

**ADDENDUM NO. 3
TO
CONTRACT DOCUMENTS
FOR
CITY OF GRAND ISLAND, NE
WASTEWATER TREATMENT PLANT FLOW IMPROVEMENTS**

DATE OF ISSUE: March 10th, 2022

REVISED DATE OF BID OPENING: March 15th, 2022, 2:15 PM

TO: PROSPECTIVE BIDDERS AND OTHER INTERESTED PARTIES

Items Included and Attached with this Addendum:

THE CONTRACT DOCUMENTS ARE HEREBY MODIFIED BY THE FOLLOWING ITEMS:

CHANGES TO SPECIFICATIONS

AD-3 Item 1 Section 40 61 93A Process Control System Input/Output List

A. Append the following to the I/O list (cells transposed to fit on this sheet.)

idx	116
Instrument	CP 0271
Equipment	Aeration Basin Dewatering Pump Station
Description	Control Panel Current Draw
Extended Description	(CT at Power Panel 9)
P&ID	n/a
Destination	RTU 02 / LCP 01
Wired / Comms	Wired
Protocol	n/a
Destination Location	Blower Building #3
PLC	PLC-1
Type	AI
PLC Lower Range Value	0
PLC Upper Range Value	TBD
Units	Amps

CHANGES TO DRAWINGS

AD-3 Item 2 DRAWING 04X102 SOUTH AERATION BASIN – REMOVAL PLAN

A. REPLACE sheet 04X102 with attached updated sheet 04X102

AD-3 Item 3 DRAWING 04E102 SOUTH AERATION BASIN – REMOVAL PLAN

A. REPLACE sheet 04E102 with attached updated sheet 04E102

AD-3 Item 4 DRAWING 04E103 SOUTH AERATION BASIN – REMOVAL PLAN

- A. REPLACE sheet 04E103 with attached updated sheet 04E103

AD-3 Item 5 DRAWING 04E104 SOUTH AERATION BASIN – REMOVAL PLAN

- A. REPLACE sheet 04E104 with attached updated sheet 04E104

AD-3 Item 6 DRAWING 04E105 SOUTH AERATION BASIN – REMOVAL PLAN

- A. REPLACE sheet 04E105 with attached updated sheet 04E105

AD-3 Item 7 DRAWING 04E503 SOUTH AERATION BASIN – REMOVAL PLAN

- A. REPLACE sheet 04E503 with attached updated sheet 04E503

AD-3 Item 8 DRAWING 04E601 SOUTH AERATION BASIN – REMOVAL PLAN

- A. REPLACE sheet 04E601 with attached updated sheet 04E601

AD-3 Item 9 DRAWING 04E603 SOUTH AERATION BASIN – REMOVAL PLAN

- A. REPLACE sheet 04E603 with attached updated sheet 04E603

AD-3 Item 10 DRAWING 04E607 SOUTH AERATION BASIN – REMOVAL PLAN

- A. REPLACE sheet 04E607 with attached updated sheet 04E607

AD-3 Item 11 DRAWING 04E608 SOUTH AERATION BASIN – REMOVAL PLAN

- A. REPLACE sheet 04E608 with attached updated sheet 04E608

ALL ITEMS IN CONFLICT WITH THE ADDENDA ARE HEREBY DELETED.

THIS ADDENDUM IS MADE PART OF THE CONTRACT DOCUMENTS AND SHALL BE NOTED ON THE BID FORM

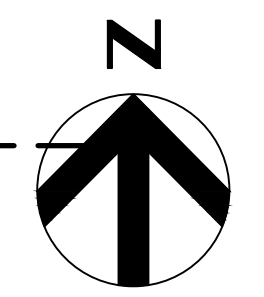
HDR ENGINEERING, INC.



Amit Shrivastava, P.E.



SEE SHEET 04X101
MATCH LINE



AERATION
BASIN NO. 1

AERATION
BASIN NO. 2

AERATION
BASIN NO. 3

AERATION
BASIN NO. 4

SHEET NOTES:

1. ALL DRAWING LINE WORK SHOWN IN 1/2 TONE DENOTES EXISTING FEATURES. SEE PROCESS, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS TO BE REMOVED.

KEY NOTES:

1. AT ALL BASIN BAFFLE WALLS AT LOCATIONS FOR NEW 36" DIA MLR PIPE PENETRATIONS, CL EL. 19831.73 CORE DRILL 4 INCHES MAX LARGER THAN PIPE O.D. AND REMOVE SECTIONS OF EXISTING CONCRETE BAFFLE WALLS. DRILL OUT ENDS OF EXPOSED EXISTING REINFORCING TO A DEPTH OF 1 1/2" FROM THE FACE OF CORE DRILLED CONCRETE. FILL VOID WITH EPOXY GROUT.

2. AT BASIN WALL IN SOUTH PORTION OF THE BASINS SAW-CUT FULL DEPTH AND REMOVE 48"x48" SECTION OF EXISTING CONCRETE WALL AT BOTTOM ELEVATION 1840.00 (SEE PROCESS DRAWINGS). AVOID OVER-CUTTING AT CORNERS BY USING LIGHT CHIPPING HAMMERS TO REMOVE CONCRETE IN CORNERS. GRIND FACES OF SAW-CUT SMOOTH IN STRAIGHT LINES. DRILL OUT ENDS OF EXPOSED EXISTING REINFORCING TO A DEPTH OF 1 1/2" FROM THE FACE OF WALL SAW-CUT. FILL VOID WITH EPOXY GROUT.

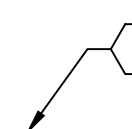
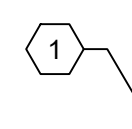
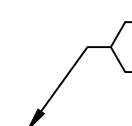
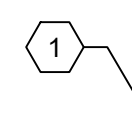
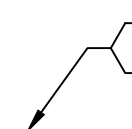
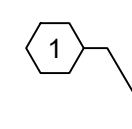
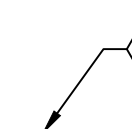
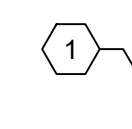
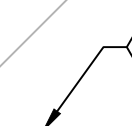
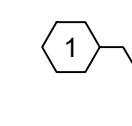
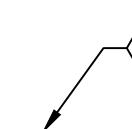
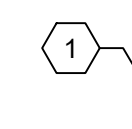
3. AT EAST WALL OF MIXER LIQUOR PUMP STATION EXTERIOR WALL AT LOCATION OF NEW 30" DIA BYPASS PIPE PENETRATION CORE DRILL AND REMOVE SECTION OF EXISTING CONCRETE WALL AT APPROXIMATE ELEVATION 1839.50 (SEE PROCESS DRAWINGS). DRILL OUT ENDS OF EXPOSED EXISTING REINFORCING TO A DEPTH OF 1 1/2" FROM THE FACE OF CORE DRILLED CONCRETE. FILL VOID WITH EPOXY GROUT.

4. AT SOUTH EXTERIOR WALL OF AERATION BASINS AT LOCATION OF NEW 36" DIA BYPASS PIPE PENETRATION CORE DRILL AND REMOVE SECTION OF EXISTING CONCRETE WALL AT APPROXIMATE ELEVATION 1839.50 (SEE PROCESS DRAWINGS). DRILL OUT ENDS OF EXPOSED EXISTING REINFORCING TO A DEPTH OF 1 1/2" FROM THE FACE OF CORE DRILLED CONCRETE. FILL VOID WITH EPOXY GROUT.

5. AT LOCATIONS OF NEW SST GRATING AND STOP LOG FRAMING IN THE INFLUENT CHANNEL TOP SLAB SAW-CUT FULL DEPTH AND REMOVE EXISTING SLAB PER DIMENSIONS SHOW ON PLAN. AVOID OVER-CUTTING AT CORNERS BY USING LIGHT CHIPPING HAMMERS TO REMOVE CONCRETE IN CORNERS. GRIND FACES OF SAW-CUT SMOOTH IN STRAIGHT LINES. DRILL OUT ENDS OF EXPOSED EXISTING REINFORCING TO A DEPTH OF 1 1/2" FROM THE FACE OF THE SLAB SAW-CUT. FILL VOID WITH EPOXY GROUT.

6. REMOVE EXISTING INLET GATES AND FILL WITH CONCRETE SEE SECTION C/MS502

7. DURING BYPASS PUMPING, THE RAS PIPING SHALL BE CUT AND REMOVED INSIDE THE MLR CHANNEL. RAS PUMPING CAN BE TURNED OFF DURING THIS ACTIVITY WITH COORDINATION WITH THE CITY. INSTALL FLANGE COUPLING ADAPTERS ON BOTH SIDES AND INSTALL PLUG TO DIVERT ALL FLOW TO INLET SIDE OF THE SCREW PUMPS. AFTER BYPASS PUMPING OPERATION IS COMPLETED, REINSTALL RAS PIPE IN THE MLR CHANNEL. NEW PIPE MAY BE NEEDED IF OLD PIPE IS DAMAGED DURING THE CUTTING OPERATION



6
NEW & EXIST GATE IN
BASIN 4 NOT SHOWN,
SIMILAR TO CHANNELS
1, 2, & 3.

20" ALP

ABANDON, CUT, FILL
AND CAP WALL PIPES

3'-8" 6'-0"

3'-4"

3'-4"

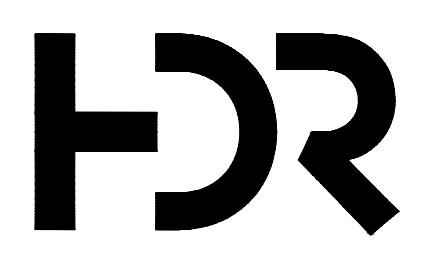
6'-0"

20'-0"

3'-4"

6'-0"

81'-0"



ISSUE	DATE	DESCRIPTION
	03/10/2022	ADDENDUM 3
	01/11/2022	ISSUED FOR BID
	11/23/2021	ISSUED FOR 100% REVIEW
	10/18/2021	ISSUED FOR 90% CLIENT REVIEW
	6/30/2021	ISSUED FOR 50% CLIENT REVIEW

PROJECT MANAGER	A. SHRIVASTAVA
PROCESS	D. DEVITT
STRUCTURAL	A. GINZBURG
ELECTRICAL	J. ANDERSEN
CIVIL	B. HINDLEY
INSTRUMENTATION	E. SANDERS
PROJECT NUMBER	10273453



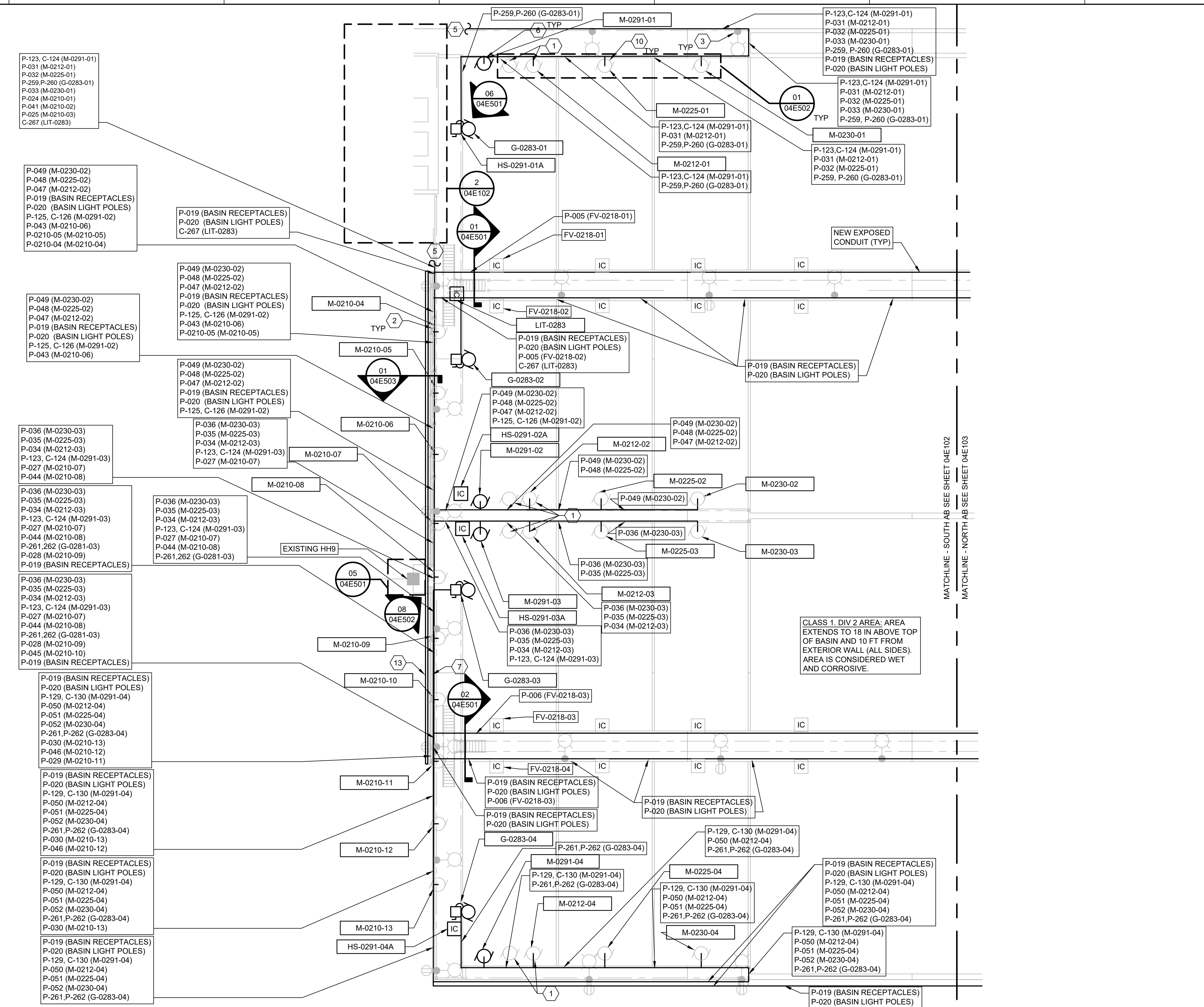
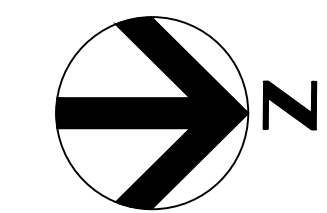
CITY OF GRAND ISLAND
WASTEWATER TREATMENT PLANT
FLOW IMPROVEMENTS

SOUTH AERATION BASIN - REMOVAL PLAN

0 1" 2"

FILENAME | 04X102.dwg
SCALE | 1/8" = 1'-0"

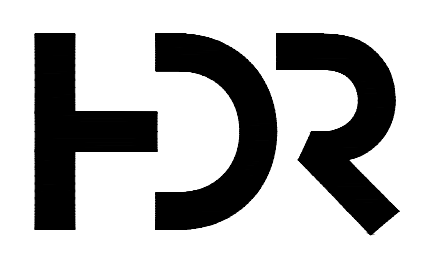
SHEET
04X102



- GENERAL NOTES**
- 1 PROVIDE EXPANSION JOINTS IN CONDUITS WHEN THEY ARE ROUTED OVER CONCRETE EXPANSION JOINTS. SEE SHEETS 04D101 AND 04D102 FOR EXPANSION JOINT LOCATIONS.
 - 2 MAINTAIN CONNECTIONS TO ALL EQUIPMENT.
 - 3 REMOVE CONDUCTORS FROM CONDUITS IN SLAB AND REPLACE WITH CONDUCTORS ROUTED THROUGH EXPOSED CONDUIT MOUNTED ABOVE SLAB.
 - 4 AFTER CONDUCTOR REMOVAL, FILL ABANDONED ELECTRICAL BOXES IN THE FLOOR SLAB AND REPLACE WITH CONCRETE TO BE EVEN WITH THE SURROUNDING SLAB.
 - 5 CUT BACK TO CONCRETE SLAB ANY CONDUIT TO BE ABANDONED THAT FEEDS ELECTRICAL DEVICES. PLUG AND FILL END WITH CONCRETE SO END RESULT IS EVEN WITH SURROUNDING SLAB.
 - 6 REFER TO ONE-LINE DIAGRAM SHEETS 04E601 OR CONDUIT ROUTING.

- KEYNOTES #**
- 1 RELOCATED SUBMERSIBLE MIXER AND DISCONNECT. PROVIDE CONDUCTORS AND CONDUIT TO EXTEND TO NEW LOCATION.
 - 2 REUSE SUPPORT FOR CONDUIT SUPPLYING MOTOR. TYPICAL OF ALL M-0210-XX
 - 3 DISCONNECT LIGHTING FIXTURE AND RECEPTACLE (IF APPLICABLE), RECONNECT TO NEW CIRCUIT. PROVIDE JUNCTION BOX, SIZE AS REQUIRED.
 - 4 RE-ROUTE CONDUIT AND CONDUCTORS TO BE ON EAST SIDE OF WALKWAY. RECONNECT ELECTRICAL DEVICES SERVED BY CONDUIT.
 - 5 CONTINUATION ON INFLUENT PUMP STRUCTURE PLAN ON SHEET 04E104.
 - 6 SEE ONE-LINE DIAGRAM SHEETS 04E601
 - 7 EXISTING WIREWAY. CONTRACTOR TO VERIFY EXACT LOCATION.
 - 8 NOT USED.
 - 9 SEE ONE-LINE DIAGRAM SHEET 04E601.
 - 10 REPLACE EXISTING FIBERGLASS JUNCTION BOX, ON/OFF SWITCH, AND ASSOCIATED CONDUIT WITH A STAINLESS STEEL 12"X8"X8" JUNCTION BOX WITH 1/4 TURN KNOB AND TERMINAL STRIP FOR MOTOR CONNECTION. PLACE ON/OFF SELECTOR SWITCH WITH LABEL ON HINGED BOX LID. ADD EQUIPMENT IDENTIFICATION TAG ACCORDING TO MOTOR IT SERVES. EXAMPLE: "M-0291-XX" WHERE XX REPRESENTS THE MOTOR NUMERICAL IDENTIFICATION. THIS NOTE APPLIES TO ALL EXISTING MIXERS. EVEN THOSE WHERE NO OTHER WIRING CHANGES ARE BEING MADE.
 - 11 REMOVE WIRING. CUT BACK CONDUIT AND PLUG OPENING. TYPICAL FOR ALL FV-0218-0X.
 - 12 NOT USED.
 - 13 NEW WIREWAY. SEE DETAIL 01 ON SHEET 04E503.

CLASS 1, DIV 2 AREA: AREA EXTENDS TO 18 IN ABOVE TOP OF BASIN AND 10 FT FROM EXTERIOR WALL (ALL SIDES). AREA IS CONSIDERED WET AND CORROSIVE.

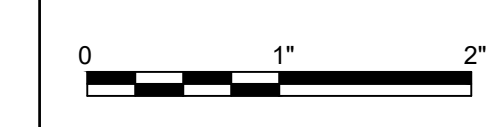


ISSUE	DATE	DESCRIPTION
	03/10/2022	ADDENDUM #3
	01/11/2022	ISSUED FOR BID

PROJECT MANAGER	A. SHRIVASTAVA
PROCESS	D. DEVITT
STRUCTURAL	A. GINZBURG
ELECTRICAL	J. ANDERSEN
CIVIL	B. HINDLEY
INSTRUMENTATION	E. SANDERS
PROJECT NUMBER	10273453



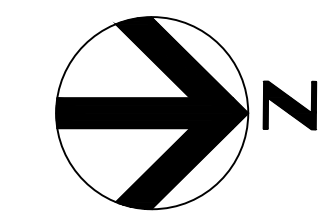
**CITY OF GRAND ISLAND
WASTEWATER TREATMENT PLANT
FLOW IMPROVEMENTS**



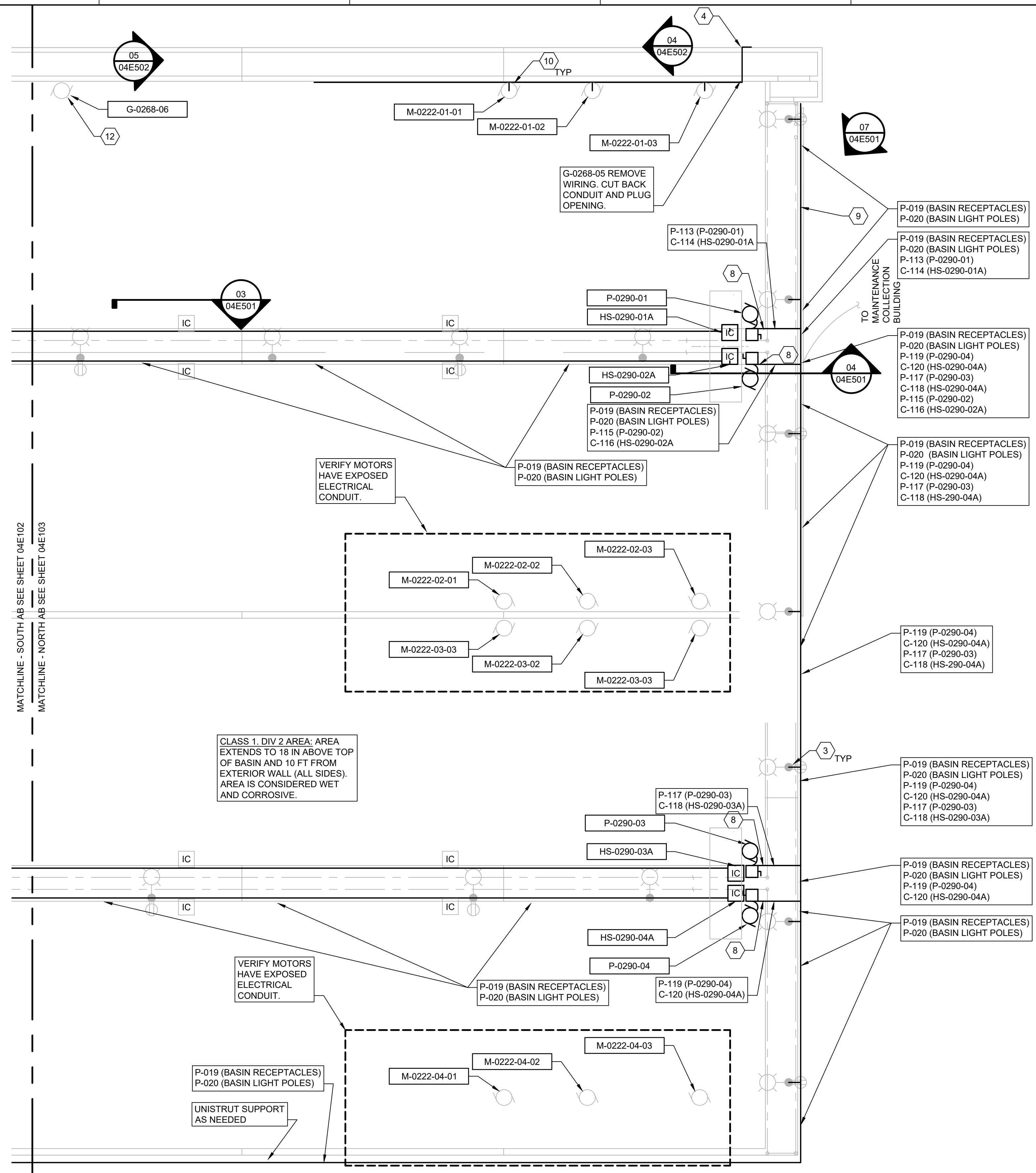
**AERATION BASIN
ELECTRICAL PLAN
SOUTH PORTION**

FILENAME 04E102.DWG
SCALE 1/16"=1'-0"

SHEET
04E102



- GENERAL NOTES**
- PROVIDE EXPANSION JOINTS IN CONDUITS WHEN THEY ARE ROUTED OVER CONCRETE EXPANSION JOINTS. SEE SHEETS 04D101 AND 04D102 FOR EXPANSION JOINT LOCATIONS.
 - MAINTAIN CONNECTIONS TO ALL EQUIPMENT.
 - REMOVE CONDUCTORS FROM CONDUITS IN SLAB AND REPLACE WITH CONDUCTORS ROUTED THROUGH EXPOSED CONDUIT MOUNTED ABOVE SLAB.
 - AFTER CONDUCTOR REMOVAL, FILL ABANDONED ELECTRICAL BOXES IN THE FLOOR SLAB WITH CONCRETE TO BE EVEN WITH THE SURROUNDING SLAB.
 - CUT BACK TO CONCRETE SLAB ANY CONDUIT TO BE ABANDONED THAT FEEDS ELECTRICAL DEVICES. PLUG AND FILL END WITH CONCRETE SO END RESULT IS EVEN WITH SURROUNDING SLAB.
 - REFER TO ONE-LINE DIAGRAM SHEETS 04E601 OR CONDUIT ROUTING.
- KEYNOTES #**
- NOT USED.
 - NOT USED.
 - DISCONNECT LIGHTING FIXTURE AND RECEPTACLE (IF APPLICABLE), RECONNECT TO NEW CIRCUIT. PROVIDE JUNCTION BOX, SIZE AS REQUIRED.
 - RE-ROUTE CONDUIT AND CONDUCTORS TO BE ON EAST SIDE OF WALKWAY. RECONNECT ELECTRICAL DEVICES SERVED BY CONDUIT.
 - NOT USED.
 - SEE ONE-LINE DIAGRAM SHEET 04E601
 - NOT USED.
 - ROUTE CONDUIT UNDERNEATH WALKWAY.
 - SEE ONE-LINE DIAGRAM SHEETS 04E601.
 - REPLACE EXISTING FIBERGLASS JUNCTION BOX, ON/OFF SWITCH, AND ASSOCIATED CONDUIT WITH A STAINLESS STEEL 12"X8"X8" JUNCTION BOX WITH 1/4 TURN KNOB AND TERMINAL STRIP FOR MOTOR CONNECTION. PLACE ON/OFF SELECTOR SWITCH WITH LABEL ON HINGED BOX LID. ADD EQUIPMENT IDENTIFICATION TAG ACCORDING TO MOTOR IT SERVES. EXAMPLE: "M-0291-XX" WHERE XX REPRESENTS THE MOTOR NUMERICAL IDENTIFICATION. THIS NOTE APPLIES TO ALL EXISTING MIXERS. EVEN THOSE WHERE NO OTHER WIRING CHANGES ARE BEING MADE.
 - NOTUSED.
 - DISCONNECT CONDUCTORS TO MOTOR AND CONTROLS. SEE SHEET 0X501.

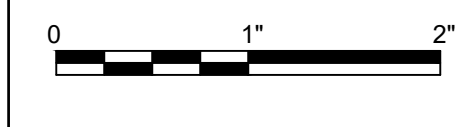


ISSUE	DATE	DESCRIPTION
	03/10/2022	ADDENDUM #3
	01/11/2022	ISSUED FOR BID

PROJECT MANAGER	A. SHRIVASTAVA
PROCESS	D. DEVITT
STRUCTURAL	A. GINZBURG
ELECTRICAL	J. ANDERSEN
CIVIL	B. HINDLEY
INSTRUMENTATION	E. SANDERS
PROJECT NUMBER	10273453



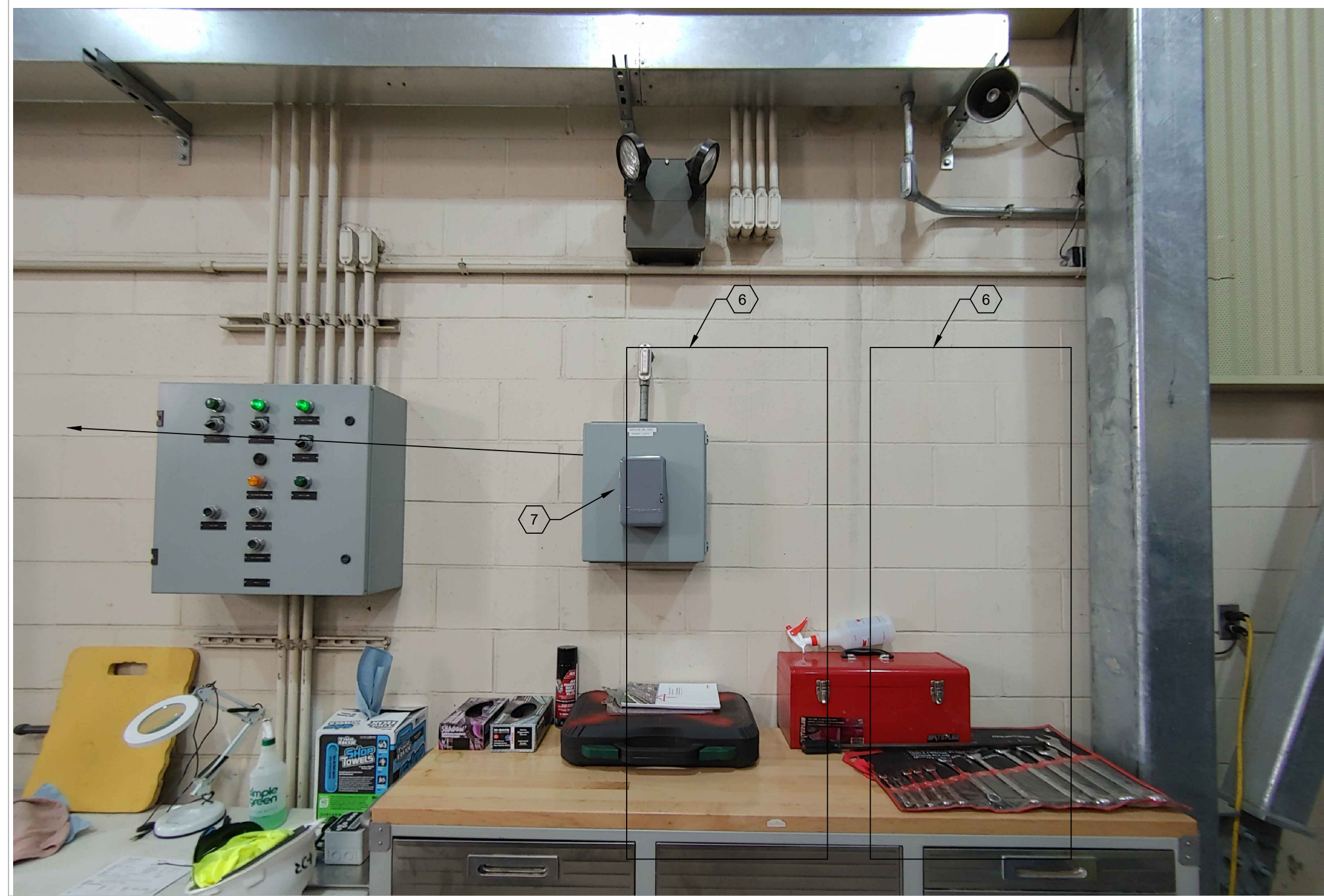
**CITY OF GRAND ISLAND
WASTEWATER TREATMENT PLANT
FLOW IMPROVEMENTS**



**AERATION BASIN
ELECTRICAL PLAN
NORTH PORTION**

FILENAME | 04E103.DWG
SCALE | 1/16"=1'-0"

SHEET
04E103



1 BLOWER BUILDING VFD MOUNTING LOCATIONS

NOT TO SCALE



2 EXISTING MOTOR CONTROL CENTERS NO. 7 AND 8

NOT TO SCALE

- GENERAL NOTES**
- SEE ONE-LINE DIAGRAM 04E601 FOR LOADS CONNECTED TO NEW STARTERS AND BREAKERS
- KEYNOTES** #
- INSTALL NEW SIZE 1 MOTOR STARTER IN EXISTING MCC7.
 - INSTALL NEW SIZE 1 MOTOR STARTER IN EXISTING MCC8.
 - INSTALL NEW 25A 3P CIRCUIT BREAKER IN MCC8.
 - FOR ALTERNATE B, INSTALL NEW 200A, 3P CIRCUIT BREAKER IN MCC9. INSTALL NEW BLANK DOORS TO COVER ANY REMAINING OPEN SECTION SPACE.
 - FOR ALTERNATE B, INSTALL NEW 200A, 3P CIRCUIT BREAKER IN MCC10. INSTALL NEW BLANK DOORS TO COVER ANY REMAINING OPEN SECTION SPACE.
- 6 INSTALL NEW 125 HP VFD ON AT APPROXIMATE LOCATION SHOWN ON A 4" CONCRETE HOUSE KEEPING PAD. SEE DETAIL 1/00E501.
- 7 RELOCATE TIME SWITCH AND ENCLOSURE TO AVAILABLE WALL SPACE ON OTHER SIDE OF EXISTING CONTROL PANEL TO ALLOW SPACE FOR NEW VFDS.
- 8 PROVIDE CONDUIT AND JUNCTION BOX TO SPLIT CONDUCTORS GOING TO SCREW PUMPS. SEE 02 ON SHEET 04E104 FOR SCREW PUMP LOCATION. ROUTE CONDUCTORS TO ASSOCIATED MCC AND ASSOCIATED VFD FOR EACH SCREW PUMP.

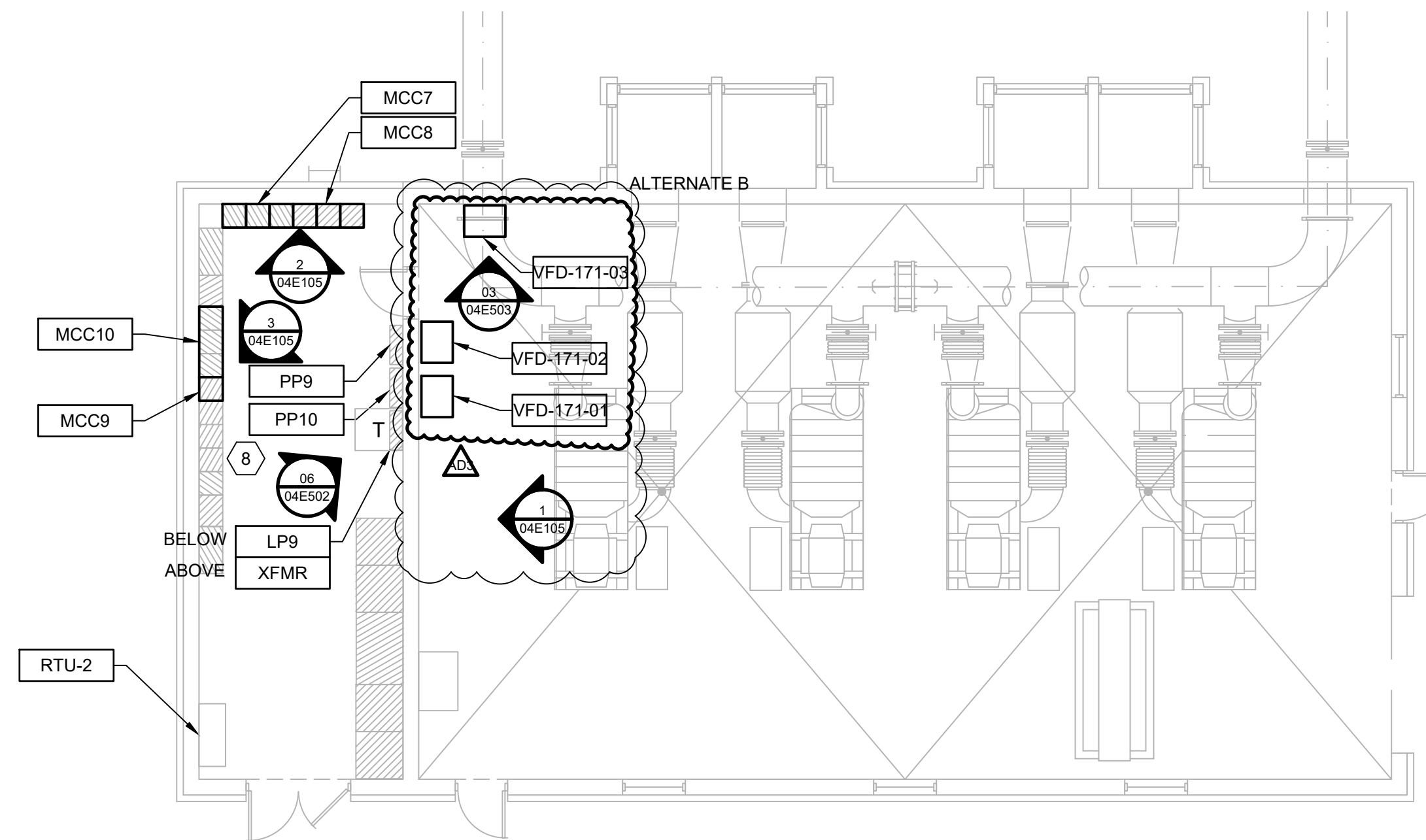


EXISTING MOTOR STARTER FOR P-1071-03
EXISTING MOTOR STARTER FOR P-1071-01

EXISTING MOTOR STARTER FOR P-1071-02

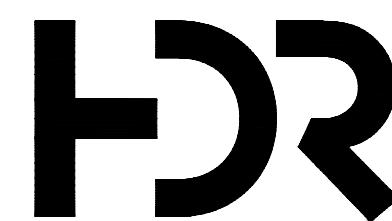
3 EXISTING MOTOR CONTROL CENTERS NO. 9 AND 10

NOT TO SCALE



4 BLOWER BUILDING ELECTRICAL PLAN

3/8"-1'-0"



ISSUE	DATE	DESCRIPTION
03/10/2022	ADDENDUM #3	
01/11/2022	ISSUED FOR BID	
11/23/2021	ISSUED FOR 100% REVIEW	
10/18/2021	ISSUED FOR 90% CLIENT REVIEW	
6/25/2021	ISSUED FOR 50% CLIENT REVIEW	

PROJECT MANAGER	A. SHRIVASTAVA
PROCESS	D. DEVITT
STRUCTURAL	A. GINZBURG
ELECTRICAL	J. ANDERSEN
CIVIL	B. HINDLEY
INSTRUMENTATION	E. SANDERS
PROJECT NUMBER	10273453



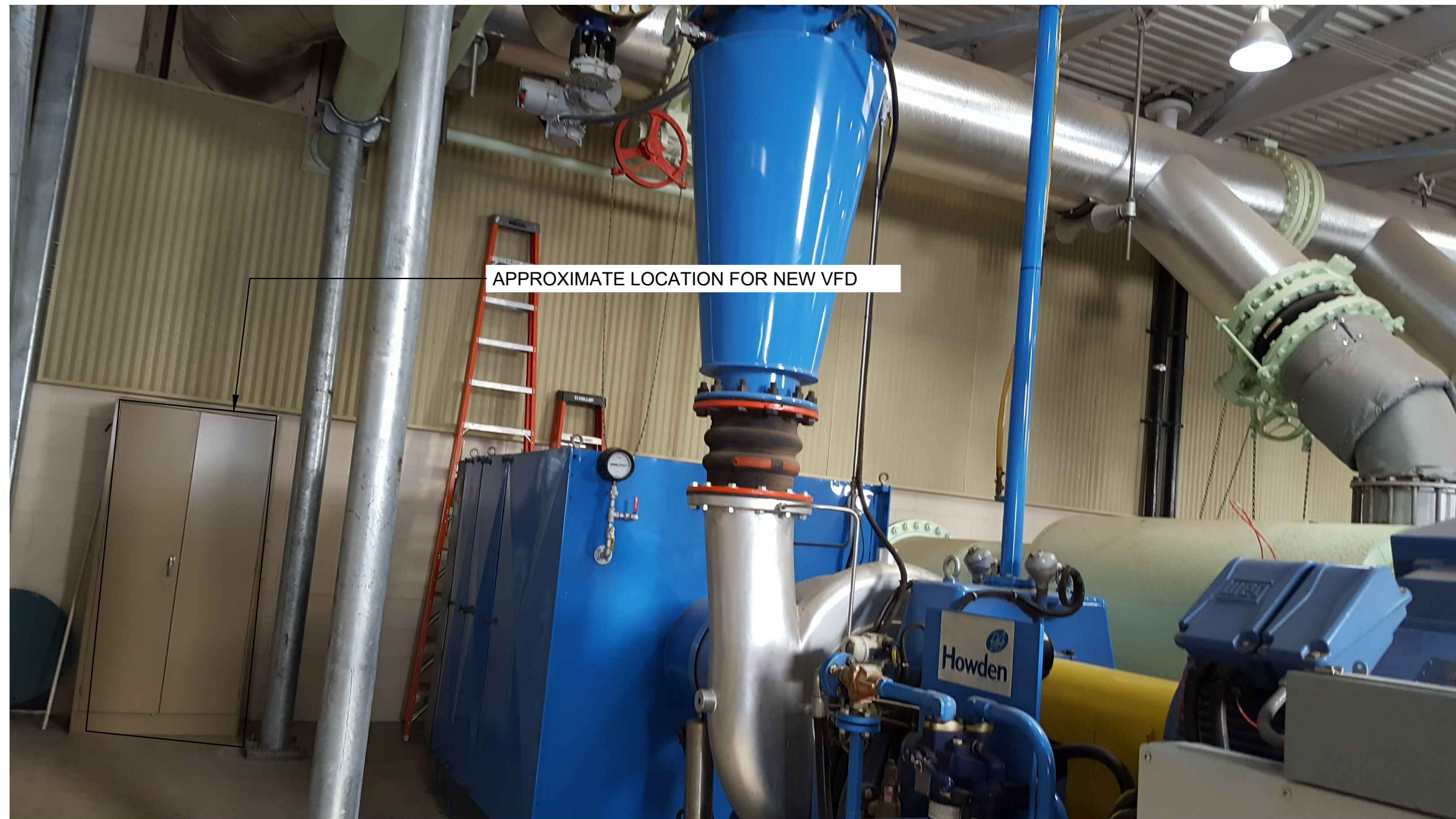
CITY OF GRAND ISLAND
WASTEWATER TREATMENT PLANT
FLOW IMPROVEMENTS

AERATION BASIN
BLOWER BUILDING
ELECTRICAL PLAN



FILENAME | 04E105.DWG
SCALE | AS NOTED

SHEET
04E105

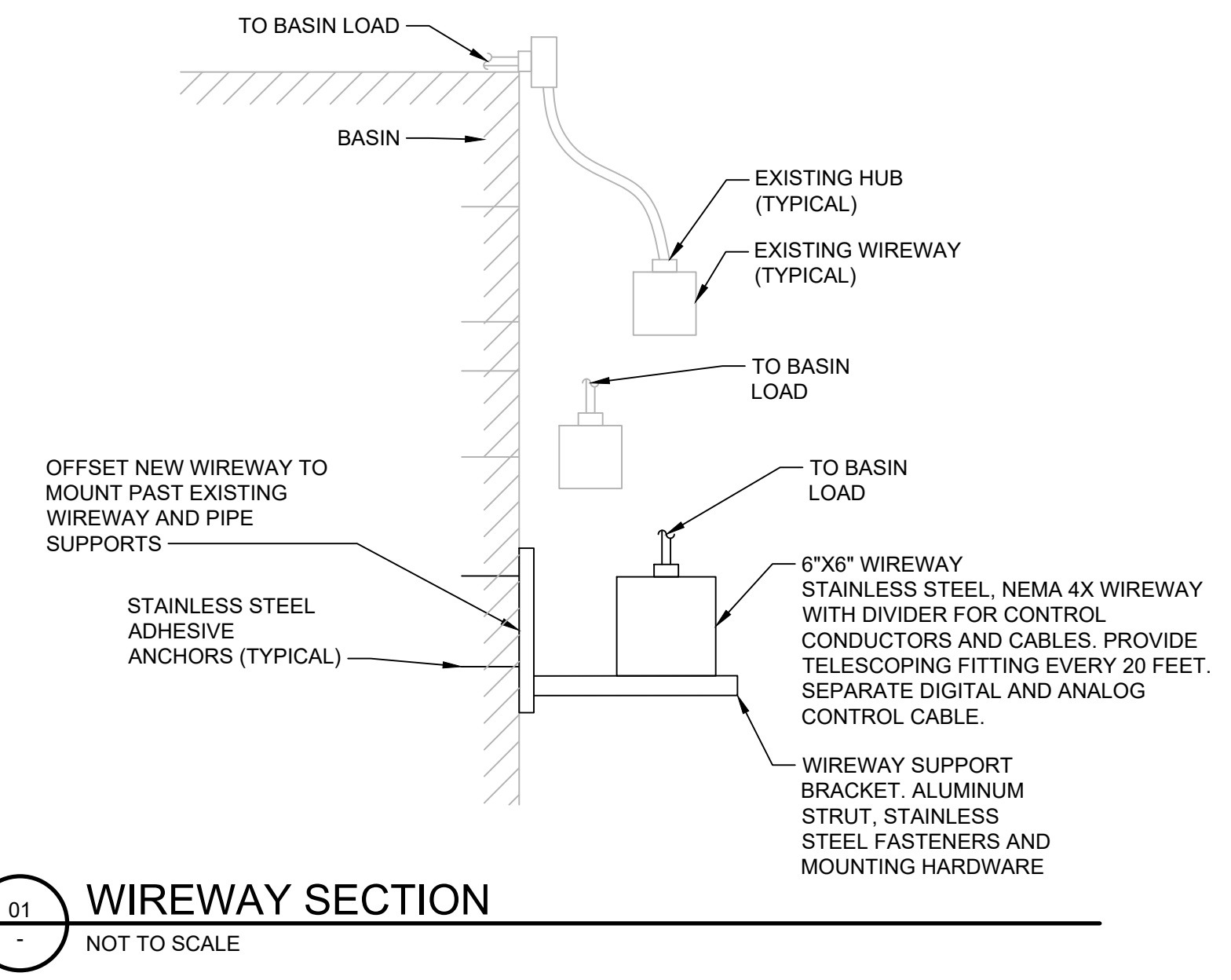


03 BLOWER ROOM PHOTO
NOT TO SCALE

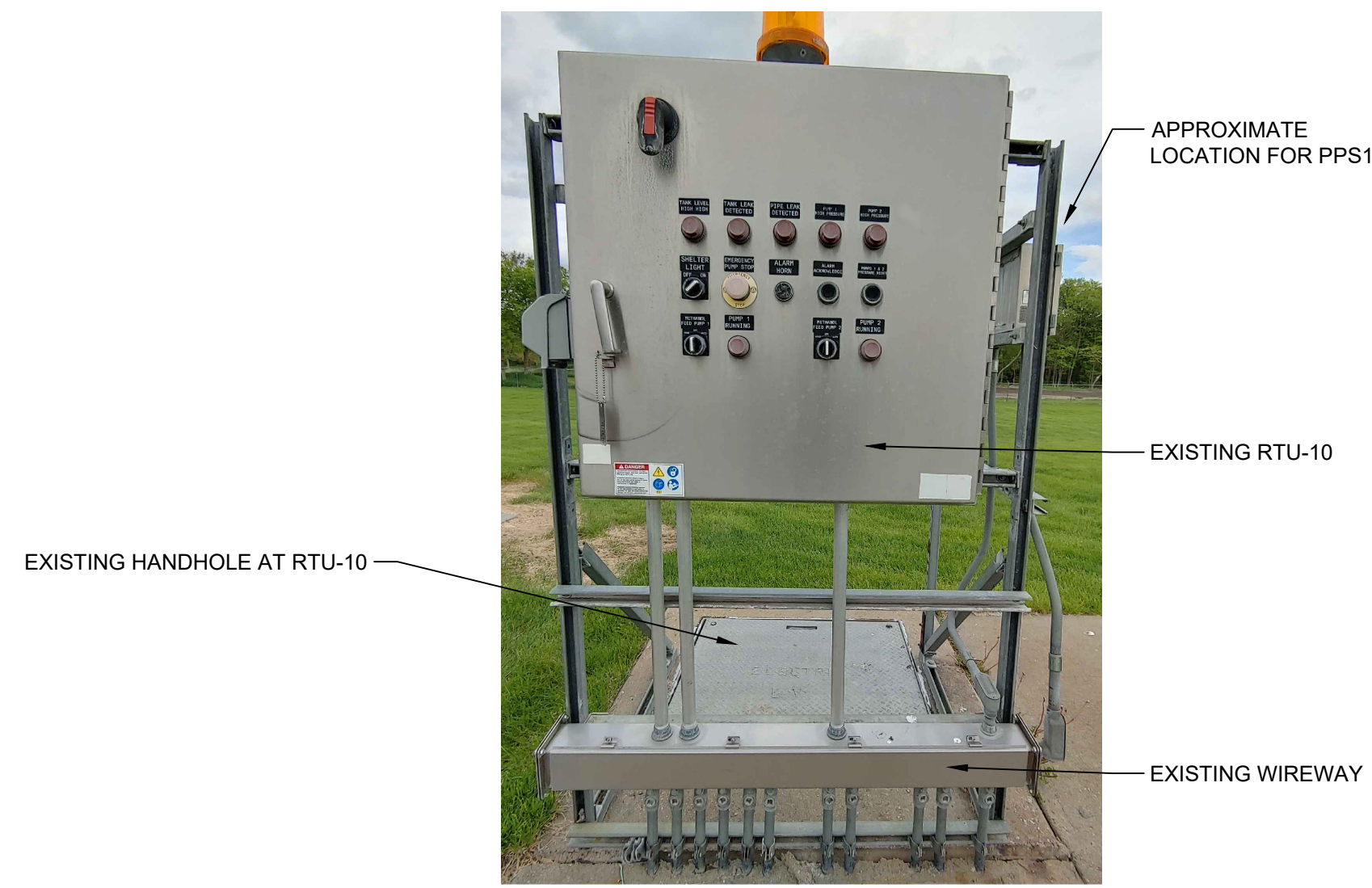
AD



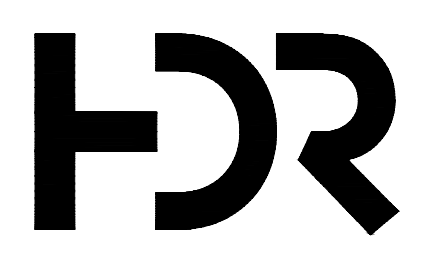
04 MAINTENANCE COLLECTION BUILDING PHOTO
NOT TO SCALE



01 WIREWAY SECTION
NOT TO SCALE



02 MICRO-C STRUCTURE RTU-10
NOT TO SCALE

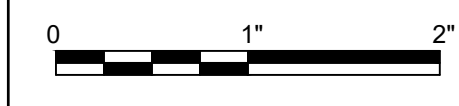


ISSUE	DATE	DESCRIPTION
03/10/2022		ADDENDUM #3
01/11/2022		ISSUED FOR BID
11/23/2021		ISSUED FOR 100% REVIEW

PROJECT MANAGER	A. SHRIVASTAVA
PROCESS	D. DEVITT
STRUCTURAL	A. GINZBURG
ELECTRICAL	J. ANDERSEN
CIVIL	B. HINDLEY
INSTRUMENTATION	E. SANDERS
PROJECT NUMBER	10273453



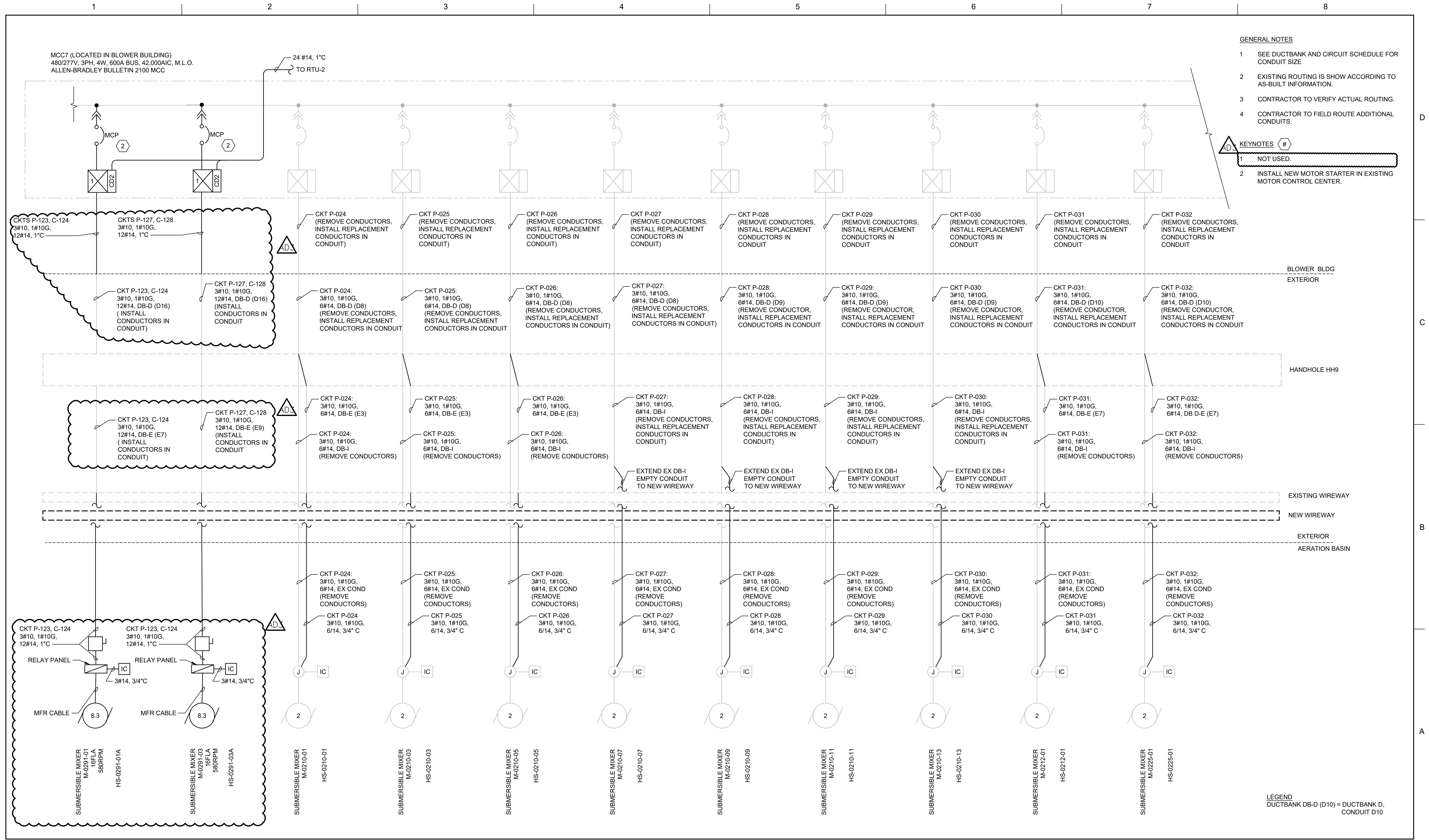
CITY OF GRAND ISLAND
WASTEWATER TREATMENT PLANT
FLOW IMPROVEMENTS



ELECTRICAL DETAILS

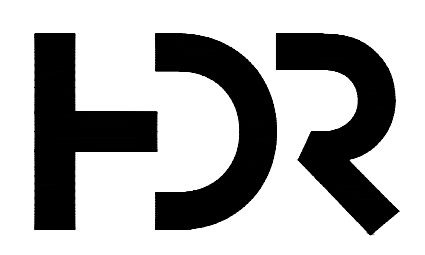
FILENAME | 04E503.DWG
SCALE | AS NOTED

SHEET
04E503



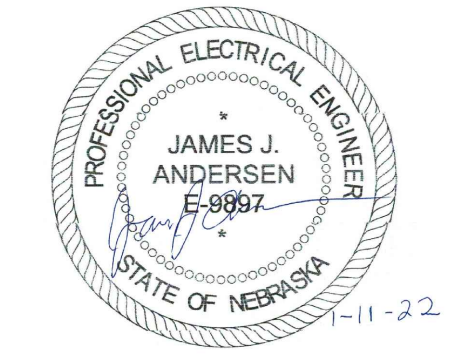
- GENERAL NOTES**
- SEE DUCTBANK AND CIRCUIT SCHEDULE FOR CONDUIT SIZE
 - EXISTING ROUTING IS SHOWN ACCORDING TO AS-BUILT INFORMATION.
 - CONTRACTOR TO VERIFY ACTUAL ROUTING.
 - CONTRACTOR TO FIELD ROUTE ADDITIONAL CONDUITS.
- KEYNOTES #**
- NOT USED.
 - INSTALL NEW MOTOR STARTER IN EXISTING MOTOR CONTROL CENTER.

LEGEND
 DUCTBANK DB-D (D10) = DUCTBANK D, CONDUIT D10



03/10/2022	ADDENDUM #3
01/11/2022	ISSUED FOR BID
ISSUE	DATE
	DESCRIPTION

PROJECT MANAGER	A. SHRIVASTAVA
PROCESS	D. DEVITT
STRUCTURAL	A. GINZBURG
ELECTRICAL	J. ANDERSEN
CIVIL	B. HINDLEY
INSTRUMENTATION	E. SANDERS
PROJECT NUMBER	10273453



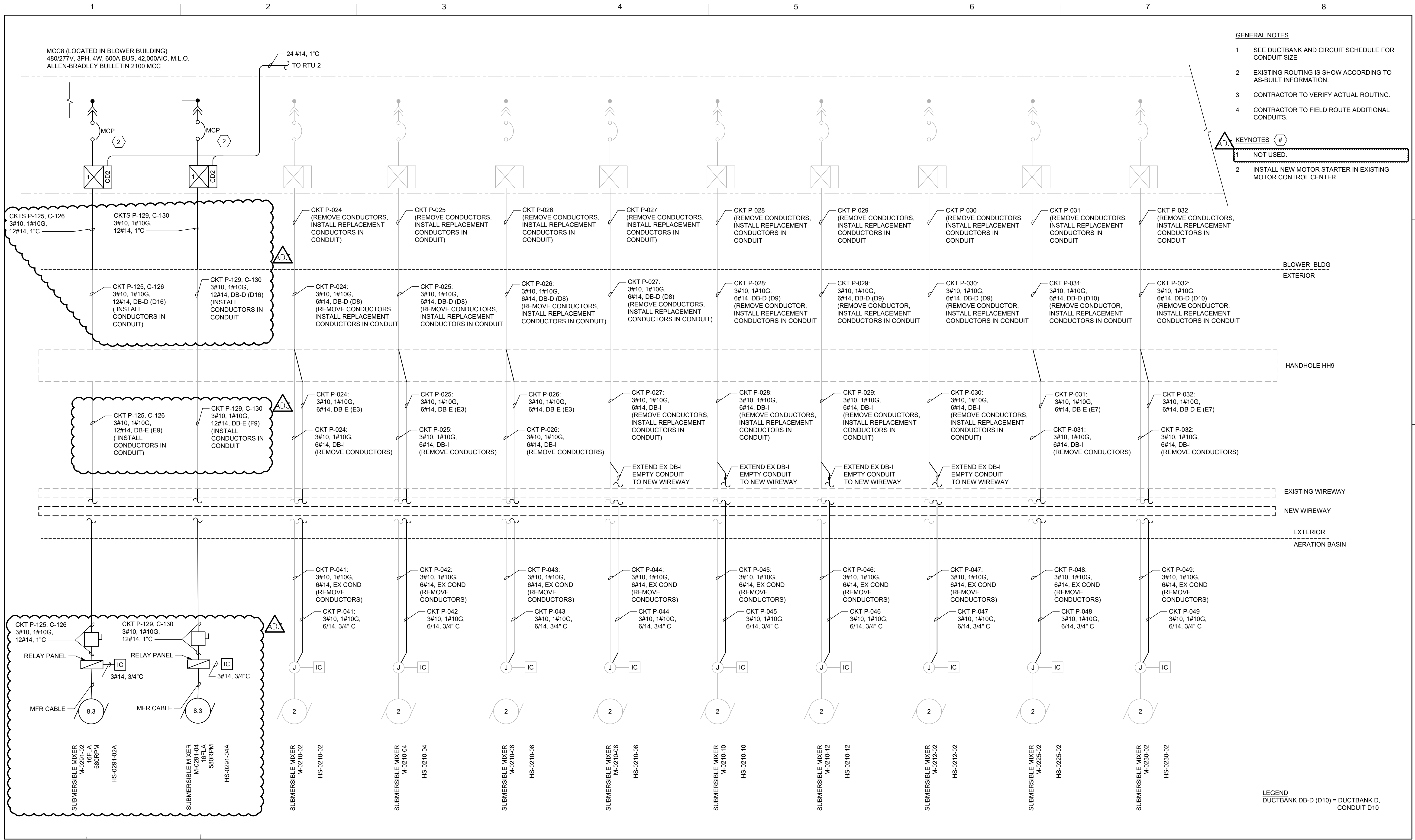
CITY OF GRAND ISLAND
WASTEWATER TREATMENT PLANT
FLOW IMPROVEMENTS

AERATION BASIN
ONE-LINE DIAGRAM

0 1" 2"

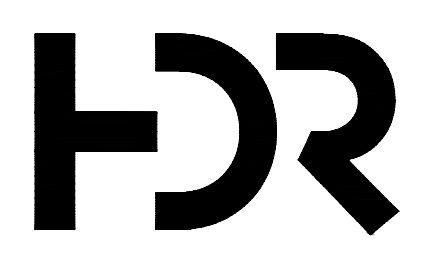
FILENAME | 04E601.DWG
 SCALE | NONE

SHEET
04E601



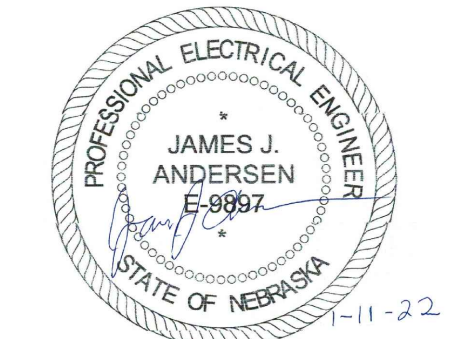
- GENERAL NOTES**
- SEE DUCTBANK AND CIRCUIT SCHEDULE FOR CONDUIT SIZE
 - EXISTING ROUTING IS SHOWN ACCORDING TO AS-BUILT INFORMATION.
 - CONTRACTOR TO VERIFY ACTUAL ROUTING.
 - CONTRACTOR TO FIELD ROUTE ADDITIONAL CONDUITS.
- KEYNOTES**
- NOT USED.
 - INSTALL NEW MOTOR STARTER IN EXISTING MOTOR CONTROL CENTER.

LEGEND
 DUCTBANK DB-D (D10) = DUCTBANK D, CONDUIT D10



03/10/2022	ADDENDUM #3
01/11/2022	ISSUED FOR BID
ISSUE	DATE DESCRIPTION

PROJECT MANAGER	A. SHRIVASTAVA
PROCESS	D. DEVITT
STRUCTURAL	A. GINZBURG
ELECTRICAL	J. ANDERSEN
CIVIL	B. HINDLEY
INSTRUMENTATION	E. SANDERS
PROJECT NUMBER	10273453



CITY OF GRAND ISLAND
WASTEWATER TREATMENT PLANT
FLOW IMPROVEMENTS

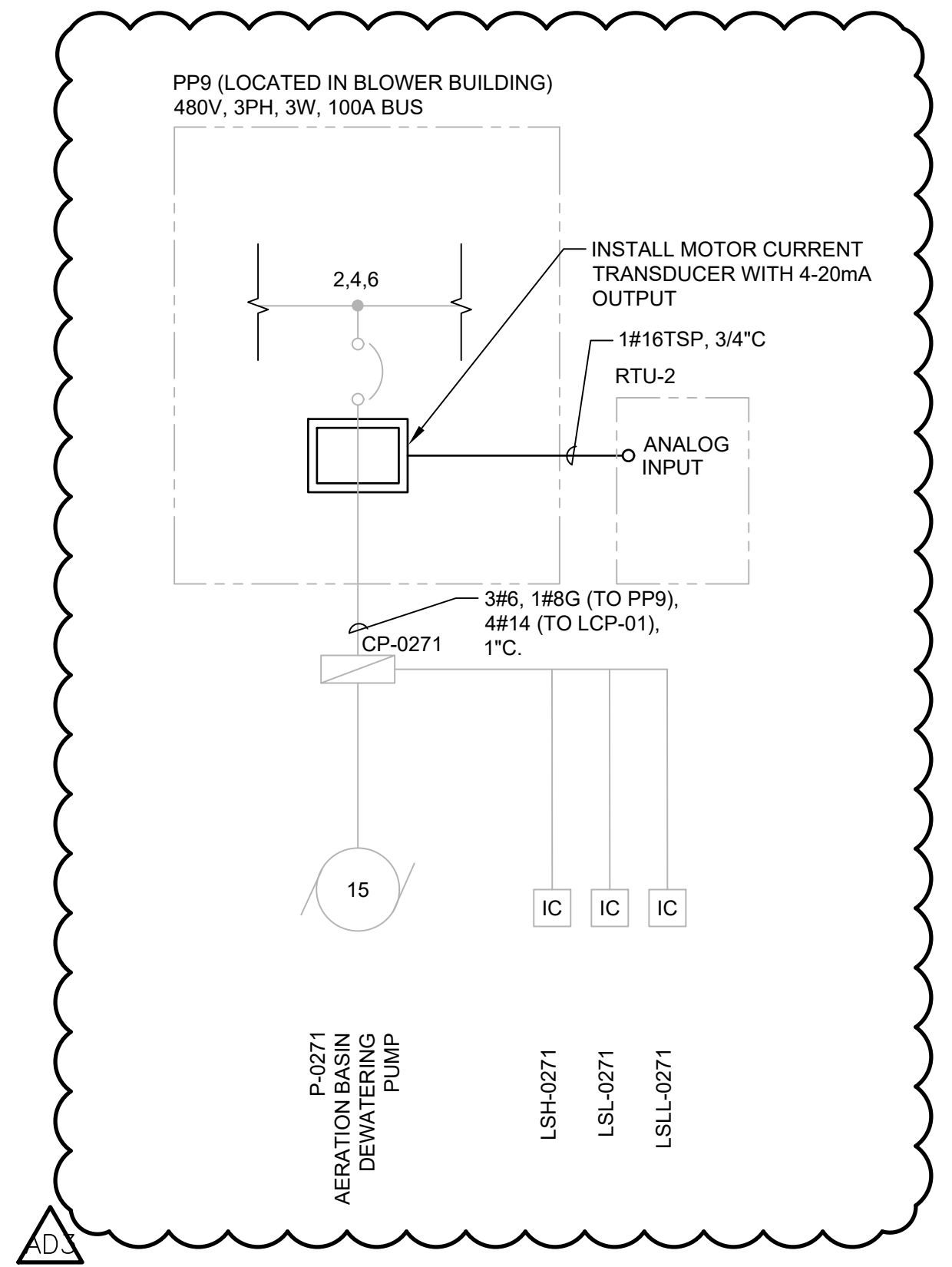
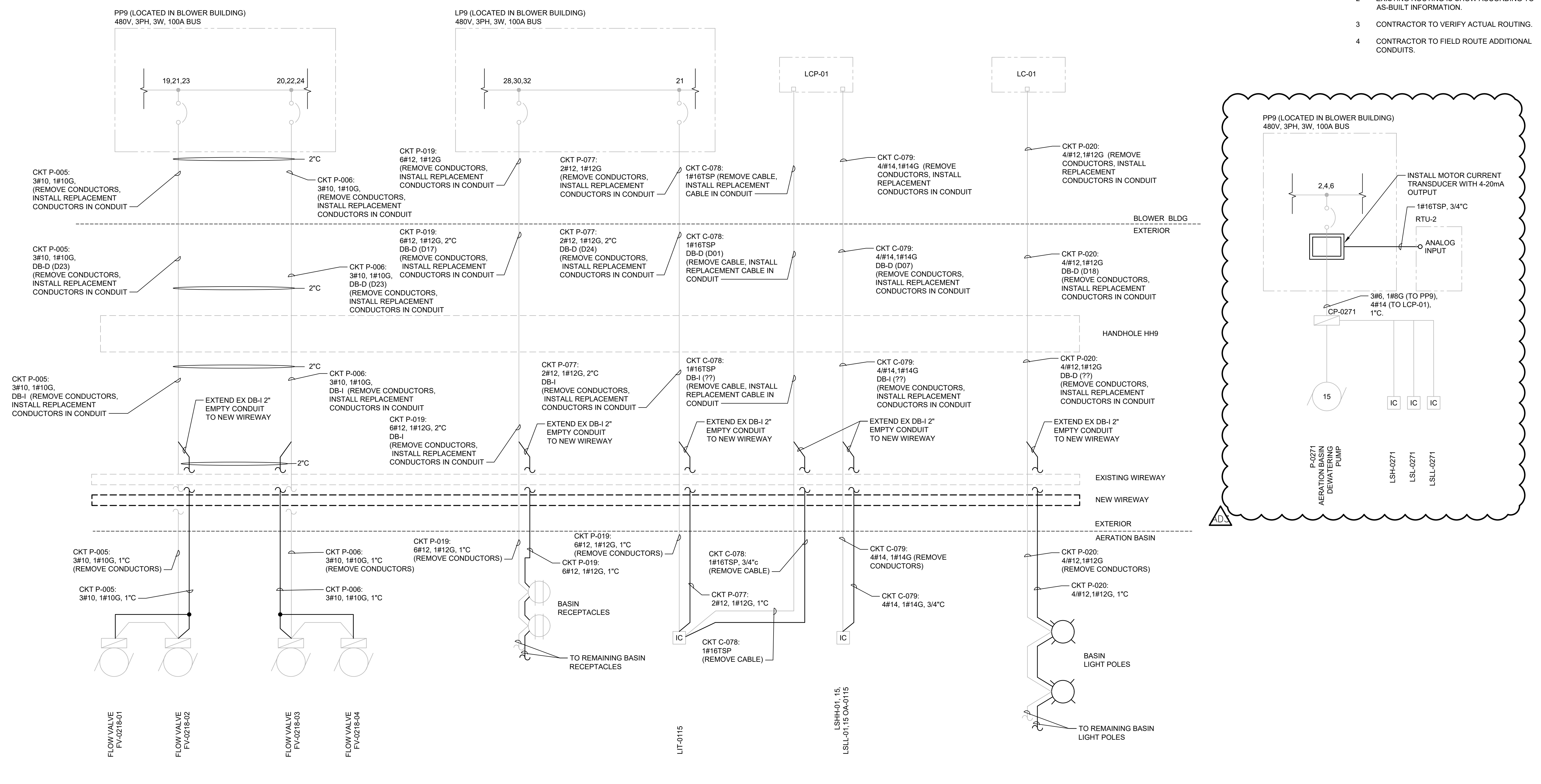


AERATION BASIN
ONE-LINE DIAGRAM

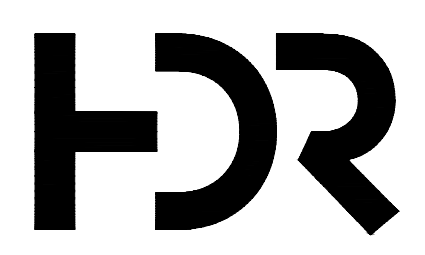
FILENAME | 04E603.DWG
 SCALE | NONE

SHEET
04E603

- GENERAL NOTES**
- 1 SEE DUCTBANK AND CIRCUIT SCHEDULE FOR CONDUIT SIZE
 - 2 EXISTING ROUTING IS SHOWN ACCORDING TO AS-BUILT INFORMATION.
 - 3 CONTRACTOR TO VERIFY ACTUAL ROUTING.
 - 4 CONTRACTOR TO FIELD ROUTE ADDITIONAL CONDUITS.

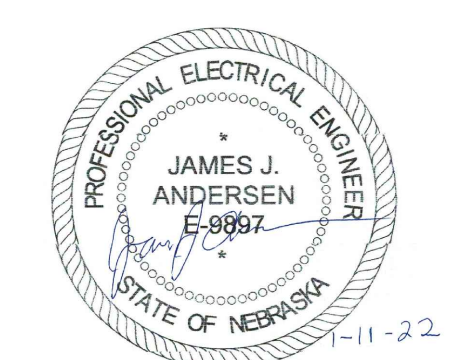


LEGEND
 DUCTBANK DB-D (D10) = DUCTBANK D, CONDUIT D10



ISSUE	DATE	DESCRIPTION
	03/10/2022	ADDENDUM #3
	01/11/2022	ISSUED FOR BID

PROJECT MANAGER	A. SHRIVASTAVA
PROCESS	D. DEVITT
STRUCTURAL	A. GINZBURG
ELECTRICAL	J. ANDERSEN
CIVIL	B. HINDLEY
INSTRUMENTATION	E. SANDERS
PROJECT NUMBER	10273453



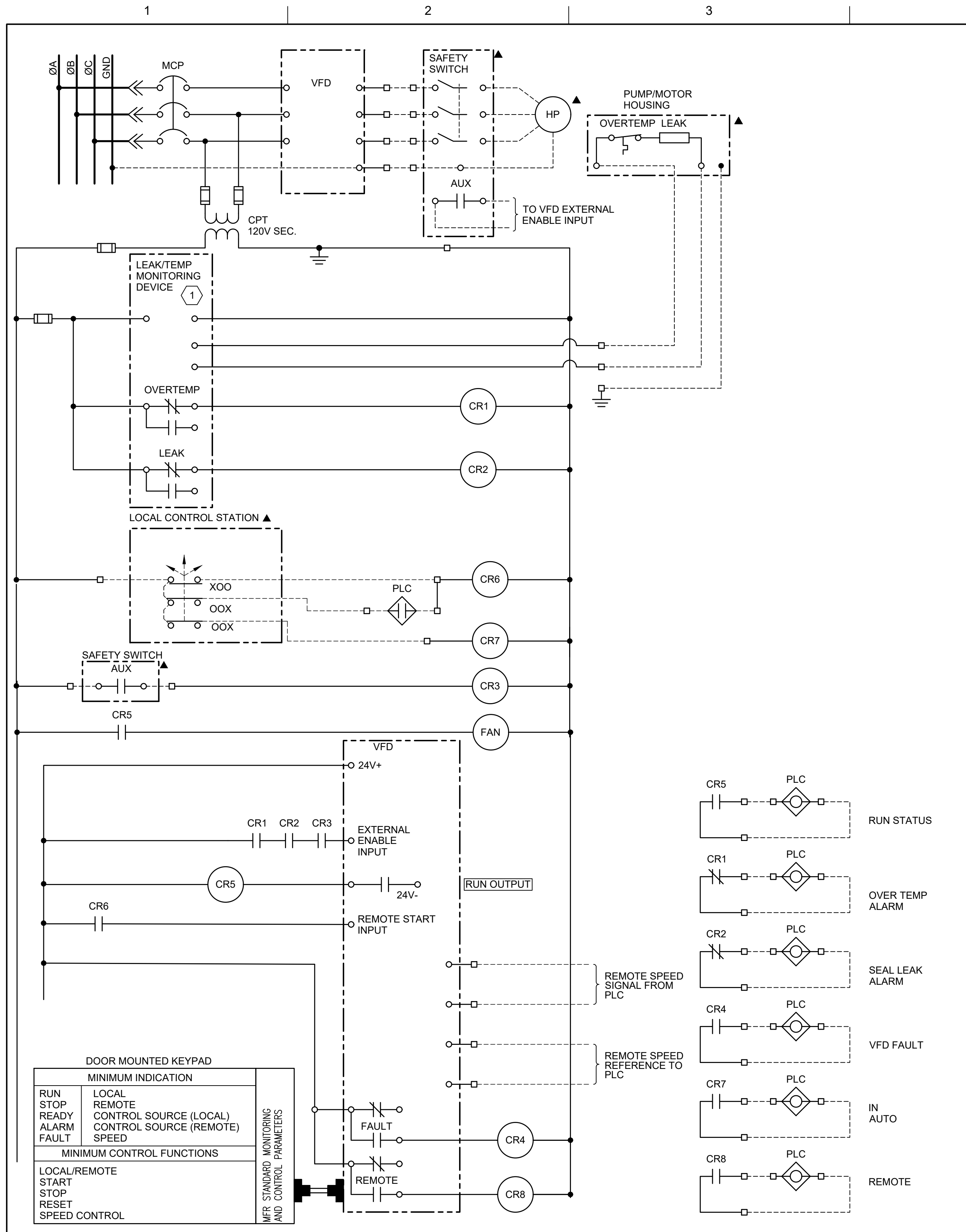
CITY OF GRAND ISLAND
WASTEWATER TREATMENT PLANT
FLOW IMPROVEMENTS

AERATION BASIN
ONE-LINE DIAGRAM

0 1" 2"

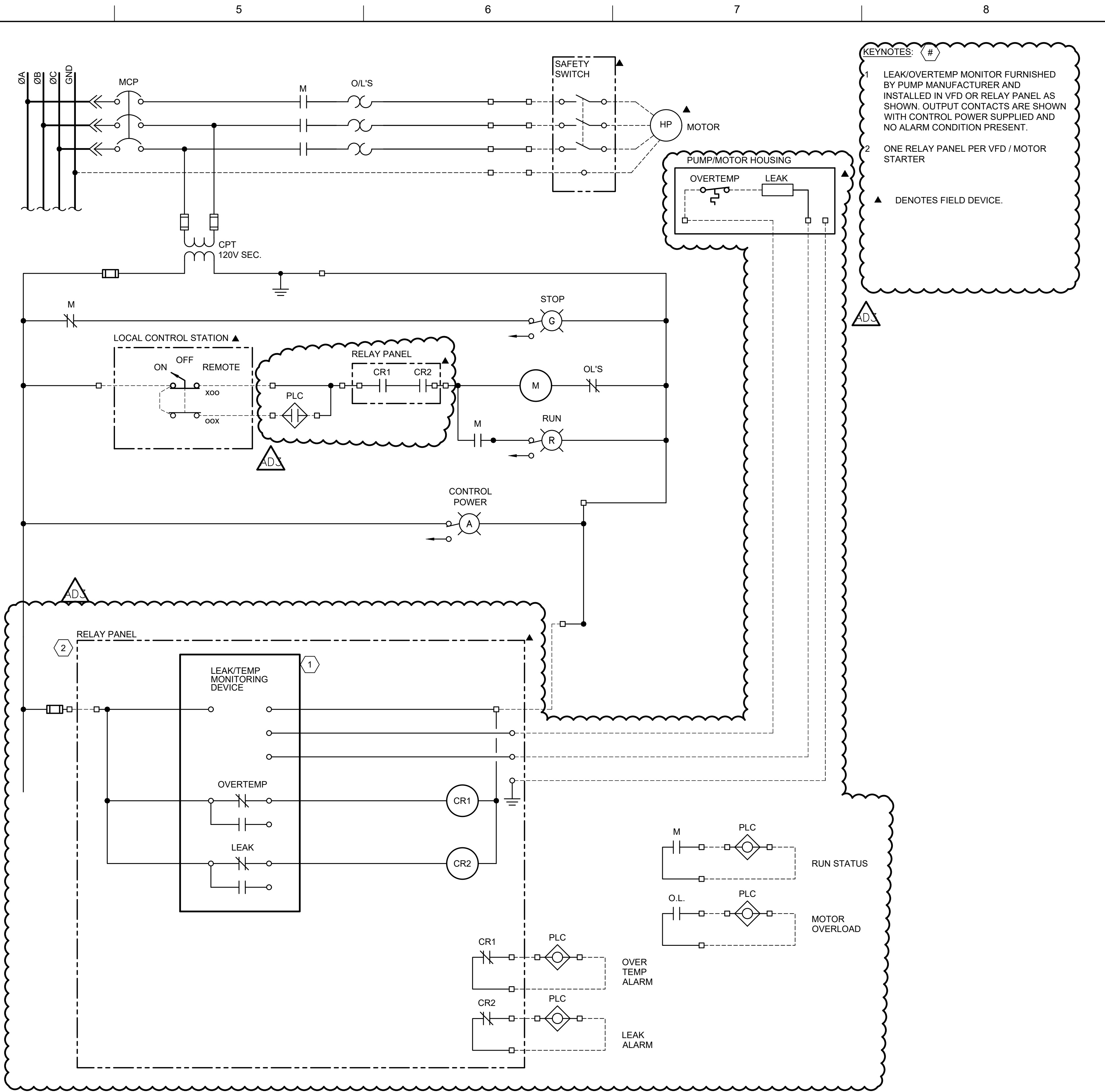
FILENAME | 04E607.DWG
 SCALE | NONE

SHEET
04E607



CONTROL DIAGRAM CD1

MIXED LIQUOR PUMPS:
 P-0290-01
 P-0290-02
 P-0290-03
 P-0290-04



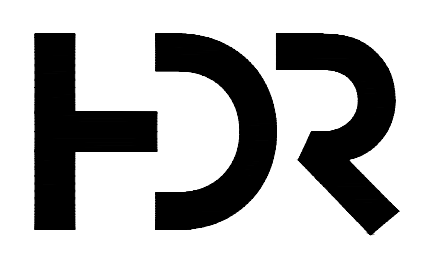
CONTROL DIAGRAM CD2

MIXERS:
 M-0291-01
 M-0291-02
 M-0291-03
 M-0291-04

KEYNOTES:

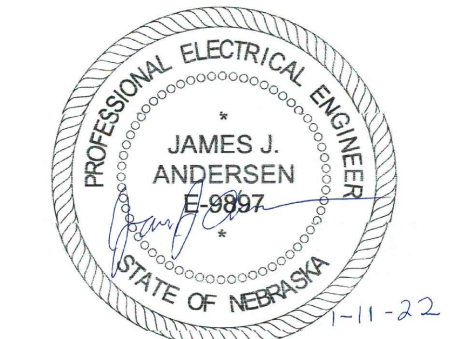
- LEAK/OVERTEMP MONITOR FURNISHED BY PUMP MANUFACTURER AND INSTALLED IN VFD OR RELAY PANEL AS SHOWN. OUTPUT CONTACTS ARE SHOWN WITH CONTROL POWER SUPPLIED AND NO ALARM CONDITION PRESENT.
- ONE RELAY PANEL PER VFD / MOTOR STARTER

▲ DENOTES FIELD DEVICE.



ISSUE	DATE	DESCRIPTION
	03/10/2022	ADDENDUM #3
	01/11/2022	ISSUED FOR BID
	11/23/2021	ISSUED FOR 100% REVIEW
	10/18/2021	ISSUED FOR 90% CLIENT REVIEW
	6/30/2021	ISSUED FOR 50% CLIENT REVIEW

PROJECT MANAGER	A. SHRIVASTAVA
PROCESS	D. DEVITT
STRUCTURAL	A. GINZBURG
ELECTRICAL	J. ANDERSEN
CIVIL	B. HINDLEY
INSTRUMENTATION	E. SANDERS
PROJECT NUMBER	10273453



CITY OF GRAND ISLAND
WASTEWATER TREATMENT PLANT
FLOW IMPROVEMENTS

AERATION BASIN CONTROL DIAGRAMS

0 1" 2"

FILENAME | 04E608.DWG
 SCALE | NONE

SHEET
04E608