ROCK RIVER WATER RECLAMATION DISTRICT

SCREENING EQUIPMENT REPLACEMENT CAPITAL IMPROVEMENT PROJECT #1858 2019

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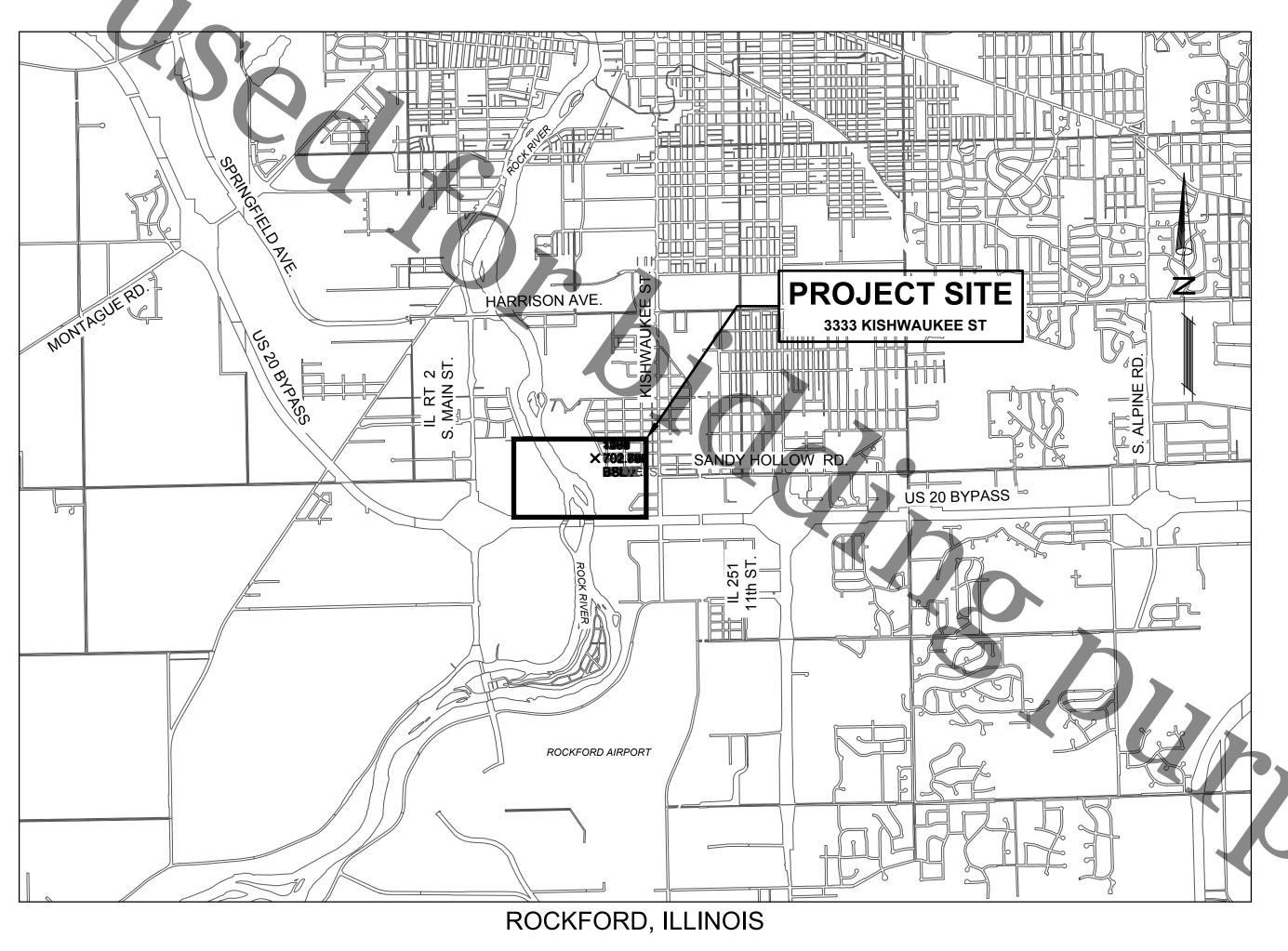
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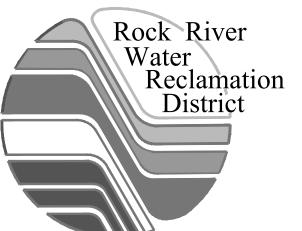
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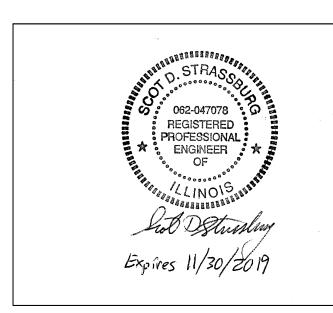
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GENERAL NOTES:



- 2. CONTRACTOR SHALL USE THE DESIGNATED STAGING AREA, SOUTH AND EAST OF THE OHIO GENERATOR BUILDING #26, FOR PARKING, MATERIAL STAGING, SHELTERS, PORTABLE TOILET/WASH FACILITIES, EQUIPMENT, AND OTHER NEEDS. PARKING NEAR MAIN PUMP STATION SHALL BE KEPT TO AS NEEDED ONLY. ACCESS SHALL BE KEPT CLEAR FOR OWNER OPERATION AND MAINTENANCE ACTIVITIES.
- 3. THE EXISTING MAIN PUMP PROCESSES SHALL REMAIN IN OPERATION THROUGHOUT THE DURATION OF THIS PROJECT, WITH SCREENING EQUIPMENT OUTAGES AS INDICATED.
- 4. CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST 48 HOURS PRIOR TO THE START OF ANY WORK ON SITE.
- 5. PAINTING OF ALL WALLS AND CEILINGS IN THE LOADING AREA, UPPER SCREEN ROOM, LOWER SCREEN ROOM, AND UTILITY ROOM IS A REQUIREMENT OF THIS PROJECT AND SHALL BE INCLUDED IN THE LUMP SUM BID.

DEMOLITION NOTES:

- 1. DURING SCREEN REMOVAL, THE CONTRACTOR SHALL PROVIDE STEEL PLATES OR OTHER APPROVED MEANS TO MINIMIZE CONCENTRATED LOADING OVER THE EXISTING 84" DIAMETER INFLUENT SEWER.
- 2. THE TWO WASHER COMPACTOR UNITS, ASSOCIATED MOTOR OPERATED WATER VALVES, AND SCREENINGS DISCHARGE PIPES SHALL BE SALVAGED AND TURNED OVER TO THE OWNER. ALL OTHER MATERIALS INDICATED FOR DEMOLITION SHALL BE PROPERLY DISPOSED-OF OFF SITE.
- 3. REINFORCEMENT AND ANCHOR BOLTS RESULTING FROM CONCRETE DEMOLITION SHALL BE CUT DOWN 1/2" BELOW THE SURROUNDING FLOOR OR WALL SURFACE. THE CONCRETE SHALL BE REPAIRED WITH GROUT AND FINISHED TO MATCH THE SURROUNDING SURFACE.
- 4. AFTER OWNER CLOSES THE SCREEN CHANNEL SHEAR GATES, THE CONTRACTOR IS RESPONSIBLE FOR PUMPING WATER FROM THE CHANNEL TO THE ADJACENT SCREEN CHANNEL AND SEALING THE GATE LEAKAGE WITH SAND BAGS OR OTHER MEANS.
- 5. THE PLANT WATER PIPING AND THE DRAIN PIPING IN THE LOWER SCREEN ROOM ARE IN ACTIVE SERVICE. THE PIPE REMOVAL AND REPLACEMENT WORK SHALL BE PLANNED TO MINIMIZE DOWN TIME ON INDIVIDUAL USES. TEMPORARY OUTAGES NECESSARY TO COMPLETE THE WORK SHALL BE COORDINATED WITH THE OWNER. TEMPORARY HOSES FOR PLANT WATER SUPPLY TO CRITICAL USES SUCH AS WASHER COMPACTORS AND SEAL WATER SYSTEM SHALL BE INCLUDED IN THE WORK. TEMPORARY DRAIN SERVICE SHALL BE PROVIDED AS NEEDED.

STRUCTURAL NOTES:

- 1. CAST IN PLACE CONCRETE SHALL HAVE AT LEAST 28 DAY COMPRESSIVE STRENGTH OF 4.500 PSI AND SHALL USE TYPE II OR TYPE 1/11 CEMENT.
- 2. SMALL REPAIRS CAN USE NON-SHRINK GROUT SUCH AS EUCLID EUCOREPAIR V-100 OR MASTER EMACO.
- 3. REINFORCING SHALL BE ASTM A615 GRADE 60 DEFORMED STEEL BARS.
- 4. WELDING OF REINFORCING BARS SHALL NOT BE PERMITTED.
- 5. LAP LENGTH FOR #4 REINFORCING BARS SHALL BE AT LEAST 16" AND LAP LENGTH FOR #5 BARS SHALL BE AT LEAST 22".
- 6. CONCRETE COVER OVER REINFORCING STEEL SHALL BE AT LEAST 2".
- 7. POST-INSTALLED ANCHOR HOLES SHALL AVOID EXISTING REINFORCING STEEL AS BEST POSSIBLE AND SHALL BE THOROUGHLY CLEANED PRIOR TO INSTALLING ADHESIVE PER PRODUCT MANUFACTURER'S INSTRUCTIONS. ALL POST INSTALLED ANCHORS SHALL BE ATTACHED WITH ADHESIVE.

MECHANICAL NOTES:

- 1. ALL NEW PLANT WATER PIPING SHALL BE SCHEDULE 80 PVC. UNIONS SHALL BE PROVIDED AS NECESSARY TO ALLOW REMOVAL OF VALVES, STRAINERS, AND SIMILAR DEVICES. SPECIAL FITTINGS OR VALVES THAT ARE NOT AVAILABLE IN PVC SHALL HAVE STAINLESS STEEL BODIES WITH THREADED CONNECTIONS.
- 2. ALL NEW DRAIN AND VENT PIPING SHALL BE SCHEDULE 40 PVC.
- 3. ALL WATER PIPING SHALL BE INSULATED PER THE SPECIFICATION REQUIREMENTS.
- 4. GRAVITY PIPING SHALL BE INSTALLED WITH UNIFORM SLOPES BETWEEN FITTINGS.
- 5. PIPE SUPPORTS, HANGERS, BRACKETS, INSERTS, AND BRACES ARE NOT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE A COMPLETE SUPPORT SYSTEM FOR NEW PIPING AS DELINEATED IN THE SPECIFICATIONS.
- 6. CONTRACTOR SHALL COORDINATE MAKING EACH PIPE CONNECTION WITH THE OWNER.
- 7. CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE EXISTING NORTH SCREEN WASHER COMPACTOR DISCHARGE PIPING TO ALLOW INSTALLATION OF THE NEW SOUTH WASHER COMPACTOR DISCHARGE PIPING WHILE THE NORTH SYSTEM REMAINS FUNCTIONAL.
- 8. LOCATIONS OF FLOOR PENETRATIONS FOR TWO 1" PLANT WATER PIPES AND TWO 4" DRAIN PIPES FOR THE NEW SCREENING EQUIPMENT SHALL BE FIELD ADJUSTED TO AVOID FLOOR BEAMS, ELECTRIC CONDUIT AND LIGHT FIXTURES MOUNTED TO THE LOWER SCREEN ROOM CEILING.

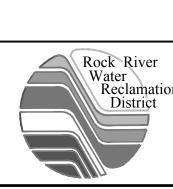
ELECTRICAL NOTES:

- 1. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.
- 2. ALL MATERIALS AND INSTALLATIONS IN THE LOWER SCREEN ROOM, UPPER SCREEN ROOM, AND LOADING AREA SHALL BE SUITABLE FOR USE IN A CLASS 1 DIVISION 2 GROUP D RATED AREA PER THE NATIONAL ELECTRICAL CODE, INCLUDING SEAL-OFFS ON CONDUITS ENTERING AND LEAVING THE AREAS
- 3. ALL MATERIALS SHALL BE NEW AND APPROVED BY OWNER.
- 4. OUTAGES SHALL BE COORDINATED WITH THE OWNER AT LEAST 48 HOURS PRIOR TO THE OUTAGE.
- 5. CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT LOCATIONS AND DIMENSIONS.
 - SEPARATE CONDUITS SHALL BE INSTALLED FOR POWER WIRING, CONTROL WIRING. AND SHIELDED CONTROL WIRING.
- ALL WIRE SHALL BE STRANDED COPPER, TYPE XHHW-2 OR THWN RATED FOR 90 DEGREE CELSIUS 600 VOLT. POWER WIRING SHALL BE MINIMUM OF #12 AND **CONTROL WIRING MINIMUM OF #16.**
- 8. ALL CONDUITS IN THE LOWER SCREEN ROOM, UPPER SCREEN ROOM, AND LOADING AREA SHALL BE PVC COATED RIGID GALVANIZED STEEL WITH MINIMUM SIZE OF 3/4" DIAMETER.
- 9. ALL CONDUITS IN THE UTILITY ROOM AND CONTROL ROOM SHALL BE RIGID GALVANIZED STEEL WITH MINIMUM SIZE OF 3/4" DIAMETER.
- 10. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR CONNECTIONS TO EQUIPMENT AND DEVICES.
- 11. CONDUIT ROUTINGS ON THE DRAWINGS DEPICT GENERAL LOCATIONS. CONTRACTOR SHALL ADJUST THE ROUTINGS TO SUITE FIELD CONDITIONS.
- 12. PULL BOXES ARE NOT SHOWN ON THE DRAWINGS BUT SHALL BE PROVIDED AS REQUIRED BY CODE AND GOOD INSTALLATION PRACTICES.
- 13. NUMEROUS EQUIPMENT ITEMS AND DEVICES WILL REQUIRE TEMPORARY CONNECTIONS TO ALLOW OPERATION OF THE ITEMS DURING PORTIONS OF THE WORK. CONTRACTOR SHALL PROVIDE ALL TEMPORARY CONDUIT AND WIRING NECESSARY TO MAINTAIN FUNCTIONAL OPERATION OF EQUIPMENT AND DEVICES.
- 14. DISCONNECTS FOR THE SCREENS, WASHER COMPACTORS, AND WASH WATER VALVES SHALL BE LOCATED ON A CONTRACTOR FABRICATED STAINLESS STEEL RACK, SUPPORTED OFF THE CURB EAST OF THE STAIRWAY



Date





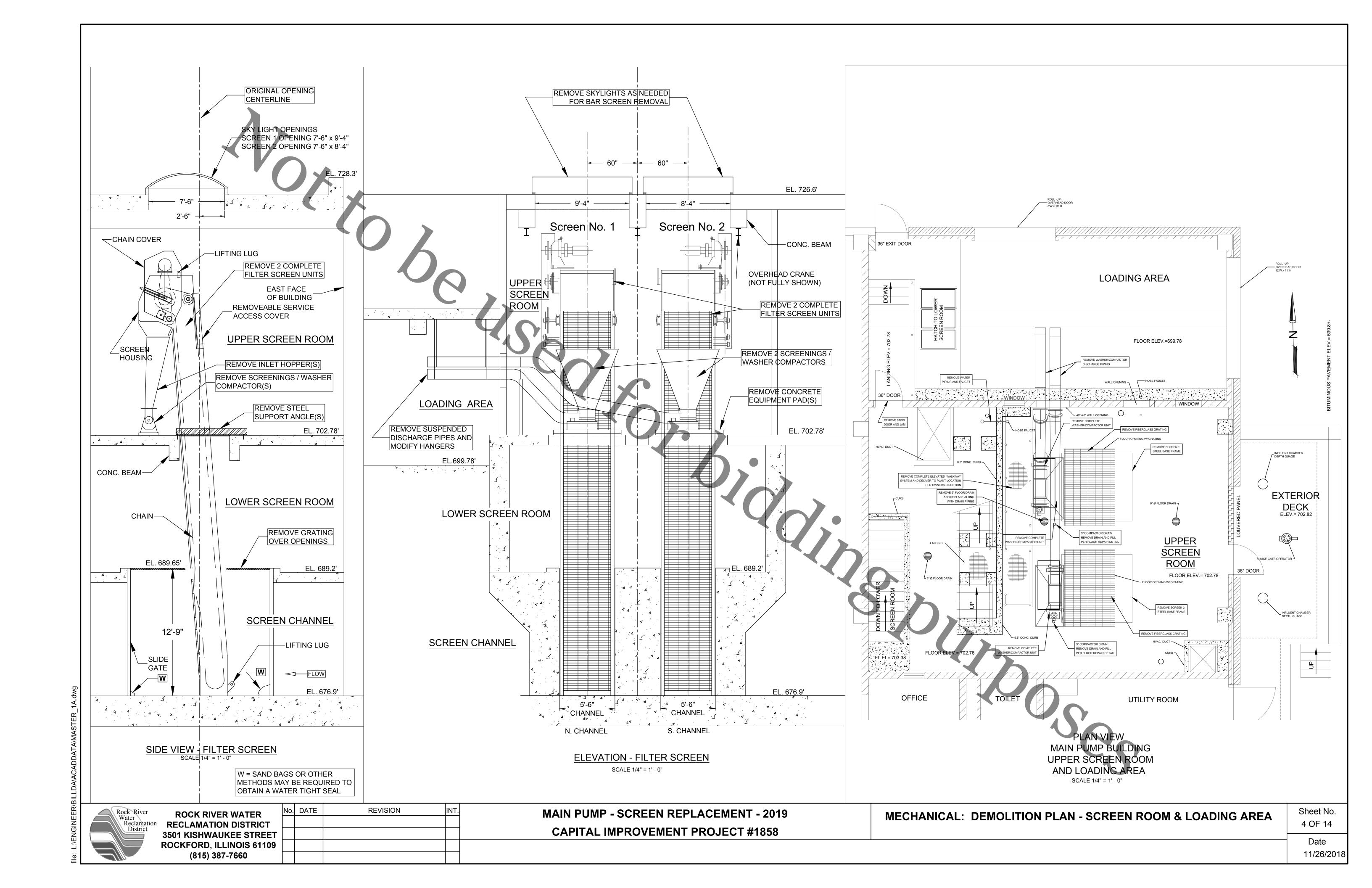
ROCK RIVER WATER RECLAMATION DISTRICT 3501 KISHWAUKEE STREET ROCKFORD, ILLINOIS 61109 (815) 387-7660

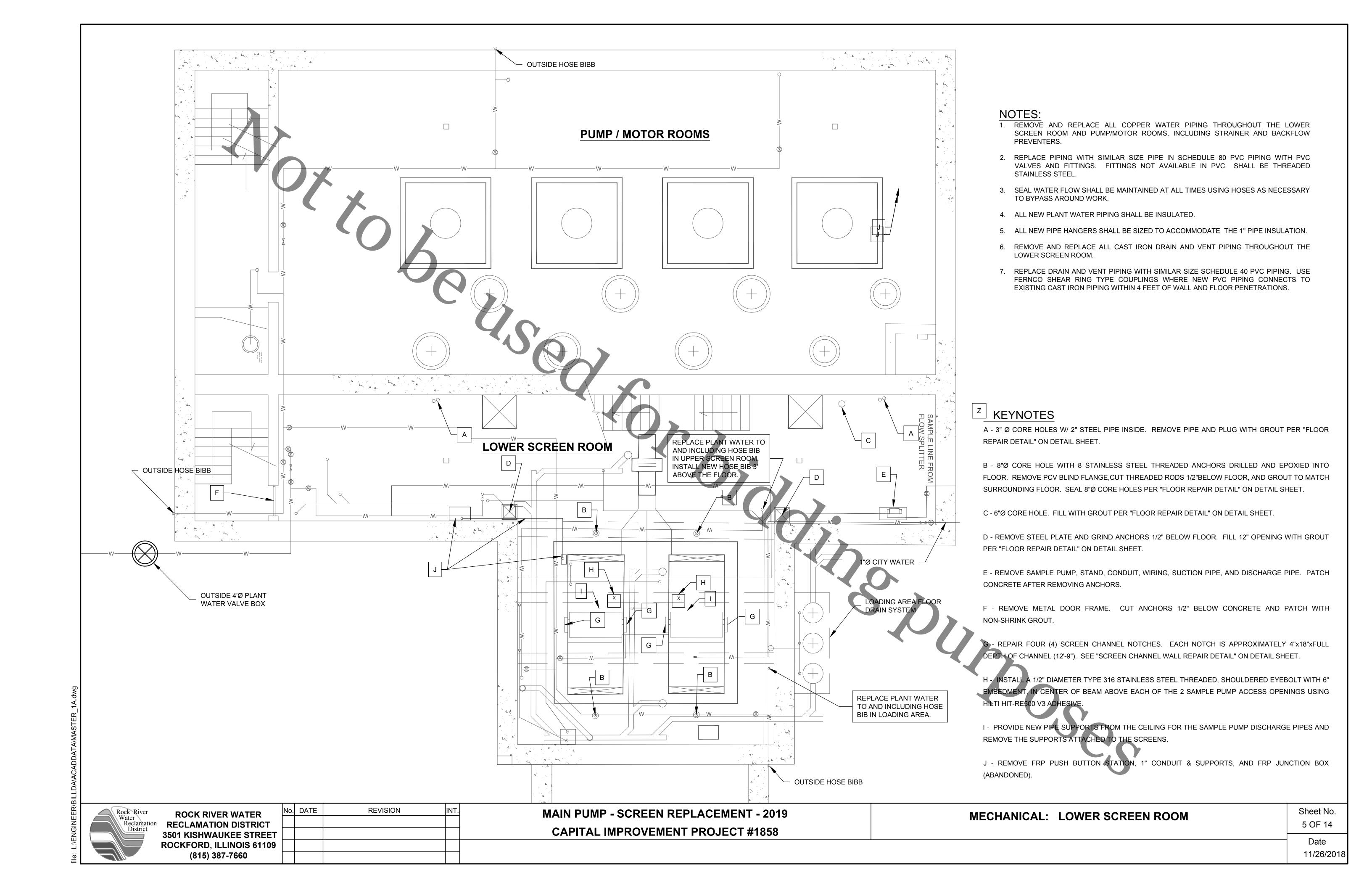
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MAIN PUMP - SCREEN REPLACEMENT - 2019 **CAPITAL IMPROVEMENT PROJECT #1858**

SITE OVERVIEW

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1. UNIT MATERIAL: SCREEN: 304SS SCREENINGS PRESS: 304SS

SPIRAL MATERIAL: HI-STRENGTH ALLOY STEEL

- 2. AREA CLASSIFICATION: HAZARDOUS-CLASS1, DIVISION 1.
- 3. SCREEN DRIVE MOTOR: 3.0 HP, 460 V, 3 PH, 60 HZ SCREEN BRUSH MOTOR: 2.0 HP, 460 V, 3 PH, 60 HZ PRESS MOTOR: 5.0 HP, 460 V, 3 PH, 60 HZ
- 4. SCREEN WEIGHT 7010 LB PRESS WEIGHT - TBD LB
- 5. WATER REQUIREMENTS:

SCREEN SPRAY WASH: 40 GPM @ 40 - 60 PSI

- PRESS SPRAY WASH: 16 GPM @ 20 40 PSI 6. CONTRACTOR TO PROVIDE ALL INTER CONNECTING PIPING, WIRING, AND CONDUIT FROM UNIT-MOUNTED DEVICES.
- 7. BOTTOM OF SCREEN MUST REST FLUSH TO THE CONCRETE CHANNEL FLOOR, TO PREVENT MATERIAL FROM BYPASSING THE SCREEN. SIDE SEALS MUST REST ALONG CHANNEL WAL ON BOTH SIDES TO PREVENT MATERIAL FROM BYPASSING THE SCREEN.
- 8 STRAINER TO BE INSTALLED IN WASHWATER SUPPLY LINE BEFORE SPLITTING TO SUPPL SCREENS AND PRESS.
- EQUIPMENT MUST BE PROTECTED TO PREVENT SURFACE CONTAMINATION. CONTAMINATION CAN COME FROM WELDING CUTTING, PAINTING AND OTHER SUCH ACTIVITIES IN THE AREA OF THE EQUIPMENT. STAINLESS STEEL SURFACES CONTAMINATED WITH ANY IRON, CHLORIDE CONTAINING MATERIAL AND OTHER SUBSTANCES CAN EXPERIENCE ACCELERATED SURFACE CORROSION AND PITTING.
- 10. THE FOLLOWING DEVICES NEED TO BE FIELD WIRED BY
 - **ELECTRICAL CONTRACTOR**
 - SCREEN DRIVE MOTOR: ITEM 105 (QTY 2)
 - BRUSH DRIVE MOTOR: ITEM 106 (QTY 2)
 - MOTOR CUT OUT SWITCH: ITEM 114 (QTY 2)
 - SCREENINGS PRESS DRIVE MOTOR: ITEM 204 (QTY 2) ELECTRICALLY ACTUATED BALL VALVES: ITEM 110 (QTY 2), ITEM 207 (QTY 4)
 - CONTROL PANEL: ITEM 121 (QTY 1) ITEM 122 (QTY 1)

PROCESS DESIGN INFORMATION: SCREEN

APPLICATION: PEAK DESIGN FLOW: DOWNSTREAM WATER LEVEL: MAXIMUM SCREEN HEADLOSS: SCREEN OPENING: ANGLE OF INCLINATION:

CHANNEL WIDTH:

90 INCHES @ PEAK FLOW 14.4 INCHES @ PF WITH 30% BLINDING .394 INCHES (10mm) PERFORATED 80 DEGREES 5.5 FEET

MUNICIPAL WASTEWATER

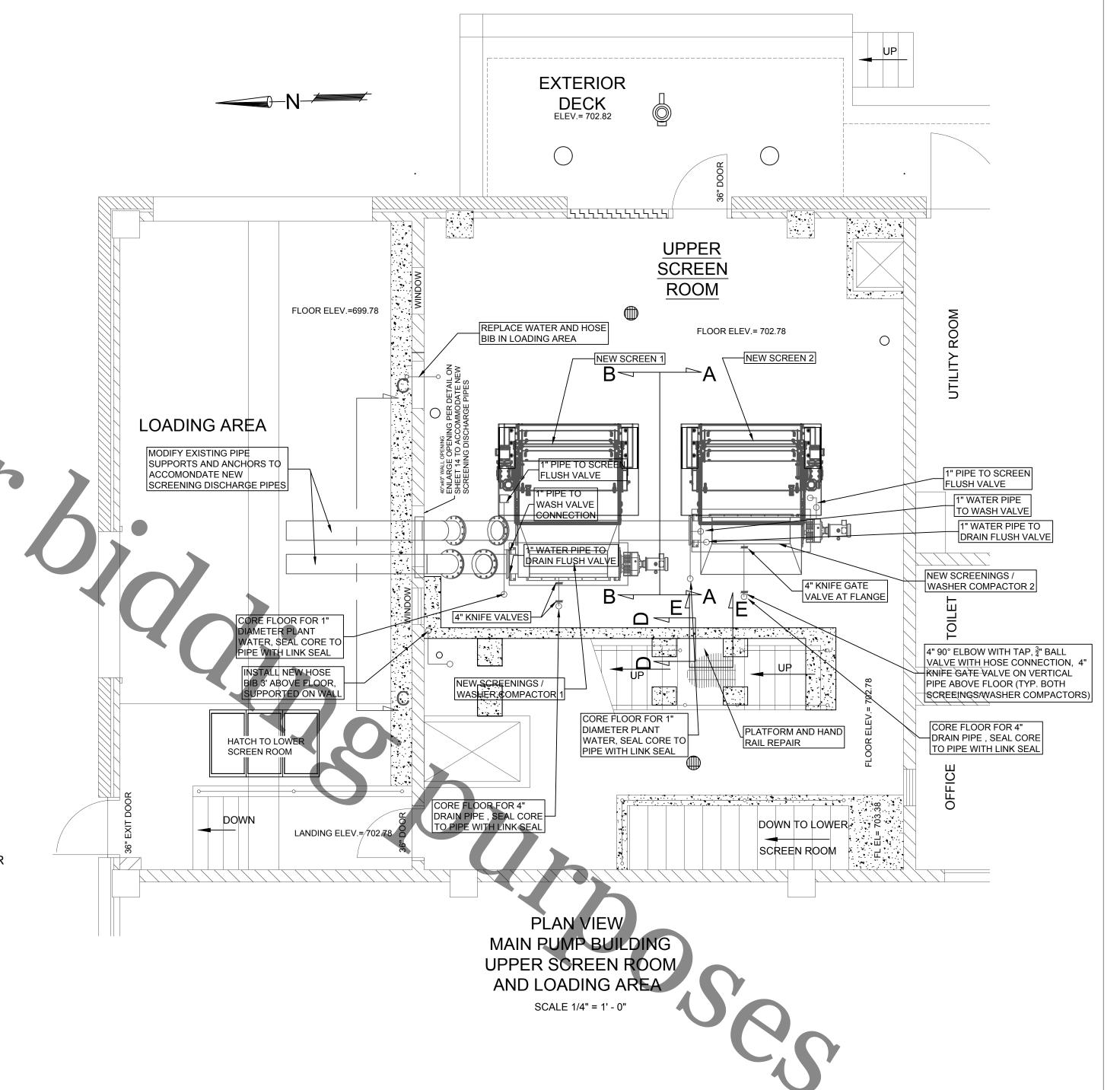
CHANNEL DEPTH: **DISCHARGE HEIGHT:**

12.75 FEET 30.3 FEET (FROM CHANNEL INVERT) **CLEAN SCREEN HEADLOSS:** 0 INCHES (REQUIRED FOR FRS3):

PROCESS DESIGN INFORMATION: WASH PRESS **APPLICATION: SCREEN CAPACITY:** 5 m3/hr (177 ft3/hr)

INLET OPENING: 1800mm SCREW DIAMETER: 300mm **DISCHARGE MATERIAL DRY SOLIDS: VOLUME REDUCTION:** 60 - 85%

MUNICIPAL WASTEWATER **WEIGHT REDUCTION:** 60 - 85% FECAL REDUCTION: 95% or <20 mg/g BODS



Rock River

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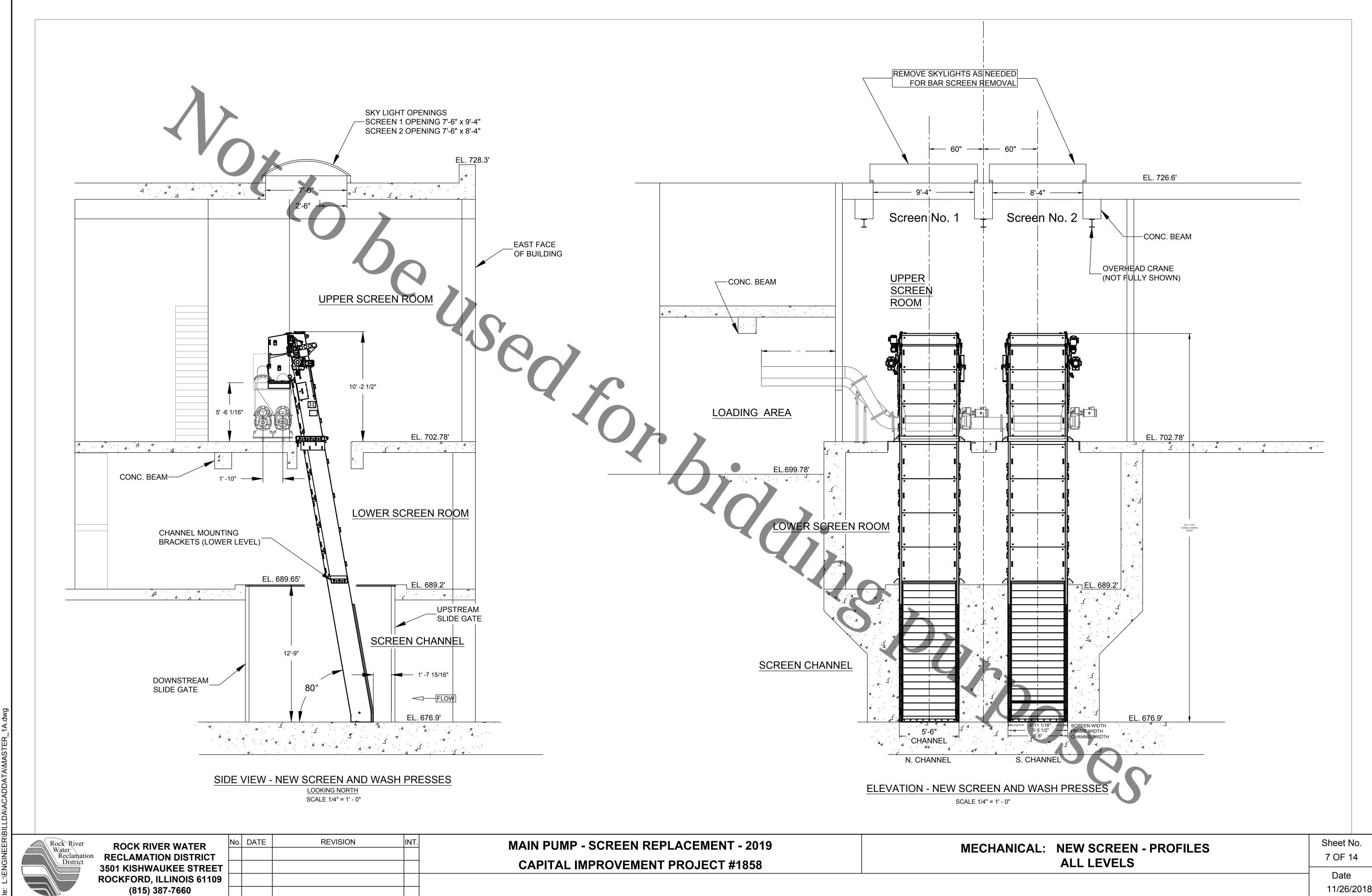
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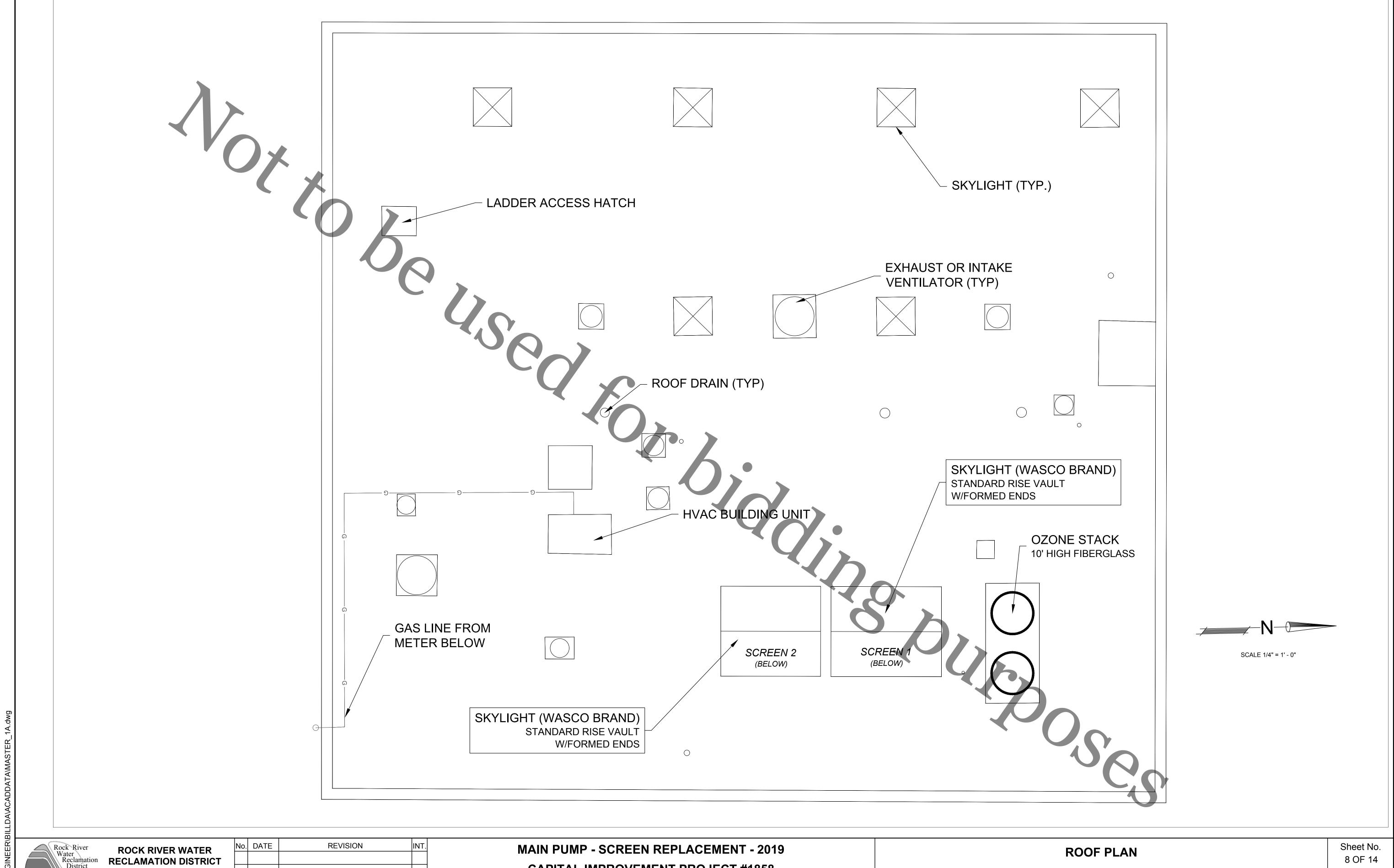
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NEW SCREEN - PLAN VIEW

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CAPITAL IMPROVEMENT PROJECT #1858

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CONDUIT AND WIRE SCHEDULE

CONI	-	CONDUCTORS	DESCF	RIPTION TO
S-P1		6-#10 PWR, 2-#10 GRD	MCC-14 30A BREAKERS	JUNCTION BOX AT SCREEN PANELS
S-P1		3-#10 PWR, 1-#10 GRD	JUNCTION BOX AT SCREEN PANELS	SCREEN 1 CONTROL PANEL
S-P2		100 100 100 100 100 100 100 100 100 100	JUNCTION BOX AT SCREEN PANELS	SCREEN 2 CONTROL PANEL
3-23		3-#10 PWR, 1-#10 GRD		
	existing		PUMP 2 BREAKER PANEL	PCS PANEL
	existing		PUMP 4 BREAKER PANEL	PCS PANEL
CP1		2-#12 PWR, 1-#12 GRD	CONTROL ROOM LIGHTING PANEL	UTILITY ROOM SAMPLE PUMP PANEL
C1	3/4"	12-#16 CTL	PCS PANEL	UTILITY ROOM SAMPLE PUMP PANEL
SP4		6-#12 PWR, 2-#12 GND	SCREEN CONTROL PANELS	SCREEN POWER JUNCTION BOX
	3/4"	3-#12 PWR, 1-#12 GND	SP JUNCTION BOX	SCREEN 1 BRUSH MOTOR DISCONNECT
	3/4"	3-#12 PWR, 1-#12 GND	SCREEN 1 BRUSH MOTOR DISCONNECT	SCREEN 1 BRUSH MOTOR
	3/4"	3-#12 PWR, 1-#12 GND	SP JUNCTION BOX	SCREEN 1 DRIVE MOTOR DISCONNECT
	3/4"	3-#12 PWR, 1-#12 GND	SCREEN 1 DRIVE MOTOR DISCONNECT	SCREEN 1 DRIVE MOTOR
	3/4"	4-#12 PWR, 2-#12 GND	SCREEN CONTROL PANELS	SCREEN CONTROL POWER JUNCTION BOX
	3/4"	2-#12 PWR, 1-#12 GND	S-CP JUNCTION BOX	SCREEN 1 FLUSH WATER VALVE
	3/4"	32-#16 CTL	SCREEN CONTROL PANELS	SCREEN 2 CONTROL JUNCTION BOX
	3/4"	2-#16 CTL	SCREEN 1 CONTROL JUNCTION BOX	SCREEN 1 INSPECTION DOOR SWITCH
	3/4"	2#16 CTL	SCREEN 1 CONTROL JUNCTION BOX	SCREEN 1 E-STOP
	3/4"	12-#16 CTL	SCREEN 1 CONTROL JUNCTION BOX	S1 BRUSH MOTOR & DRIVE MOTOR T-STATS
	3/4" **	2-#16 CTL (SCREEN 1 RUNNING)	SCREEN 1 CONTROL PANEL	WASH PRESS 1 CONTROL PANEL
	3/4"	8-#16 CTL	SCREEN 1 CONTROL PANEL	JUNCTION BOX AT SCREEN PANELS
	3/4"	8-#16 CTL	SCREEN 2 CONTROL PANEL	JUNCTION BOX AT SCREEN PANELS
	3/4"	16-#16 CTL	JUNCTION BOX AT SCREEN PANELS	PCS PANEL
	3/4" *	6-#12 PWR, 2-#12 GND	WASH PRESS CONTROL PANELS	WASH PRESS POWER JUNCTION
	3/4"	3-#12 PWR, 1-#12 GND	WASH PRESS POWER JUNCTION	WASH PRESS 1 DRIVE MOTOR DISCONNECT
	3/4"	3-#12 PWR, 1-#12 GND	WASH PRESS 1 DRIVE MOTOR DISCONNECT	WASH PRESS 1 DRIVE MOTOR
	3/4" *	8-#12 PWR, 4-#12 GND	WASH PRESS CONTROL PANELS	WASH PRESS CONTROL POWER JUNCTION
	3/4"	2-#12 PWR, 1-#12 GND	WASH PRESS CONTROL POWER JUNCTION	WASH PRESS 1 DRAIN FLUSH VALVE
	3/4"	2-#12 PWR, 1-#12 GND	WASH PRESS CONTROL POWER JUNCTION	WASH PRESS 1 WASH WATER VALVE
		4-#16 CTL	WASH PRESS CONTROL PANELS	WASH PRESS CONTROL JUNCTION
		2-#16 CTL	WASH PRESS CONTROL JUNCTION	WASH PRESS 1 E-STOP
	3/4"	3-#12 PWR, 1-#12 GND	SP JUNCTION BOX	SCREEN 2 BRUSH MOTOR DISCONNECT
	3/4"	3-#12 PWR, 1-#12 GND	SCREEN 2 BRUSH MOTOR DISCONNECT	SCREEN 2 BRUSH MOTOR
	CAUSE III	3-#12 PWR, 1-#12 GND	SP JUNCTION BOX	SCREEN 2 DRIVE MOTOR DISCONNECT
		3-#12 PWR, 1-#12 GND	SCREEN 2 DRIVE MOTOR DISCONNECT	SCREEN 2 DRIVE MOTOR
		2-#12 PWR, 1-#12 GND	S-CP JUNCTION BOX	SCREEN 2 FLUSH WATER VALVE
	3/4"	16-#16 CTL	SCREEN 2 CONTROL JUNCTION BOX	SCREEN 1 CONTROL JUNCTION BOX
	3/4"	2-#16 CTL	SCREEN 2 CONTROL JUNCTION BOX	INSPECTION DOOR SWITCH
	3/4"	2-#16 CTL	SCREEN 2 CONTROL JUNCTION BOX	SCREEN 2 E-STOP
	3/4"	12-#16 CTL	SCREEN 2 CONTROL JUNCTION BOX	BRUSH MOTOR & DRIVE MOTOR T-STATS
	3/4" **	2-#16 CTL (SCREEN 2 RUNNING)	SCREEN 2 CONTROL PANEL	WASH PRESS 2 CONTROL PANEL
	3/4"	3-#12 PWR, 1-#12 GND	WASH PRESS POWER JUNCTION	WASH PRESS 2 DRIVE MOTOR DISCONNECT
	3/4"	3-#12 PWR, 1-#12 GND	WASH PRESS 2 DRIVE MOTOR DISCONNECT	WASH PRESS 2 DRIVE MOTOR
	3/4"	2-#12 PWR, 1-#12 GND	WASH PRESS CONTROL POWER JUNCTION	WASH PRESS 2 DRAIN FLUSH VALVE
	3/4"	2-#12 PWR, 1-#12 GND	WASH PRESS CONTROL POWER JUNCTION	WASH PRESS 2 WASH WATER VALVE
	3/4"	2-#16 CTL	WASH PRESS CONTROL JUNCTION	WASH PRESS 2 E-STOP
NOTES:	AND RESIDENCE AND RESIDENCE	 E A PULL STRING ALONG WITH THE		
	** SHAR	E CONDUIT	DOM AND NEW IN UPPER SCREEN ROOM.	O OT CONTROL
	S = SCR	KEEN	P = PWR = POWER	C = CTL = CONTROL



MOTOR CONTROL CENTER (MCC-14)

Rock River
Water
Reclamation
District
35

ROCK RIVER WATER
RECLAMATION DISTRICT
3501 KISHWAUKEE STREET
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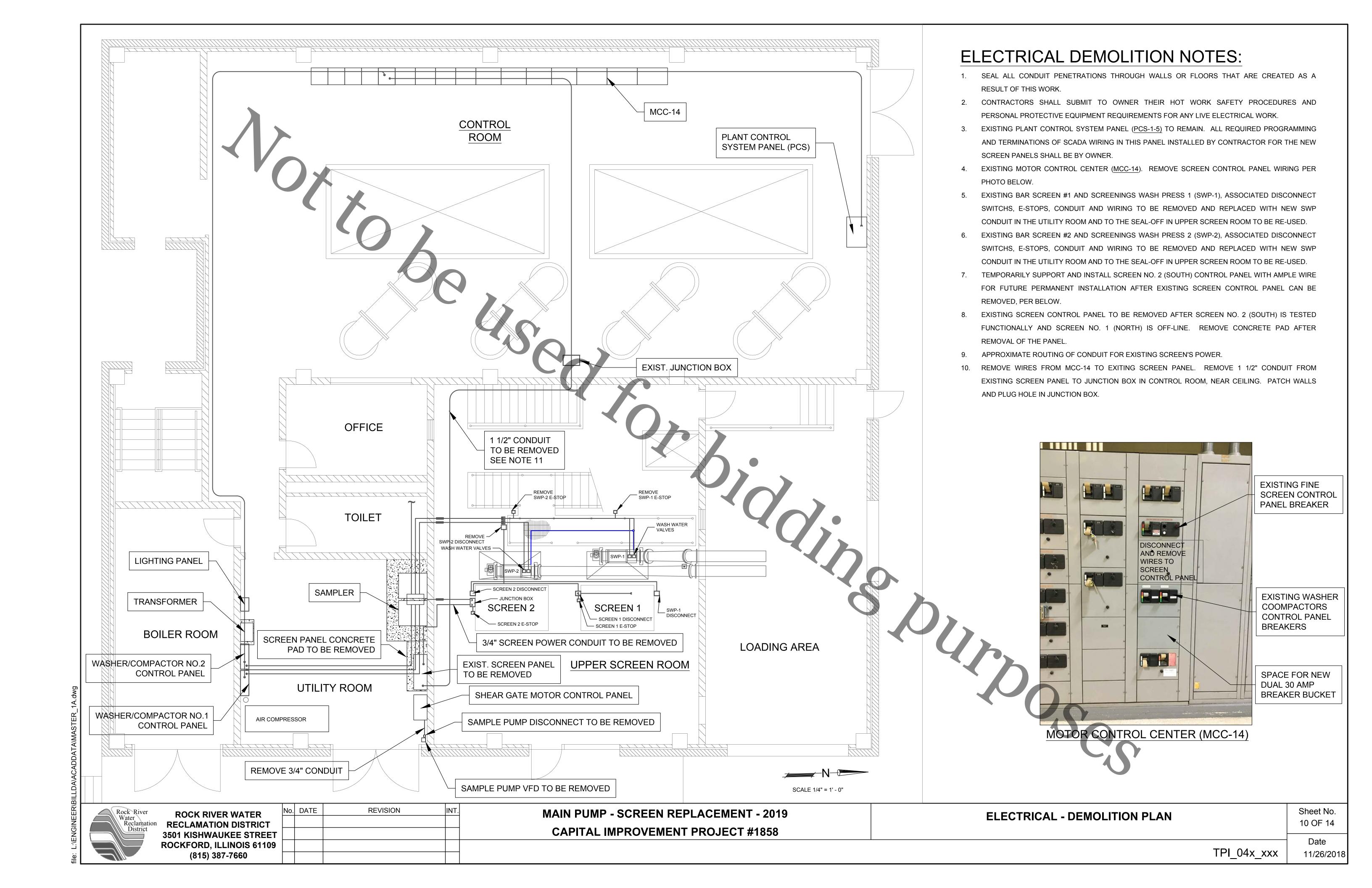
C = CTL = CONTROL CP = CONTROL POWER

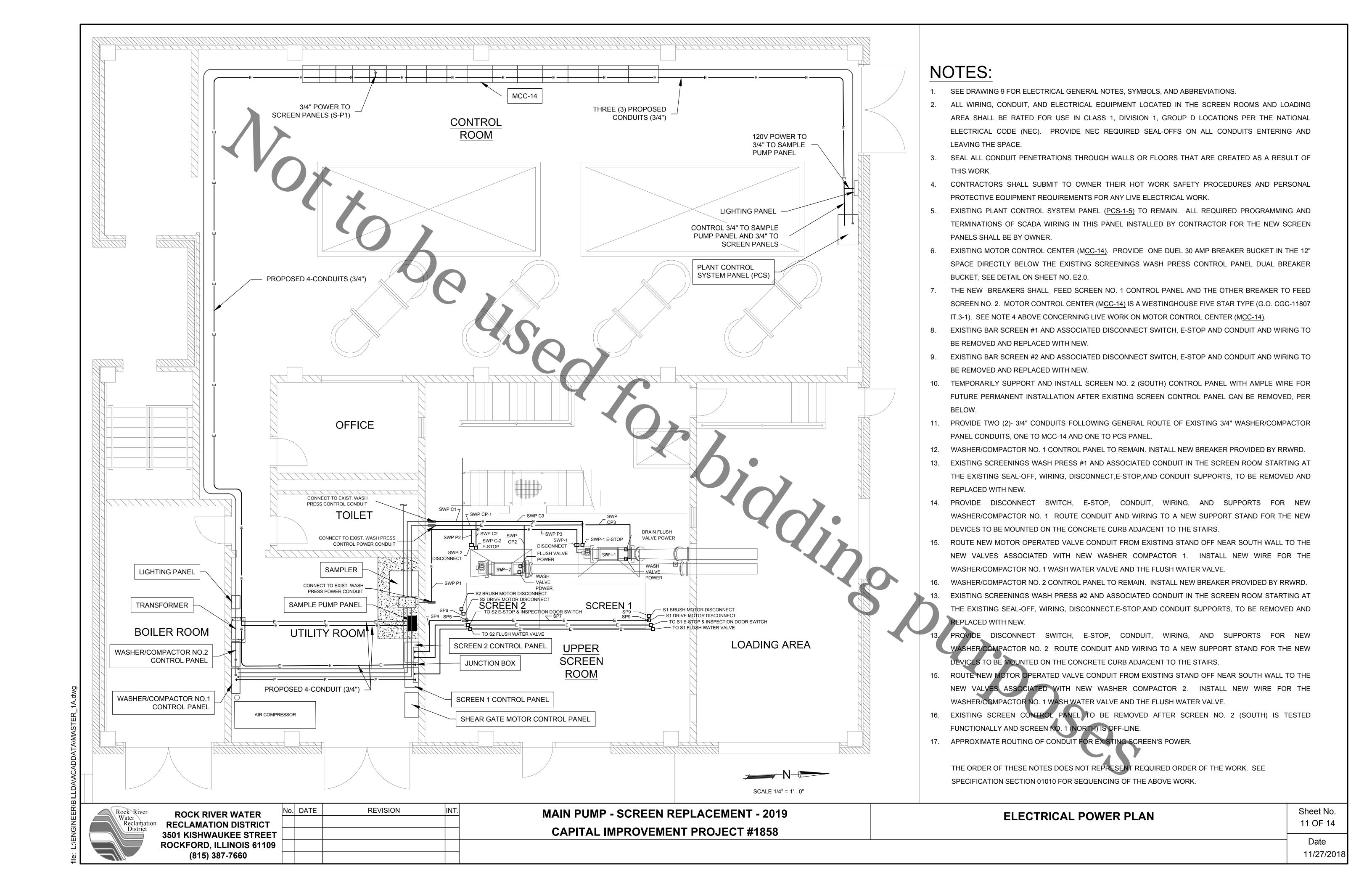
GND = GROUND

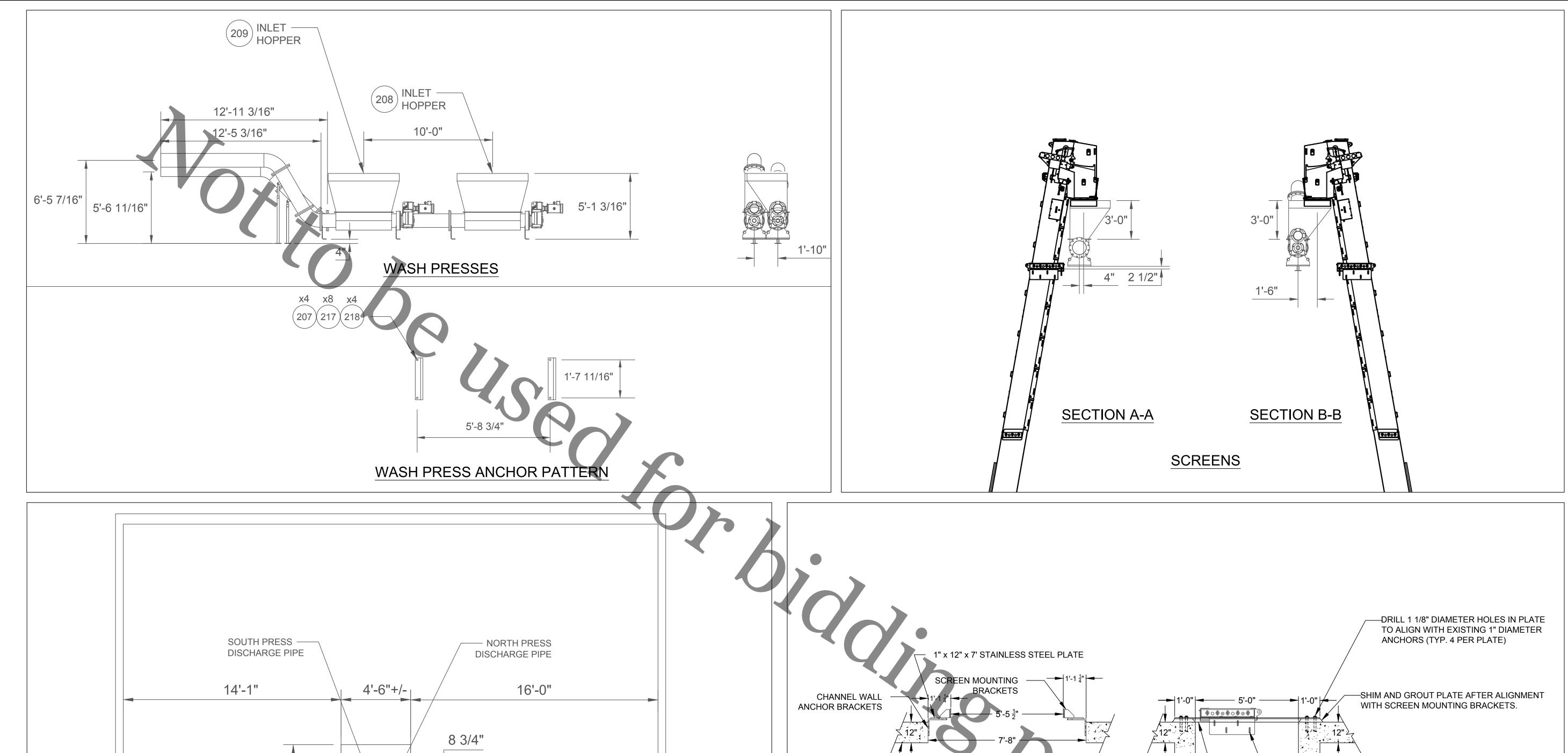
SWP = SCREENING WASH PRESS

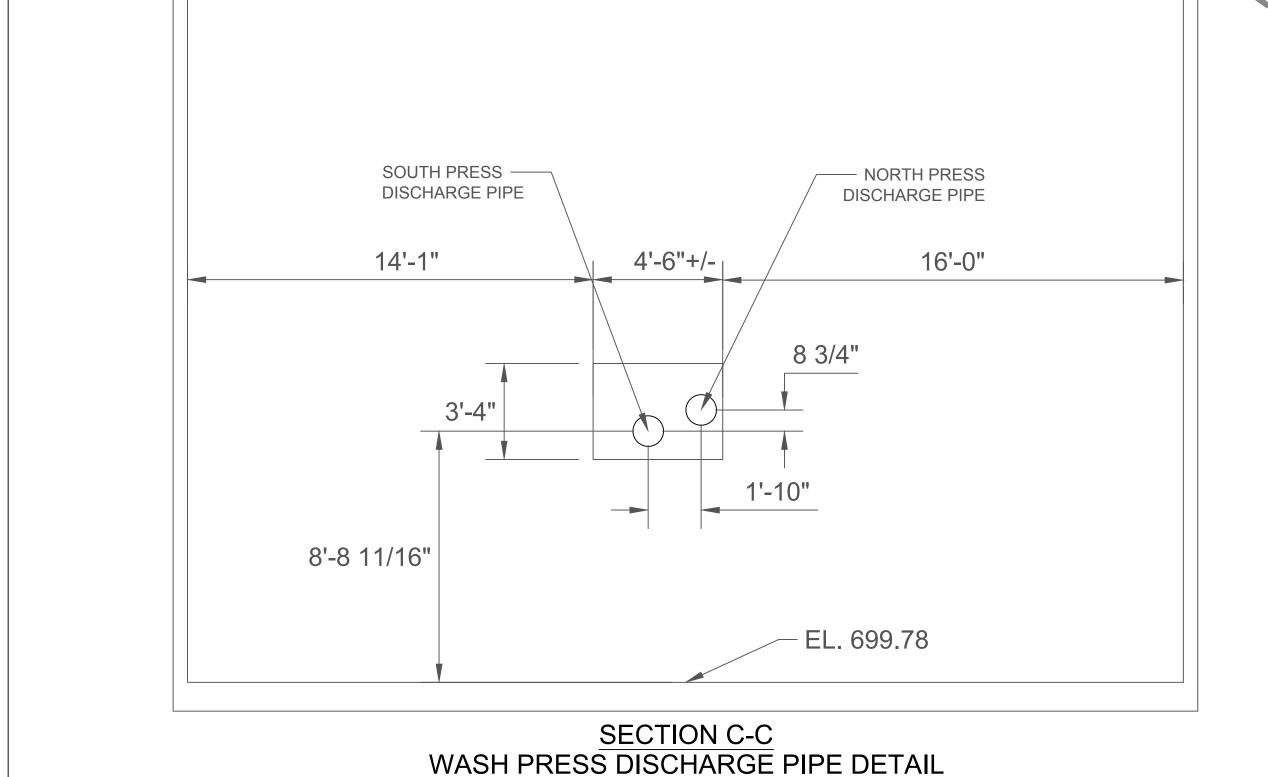
ELECTRICAL SCHEDULE & NOTES

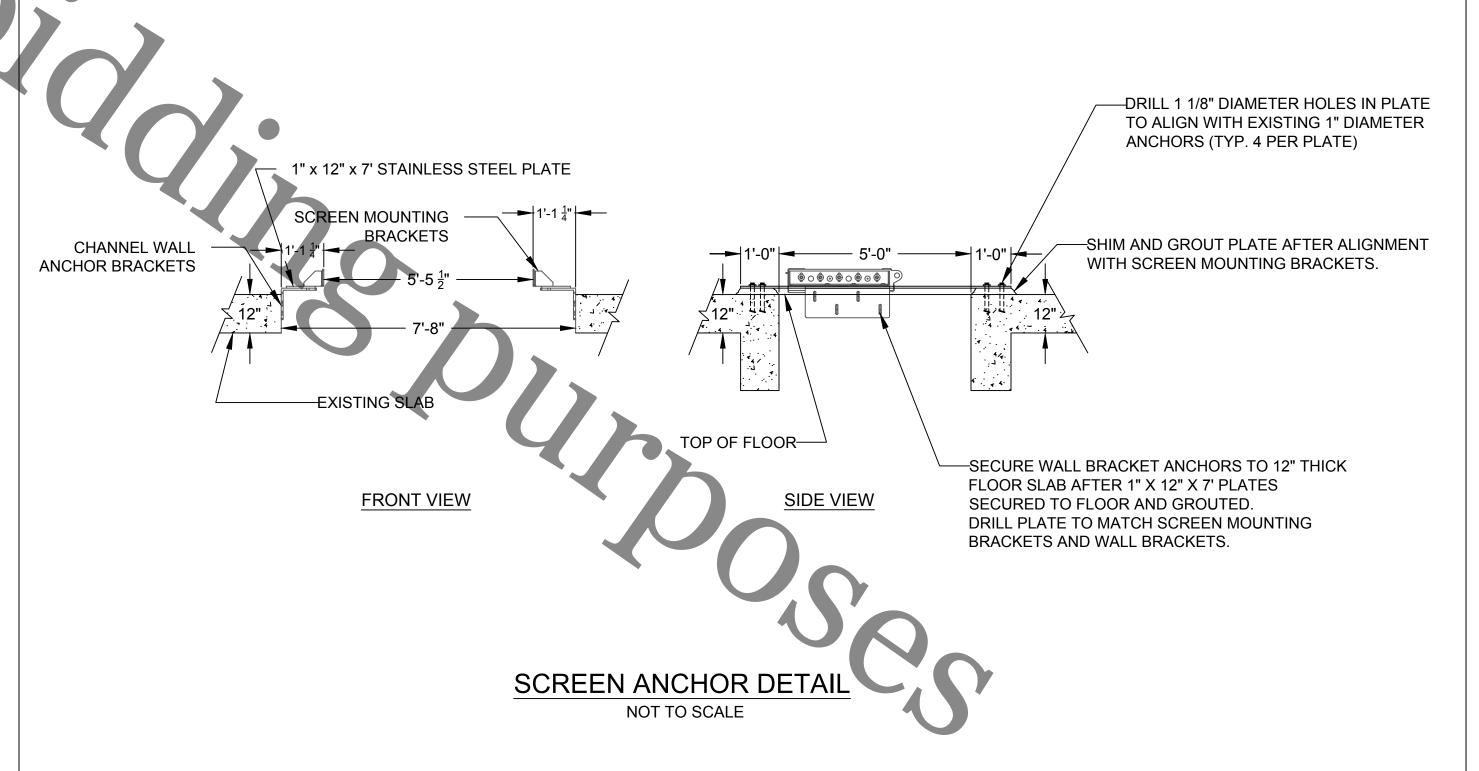
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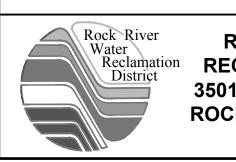












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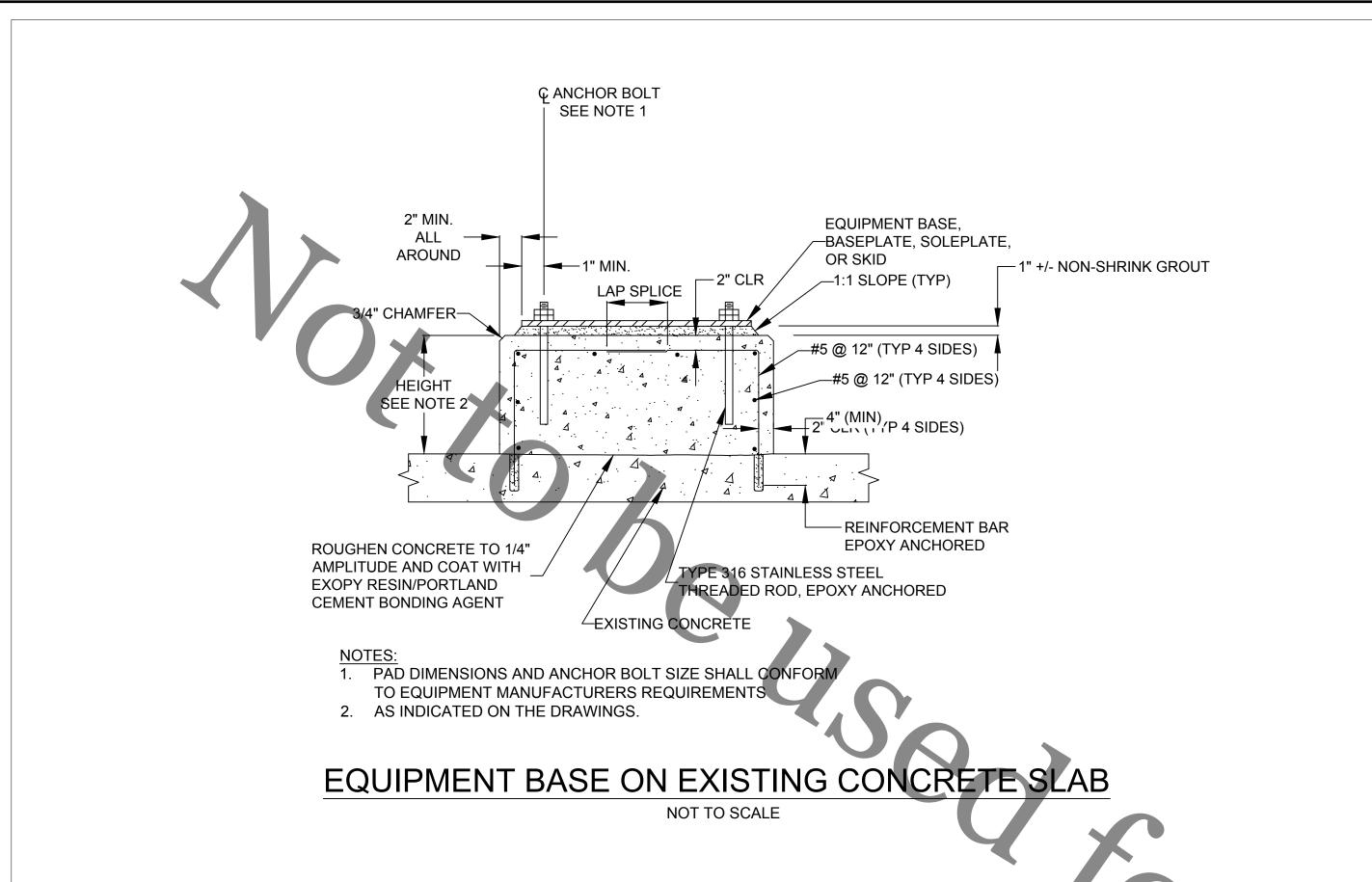
LOOKING SOUTH FROM LOADING AREA

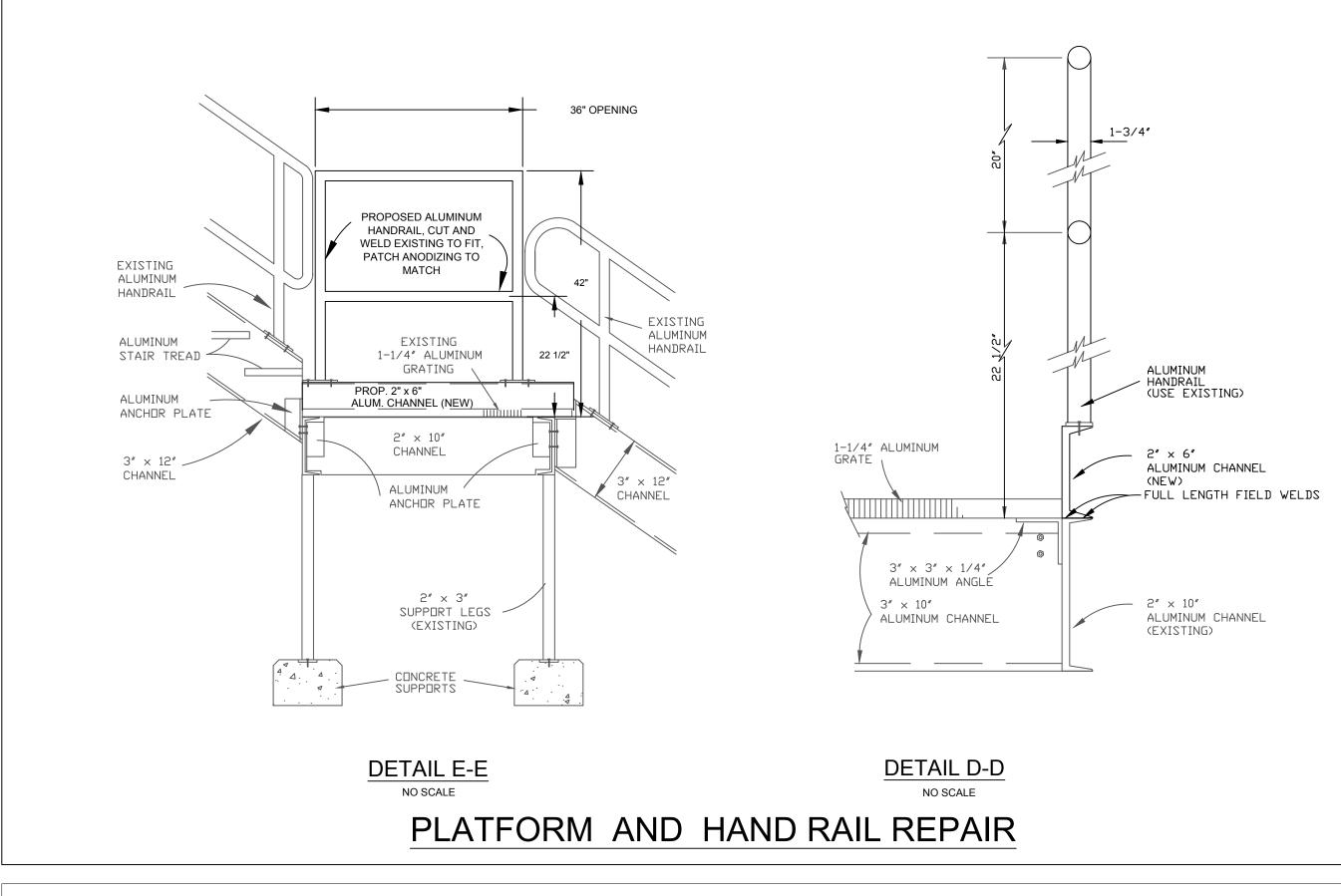
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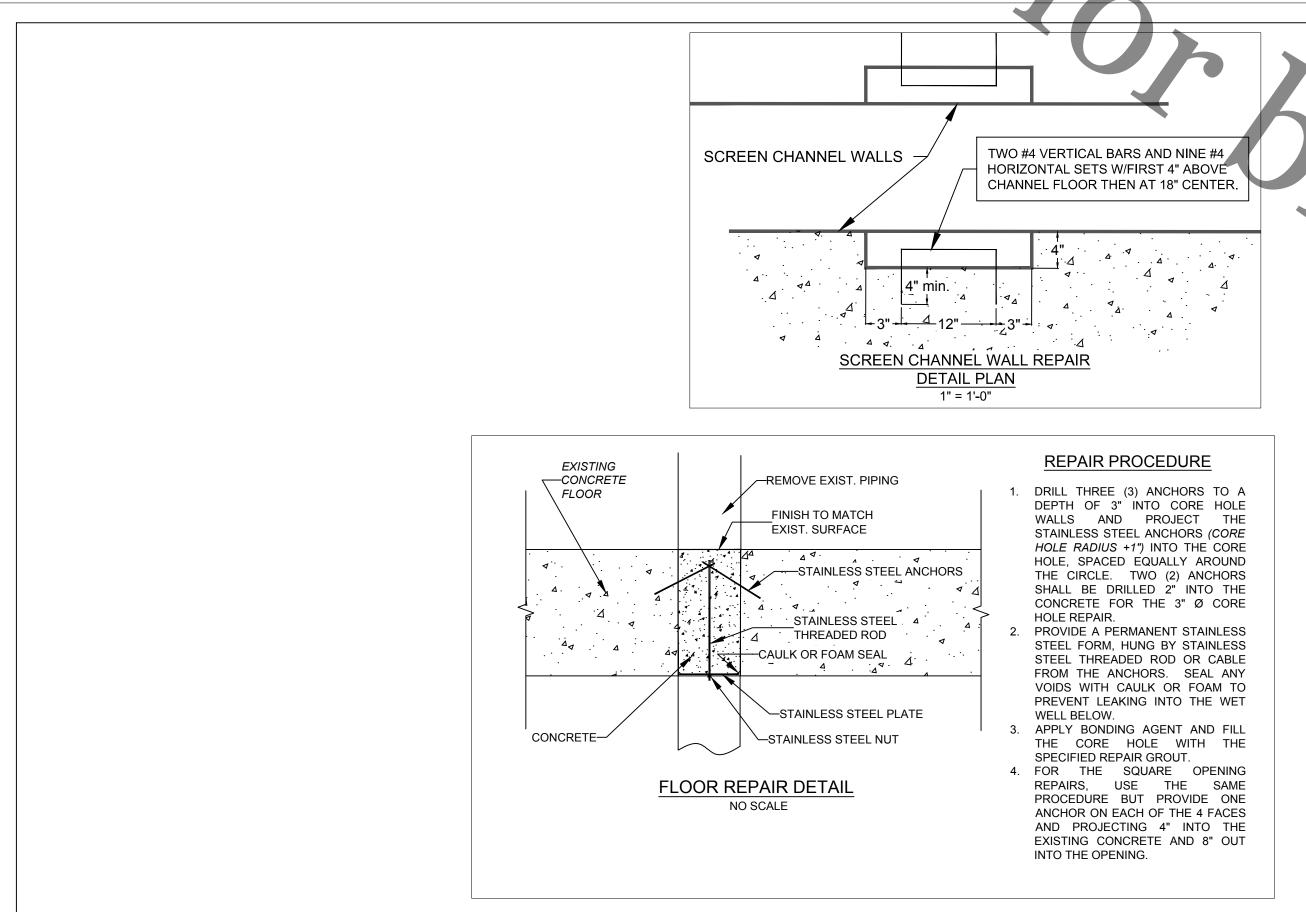
DETAILS

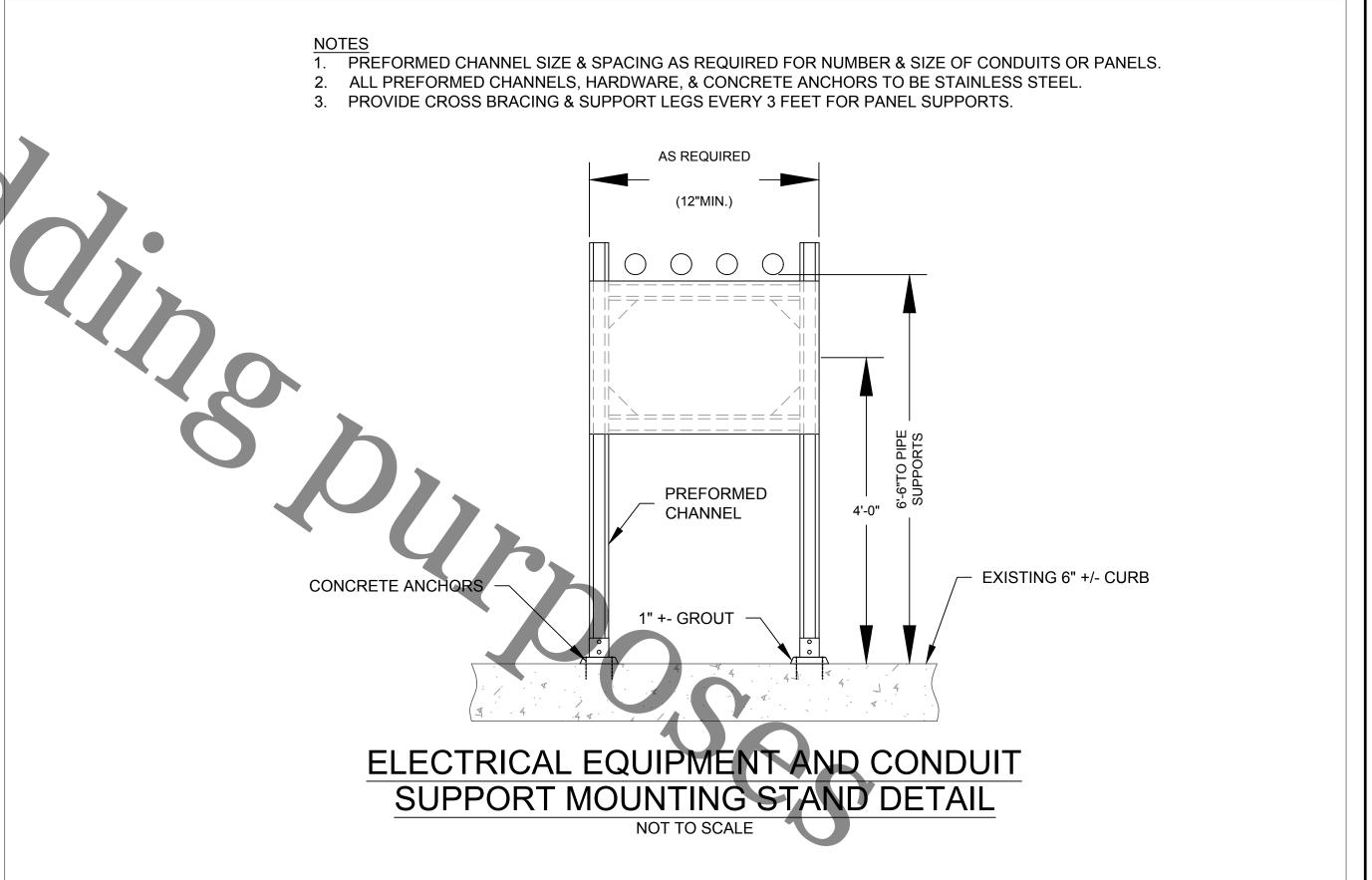
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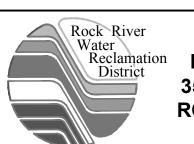
Date 11/27/2018











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DETAILS

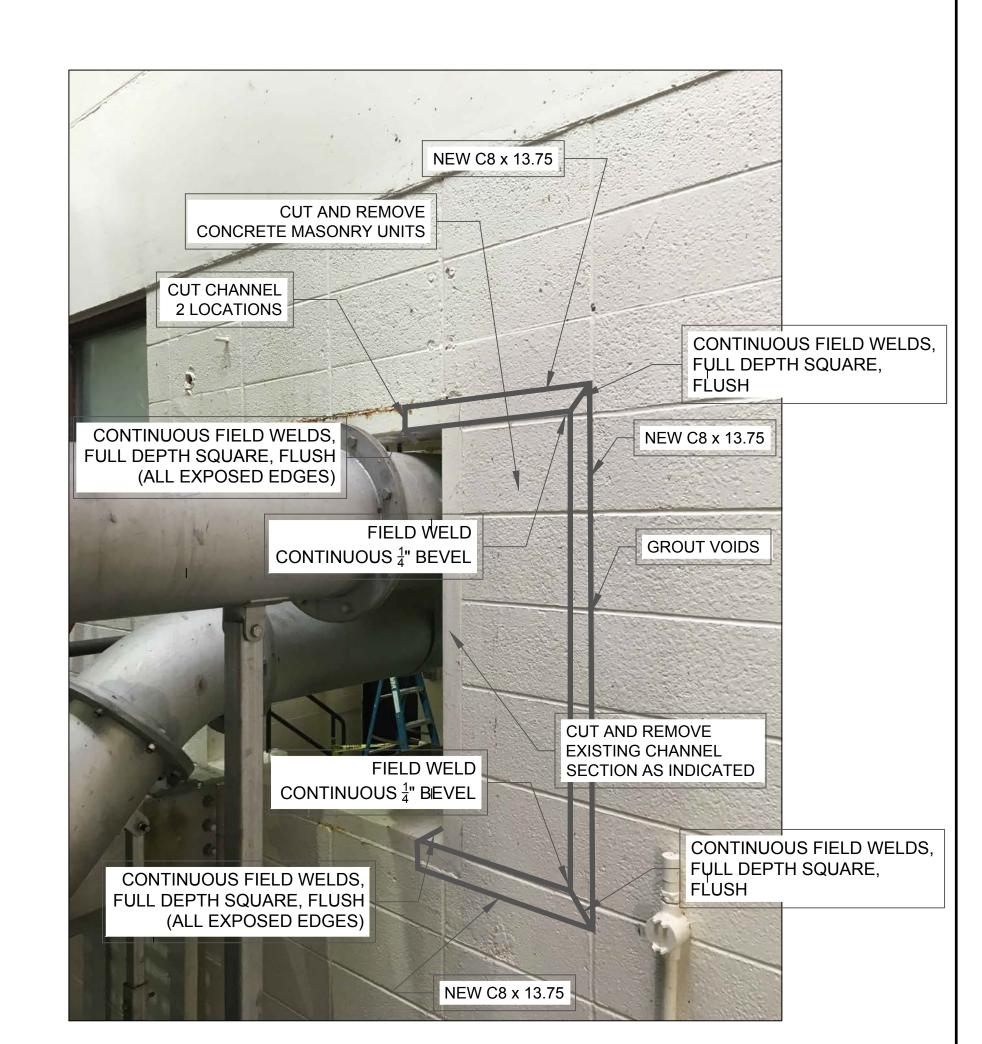
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CURB FOR ELECTRICAL MOUNTING



SAMPLE ROOM - NORTH WALL



WALL OPENING STEEL CHANNEL

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DETAIL - PHOTOS OF EXISTING AREAS

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