

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ALBUQUERQUE, NEW MEXICO

APRIL 2008

for the

EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I
BELL STATION NO. 37 MODIFICATIONS
RELOCATED BAR SCREEN ASSEMBLY & INSTALLATION

P.O. BOX 1293
Albuquerque, New Mexico 87103

WATER RESOURCES

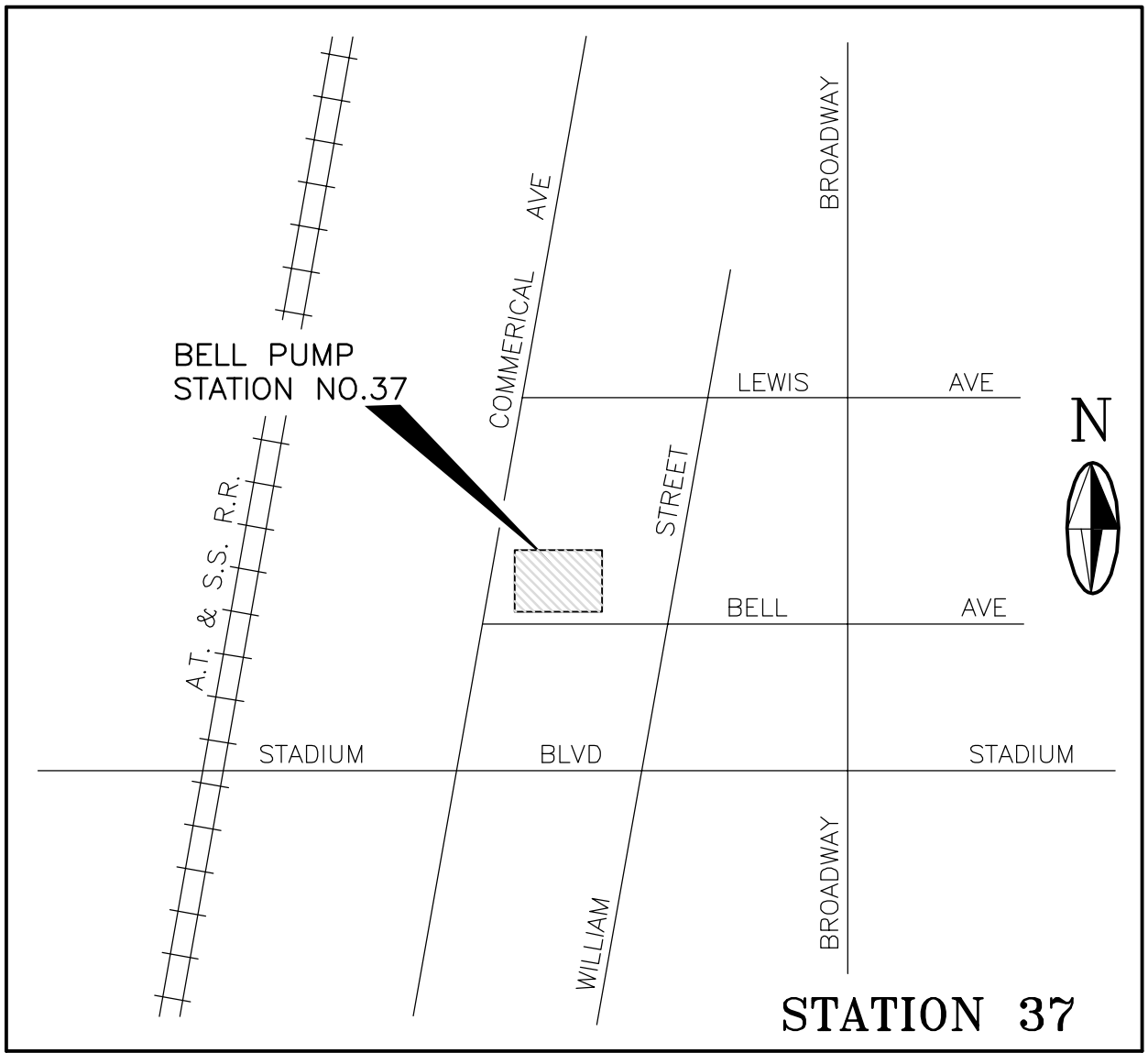
Molzen-Corbin & Associates
Robert A. Fowle, P.E.

ELECTRICAL ENGINEERS

Molzen-Corbin & Associates
Steven E. Sorenson, P.E.

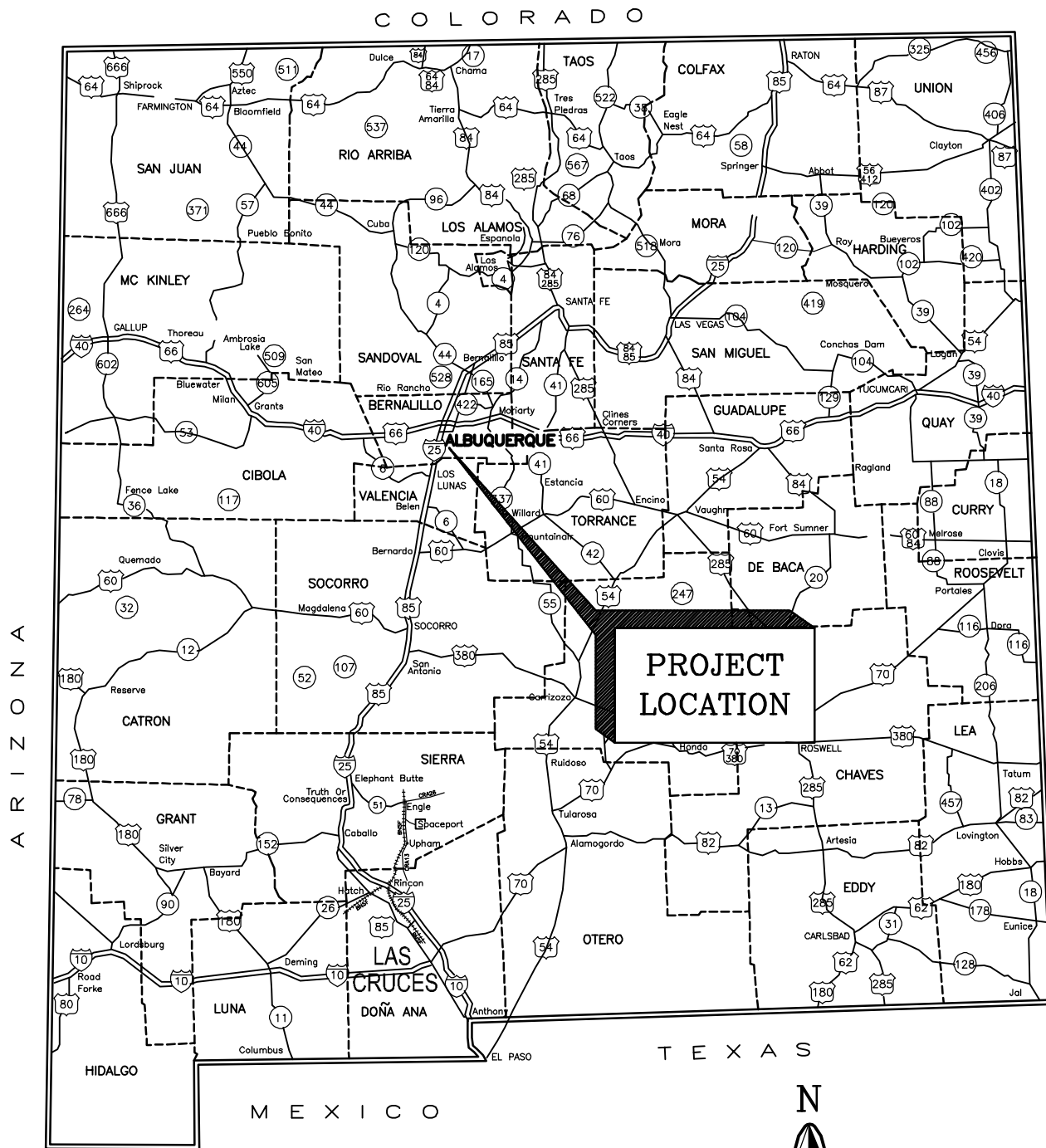
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LOCATION MAP

N.T.S.



VICINITY MAP

N.T.S.

RECORD DRAWING	
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REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE		
		APPROVALS		ENGINEER	DATE	*****			
		DRC Chairman				APPROVED FOR CONSTRUCTION			
		Transportation							
		Water/Wastewater							
		Hydrology							
		Aviation							
		Constr. Mngnt.				City Engineer	Date		
		City Project No.				Sheet	of		
				781491		G00-001			

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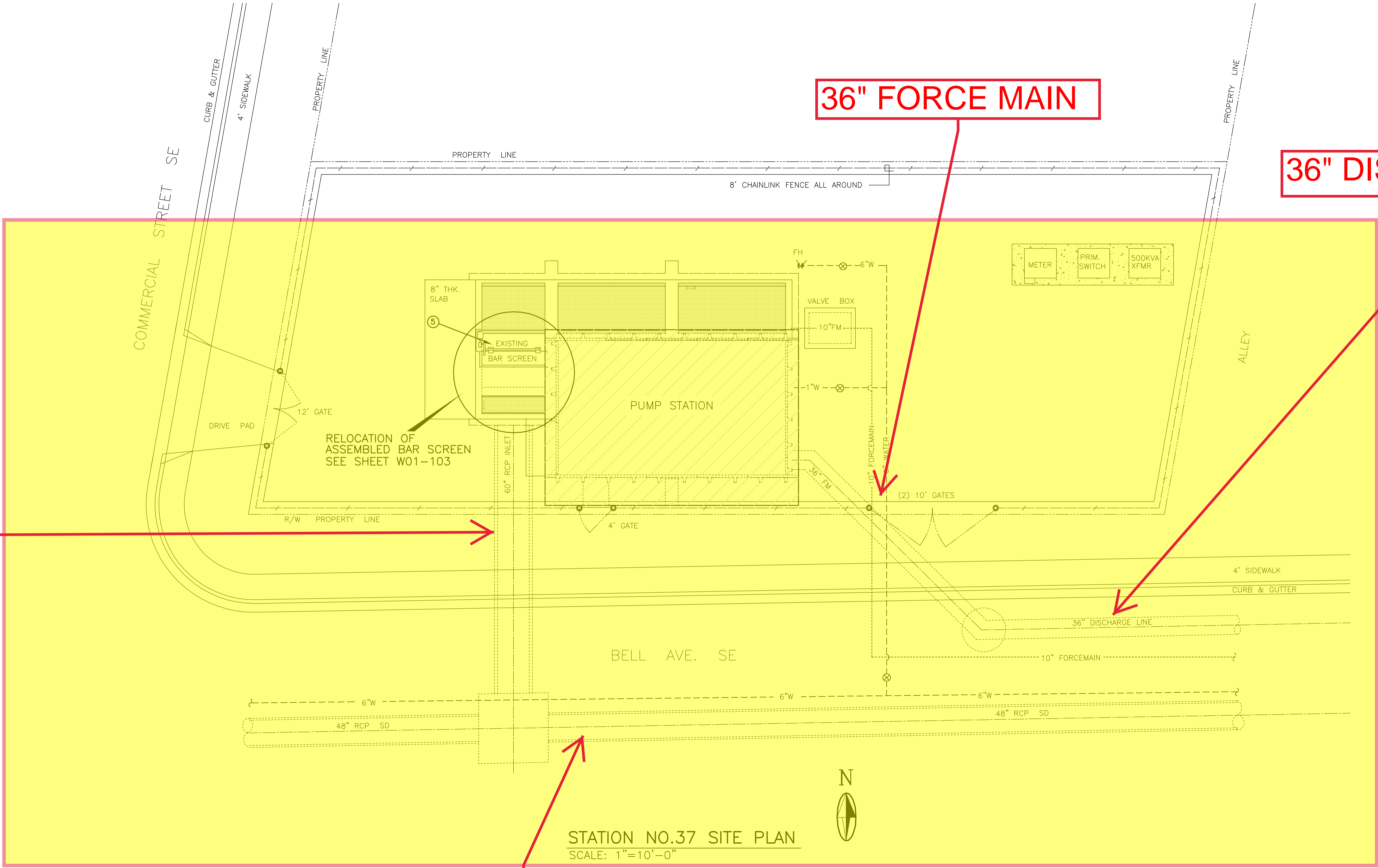
THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR THE CONSTRUCTION
SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

60" RCP INLET

36" FORCE MAIN

36" DISCHARGE LINE

48" RCP STORM DRAIN



RECORD DRAWING

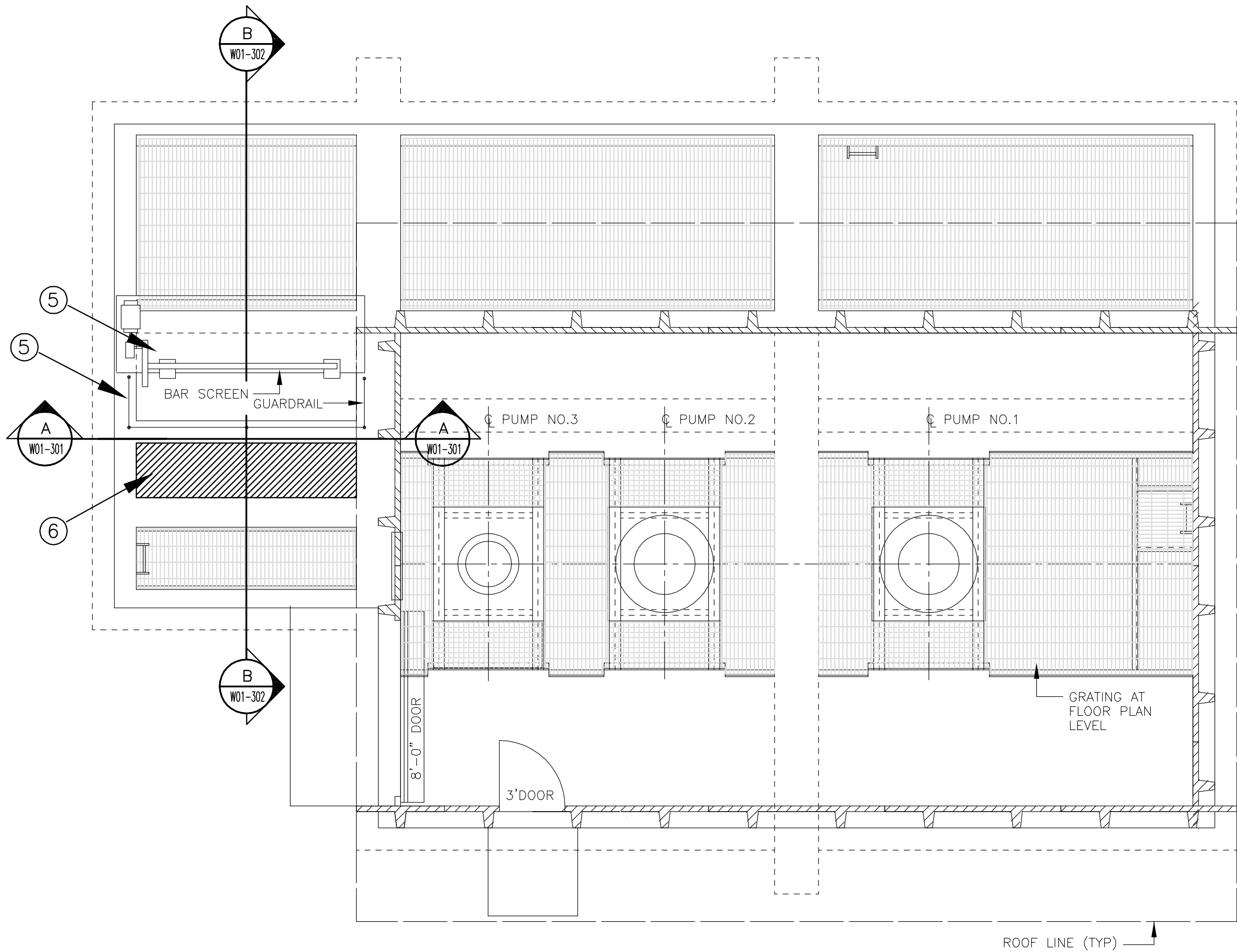
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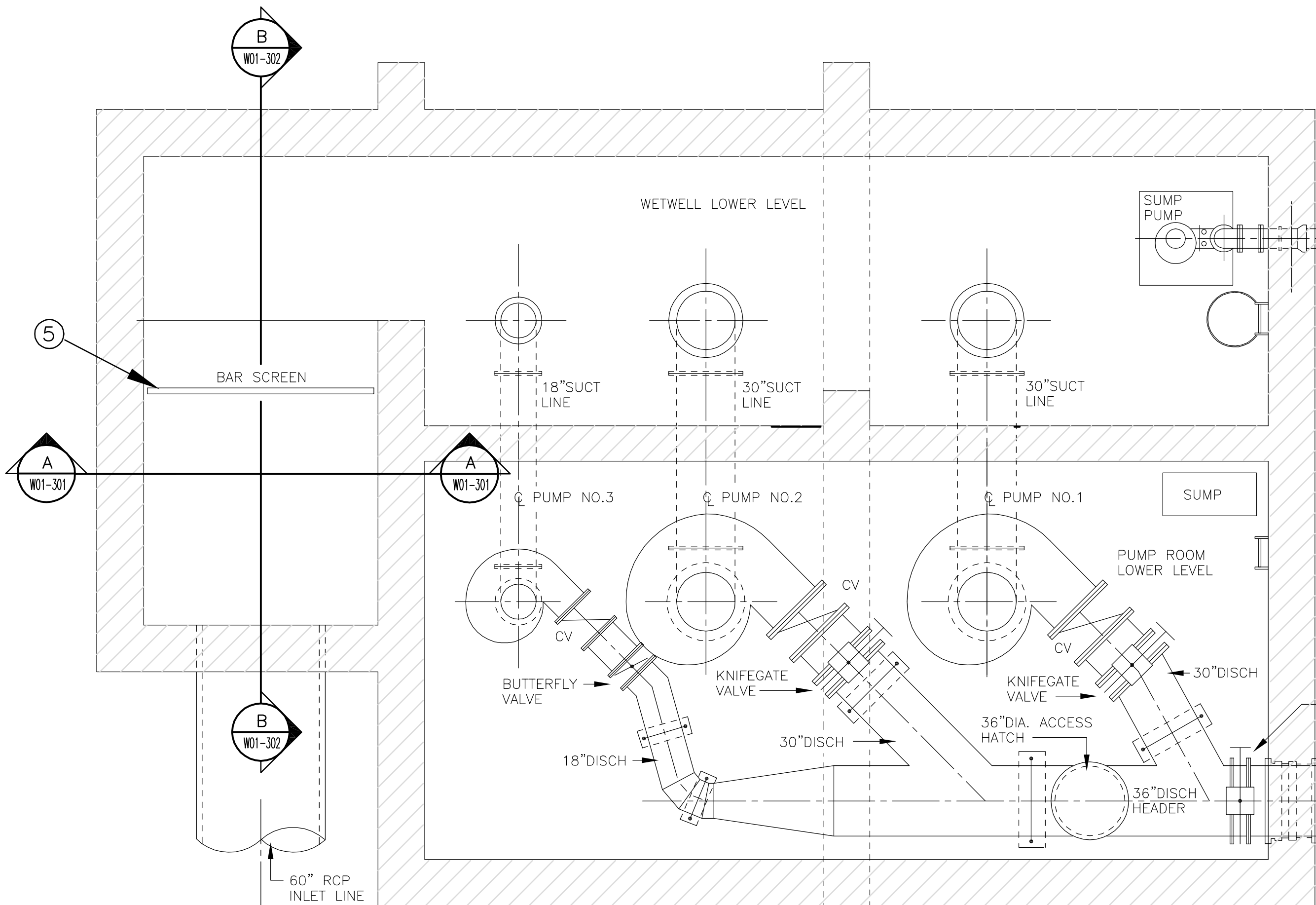
CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT			
TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I BELL STATION NO. 37 - EXISTING SITE PLAN BAR SCREEN MODIFICATIONS			
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr. Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
781491		W01-101	

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
		No.	BY		DATE		
No.	DATE	REMARKS		BY			
REVISIONS							
DESIGN							
DESIGNED BY		RF/MK	DATE	11/07			
DRAWN BY		CJS	DATE	12-03-07			
CHECKED BY		MK/RF	DATE	12/07			



NOTE: SEE SHEET W01-103
FOR KEYED NOTES

MOTOR ROOM GROUND/FLOOR PLAN
SCALE: 1/4"= 1'-0"



NOTE: SEE SHEET W01-103
FOR KEYED NOTES

LOWER PUMP ROOM PLAN
SCALE: 1/4"= 1'-0"



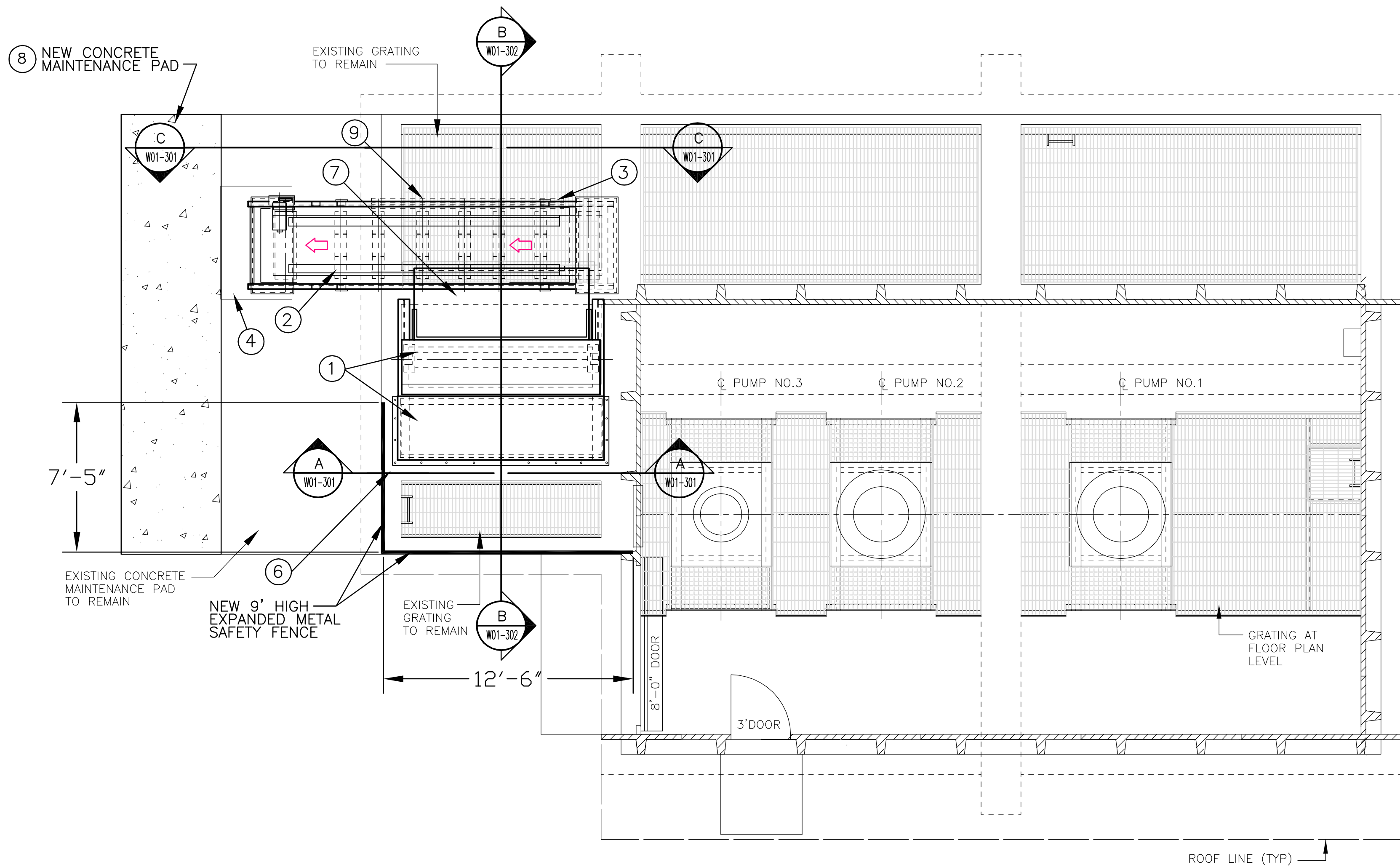
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Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.
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781491		W01-102	

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
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						DRAWINGS VERIFICATION BY	
						DATE	
						CORRECTED BY DATE	
						MICRO—FILM INFORMATION	
						RECORDED BY DATE	
						NO.	



KEYED NOTES:

- 1 INSTALL IDI MECHANICAL BAR SCREEN CS 587 S/N 56801H01, FURNISHED BY OWNER, LOCATED ON PROJECT SITE. COMPLETE IN PLACE WITH ALL APPURTENANCES, INCLUDING ELECTRICAL POWER AND CONTROLS. BAR SCREEN ASSEMBLY MODIFICATIONS & INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS DRAWINGS AND DIRECTION. NEW DEAD PLATE AND BAR RACK SHALL BE OBTAINED FROM THE BAR SCREEN MANUFACTURER. SEE SPEC SECTION 11331.
- 2 FURNISH AND INSTALL NEW CONVEYOR BELT PER SPEC. SECTION 14550 SET IN PLACE AS SHOWN AND AS DIRECTED BY THE CONVEYOR MANUFACTURER. BELT MANUFACTURER AND BAR SCREEN MANUFACTURER TO COORDINATE ASSEMBLY EFFORTS TO COMPLETE THE ENTIRE INSTALLATION READY TO OPERATE CORRECTLY. SEE NOTE 7.
- 3 FURNISH AND INSTALL SUPPORT STRUCTURAL BEAMS/BRACES TO SUPPORT AND ANCHOR EQUIPMENT, (W01-302, SEC B-B) AND STRUCTURAL DRAWINGS.
- 4 SCREENINGS BIN TO BE FURNISHED AND PROVIDED TO THE CONTRACTOR BY THE OWNER. CONTRACTOR TO VERIFY THAT THE BIN WILL FIT UNDER DISCHARGE END OF CONVEYOR AS INTENDED.
- 5 EXISTING MECHANICAL BAR SCREEN ASSEMBLY AND GUARDRAILS TO BE DISCONNECTED AND REMOVED TO SALVAGE PER OWNERS' DIRECTION. SEE SHEET W01-102 AND ELECTRICAL DRAWINGS.
- 6 SAW-CUT AND REMOVE EXISTING CONCRETE SLAB/BELT AS SHOWN ON SECTION B-B, SHEET W01-302. TO PROVIDE 7'-4" CLEAR OPENING FOR NEW BAR SCREEN. COAT EXPOSED CUT SURFACES PER SPECS. SEE PLANS ON SHEET W01-102.
- 7 CONTRACTOR SHALL PROVIDE THE DISCHARGE PAN EXTENSION NECESSARY TO TRANSFER SCREENINGS FROM BAR SCREEN TO BELT CONVEYOR INLET HOPPER AS APPROVED BY THE BAR SCREEN & CONVEYOR MANUFACTURER.
- 8 CONSTRUCT NEW 6" THK. x 5'-0" WIDE CONCRETE PAD x LENGTH TO MATCH EXISTING CONCRETE PAD AT DROP END OF BELT SCREENINGS CONVEYOR. SEE STRUCTURAL DRAWINGS.
- 9 REMOVE EXISTING CHAINLINK FENCE. AROUND EXISTING BAR SCREEN. REINSTALL AS DIRECTED BY OWNER.

MOTOR ROOM GROUND/FLOOR PLAN
SCALE: 1/4"= 1'-0"



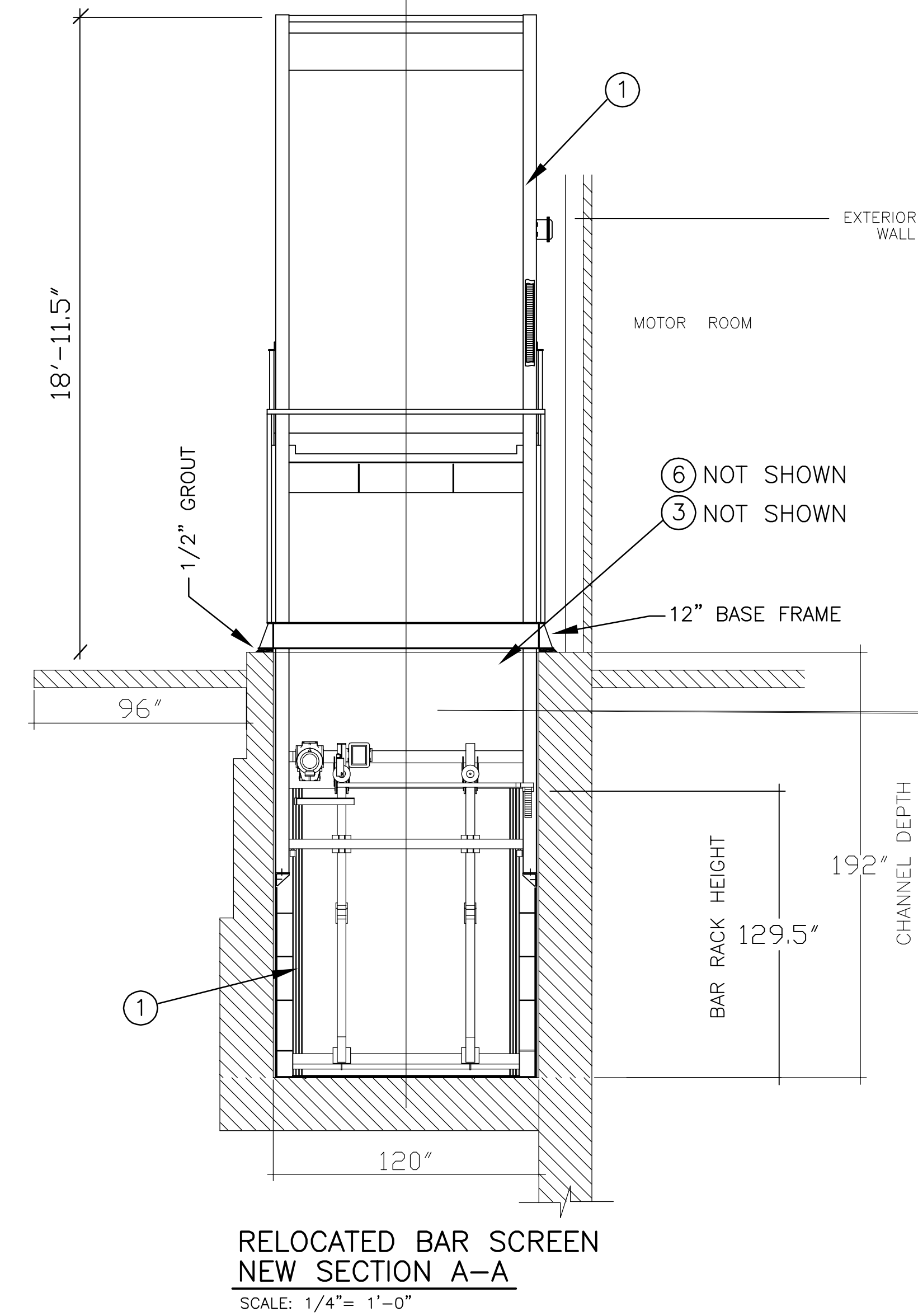
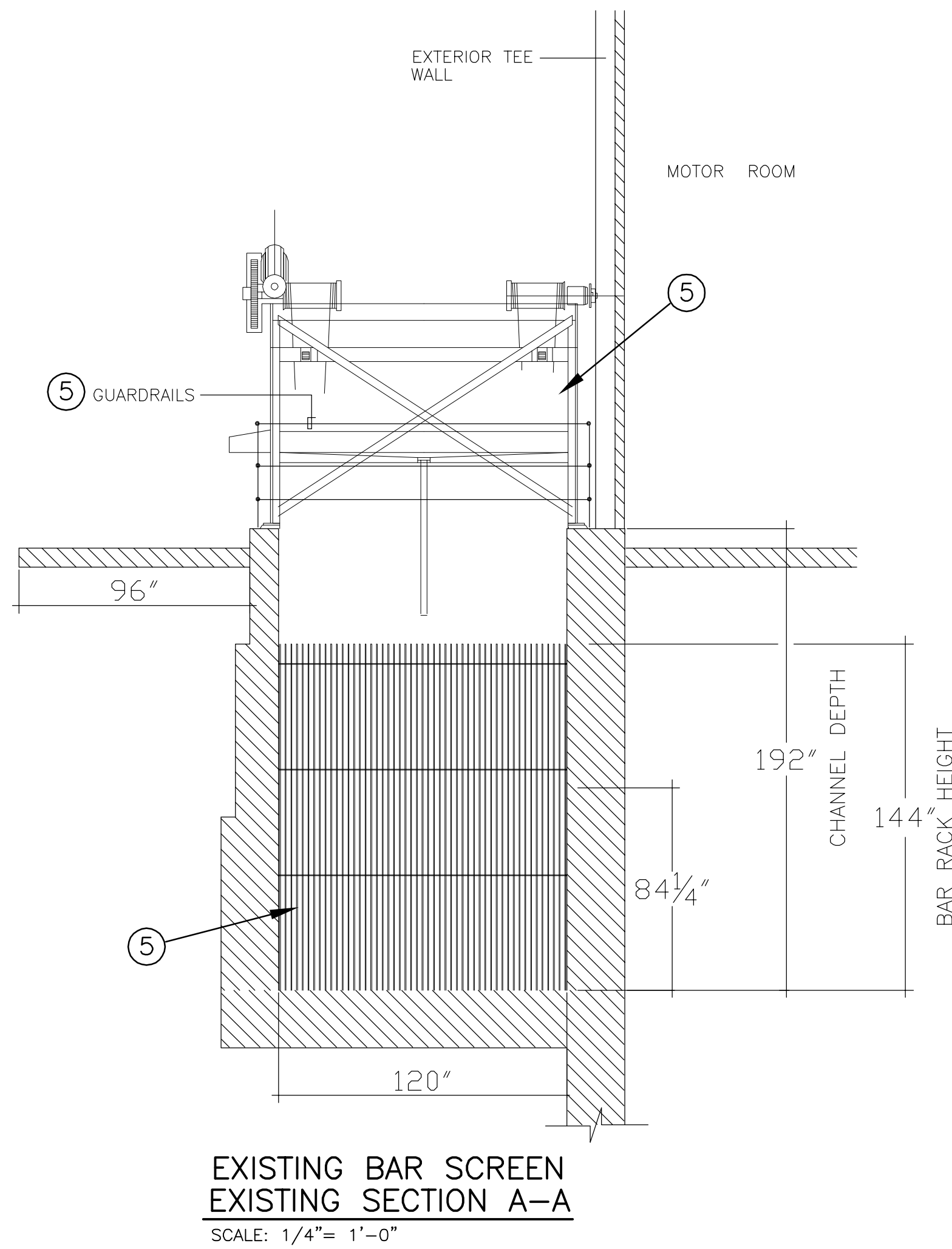
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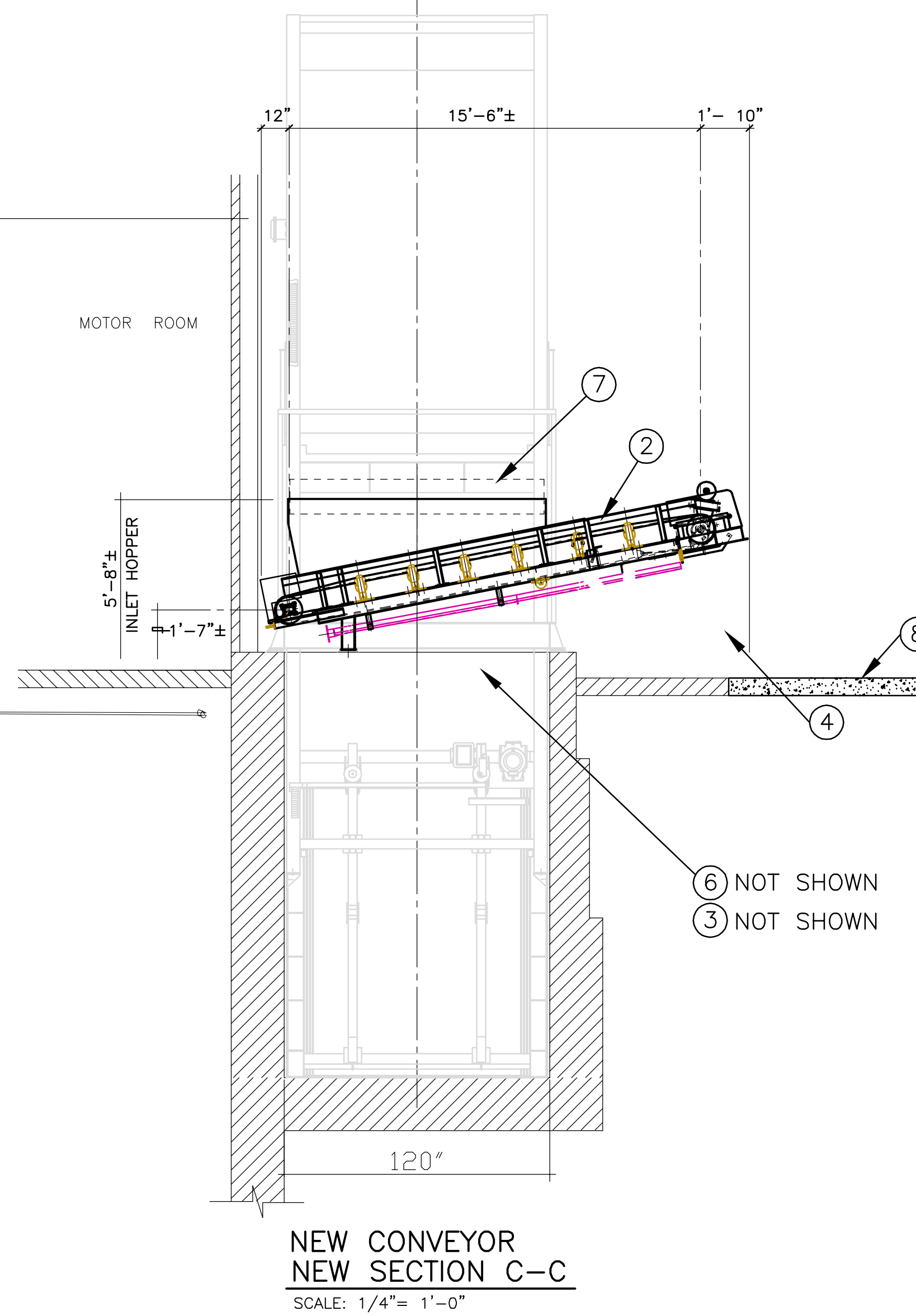
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CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT			
TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I BELL STATION NO. 37 - NEW GROUND / FLOOR PLAN BAR SCREEN / CONVEYOR MODIFICATIONS			
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr. Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
781491		W01-103	

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE		CONTRACTOR	
				STARTED BY	DATE
				INSPECTOR'S	DATE
				FIELD PLAN BY	DATE
				VERIFICATION BY	DATE
				CORRECTED BY	DATE
ENGINEER'S SEAL		MICRO-FILM INFORMATION			
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				NO.	



NOTE: VERIFY ALL BAR SCREEN DIMENSIONS WITH THE MANUFACTURER
SEE DWG. W01-103 FOR KEYED NOTES



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Design Review Committee	City Engineer Approval	Mo./Day/Yr.	
City Project No.	Zone Map No.	Sheet	Of
781491		W01-301	

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
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						STARTED BY	DATE
						INSPECTOR'S	DATE
						FIELD	DATE
						VERIFICATION BY	DATE
						CORRECTED BY	DATE
						MICRO-FILM INFORMATION	
						RECORDED BY	DATE
						NO.	

KNIFEGATE
VALVE

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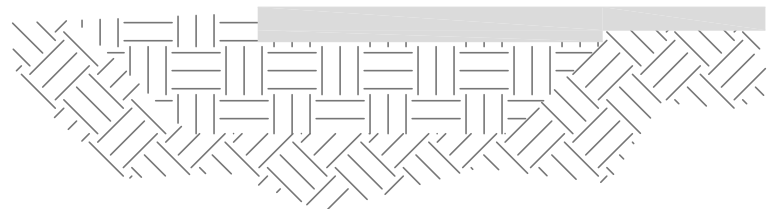
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moisture content) and compacted to not less than 95% of

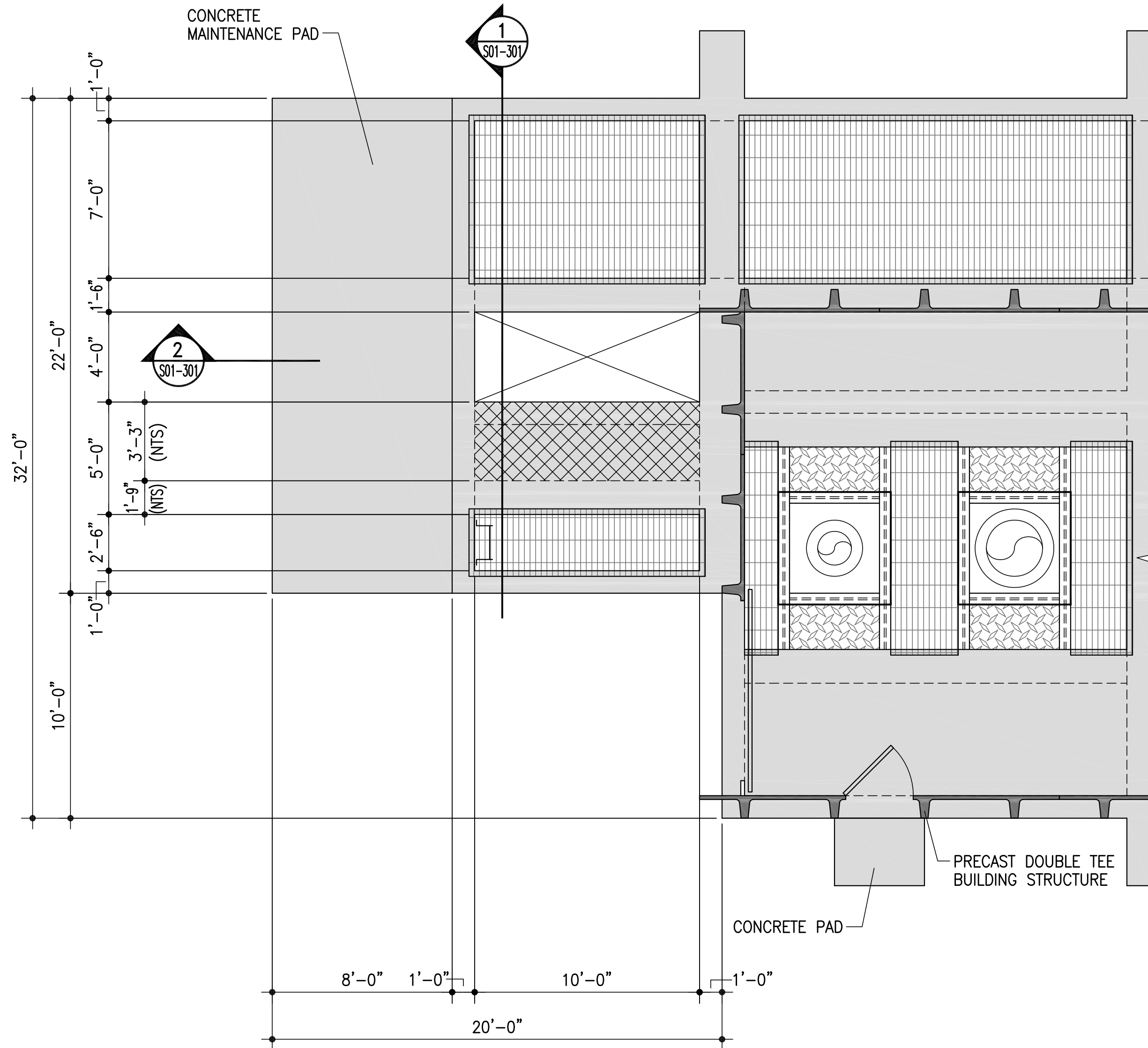
imported material having the required properties shall be used.

to be compacted, add required water and mix as necessary to

QUALITY CONTROL. Maximum den
contents shall be determined in accordance with ASTM D1557.
Density of in-place material shall be determined in accordance
with ASTM D1556 or D2922. Gradations of materials shall be
determined in accordance with ASTM D422. Liquid limits, plastic
limits and plasticity indices shall be determined in accordance
with ASTM D4318.



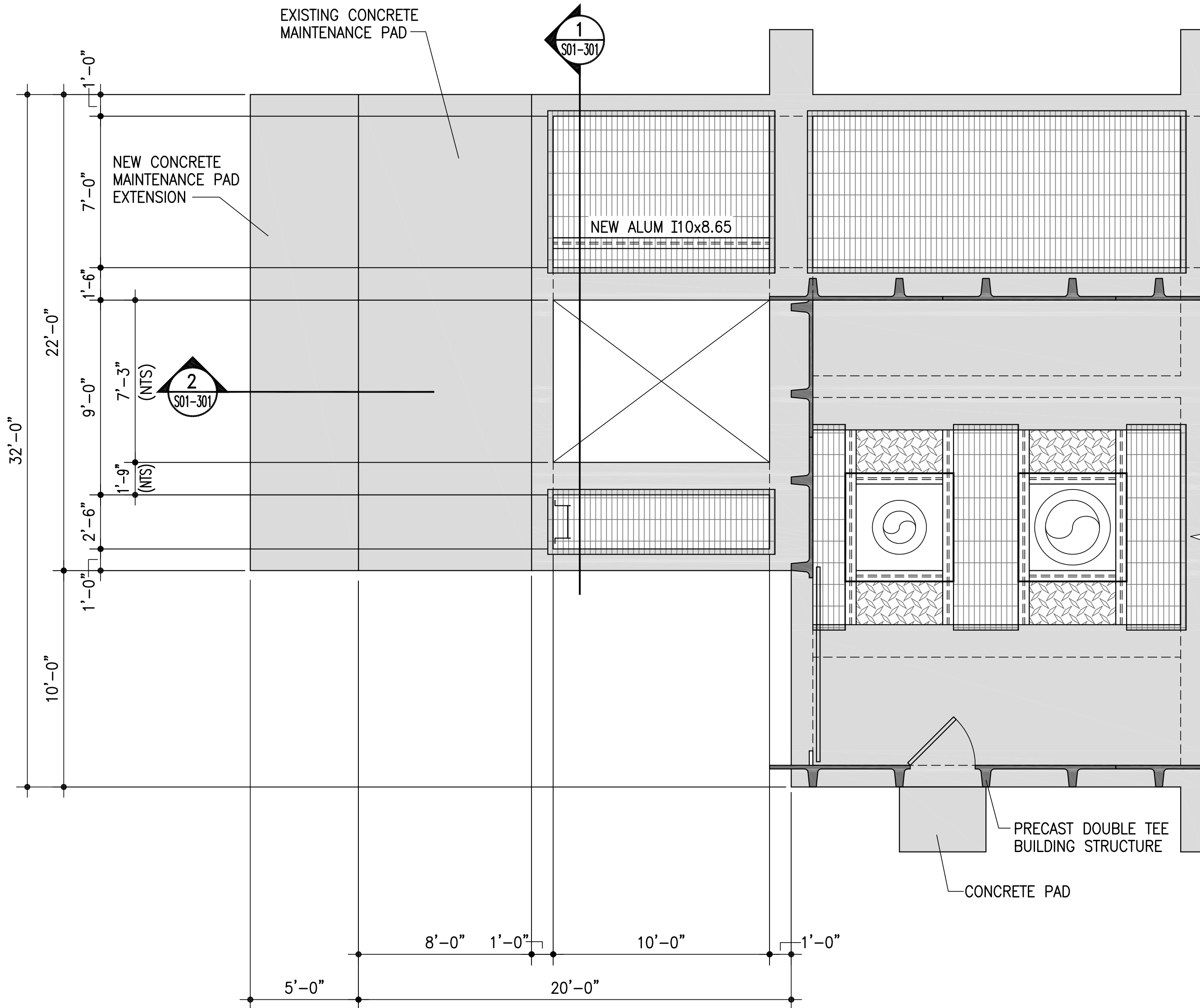
EXISTING / DEMOLITION PUMP STATION PLAN



SCALE: 1/4" = 1' 0"



REVISED PUMP STATION PLAN



SCALE: 1/4" = 1' 0"



GENERAL NOTES

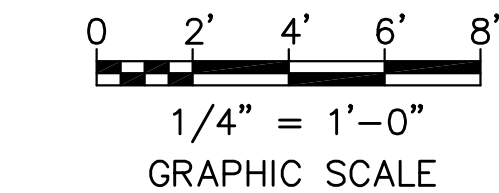
1. Dimensions shown are based on record drawings of the existing Pump Station. Contractor shall verify and adjust dimensions as required for all submittals and/or work to be performed.
2. Prior to commencement of construction activities, Contractor shall inspect the existing structures for any signs of cracking or damage and submit the findings to the Engineer for record. Contractor shall take all precautions necessary during demolition activities to ensure no damage occurs to the existing structure to remain in place. Any damage which occurs to the existing structure due to improper demolition and/or construction techniques shall be repaired to the approval of the Engineer. All costs associated with the repair shall be the responsibility of the Contractor.
3. Contractor shall coat all exposed cut areas of concrete using an epoxy sealer such as "L&M Construction Chemicals - Durathane HS/VOC" or an approved alternate.

LEGEND

- Existing concrete to be removed. See General Note #3.
- Existing concrete wall or slab structure.
- Existing metal grating.

RECORD DRAWING

DATE: AUG 10, 2009	ENGINEER C. BACCHUS
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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I
BELL STATION NO.37 MODIFICATIONS
STRUCTURAL PLANS

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 781491	Zone Map No.	Sheet S01-101	Of

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE		CONTRACTOR	DATE
				INSPECTED BY	DATE
				ACCEPTANCE BY	DATE
				VERIFICATION BY	DATE
				DRAWINGS	DATE
				CORRECTED BY	DATE
				MICRO-FILM INFORMATION	
				RECORDED BY	DATE
				NO.	



2 METAL GRATING

CONCRETE BEAM (2)

CONCRETE WALL (2)

S01-101

SCALE: 1/2" = 1' 0"



CONCRETE
MAINTENANCE PAD

1

Note: In addition to the keyed notes, see the GENERAL NOTES on Sheet S01-001 for additional requirements.

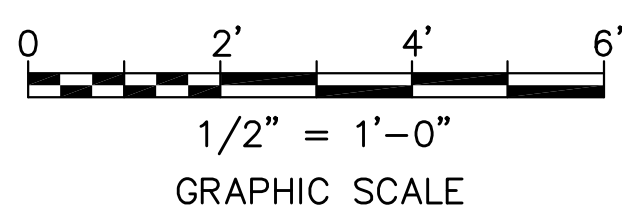
- 1 Earth in place or new compacted fill. See the EARTHWORK SCHEMATIC on sheet S01-001 for requirements.
- 2 Existing pump station structure.
- 3 6" thick slab-on-grade reinforced with #4 each way at 12" on center maximum.
- 4 1/2" thick expansion joint material.
- 5 Aluminum L6x4x3/8x1'-0" (LLV) with 3/8" stiffening plate as shown. Connect to existing concrete wall using 2 ~ 1"Ø stainless steel Hilti Kwik Bolt 3 anchors (or approved alternate). Expansion anchors shall be embedded into concrete wall a minimum of six inches. Provided heavy stainless steel washers.
- 6 Aluminum 110x8.65 conveyor support beam with 1/4" end plates. Connect beam to support angles using 2 ~ 3/4"Ø stainless steel bolts spaced at beam's standard gage. Provide stainless steel heavy washers. Provide new grating saddle clips spaced at 12 inches on center.
- 7 See GENERAL NOTE #3 on Sheet S01-101 for exposed cut concrete requirements.
- 8 Cross hatched area denotes portion of existing structure to be removed and disposed of.

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DATE: AUG 10, 2009	ENGINEER C. BACCHUS
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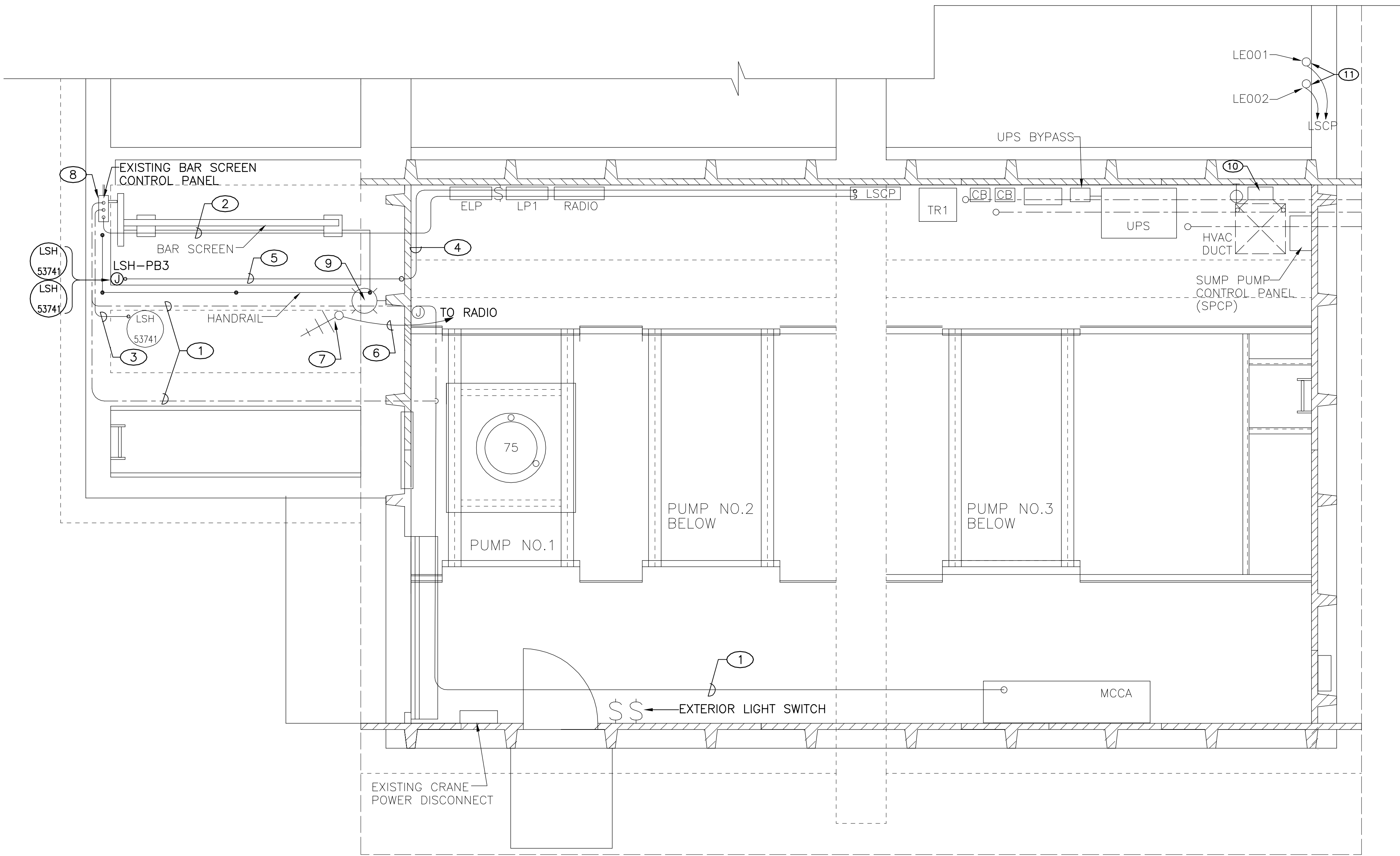


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TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I
BELL STATION NO.37 MODIFICATIONS
STRUCTURAL SECTIONS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 781491	Zone Map No.	Sheet S01-301	Of
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1 ELECTRICAL DEMOLITION
SCALE: 3/8"=1'-0"

GENERAL NOTES

- WHERE CONDUCTORS ARE IDENTIFIED FOR REMOVAL, DISCONNECT AND REMOVE CONDUCTORS TO SOURCE.
- WHERE A SURFACE CONDUIT IS IDENTIFIED FOR REMOVAL, REMOVE EXPOSED CONDUIT TO NEAREST BOX AND PLUG UNUSED OPENINGS IN BOX.
- WHERE AN EMBEDDED CONDUIT IS IDENTIFIED FOR REMOVAL, REMOVE EXPOSED PORTIONS OF CONDUIT. CUT AT PENETRATION, GRIND FLUSH AND GROUT CLOSED.
- CONDUCTORS IDENTIFIED FOR REMOVAL ARE AS INDICATED ON UNVERIFIED RECORD DRAWINGS.
- THE UTILITY WILL INSTALL A TEMPORARY ANTENNA TO MAINTAIN COMMUNICATION DURING CONSTRUCTION. NOTIFY THE UTILITY INSTRUMENTATION SHOP 1 WEEK PRIOR TO DEMOLITION THAT WILL AFFECT COMMUNICATION.

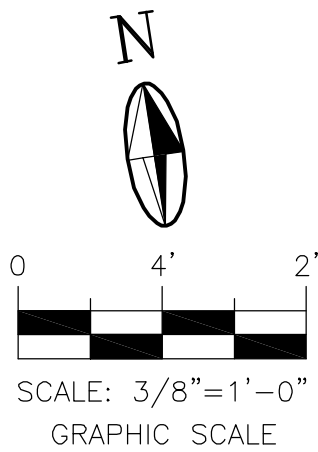
KEYED NOTES

- REMOVE CONDUCTORS, 4 #12 FROM EXISTING BAR SCREEN CONTROL PANEL, (BSCP), TO MCC. REMOVE CONDUIT FROM CONNECTION AT BSCP TO WALL PENETRATION.
- REMOVE CABLE, 3-PAIR TWSH FROM BSCP TO LSCP. REMOVE TWO 3/4" CONDUITS FROM BSCP TO PENETRATION.
- DISCONNECT LEVEL SWITCH CONDUCTORS AT BSCP. REMOVE SWITCH. REMOVE CONDUIT FROM BSCP TO PENETRATION.
- REMOVE LEVEL SWITCH CONDUCTORS, 2 TWSH, FROM LSH-PB3 TO LIFT STATION CONTROL PANEL, (LSCP.) STORE LSH-PB3 AND LEVEL SWITCHES FOR RE-INSTALLATION AFTER BAR SCREEN IS REPLACED.
- REMOVE EXTERIOR PORTION OF 3/4" CONDUIT FROM LSH-PB3 TO LSCP. INTERIOR RUN TO LSCP REMAINS FOR REUSE.
- DISCONNECT ANTENNAL CABLE. REMOVE CABLE CONNECTIONS TO BAR SCREEN STRUCTURE.
- ANTENNA SHOWN HERE BUT MAST IS ANCHORED TO BAR SCREEN STRUCTURE. DISCONNECT ANTENNA MAST SUPPORTS. REMOVE ANTENNA AND MAST. REINSTALL AS SHOWN ON DRAWING E01-101.
- REMOVE BAR SCREEN CONTROL PANEL.
- REMOVE FLOOD LIGHT. REMOVE CONDUCTORS TO J-BOX INSIDE BUILDING.
- RELOCATE BATTERY LIGHT. REINSTALL AS SHOWN ON DRAWING E01-101.
- EXISTING LEVEL ELEMENTS SHALL REMAIN IN OPERATION UNTIL REPLACEMENT ELEMENTS ARE INSTALLED, CONNECTED AND TESTED.

RECORD DRAWING	
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CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT	
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Design Review Committee	City Engineer Approval
City Project No. 781491	Zone Map No.
Last Design Update	
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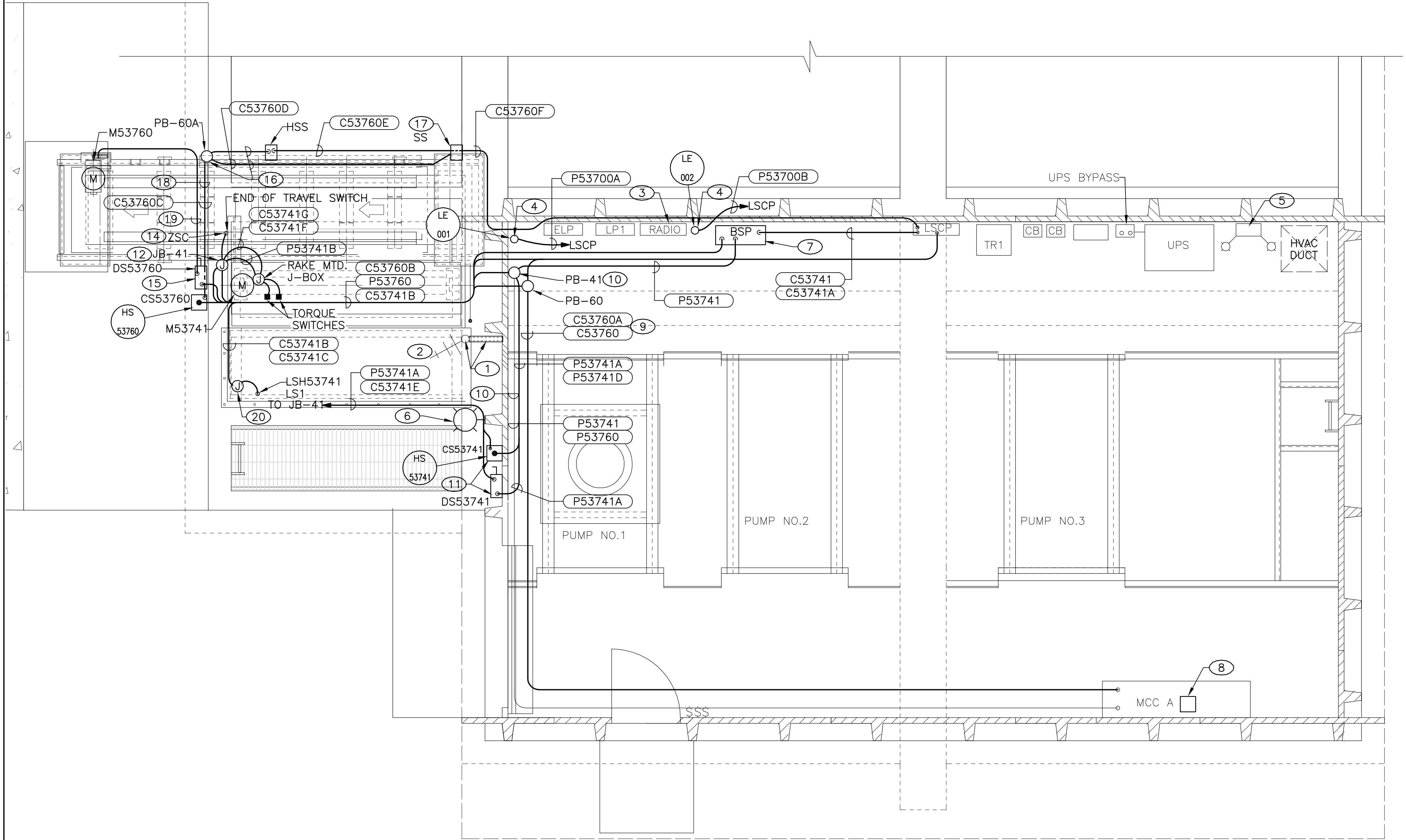
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CONTRACTOR	DATE			FIELD NOTES			
STAKED BY	DATE			BY			
INSPECTED BY	DATE			NO.			
FIELD INSPECTION BY	DATE						
DRAWINGS	DATE						
CORRECTED BY	DATE						
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							

GENERAL NOTES

1. ROUTE AND SECURE CONDUIT TO SCREEN FRAME PER MANUFACTURER RECOMMENDATIONS.
2. ROUTE CONDUITS ALONGSIDE GUARDRAILS, INFLUENT CHANNEL WALLS OR BENEATH EQUIPMENT TO MINIMIZE TRIP HAZARDS.
3. DO NOT SUPPORT CONDUIT RUNS ON EQUIPMENT FRAME EXCEPT AS NOTED.
4. COORDINATE WITH UTILITY INSTRUMENTATION SHOP. THEY WILL AIM THE ANTENNA AFTER INSTALLATION.
5. UTILITY INSTRUMENTATION SHOP WILL FURNISH LEVEL ELEMENT RF CABLES FOR CONTRACTOR INSTALLATION.
6. ROUTE CONDUITS TO AVOID TRIP HAZARDS. ROUTE CONDUITS ALONGSIDE EQUIPMENT, GUARDRAILS OR OVERHEAD ABOVE 8' AFF.

KEYED NOTES

1. INSTALL SS STRUT BRACKETS FOR ANTENNA MAST SUPPORT. ANCHOR TO BUILDING WALL WITH THROUGH BOLTS. USE SS ANCHORS INTO ROOF SLAB. MOUNT ANTENNA AT SAME HEIGHT AS BEFORE REMOVAL. SEE DETAIL ON E01-501.
2. AIM ANTENNA AS DIRECTED BY OWNER FOR BEST COMMUNICATIONS. REROUTE EXISTING ANTENNA CABLE.
3. EXISTING RADIO ENCLOSURE. INSTALL ANTENNA SURGE ARRESTOR. CONNECT TO EXISTING RADIO. CONNECT EXISTING ANTENNA CABLE TO ARRESTOR.
4. INSTALL REPLACEMENT LEVEL ELEMENTS AT EXISTING FLOOR PENETRATION. MOUNT ON SS STRUT ANCHORED TO FLOOR SLAB. RUN CONDUIT FROM ELEMENT TO WALL, THEN ON WALL TO LSCP.
5. RELOCATE EXISTING BATTERY LIGHT. REMOUNT AT SAME HEIGHT AS EXISTING, BUT CLEAR OF HVAC DUCT.
6. MOUNT AREA LIGHT ON WALL AT 10' AFG. RUN CONDUIT TO EXISTING J-BOX. RECONNECT TO EXISTING LIGHTING CIRCUIT.
7. MOUNT REPLACEMENT (OWNER FURNISHED) BAR SCREEN CONTROL PANEL, BSP, ON WALL IN INDICATED AREA. LOCATE SO DISCONNECT HANDLE IS AT 48" AFF.
8. INSTALL MCC UNIT WITH STARTER AND DOOR FOR CONVEYOR.
9. EXISTING CONDUIT BETWEEN MCC AND LSCP. PULL CONDUCTORS FOR CONVEYOR START CONTROL.
10. INSTALL PULLBOX, PB-41, ON EXISTING BAR SCREEN POWER CONDUIT. RUN CONDUITS FROM PB-41 TO BSP AND TO DISCONNECT SWITCHES FOR BAR SCREEN AND CONVEYOR.
11. BUILD SS STRUT STAND. MOUNT DISCONNECT SWITCH AND CONTROL STATION FOR BAR SCREEN.
12. INSTALL 6" SS J-BOX, JB-41 ON BAR SCREEN FRAME AT LOCATION RECOMMENDED BY BAR SCREEN MANUFACTURER. RUN CONDUITS FROM BAR SCREEN DISCONNECT SWITCH AND FROM LSCP TO JB-41.
13. RUN CONDUITS ON WALL; CONTINUE BESIDE BAR SCREEN GUARD AND FRAME TO JB-41.
14. INSTALL END OF TRAVEL LIMIT SWITCH. CONNECT TO BSP; ROUTE VIA JB-41.
15. MOUNT DISCONNECT SWITCH AND LOCAL CONTROL STATION FOR CONVEYOR IN LOCATION SHOWN.
16. INSTALL PULLBOX, PB-60, ON SS STRUT. RUN CONDUITS FROM PB-60 TO ROPE SAFETY SWITCH AND TO ZERO SPEED SWITCH.
17. MOUNT CONVEYOR ZERO SPEED SWITCH
18. RUN CONDUIT FROM PB-60 TO CONTROL STATION. ROUTE AS NOTED FOR MOTOR POWER CONDUIT.
19. RUN CONDUIT FROM CONVEYOR DISCONNECT SWITCH TO GRADE, THEN ALONGSIDE INFLUENT CHANNEL WALL AND BENEATH CONVEYOR. CONTINUE CONDUIT ON CONVEYOR SUPPORTS TO MOTOR. CONNECT TO MOTOR WITH LFMC.
20. INSTALL 6" X 6" NEMA 4X SS LEVEL SWITCH J-BOX, LS-JB. SUSPEND LEVEL SWITCHES FROM SS CABLE GRIPS INSTALLED IN LS-JB. LAND ALL CABLE CONDUCTORS ON TERMINAL BOARDS.

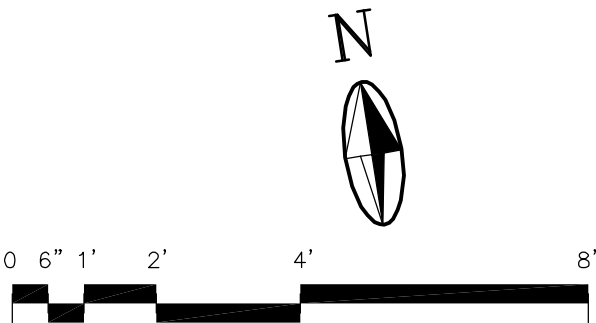


STATION NO. 37 ELECTRICAL
SCALE: 3/8"=1'-0"

RECORD DRAWING

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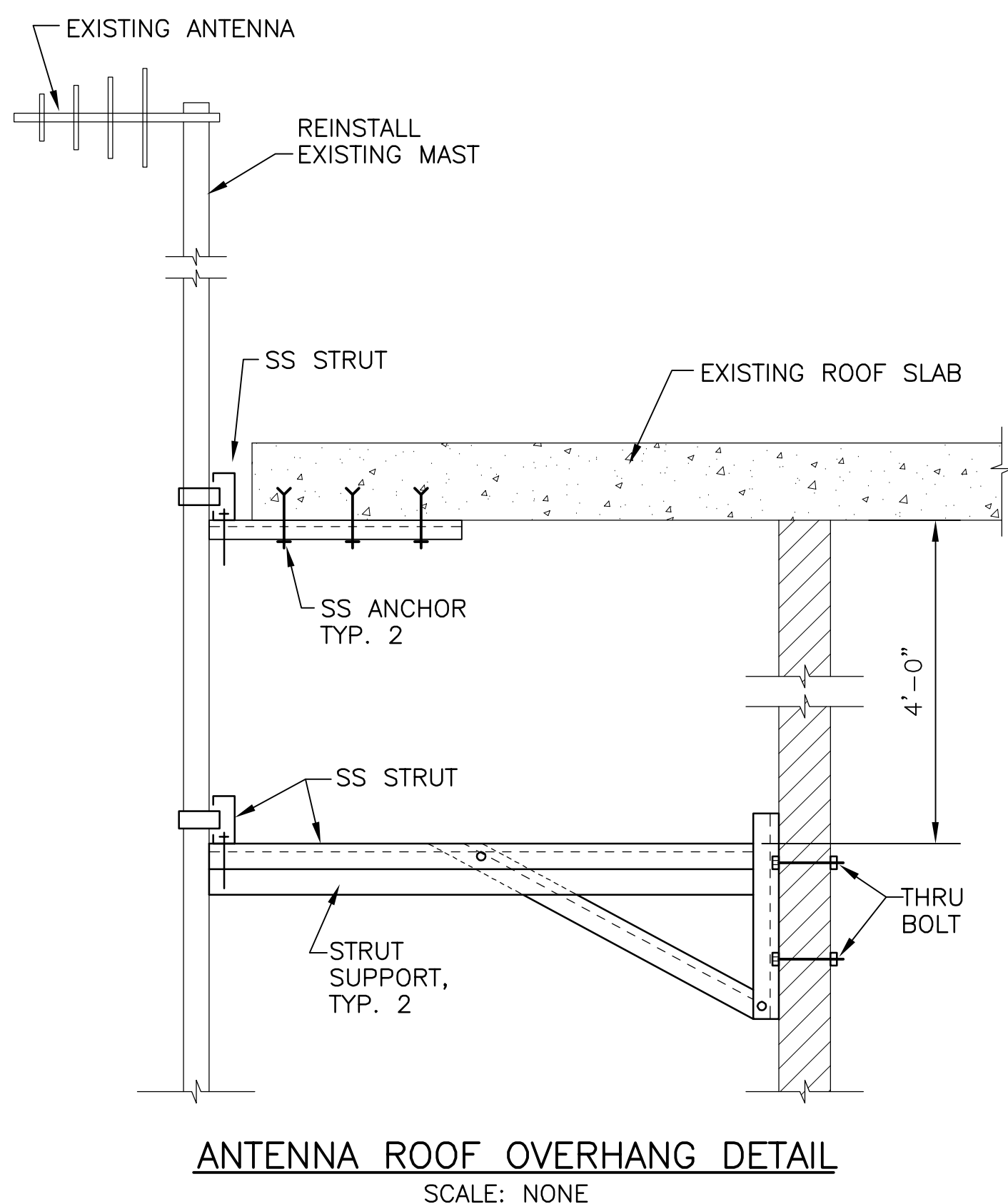
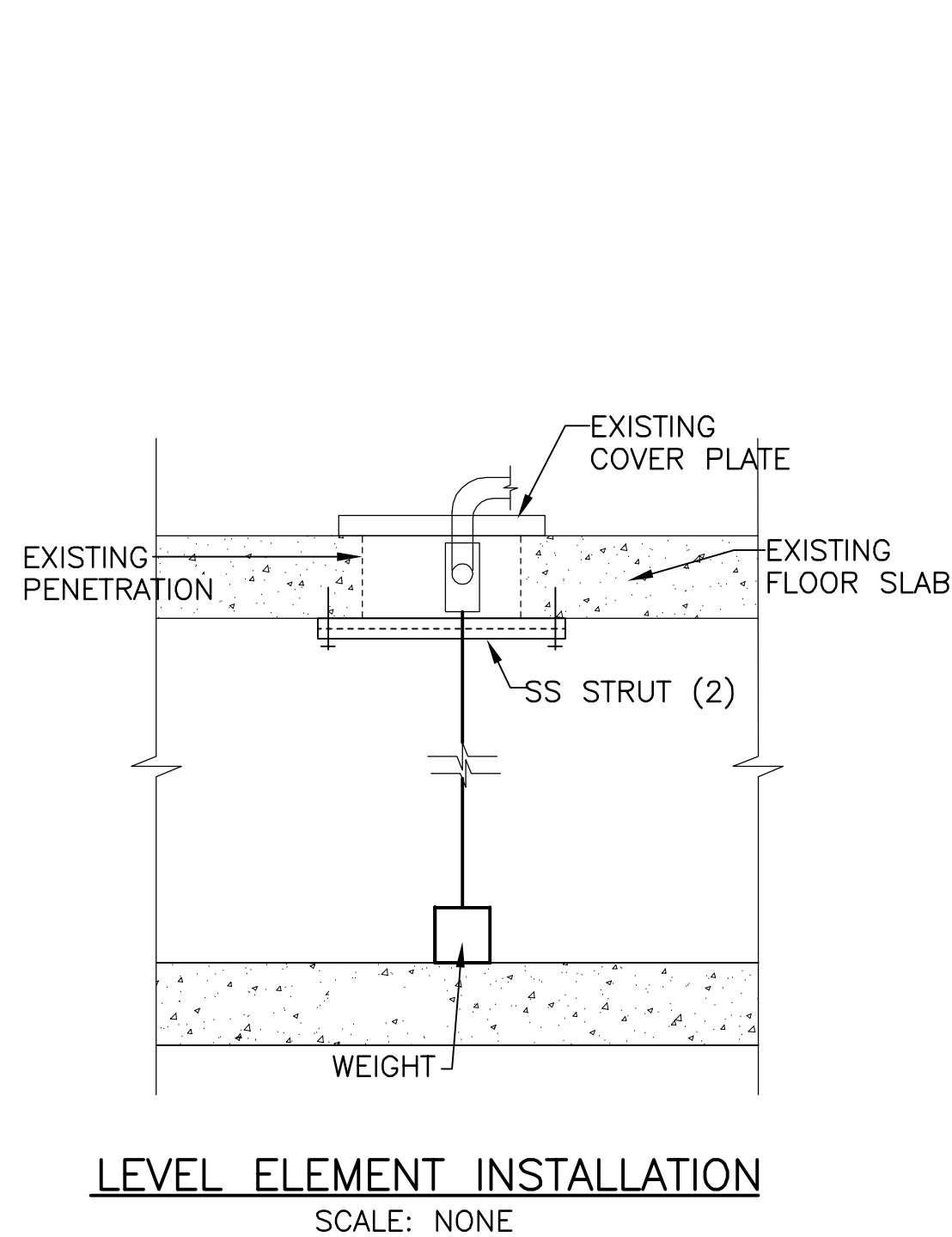
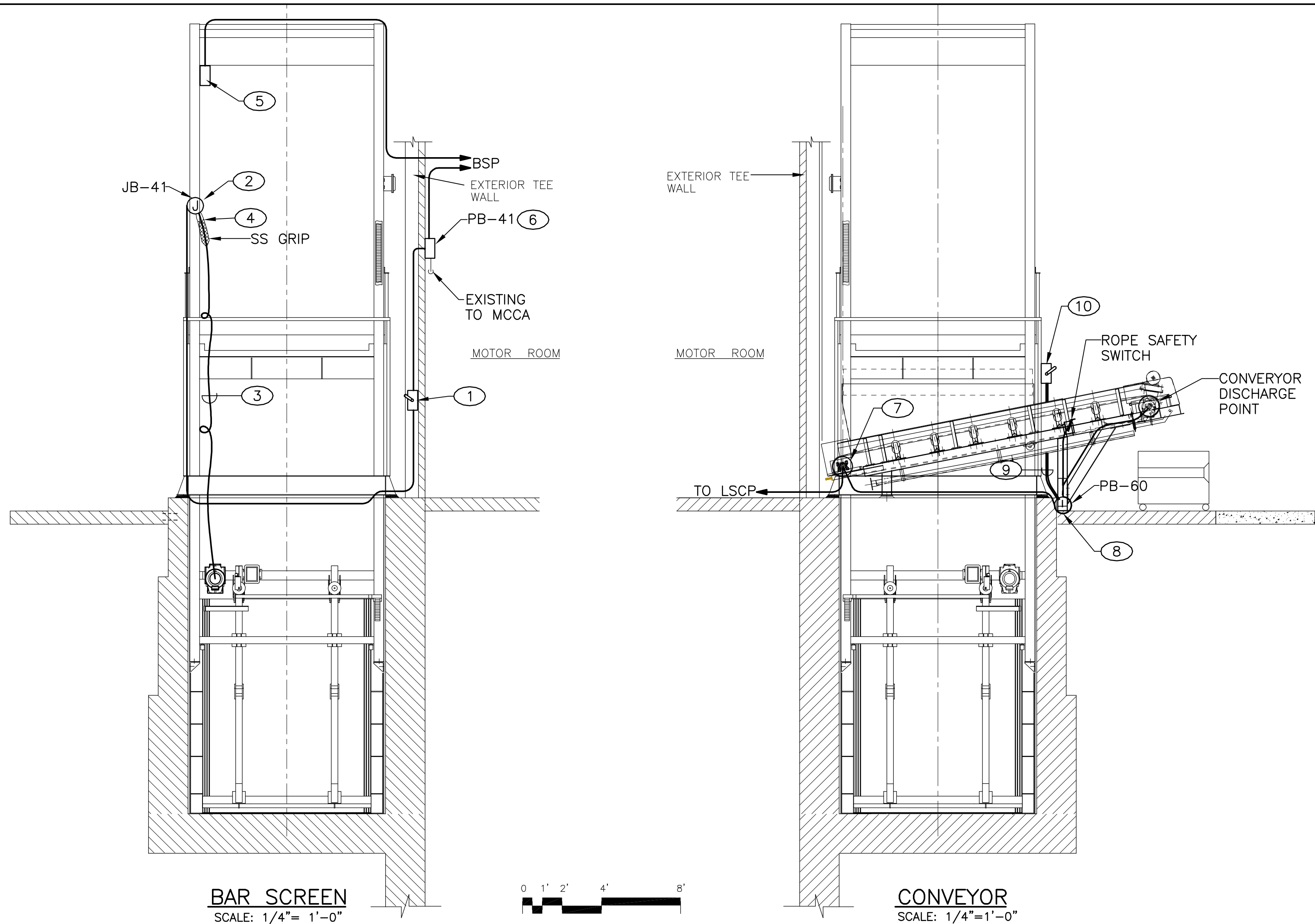
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CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT			
TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I BELL STATION NO. 37 ELECTRICAL PLAN BAR SCREEN/CONVEYOR MODIFICATIONS			
Design Review Committee	City Engineer Approval	Mo./Day/Yr. Mo./Day/Yr.	
Last Design Update			
City Project No.	Zone Map No.	Sheet	Of
781491		E01-101	



KEYED NOTES

- 1 BUILD SS STRUT STAND. MOUNT DISCONNECT SWITCH AND CONTROL STATION FOR BAR SCREEN.
- 2 INSTALL 6" SS J-BOX, JB-41 ON BAR SCREEN FRAME AT LOCATION RECOMMENDED BY BAR SCREEN MANUFACTURER. RUN CONDUIT FROM BAR SCREEN DISCONNECT SWITCH TO JB-41.
- 3 REPLACE BAR SCREEN POWER AND CONTROL CABLES. LENGTH AS RECOMMENDED BY BAR SCREEN MANUFACTURER, BUT MINIMUM 50' OF EACH CABLE. CONNECT TO EXISTING BAR SCREEN J-BOX MOUNTED ON RAKE FRAME. TERMINATE ALL CABLE CONDUCTORS ON TERMINAL BOARDS.
- 4 CONNECT POWER AND CONTROL CABLES TO JB-41. CUT TO LENGTH REQUIRED FOR RAKE TRAVEL. USE CABLE CONNECTOR WITH SS BASKET TYPE GRIPS AT JB-41. SUPPORT CABLES AT RAKE FRAME TO AVOID INTERFERENCE WITH RAKE TRAVEL.
- 5 INSTALL PROXIMITY STYLE LIMIT SWITCH FOR RAKE END OF TRAVEL. LOCATE AS RECOMMENDED BY THE RAKE MANUFACTURER.
- 6 INSTALL PULLBOX, PB-41, ON EXISTING BAR SCREEN POWER CONDUIT TO MCCA. RUN CONDUIT FROM PB-41 TO BSP.
- 7 ZERO SPEED SWITCH AND BRACKET SHIPPED LOOSE WITH CONVEYOR. DRILL AND TAP CONVEYOR BELT SHAFT. MOUNT SWITCH. MAKE CONNECTIONS WITH LPMC.
- 8 INSTALL PULLBOX, PB-60, ON SS STRUT. RUN CONDUITS FROM PB-60 TO ROPE SAFETY SWITCH AND TO ZERO SPEED SWITCH.
- 9 RUN CONDUITS FROM CONVEYOR DISCONNECT SWITCH AND CONTROL STATION AT GRADE ALONGSIDE INFLUENT CHANNEL WALL BENEATH CONVEYOR. THEN RUN ON CONVEYOR SUPPORTS, POWER CONDUIT TO MOTOR AND CONTROL CONDUIT TO PULLBOX.
- 10 MOUNT DISCONNECT SWITCH AND CONTROL STATION FOR CONVEYOR ON SS STRUT. SHOWN HERE BUT MOUNT AT 48" ABOVE STANDING SURFACE.

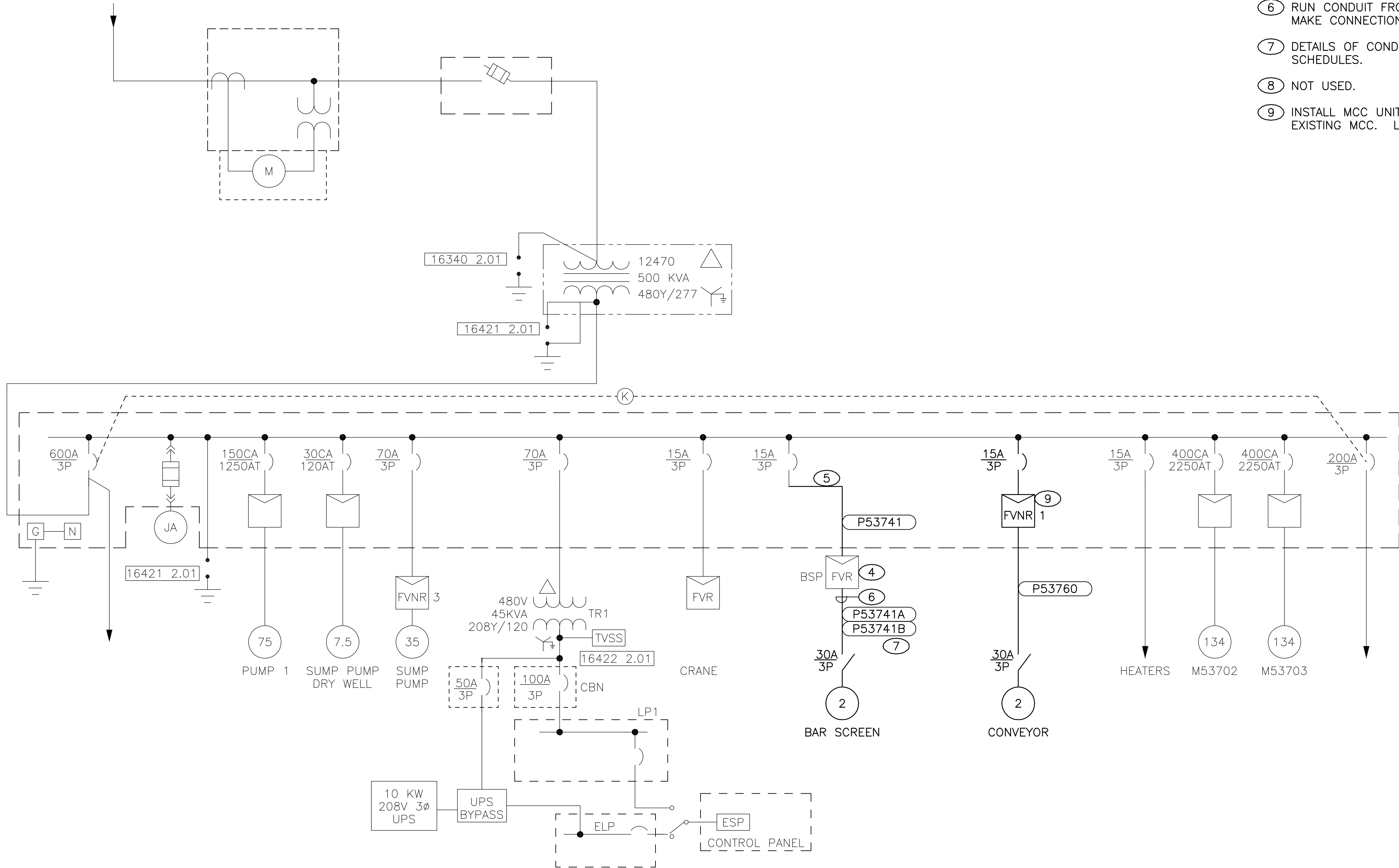
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CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT	
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Design Review Committee	City Engineer Approval
City Project No.	Zone Map No.
781491	
Sheet	Of
E01-501	

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	BY	DATE					FIELD NOTES	BY	DATE					
INSPECTED BY	DATE	APPROVED BY	DATE					NO.							
FIELD		DATE													
DRAWINGS		DATE													
CORRECTED BY	DATE														
MICRO-FILM INFORMATION															
RECORDED BY	DATE														
NO.															



ONE-LINE DIAGRAM
N.T.S.

GENERAL NOTES

- COORDINATE WITH OWNER FOR DELIVERY OF EXISTING HARDWARE CONTROL PANEL.
- BACK PANEL WAS REMOVED FROM REPLACEMENT BAR SCREEN CONTROL PANEL ENCLOSURE TO FACILITATE CONTROL PANEL REMOVAL. REASSEMBLE AND TEST ALL FUNCTIONS PRIOR TO INSTALLATION.

KEYED NOTES

- NOT USED.
- NOT USED.
- NOT USED.
- INSTALL REPLACEMENT BAR SCREEN CONTROL PANEL.
- INTERCEPT EXISTING CONDUIT. REROUTE FROM MCC TO LOCATION OF REPLACEMENT CONTROL PANEL.
- RUN CONDUIT FROM REPLACEMENT CONTROL PANEL TO BAR SCREEN. MAKE CONNECTION FOR MOTOR POWER.
- DETAILS OF CONDUIT AND CONDUCTORS ARE SHOWN IN CONDUIT SCHEDULES.
- NOT USED.
- INSTALL MCC UNIT WITH STARTER MCP, CPT, ACCESSORIES, AND DOOR IN EXISTING MCC. LOCATE IN BUSSED SPACE BELOW PUMP 2 STARTER.

RECORD DRAWING

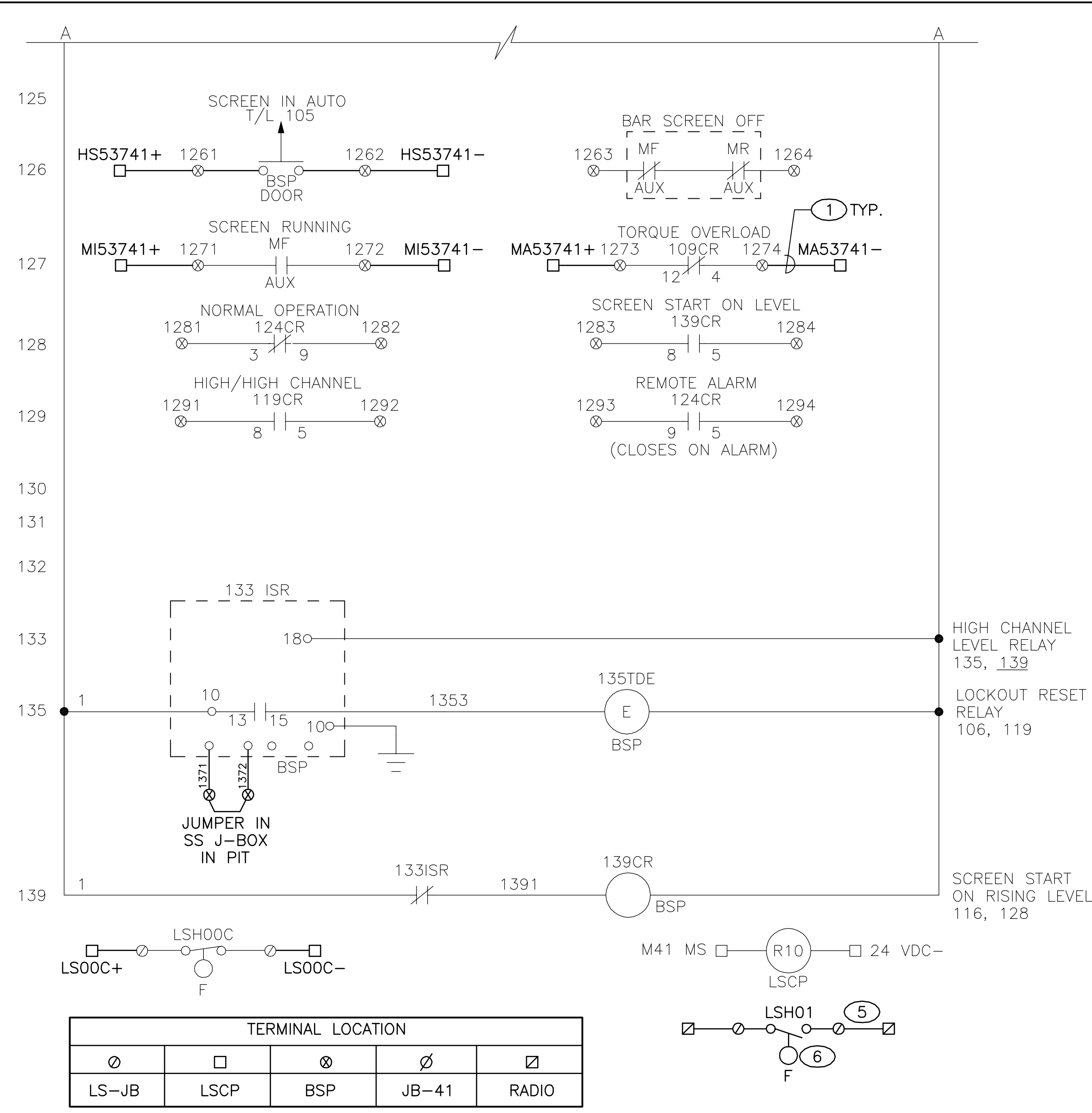
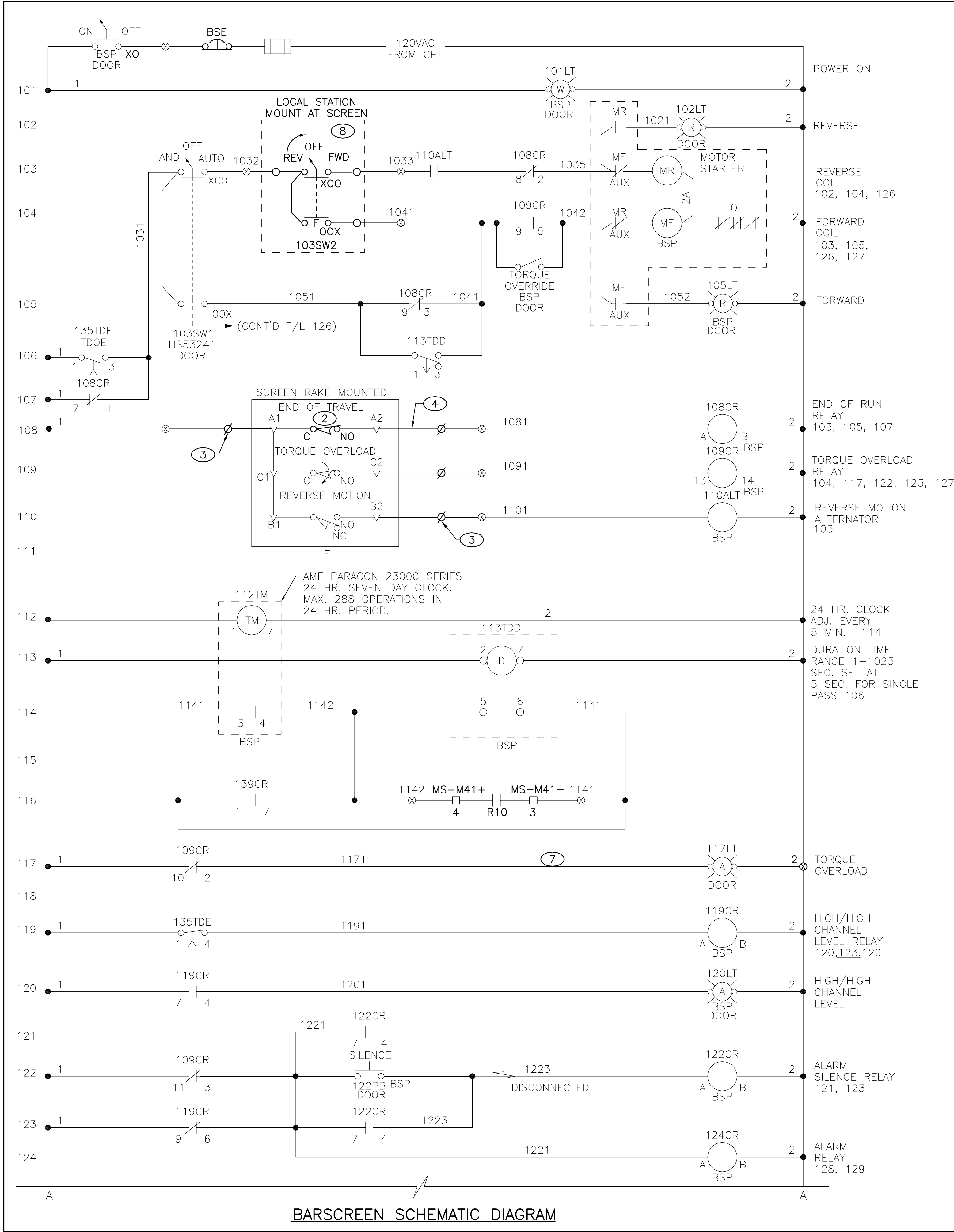
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TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I BELL STATION #37 ELECTRICAL ONE-LINE DIAGRAM							
Design Review Committee		City Engineer Approval		Last Design Update	Mo./Day/Yr.		
					Mo./Day/Yr.		
City Project No. 781491				Zone Map No.		Sheet Of E01-601	

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FIELD	DATE						
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DRAWINGS	DATE						
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MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							



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CONTRACTOR	DATE	NO.	BY	NO.	BY	NO.	BY
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INSPECTED BY	DATE						
FIELD ADJUSTED BY	DATE						
DESIGNED BY	DATE						
DRAWN BY	DATE						
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RECORDED BY	DATE						
NO.		NO.		NO.		NO.	

REVISIONS

NO.	DATE	REMARKS
1	JAN. 2008	DESIGN
2	JAN. 2008	DESIGN
3	JAN. 2008	DESIGN

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I
BELL STATION #37
BAR SCREEN CONTROL DIAGRAM

Design Review Committee City Engineer Approval

City Project No. 781491 Zone Map No. Sheet Of E01-610



DESCRIPTION	TAG	*	○	□	∅	⊗
CONVEYOR	M53760	53760	MCC	LSCP	ROPE SAFETY SWITCH	ZERO SPEED SWITCH

SIGNAL/VOLTAGE SEPARATION IN INCHES							
FROM LEVEL	TO LEVEL						
	4 - 20 mA	24 DI	24 DO	120 DO	120 PWR	<=480	>480
4 - 20 mA	0	1	6	6	6	26	36
24 DI	1	0	0	6	6	18	36
24 DO	6	0	0	0	0	8	36
120 DO	6	6	0	0	0	8	12
120 PWR	6	6	0	0	0	8	12
<=480	26	18	8	8	8	0	0
>480	36	36	36	12	12	0	0

NAMEPLATE SCHEDULE		
NUMBER	LOCATION	TEXT
1	DISCONNECT SWITCH FOR BAR SCREEN	DS53741, BAR SCREEN
2	BAR SCREEN CONTROL STATION	CS53741, BAR SCREEN
3	MCC STARTER FOR CONVEYOR	M53760, CONVEYOR
4	DISCONNECT SWITCH FOR CONVEYOR	DS53760, CONVEYOR
5	CONVEYOR CONTROL STATION	CS53760, CONVEYOR
6	CONVEYOR CONTROL STATION	HOLD START BUTTON UNTIL BELT IS AT SPEED

- ① INSTALL MCC UNIT WITH FVNR STARTER IN EXISTING MCC.
- ② PROVIDE CONTROL POWER TRANSFORMER, CPT, WITH 100VA EXTRA CAPACITY.
- ③ CONNECT ROPE ACTUATED SAFETY SWITCH WITH AC AND DC SETS OF DRY CONTACTS.
- ④ CONNECT CPT POWER TO THE ZERO SPEED SWITCH.
- ⑤ EXISTING SPARE RELAY INSTALLED IN EXISTING CONTROL PANEL. CONNECT AND RE-LABEL TO INDICATE CONVEYOR START RELAY.
- ⑥ EXISTING SPARE TERMINAL BOARDS IN EXISTING CONTROL PANEL. CONNECT; RE-LABEL TO IDENTIFY CONNECTED INPUT, TYPICAL THIS SYMBOL.
- ⑦ INSTALL NAMEPLATE: HOLD START PUSHBUTTON UNTIL CONVEYOR IS AT SPEED.

CONDUIT NUMBER	ORIGIN	DESTINATION	CONDUIT SIZE	CONDUCTORS	NOTES
P53741	MCCA	BAR SCREEN CONTROL PANEL, BSP	3/4"	3 #10, #12 G.	EXTEND EXIST. CONDUIT VIA PB-41
P53741A	BAR SCREEN CONTROL PANEL, BSP	BAR SCREEN J-BOX, JB-41	3/4"	3 #10, #12 G	VIA PB-41 AND DS53741
P53741B	SCREEN J-BOX, JB-41	BAR SCREEN MOTOR, M53741		4C #10, SJOW CORD	VIA RAKE MOUNTED J-BOX
P53760	MCCA, CONVEYOR STARTER	CONVEYOR MOTOR, M53760	3/4"	3 #10, #12 G	VIA PB-41 AND DS53760
C53700A	LIFT STATION CONTROL PANEL, LSCP	LE001, WET WELL LEVEL ELEMENT 001	1"	RF CABLE	INSTALL UTILITY FURNISHED CABLE TO LIT537000A IN LSCP. UTILITY WILL CONNECT.
C53700B	LIFT STATION CONTROL PANEL, LSCP	LE002, WET WELL LEVEL ELEMENT 002	1"	RF CABLE	INSTALL UTILITY FURNISHED CABLE TO LIT537000B IN LSCP. UTILITY WILL CONNECT.
C53741	BAR SCREEN CONTROL PANEL, BSP	LIFT STATION CONTROL PANEL, LSCP	1"	3 TWSH	HS, MI, MA
C53741A	LIFT STATION CONTROL PANEL, LSCP	BAR SCREEN CONTROL PANEL, BSP	3/4"	TWSH	MS
C53741B	LIFT STATION CONTROL PANEL, LSCP	CHANNEL LEVEL SWITCH, LSH53740	3/4"	TWSH	
C53741C	BAR SCREEN CONTROL PANEL, BSP	LS1, CHANNEL HIGH LEVEL SWITCH	3/4"	2 #14 THWN, G.	
C53741D	BAR SCREEN CONTROL PANEL, BSP	BS CONTROL STATION, CS53741	3/4"	7 #14 THWN, G.	
C53741E	BS CONTROL STATION, CS53741	BAR SCREEN J-BOX, JB-41	3/4"	4 #14 THWN, G.	
C53741F	BAR SCREEN J-BOX, JB-41	BAR SCREEN TORQUE SWITCHES		7C #14 SJOW CORD	VIA RAKE MOUNTED J-BOX
C53741G	BAR SCREEN CONTROL PANEL, BSP	BAR SCREEN END OF TRAVEL SWITCH	3/4"	2 #14 THWN, G.	VIA JB-41
C53760	MCCA, CONVEYOR STARTER	LIFT STATION CONTROL PANEL, LSCP	3/4"	2 TWSH	HS, MI
C53760A	MCCA, CONVEYOR STARTER	LIFT STATION CONTROL PANEL, LSCP	3/4"	2 #14 THWN, G.	MS. INSTALL IN EXISTING CONDUIT WITH PUMP CONTROL MS53702
C53760B	MCCA, CONVEYOR STARTER	CONVEYOR CONTROL STA. CS53760	3/4"	6 #14 THWN, G.	VIA PB-60
C53760C	CONVEYOR CONTROL STA. CS53760	ROPE SAFETY SWITCH, HSS53760	3/4"	2 #14 THWN, G.	VIA PB-60A
C53760D	CONVEYOR CONTROL STA. CS53760	CONVEY. ZERO SPEED SWITCH, SS53760	3/4"	2 #14 THWN, G.	VIA PB-60A, IN CONDUIT C53760C TO PB-60A
C53760E	LIFT STATION CONTROL PANEL, LSCP	ROPE SAFETY SWITCH, HSS53760	3/4"	TWSH	
C53760F	LIFT STATION CONTROL PANEL, LSCP	CONVEY. ZERO SPEED SWITCH, SS53760		TWSH	ROUTE IN CONDUIT WITH HSS53760

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DEPARTMENT OF MUNICIPAL DEVELOPMENT

TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I

BELL STATION #37

SCHEMATICS AND SCHEDULES

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 781491		Zone Map No.	Sheet _____ Of E01-611	