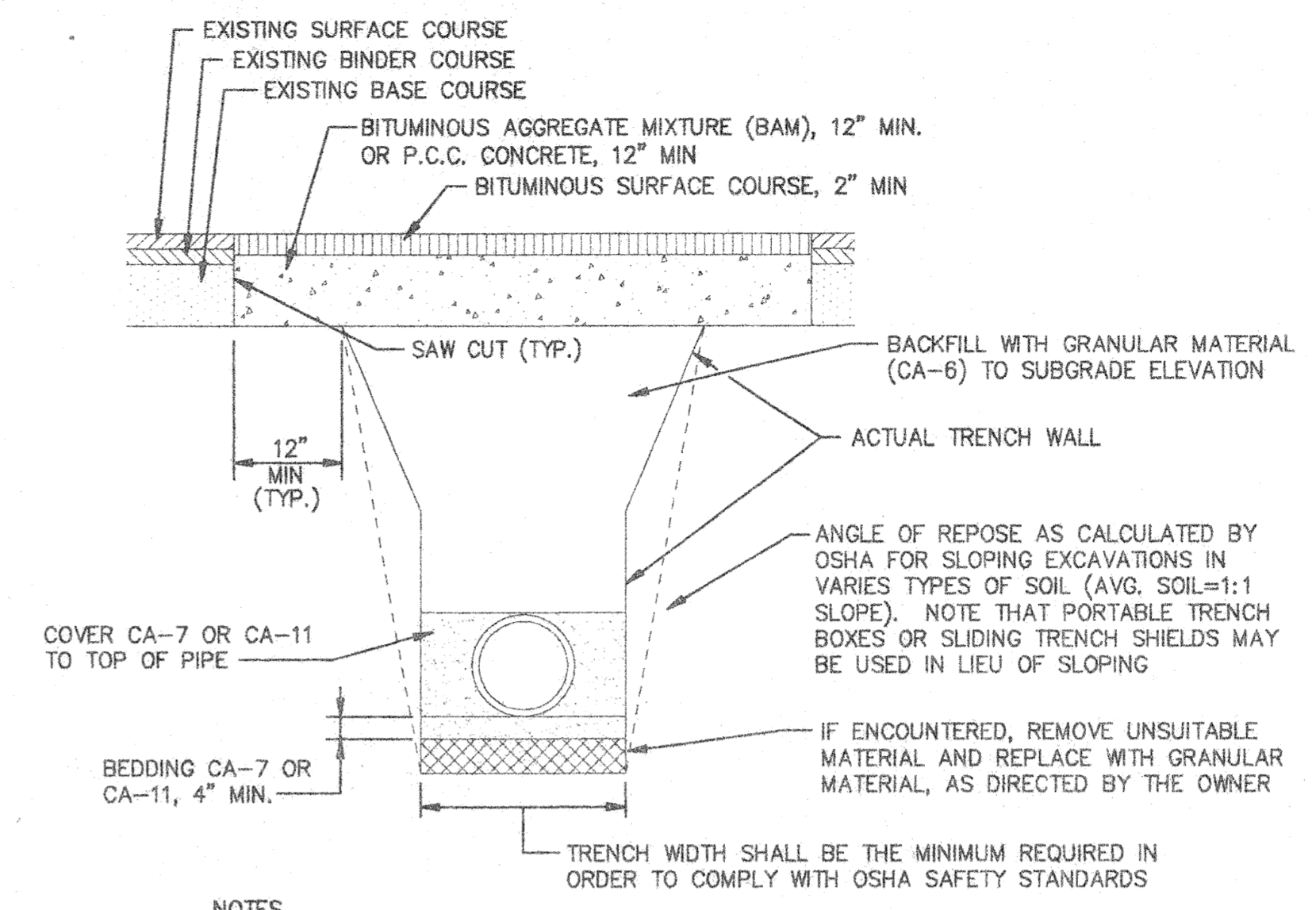
- NOTES:**
1. DUCTILE IRON CASTINGS SHALL BE GRADE 60-40-18 AND SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.
 2. ALL FRAMES AND COVERS SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. PICK HOLES SHALL NOT CREATE OPENINGS IN THE COVER.
 3. THE MANHOLE COVERS SHALL HAVE RAISED LETTERS AS SHOWN.
 4. ALTERNATIVE TO DUCTILE IRON LID, GRAY IRON LID MAY BE USED.
 5. MINIMUM WEIGHTS FOR CASTINGS AS SHOWN.
 6. DIMENSIONS FOR CASTINGS ARE COMPARABLE TO EAST JORDAN #1022-3 (HEAVY DUTY) OR NEENAH R1772C.

MANHOLE FRAME AND COVER
SCALE: NONE



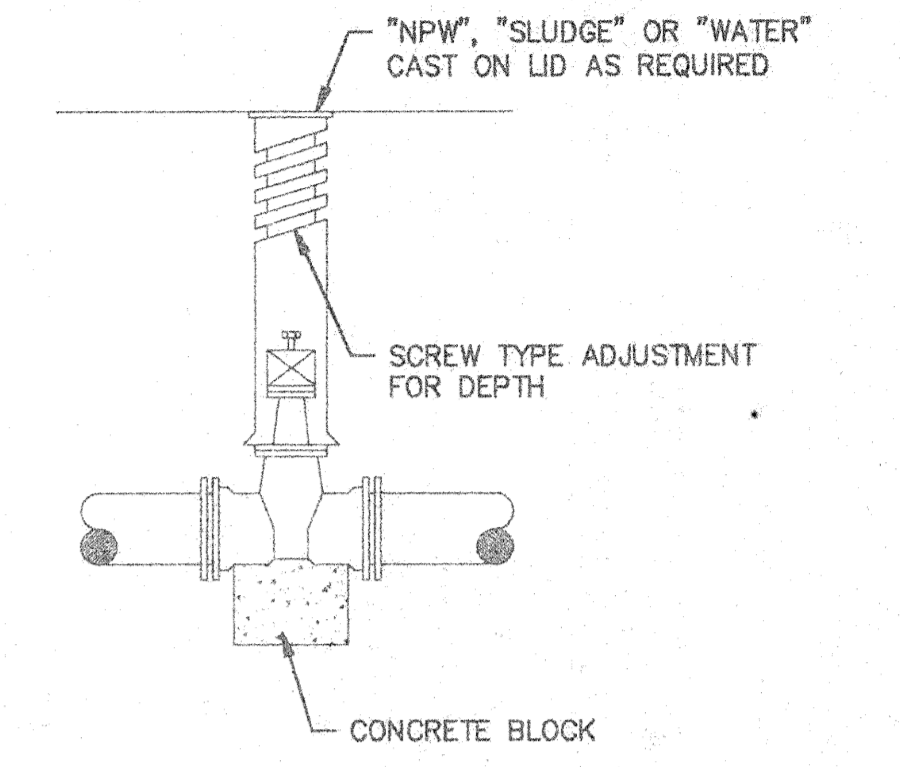
- NOTES:**
1. ALTERNATE MANHOLE BOTTOM, PRECAST REINFORCED CONCRETE BASE.
 2. CONCRETE FILLETS SHALL BE MADE WITH ADDITIONAL MORTAR TO PROVIDE A SMOOTH TRANSITION BETWEEN THE CASTING AND ADJUSTING RING. (OR TOP OF STRUCTURE)
 3. MAXIMUM PERMISSIBLE PIPE SIZE SHALL BE 20\".
 4. THE JOINTS BETWEEN SECTIONS SHALL CONFORM TO A.S.T.M. C-443.
 5. APPLY A CONTINUOUS LAYER OF NON-HARDENING, PREFORMED BUTYL MASTIC MATERIAL E-Z STICK TO EACH JOINT.
 6. WHEN MANHOLE DEPTH IS 12' OR LESS, T=8\". WHEN MANHOLE DEPTH EXCEEDS 12', T=10\".
 7. MANHOLE CASTINGS SHALL BE PLACED ON EAST SIDE OF MANHOLES, UNLESS DIRECTED OTHERWISE BY OWNER.

TYPICAL MANHOLE
SCALE: NONE

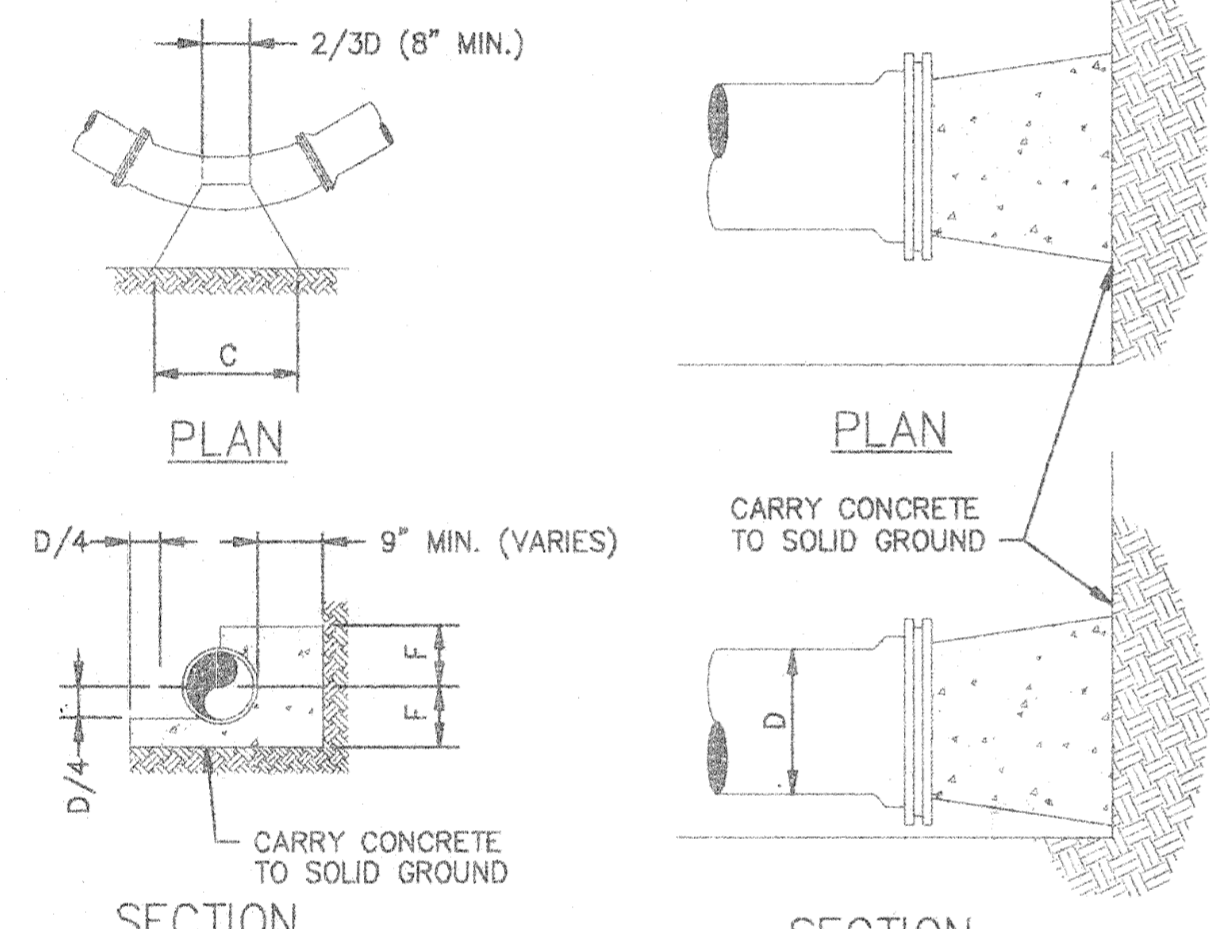


- NOTES:**
1. THE TRENCH SHALL BE BACKFILLED WITH CA-6, AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY. TRENCH SPOIL OR EXCAVATED MATERIAL SHALL BE DISCARDED BY THE CONTRACTOR, AT HIS EXPENSE, IN A SUITABLE FASHION.
 2. PRIOR TO THE PLACING OF THE BITUMINOUS CONCRETE MIXTURE OR PCC CONCRETE, THE EXPOSED EDGES OF ALL EXISTING PAVEMENT SHALL BE SAW CUT TO PROVIDE A SMOOTH, CLEAN EDGE, FREE OF LOOSE MATERIAL; PAINTED WITH EMULSIFIED ASPHALT.

EXISTING FLEXIBLE PAVEMENTS TRENCH SECTION
SCALE: NONE



VALVE BOX INSTALLATION
SCALE: NONE



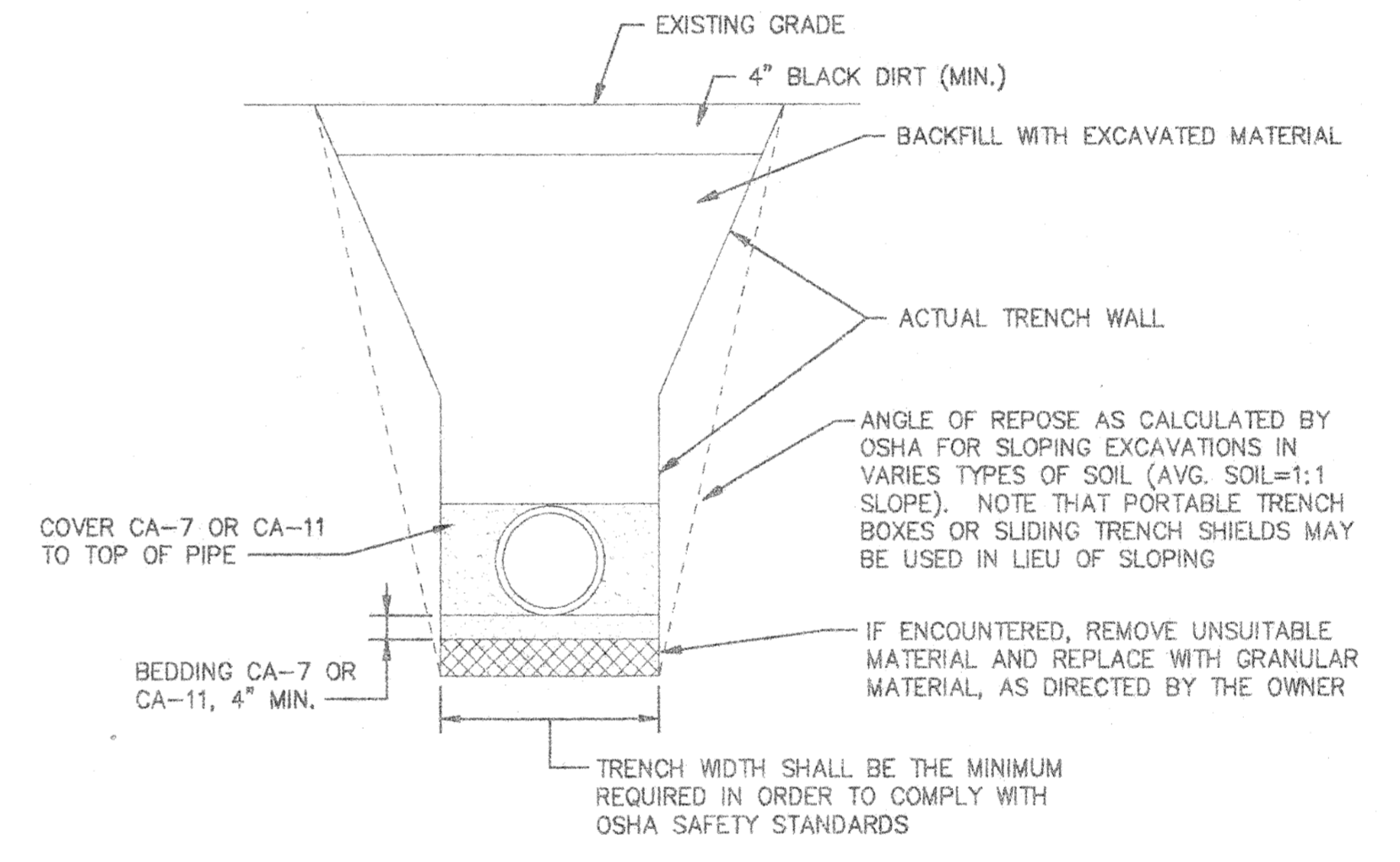
THRUST BLOCK FOR HORIZ. BEND
SCALE: NONE

THRUST BLOCK FOR CAPS
SCALE: NONE

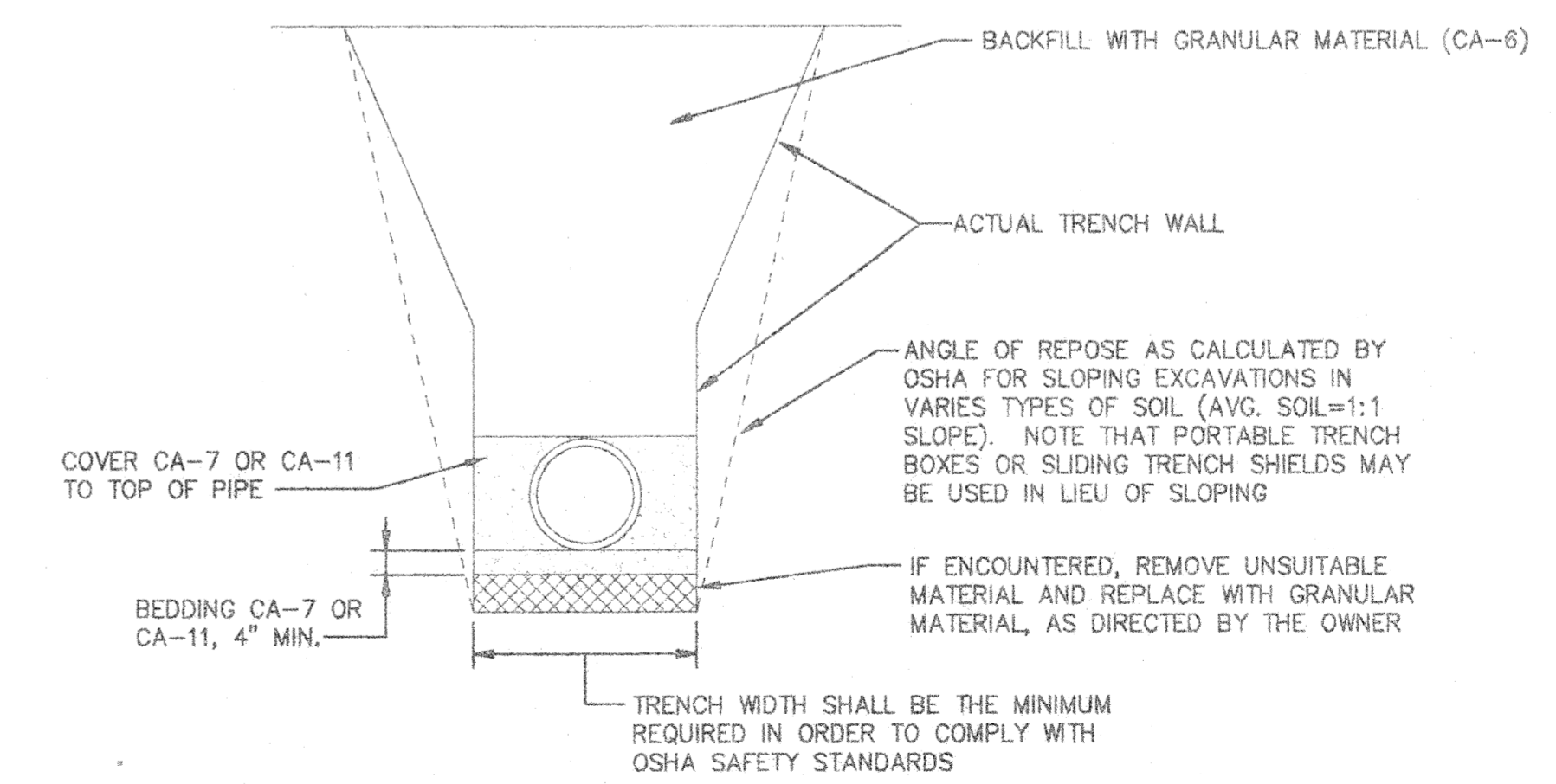
THRUST BLOCK DIMENSIONS

D	A	B	C	E	F	G	H	I	J	K
6"	9"	1'-5"	1'-3"	8"	1'-0"	1'-1"	8"	3'-0"	2'-6"	2'-6"
8"	5 1/4"	1'-7"	1'-8"	8"	1'-1"	1'-2"	9"	4'-0"	3'-0"	2'-9"
10"	11"	1'-10"	2'-1"	10"	1'-2"	1'-3"	11"	4'-6"	4'-0"	3'-0"
12"	1'-0"	2'-0"	2'-6"	1'-0"	1'-3"	1'-6"	1'-0"	4'-9"	4'-6"	3'-6"
14"	1'-1"	2'-2"	3'-0"	1'-2"	1'-4"	1'-6"	1'-2"	5'-6"	4'-10"	3'-9"
16"	1'-3"	2'-4"	3'-4"	1'-4"	1'-6"	1'-8"	1'-3"	6'-6"	5'-2"	4'-0"

NOTE:
THRUST BLOCKING TO PREVENT MOVEMENT OF LINES UNDER PRESSURE AT BENDS, TEES, CAPS, VALVES, HYDRANTS, AND AT POINTS SPECIFIED BY THE OWNER. BLOCKS SHALL BE CLASS "X" CONCRETE A MINIMUM OF 12" THICK PLACED BETWEEN SOLID GROUND AND FITTINGS, AND SHALL BE ANCHORED IN SUCH A MANNER THAT PIPE AND FITTINGS WILL BE ACCESSIBLE FOR REPAIRS. THRUST BLOCK SHALL BE PLACED AT BENDS OF 11 1/4' OR MORE.



GRASS AREA TRENCH SECTION
SCALE: NONE



GRAVEL DRIVES TRENCH SECTION
SCALE: NONE

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY:	JLE	9/95
DRAWN BY:	JLE	9/95
CHECKED BY:	BDS	9/95
APPROVED BY:	RJC	10/95
ACTIVITY	INITIALS	DATE

NO.	DATE	REVISION	APP'D.

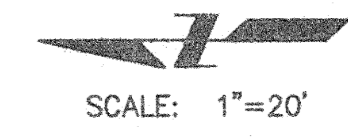
DATE	DISTRIBUTION

CDI CLARK DIETZ, INC.
ENGINEERS ARCHITECTS
CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS KENOSHA, WISCONSIN

EASTSIDE WASTEWATER TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

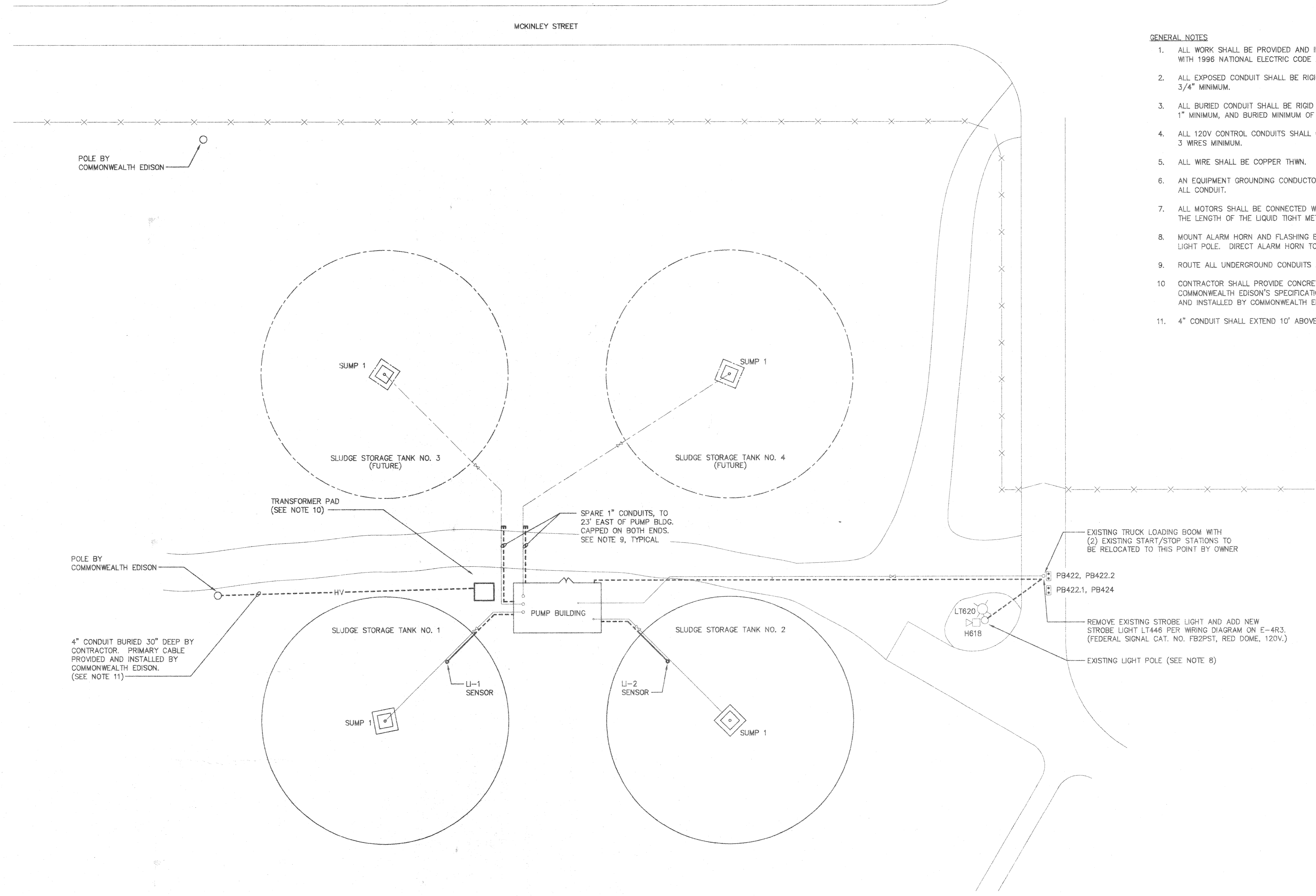
SLUDGE STORAGE FACILITY DETAILS

PROJECT NUMBER J02171
PR-8



SCALE: 1"=20'

MCKINLEY STREET



GENERAL NOTES

1. ALL WORK SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH 1996 NATIONAL ELECTRIC CODE AND ALL LOCAL CODES.
2. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL, 3/4" MINIMUM.
3. ALL BURIED CONDUIT SHALL BE RIGID GALVANIZED STEEL, 1" MINIMUM, AND BURIED MINIMUM OF 30" DEEP.
4. ALL 120V CONTROL CONDUITS SHALL CONTAIN 20% SPARE WIRES, 3 WIRES MINIMUM.
5. ALL WIRE SHALL BE COPPER THWN.
6. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUIT.
7. ALL MOTORS SHALL BE CONNECTED WITH LIQUID TIGHT METAL CONDUIT. THE LENGTH OF THE LIQUID TIGHT METAL CONDUIT SHALL NOT EXCEED 3'.
8. MOUNT ALARM HORN AND FLASHING BEACON ON TOP OF EXISTING LIGHT POLE. DIRECT ALARM HORN TOWARDS CONTROL BUILDING.
9. ROUTE ALL UNDERGROUND CONDUITS ALONG NEW PIPING AS SHOWN.
10. CONTRACTOR SHALL PROVIDE CONCRETE TRANSFORMER PAD PER COMMONWEALTH EDISON'S SPECIFICATIONS. TRANSFORMER IS PROVIDED AND INSTALLED BY COMMONWEALTH EDISON.
11. 4" CONDUIT SHALL EXTEND 10' ABOVE GROUND AT POLE.

POLE BY COMMONWEALTH EDISON

SUMP 1

SUMP 1

SLUDGE STORAGE TANK NO. 3 (FUTURE)

SLUDGE STORAGE TANK NO. 4 (FUTURE)

TRANSFORMER PAD (SEE NOTE 10)

SPARE 1" CONDUITS, TO 23' EAST OF PUMP BLDG. CAPPED ON BOTH ENDS. SEE NOTE 9, TYPICAL

POLE BY COMMONWEALTH EDISON

EXISTING TRUCK LOADING BOOM WITH (2) EXISTING START/STOP STATIONS TO BE RELOCATED TO THIS POINT BY OWNER

PB422, PB422.2
PB422.1, PB424

4" CONDUIT BURIED 30" DEEP BY CONTRACTOR. PRIMARY CABLE PROVIDED AND INSTALLED BY COMMONWEALTH EDISON. (SEE NOTE 11)

REMOVE EXISTING STROBE LIGHT AND ADD NEW STROBE LIGHT LT446 PER WIRING DIAGRAM ON E-4R3. (FEDERAL SIGNAL CAT. NO. FB2PST, RED DOME, 120V.)

EXISTING LIGHT POLE (SEE NOTE 8)

SLUDGE STORAGE TANK NO. 1

SLUDGE STORAGE TANK NO. 2

PUMP BUILDING

SUMP 1

SUMP 1

LI-1 SENSOR

LI-2 SENSOR

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY:	CEC	10/95
DRAWN BY:	JRF	10/95
CHECKED BY:	SEM	11/95
APPROVED BY:	RJC	11/95
ACTIVITY	INITIALS	DATE

NO	DATE	REVISION	APP'D
3	8/6/96	TRUCK LOADING PUMP MODIFICATIONS	RJC
2	7/2/96	TRUCK LOADING PUMP MODIFICATIONS	RJC
1	12/12/95	BUILDING LAYOUT AND PRESSURE SWITCH ADDITION	RJC

DATE	DISTRIBUTION

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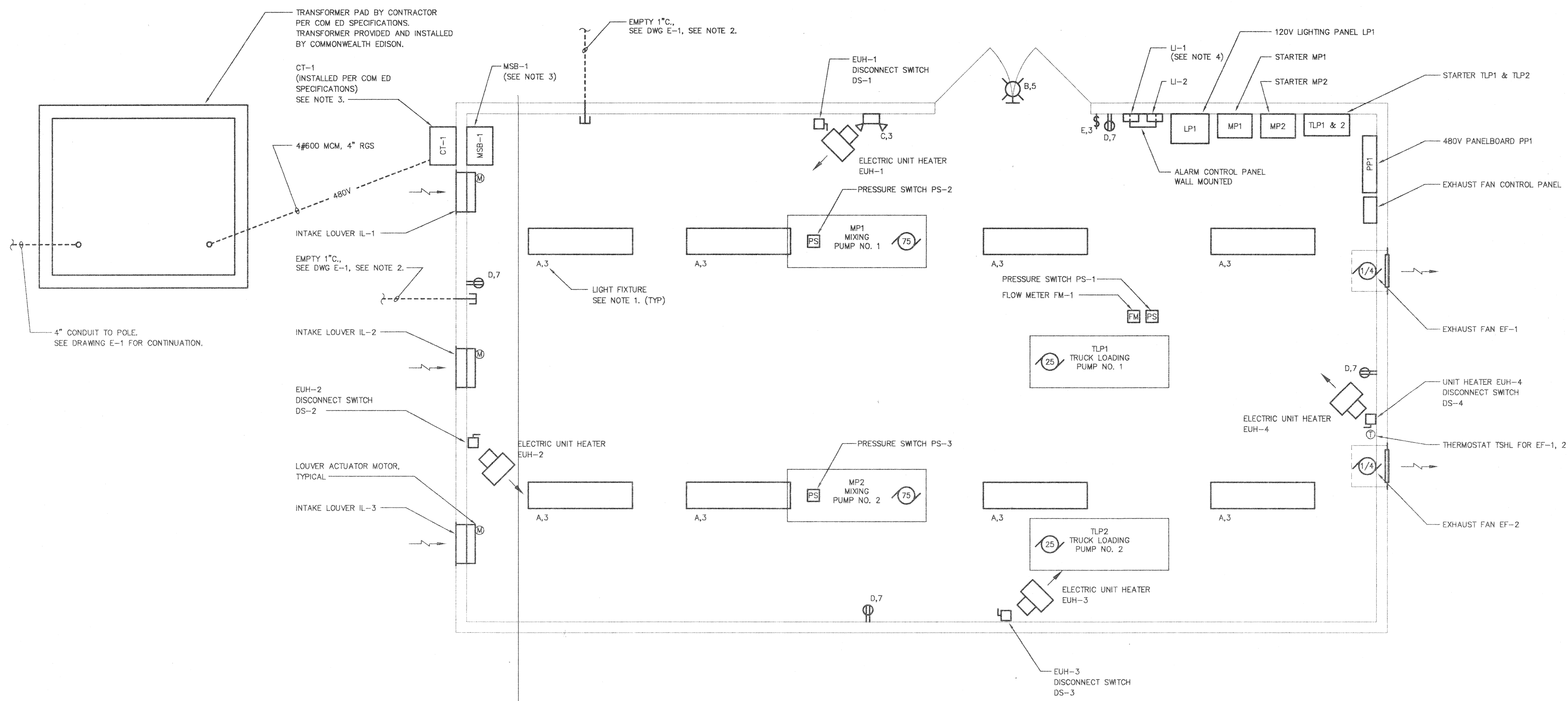
EASTSIDE WASTEWATER TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
ELECTRICAL SITE PLAN

PROJECT NUMBER J02171
DRAWING NUMBER E-1R3

J:\02171\ELEC\01R3 Mod.dwg 14 13:57:31 1996

PLOTTED: 6/5/96



LIGHT FIXTURE SCHEDULE	
FIXTURE TYPE	DESCRIPTION
A	4' FLOURESCENT FIXTURE, 2-40W LAMPS, 120V HOLOPHANE 7200412WB
B	70W HIGH PRESSURE SODIUM WALL PACK WITH PHOTO CELL CONTROL HOLOPHANE WL2K070HP12BZ-WL2KPR12
C	EMERGENCY FIXTURE WITH (2) 18 W LAMPS, 120V HOLOPHANE EH-19-2A
D	DUPLEX RECEPTACLE, 120V, 15 AMP
E	SINGLE POLE SWITCH, 120V

SLUDGE PUMP BUILDING PLAN
SCALE: 1/2"=1'

- NOTES:**
- LETTER DENOTES FIXTURE TYPE FROM LIGHT FIXTURE SCHEDULE ON THIS DRAWING. NUMBER DENOTES CIRCUIT NUMBER IN PANEL LP1.
 - ROUTE SPARE CONDUITS ALONG WITH BURIED PIPING. CAP CONDUITS ON BOTH ENDS.
 - CONTRACTOR SHALL INSTALL 10' X 5/8" COPPER CLAD GROUND ROD AND BOND TO NEUTRAL PER 1996 NATIONAL ELECTRICAL CODE. 16" SUCTION LINE FROM SLUDGE STORAGE TANK ONE SHALL BE GROUNDED TO THE NEUTRAL. ALL BONDING CONDUCTORS SHALL BE 1/0 COPPER INSTALLED IN 1" CONDUIT.
 - SPACE SHALL BE PROVIDED FOR FUTURE LEVEL INDICATING PANELS (LI-3 & LI-4).

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY: RES 10/95
 DRAWN BY: JRF 10/95
 CHECKED BY: CEC 11/95
 APPROVED BY: RJC 11/95

1 12/12/95 BUILDING LAYOUT AND RJC
 PRESSURE SWITCH ADDITION

DATE DISTRIBUTION

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 CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS KENOSHA, WISCONSIN

EASTSIDE WASTEWATER TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

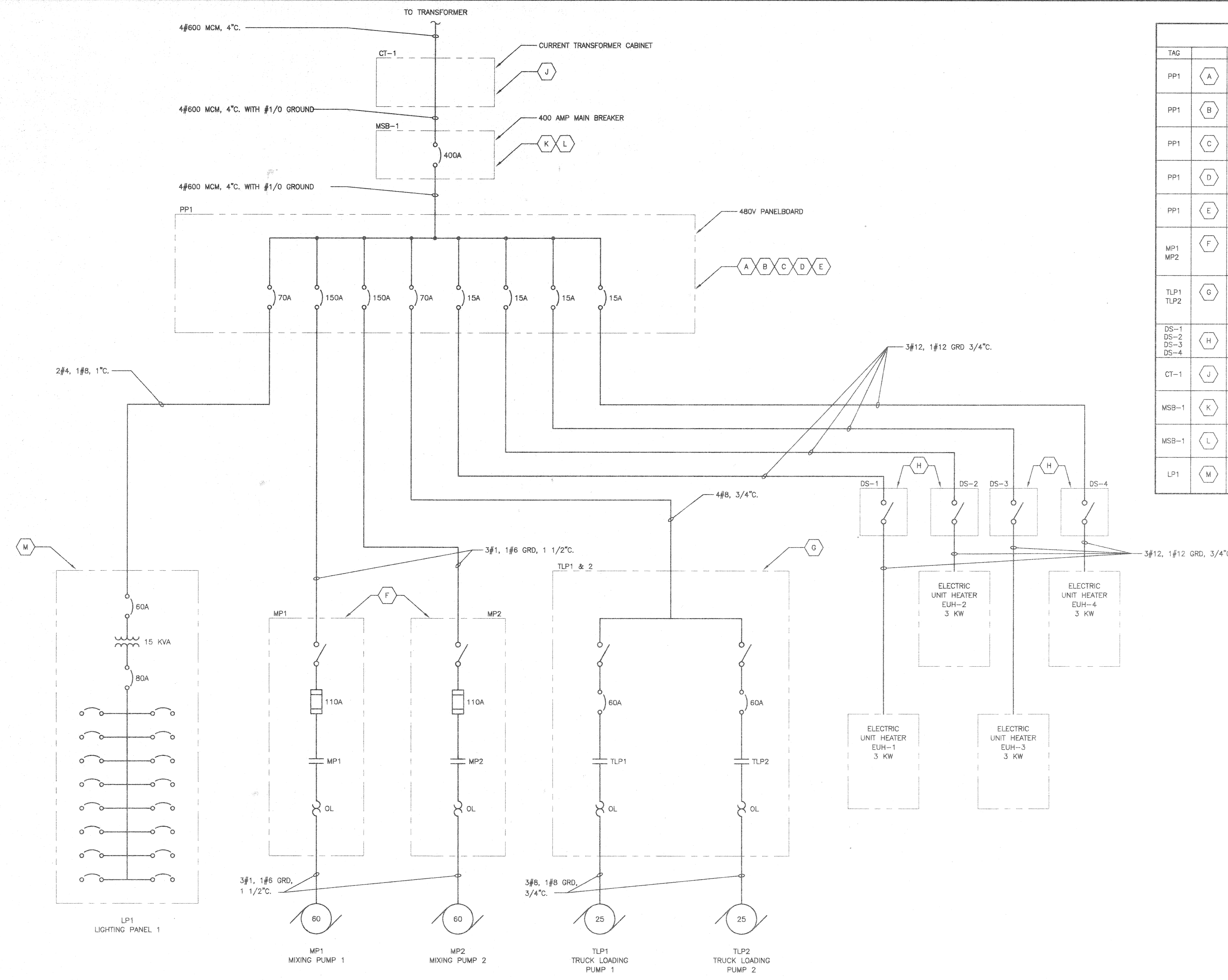
SLUDGE STORAGE FACILITY
PUMP BUILDING
ELECTRICAL PLAN

PROJECT NUMBER J02171
 DRAWING NUMBER E-2R

PLOTTED: 12/15/95

EQUIPMENT SCHEDULE

TAG	QTY	DESCRIPTION
PP1	1	480V PANELBOARD, 3Ø, 4W, 400A, NEMA 3R, 400A MAIN LUG SQUARE D HCN2365-4, HC2665WP, AND HC6SN.
PP1	2	CIRCUIT BREAKER, 250AF/200AT, 3-POLE, 480V SQUARE D KGA34200
PP1	4	CIRCUIT BREAKER, 100AF/15AT, 3-POLE, 480V SQUARE D FGA34015
PP1	1	CIRCUIT BREAKER, 100AF/70AT, 2-POLE, 480V SQUARE D FGA24070
PP1	1	CIRCUIT BREAKER, 100AF/70AT, 3-POLE, 480V SQUARE D FGA34070
MP1 MP2	2	COMBINATION STARTER, SIZE 4, 480V, WITH FUSIBLE DISCONNECT IN NEMA 4/4X ENCLOSURE WITH FACTORY INSTALLED START-STOP PUSHBUTTONS, RED RUN PILOT LIGHT, ELAPSED TIME METER, AND 4 N.O. AUXILIARY CONTACTS. SQUARE D CLASS 8538, TYPE SFW13V02, FORM SAP1X4-G97.
TLP1 TLP2	1	DUPLEX MOTOR CONTROLLER, SIZE 2, CIRCUIT BREAKER TYPE WITH ELECTRIC ALTERNATION, WITH FUSED CONTROL CIRCUIT TRANSFORMERS AND ADDITIONAL 2 RELAYS FOR OPERATION WITH SINGLE POLE PILOT DEVICE, NEMA 3R. SQUARE D CLASS B941, TYPE CDA30V02, FORMS F4T12-G97-S-R7-G50.
DS-1 DS-2 DS-3 DS-4	4	NON-FUSIBLE SAFETY SWITCH, HEAVY DUTY, 600V, 3-WIRE, 30A, NEMA 3R SQUARE D CLASS 3110, HU361AWK
CT-1	1	400 AMP, 480/277 VOLT, 3Ø, 4 WIRE CURRENT TRANSFORMER COMPARTMENT. ERICKSON CAT. NO. 1182-5 NOTE: CT'S PROVIDED AND INSTALLED BY COMMONWEALTH EDISON.
MSB-1	1	NEMA 3R CIRCUIT BREAKER ENCLOSURE AND 400SN NEUTRAL ASSEMBLY. SQUARE D CAT. NO. LA400R, 400SN, AND B400 HUB
MSB-1	1	CIRCUIT BREAKER, 400 AMP, 3-POLE, 480 VOLT SQUARE D LAL 36400
LP1	16	PACKAGED POWER SUPPLY, 15 KVA TRANSFORMER, 480V-240/120V, 1Ø, AND PANELBOARD WITH SPACE FOR 16 1-POLE BREAKERS SQUARE D MINI-POWER-ZONE, MPZB15S40F 1-POLE, 15 AMP BREAKERS, SQUARE D QOB115



NOTES:
1. CONTRACTOR SHALL FURNISH OVERLOADS FOR ALL STARTERS. OVERLOADS SHALL BE SIZED BASED ON MOTOR NAMEPLATE.

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY:	RES	10/95
DRAWN BY:	JRF	10/95
CHECKED BY:	CEC	11/95
APPROVED BY:	RJC	11/95
ACTIVITY	INITIALS	DATE

NO	DATE	TRUCK LOADING PUMP MODIFICATIONS	RJC
3	8/8/98		

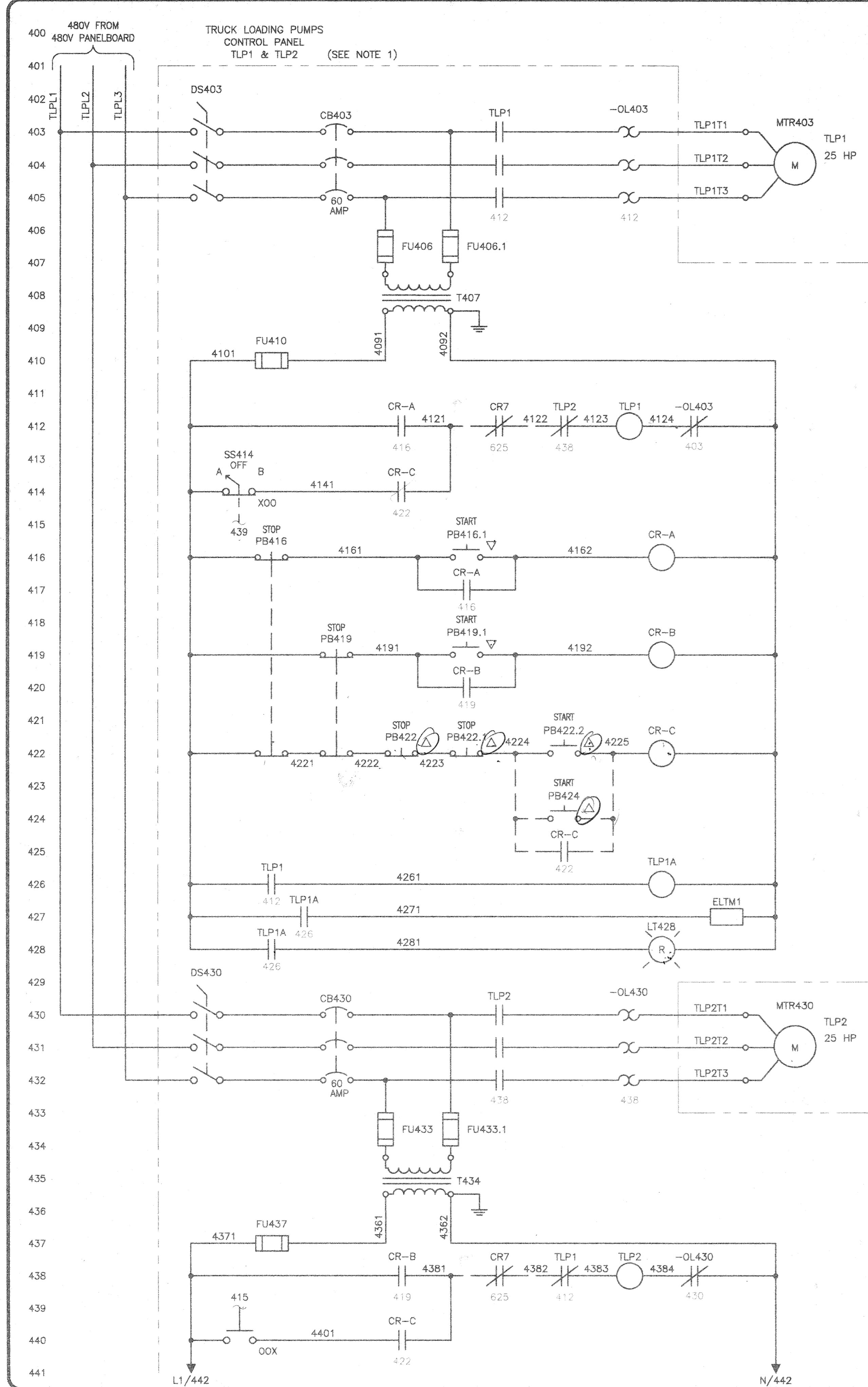
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ENGINEERS ARCHITECTS
CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS KENOSHA, WISCONSIN

EASTSIDE WASTEWATER TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
PUMP BUILDING
ONE-LINE DIAGRAM

PROJECT NUMBER J02171
DRAWING NUMBER E-3R



TRUCK LOADING PUMP 1

TRUCK LOADING PUMP 1

CP	403
CP	426 623
CP	438

CONTROL RELAY A

CP	412 417
----	---------

CONTROL RELAY B

CP	420 438
----	---------

CONTROL RELAY C

CP	414 425 440
----	-------------

CONTROL RELAY TLP1A

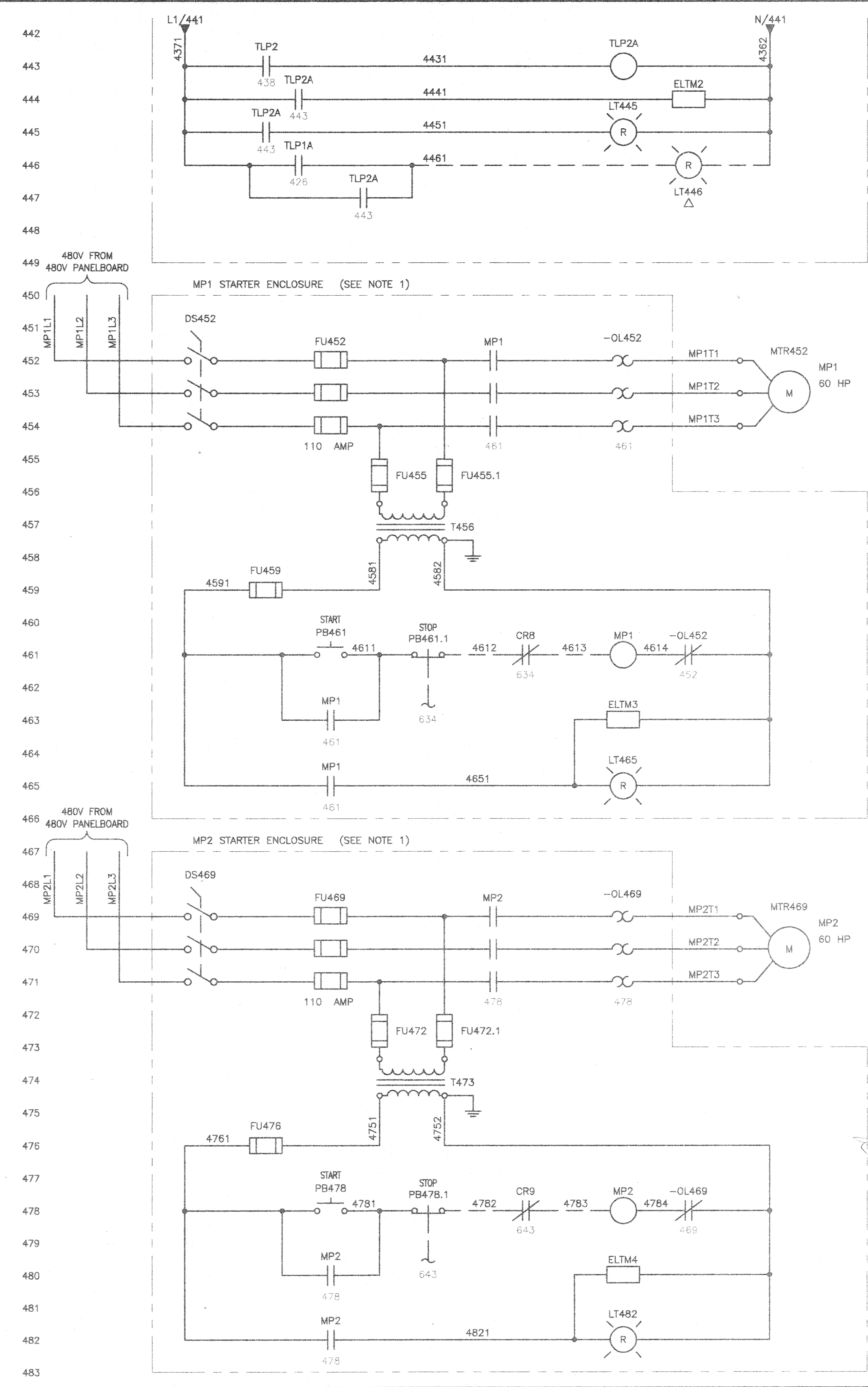
CP	427 428 446
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ELAPSED TIME METER 1
TLP1 RUNNING LIGHT

TRUCK LOADING PUMP 2

TRUCK LOADING PUMP 2

CP	430
CP	443 624
CP	412



CONTROL RELAY TLP2A

CP	444 445 447
----	-------------

ELAPSED TIME METER 2
TLP2 RUNNING LIGHT
PUMP RUNNING LIGHT

MIXING PUMP 1

ELAPSED TIME METER 3

CP	452
CP	463 465 632

MIXING PUMP 1 RUNNING

NOTES:
1. CONTRACTOR SHALL INSTALL CONTROL WIRING SHOWN AS DASHED.

LEGEND
 ▲ DEVICE LOCATED ON TRUCK LOADING BOOM
 ▼ PANEL IN PUMP BUILDING

ELAPSED TIME METER 4

CP	469
CP	480 482 641

MIXING PUMP 2 RUNNING

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY:	RES	10/95
DRAWN BY:	JRF	10/95
CHECKED BY:	CEC	11/95
APPROVED BY:	RJC	11/95
ACTIVITY	INITIALS	DATE

3	8/8/98	TRUCK LOADING PUMP MODIFICATIONS	RJC
2	7/2/98	TRUCK LOADING PUMP MODIFICATIONS	RJC
1	12/12/95	BUILDING LAYOUT AND PRESSURE SWITCH ADDITION	RJC
NO	DATE	REVISION	APP'D

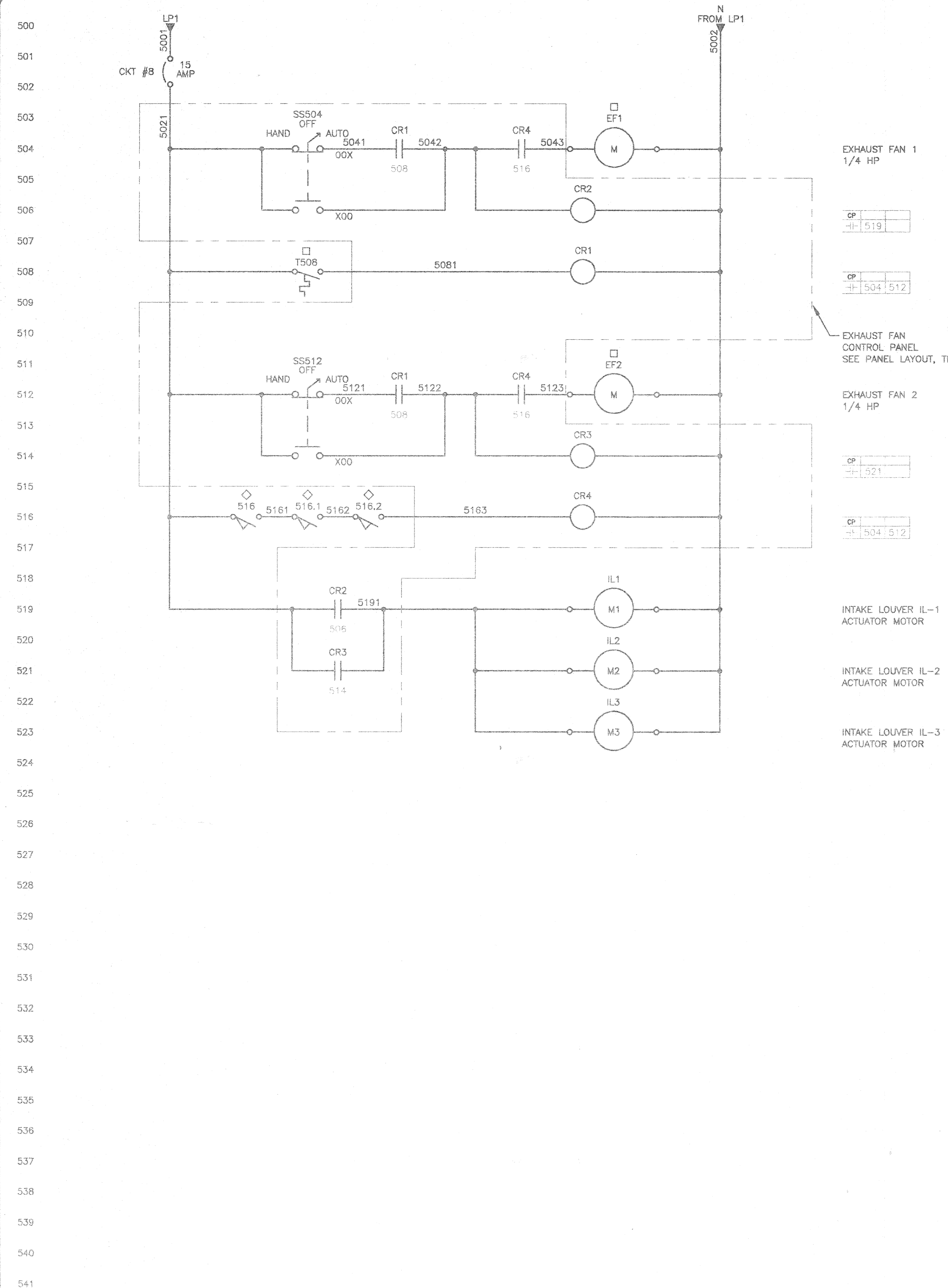
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EASTSIDE WASTEWATER TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
PUMP BUILDING
CONTROL DIAGRAMS

PROJECT NUMBER J02171
E-4R3
DRAWING NUMBER



EXHAUST FAN 1
1/4 HP

CP
519

EXHAUST FAN CONTROL PANEL
SEE PANEL LAYOUT, THIS DRAWING

EXHAUST FAN 2
1/4 HP

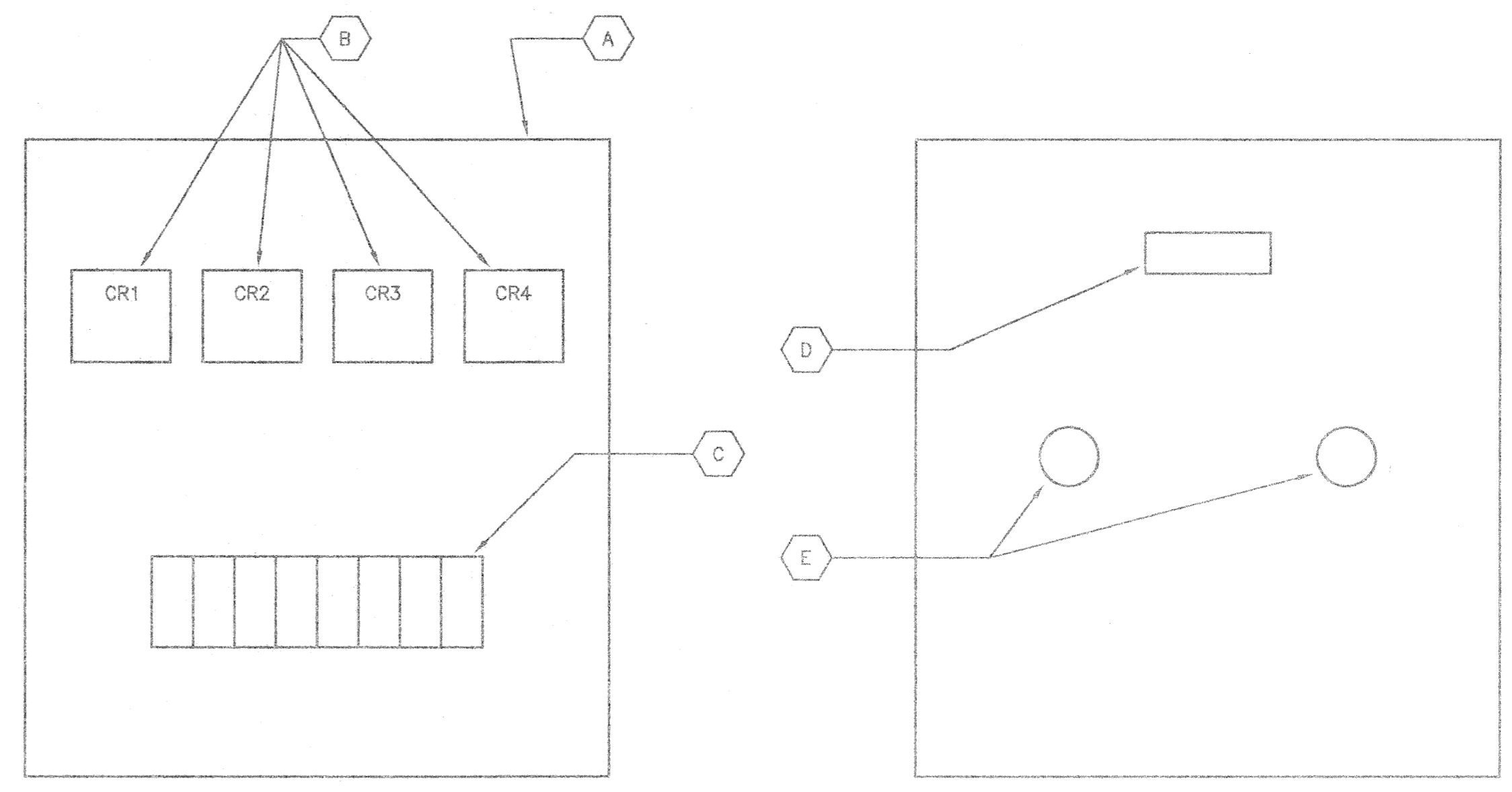
CP
521

CP
504 512

INTAKE LOUVER IL-1
ACTUATOR MOTOR

INTAKE LOUVER IL-2
ACTUATOR MOTOR

INTAKE LOUVER IL-3
ACTUATOR MOTOR



EXHAUST FAN CONTROL PANEL
BACK PANEL
NO SCALE

EXHAUST FAN CONTROL PANEL
COVER
NO SCALE

- LEGEND
- ◇ DEVICE LOCATED ON INTAKE LOUVER SWITCH CLOSES ON LOUVER OPEN
 - DEVICE LOCATED ON SOUTH WALL OF PUMP BUILDING

TAG	QTY	DESCRIPTION
A	1	ENCLOSURE, NEMA 4, 12" X 12" X 6", WITH SUB PANEL HOFFMAN A-1212CHNF AND A-12P12
B	4	HEAVY-DUTY CONTROL RELAY, DPDT, 120V, 10A SQUARE D CLASS 8501, TYPE X020, VOLTAGE CODE V02
C	1	12-POINT TERMINAL BLOCK, 600V, 40A, WITH END BARRIERS SQUARE D CLASS 9080, TYPE GK6 AND GK8B
D	1	PHENOLIC NAMEPLATE, 1/4" BLACK LETTERS ON WHITE BACKGROUND, SCREW MOUNTED, LABELED: "EXHAUST FAN CONTROL PANEL"
E	2	3-POSITION SELECTOR SWITCH, WITH NAMEPLATE LABELED: "HAND-OFF-AUTO" SQUARE D CLASS 9001, TYPE KS43BH13, TYPE KN260SP

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING
ANY PORTION OF THIS DRAWING.

DESIGNED BY: RES 10/95
DRAWN BY: JRF 10/95
CHECKED BY: GEC 11/95
APPROVED BY: RJC 11/95

NO.	DATE	REVISION	APP'D	DATE	DISTRIBUTION

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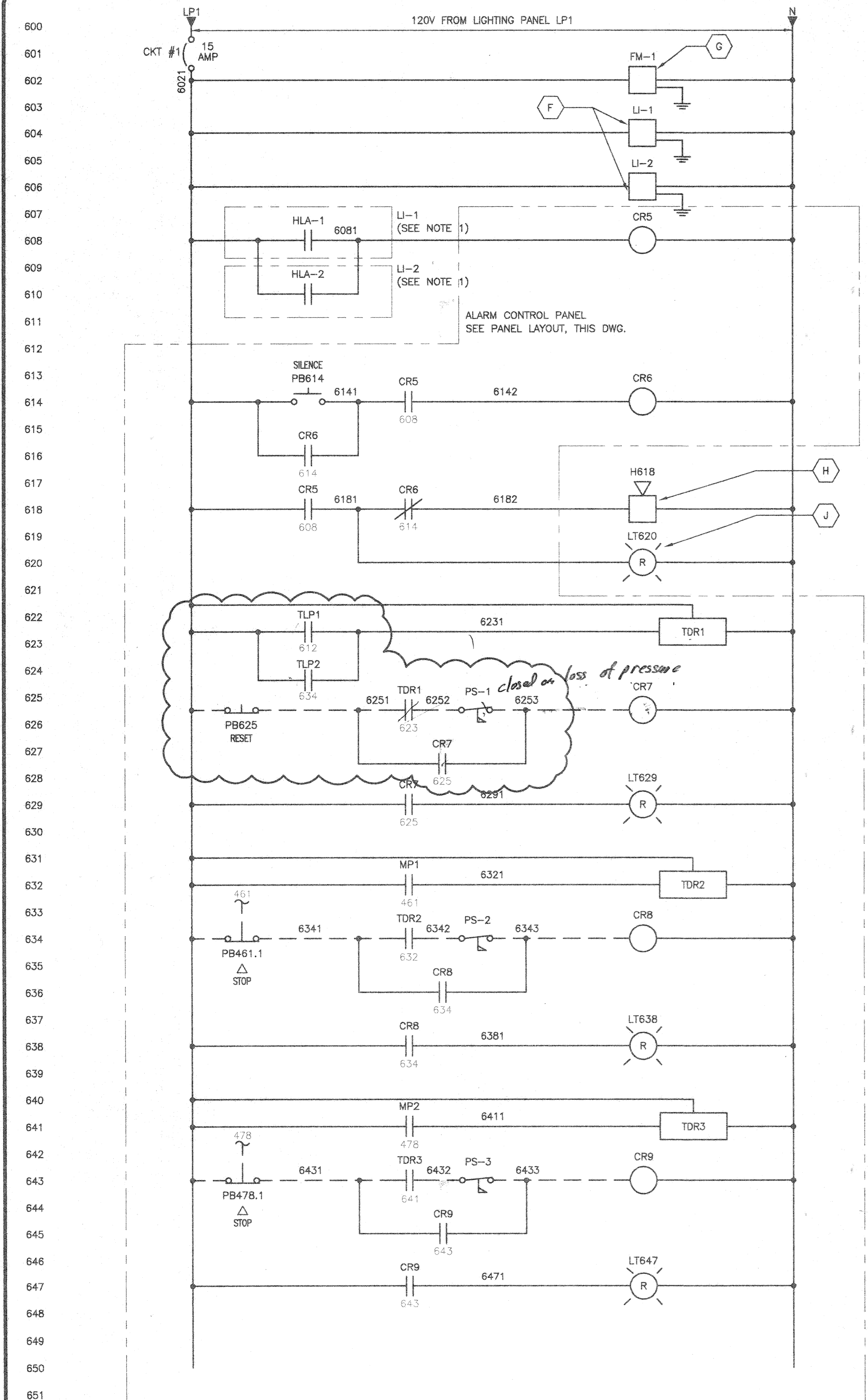
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EASTSIDE WASTEWATER
TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
PUMP BUILDING
CONTROL DIAGRAMS

PROJECT NUMBER J02171

E-5



LOADING FLOW METER WITH TOTALIZER FM-1

BIOSOLIDS STORAGE TANK LEVEL INDICATOR LI-1

BIOSOLIDS STORAGE TANK LEVEL INDICATOR LI-2

CP	
+	614 616

CP	
+	616
CP	
+	618

ALARM HORN ON LIGHT POLE SEE DWG E-1 FOR LOCATION

FLASHING BEACON ON LIGHT POLE SEE DWG E-1 FOR LOCATION

CP	
+	625

PRESSURE SWITCH PS-1

CP	
+	627 629
CP	
+	412 434

FLOW ALARM TRUCK LOADING PUMPS

CP	
+	634

PRESSURE SWITCH PS-2

CP	
+	636 638
CP	
+	461

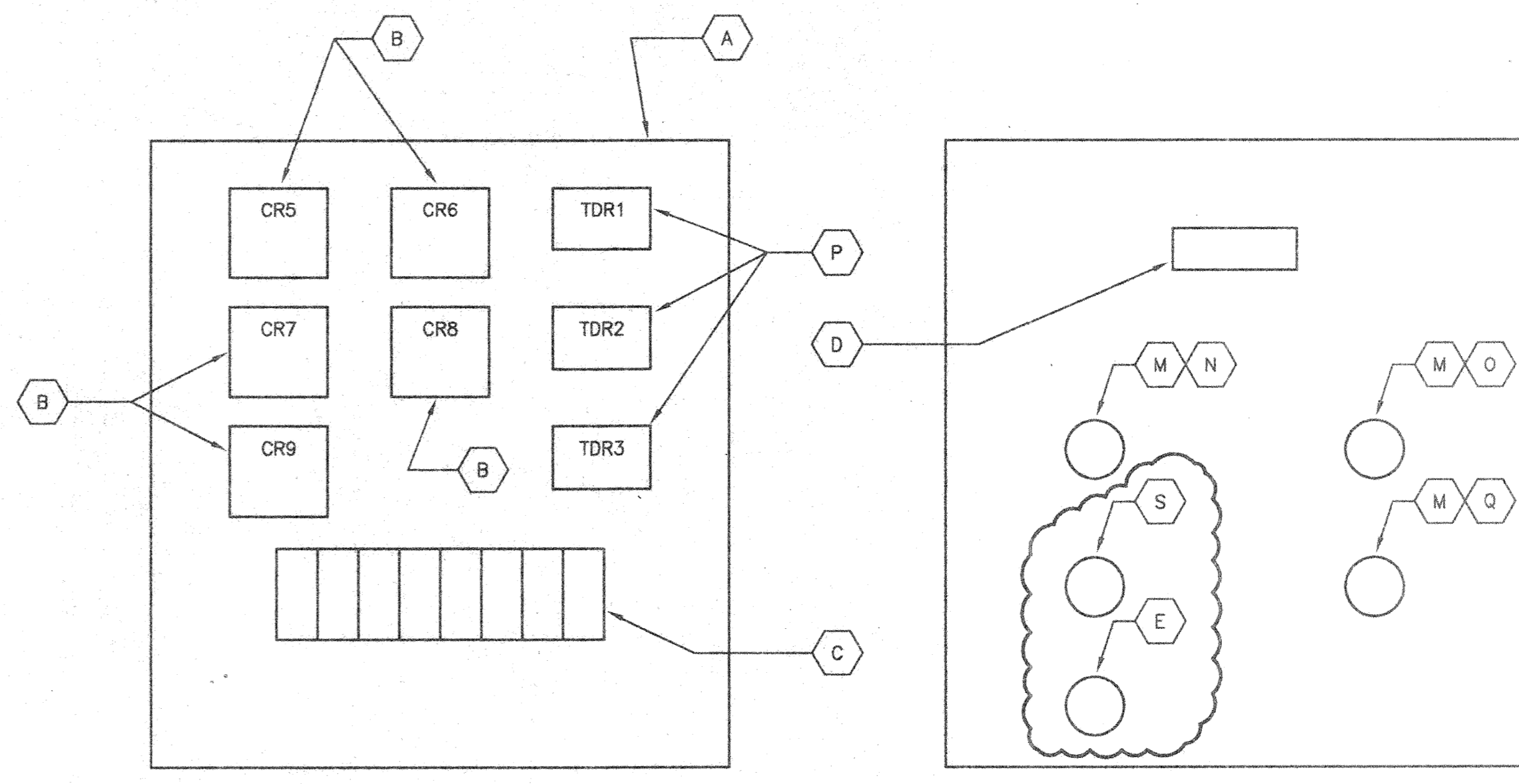
FLOW ALARM MIXING PUMP 1

CP	
+	643

PRESSURE SWITCH PS-3

CP	
+	645 647
CP	
+	478

FLOW ALARM MIXING PUMP 2

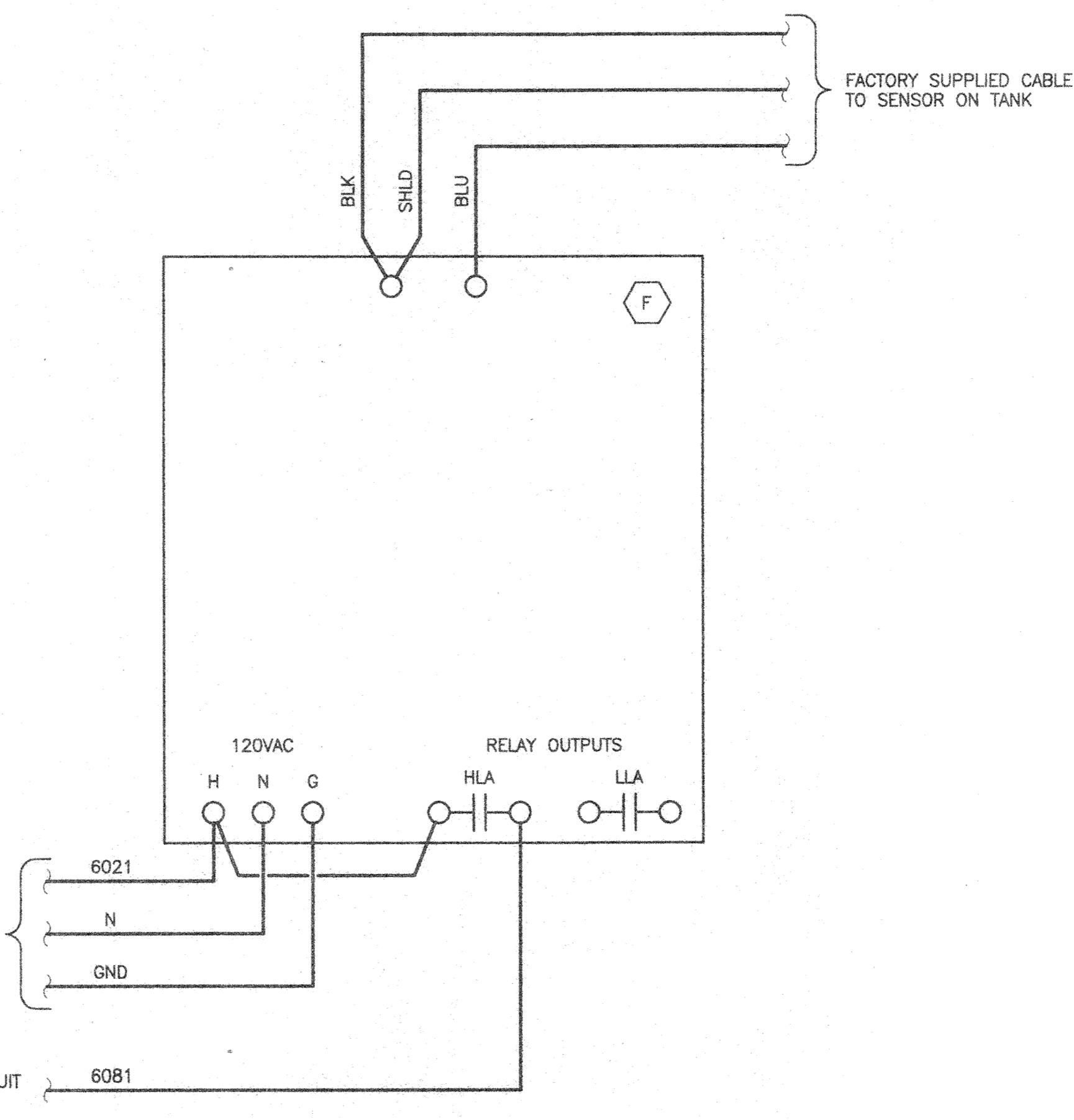


ALARM CONTROL PANEL BACK PANEL
NO SCALE

ALARM CONTROL PANEL COVER
NO SCALE

LEGEND
△ DEVICE LOCATED ON TRUCK LOADING BOOM

NOTES:
1. SEE LEVEL INDICATOR TYPICAL CONNECTION DIAGRAM, THIS DRAWING.



BIOSOLIDS STORAGE TANK LEVEL INDICATOR TYPICAL CONNECTION DIAGRAM
NO SCALE

ALARM CONTROL PANEL BILL OF MATERIAL		
TAG	QTY	DESCRIPTION
A	1	ENCLOSURE, NEMA 4, 12" X 12" X 6", WITH SUB PANEL HOFFMAN A-1212CHNF AND A-12P12
B	5	HEAVY-DUTY CONTROL RELAY, DPDT, 120V, 10A SQUARE D CLASS 8501, TYPE X040, VOLTAGE CODE V02
C	1	12-POINT TERMINAL BLOCK, 600V, 40A, WITH END BARRIERS SQUARE D CLASS 9080, TYPE GK6 AND GK6B
D	1	PHENOLIC NAMEPLATE, 1/4" BLACK LETTERS ON WHITE BACKGROUND, SCREW MOUNTED, LABELED: "BIOSOLIDS STORAGE TANKS ALARM CONTROL PANEL"
E	1	MOMENTARY CONTACT PUSHBUTTON WITH 1 N.O. & 1 N.C. CONTACT AND LEGEND PLATE LABELED: "SILENCE" SQUARE D CLASS 9001, TYPE KR1BH13 AND KN299WP
F	2	ULTRASONIC CONTINUOUS LIQUID LEVEL MEASURING SYSTEM, WALL MOUNT TRANSMITTER, 3" CPVC FLANGE MOUNT TRANSDUCER, 120V, 500' OF SENSOR CABLE, NEMA 4X, WITH HEATED ENCLOSURE KAY RAY/SENSALL (FISHER-ROSEMOUNT) LC10201, LS10B, 9648
G	1	MAGNETIC FLOW METER, NEMA 4X, 6-INCH, 0-1500 GPM WITH TOTALIZER FOXBORO 8006A-WCR-PJGFGZ
H	1	AUDIBLE SIGNALLING HORN, 120V, WITH HI-LO TONE MODULE FEDERAL SIGNAL 302GC, 120VAC, TM3
J	1	STROBE WARNING LIGHT, NEMA 3R FEDERAL SIGNAL FB2PST, RED DOME, 120V
M	3	NEMA 4 HEAVY DUTY PILOT LIGHT SQUARE D CLASS 9001, STYLE TRANSFORMER, CAT NO. KP1R31
N	1	LEGEND PLATE LABELED: "FLOW ALARM TRUCK LOADING PUMPS"
O	1	LEGEND PLATE LABELED: "FLOW ALARM MIXING PUMP 1"
P	3	SOLID STATE TIMER SQUARE D CLASS 9050, TYPE FS3
Q	1	LEGEND PLATE LABELED: "FLOW ALARM MIXING PUMP 2"
S	1	MOMENTARY CONTACT PUSHBUTTON WITH 1 N.O. & 1 N.C. CONTACT AND LEGEND PLATE LABELED: "RESET" SQUARE D CLASS 9001, TYPE KR1BH13 AND KN239WP

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY:	RES	10/95
DRAWN BY:	JRF	10/95
CHECKED BY:	CEC	10/95
APPROVED BY:	RJC	11/95
ACTIVITY	INITIALS	DATE

NO	DATE	REVISION	APP'D
2	7/2/96	TRUCK LOADING PUMP MODIFICATIONS	RJC
1	12/12/95	BUILDING LAYOUT AND	RJC
		PRESSURE SWITCH ADDITION	

DATE	DISTRIBUTION
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ENGINEERS ARCHITECTS

CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS KENOSHA, WISCONSIN

EASTSIDE WASTEWATER TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
PUMP BUILDING
CONTROL DIAGRAMS

PROJECT NUMBER J02171
E-6R2
DRAWING NUMBER

MECHANICAL EQUIPMENT SCHEDULE

EXHAUST FAN EF-1 & 2, WALL MOUNTED PROPELLER FAN, STEEL CONSTRUCTION, FURNISH WITH AUTOMATIC BACKRAFT DAMPER, PERSONNEL GUARD, AND ADJUSTABLE ANGLE COLLAR WITH THE FOLLOWING CHARACTERISTICS.
 CFM: 1200
 S.P. IN. W.C.: 0.25
 RPM: 850
 HP: 1/4
 DRIVE: DIRECT
 ELEC. CHAR.: 120V/1PH/60Hz
 MFR: COOK, TYPE SPD

INTAKE LOUVER IL-1, 2, & 3 WALL MOUNTED INTAKE LOUVER, ALUMINUM CONSTRUCTION, 4" DEEP, STORMPROOF FURNISH WITH 1/2"x1/2" ALUMINUM BIRDSCREEN AND 4" DEEP INSULATED MOTORIZED DAMPER SECTION BEHIND LOUVER WITH THE FOLLOWING CHARACTERISTICS.
 SIZE: SEE PLAN
 S.P. IN. W.C.: 0.05"
 MAX. VEL.: 500 FPM
 % FREE AREA: 50
 FRAME TYPE: FLANGED
 FINISH: MILL FINISH
 MFR: CARNES, MODEL FKDA

UNIT HEATER UH-1, 2, 3, & 4 ELECTRIC UNIT HEATER, STEEL CONSTRUCTION, WITH INDIVIDUAL ADJUSTABLE LOUVERS WITH 30° DOWNWARD STOPS. HEATING ELEMENTS SHALL BE COPPER CLAD STEEL SHEATH WITH ALUMINUM FINNS AND AUTOMATIC RESET THERMAL OVERLOAD PROTECTION. FURNISH WITH WALL MOUNTING BRACKET WITH THE FOLLOWING CHARACTERISTICS.
 TOT. HTG. CAP.: 10245 BTUH
 FAN DATA
 CFM: 350
 RPM: 1600
 HP: 1/100
 ELEC. CHAR: 3 KW, 480V/3PH/60Hz
 CONTROL: INTEGRAL THERMOSTAT

SEQUENCE OF OPERATION

EXHAUST FAN EF-1, 2 AND ASSOCIATED MOTORIZED INTAKE DAMPERS

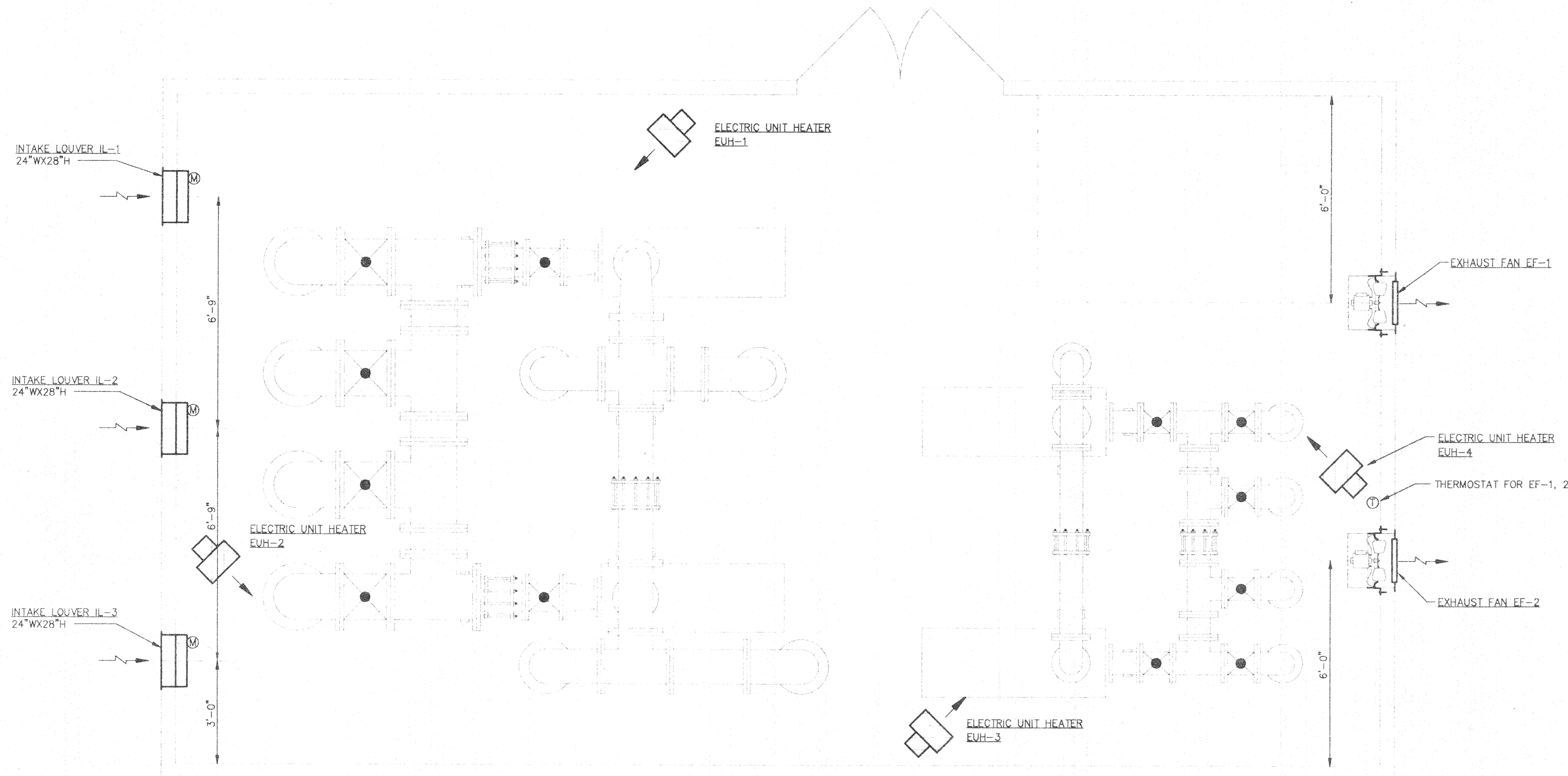
EF-1 AND 2 SHALL BE CONTROLLED BY A WALL MOUNTED THERMOSTAT. ON A RISE IN SPACE TEMPERATURE ABOVE THE SET POINT (80° F ADJ.) THE FANS SHALL BE ENERGIZED AND THE ASSOCIATED OUTSIDE AIR INTAKE DAMPERS SHALL OPEN. ON A FALL IN TEMPERATURE BELOW THE SET POINT THE FAN SHALL STOP AND THE DAMPERS SHALL CLOSE. THE DAMPERS BEHIND INTAKE LOUVERS IL-1, 2 & 3 SHALL BE INTERLOCKED WITH EF-1 & 2 TO OPERATE AS A SINGLE SYSTEM.

ELECTRIC UNIT HEATERS EUH-1 THRU 4

EACH ELECTRIC UNIT HEATER SHALL FUNCTION IN RESPONSE TO ITS OWN INTEGRAL THERMOSTAT. ON A FALL IN SPACE TEMPERATURE BELOW THE SET POINT (55° F ADJ.) THE UNIT SHALL BE ENERGIZED AND THE FAN SHALL START.

GENERAL NOTES:

1. MOUNT TOP OF UNIT HEATERS 8'-6" AFF
2. MOUNT TOP OF EXHAUST FANS 8'-6" AFF. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. MOUNT BOTTOM OF INTAKE LOUVERS 12" AFF. SEAL AROUND OUTSIDE FLANGE AIR AND WATERTIGHT. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



SLUDGE PUMP BUILDING PLAN

SCALE: 1/2"=1'

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY:	WWW	10/95
DRAWN BY:	WWW	10/95
CHECKED BY:	BAL	10/95
APPROVED BY:	RJC	10/95
ACTIVITY	INITIALS	DATE

NO	DATE	REVISION	APP'D
1	12/12/95	BUILDING LAYOUT CHANGE	RJC

DATE _____ DISTRIBUTION _____



CLARK DIETZ, INC.
ENGINEERS ARCHITECTS

CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS KENOSHA, WISCONSIN

EASTSIDE WASTEWATER
TREATMENT PLANT
CITY OF JOLIET, ILLINOIS

SLUDGE STORAGE FACILITY
PUMP BUILDING
MECHANICAL PLAN

PROJECT NUMBER J02171

M-1R
DRAWING NUMBER

PHASE 1