

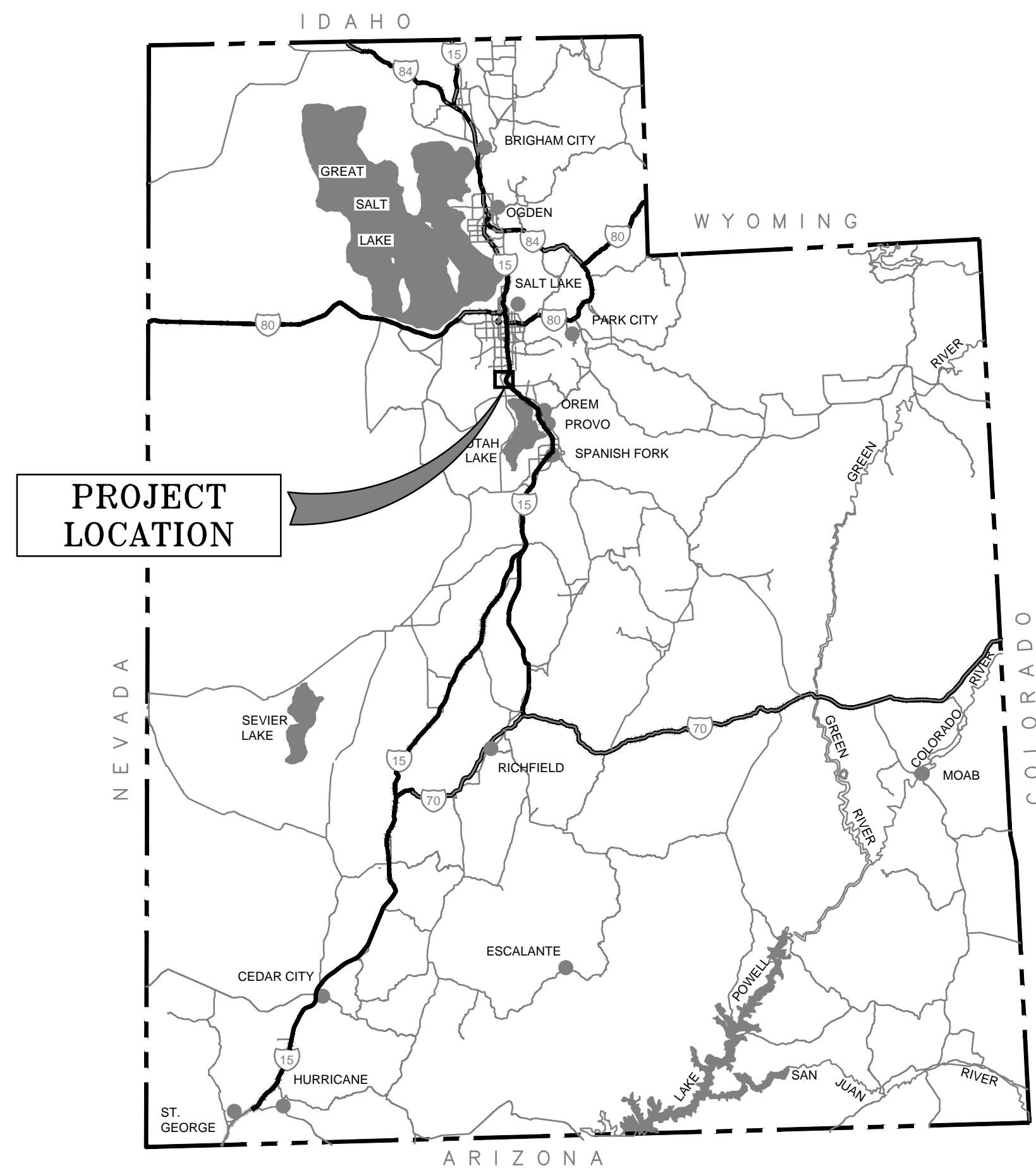


JORDAN VALLEY WATER
CONSERVANCY DISTRICT

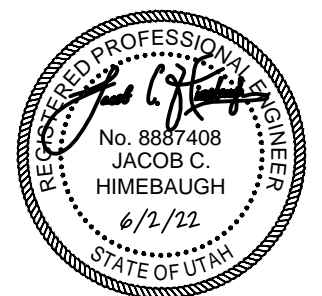
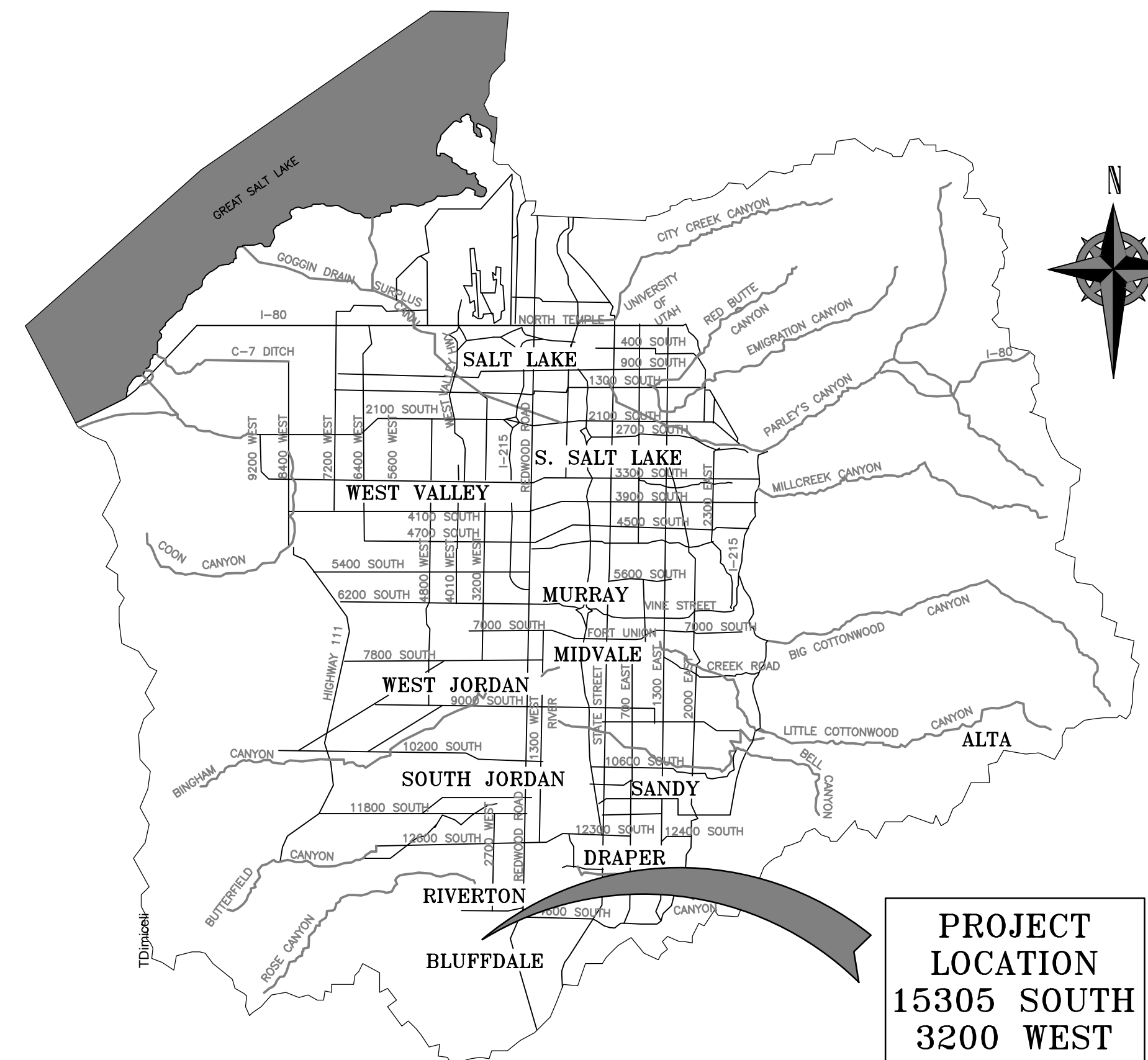
JORDAN VALLEY WATER TREATMENT PLANT SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT

JORDAN VALLEY PROJECT 4277

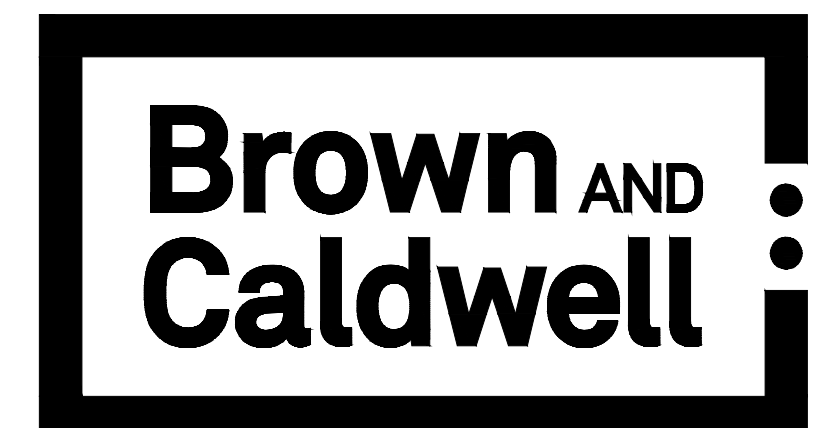
STATE MAP



PROJECT VICINITY



VOLUME III OF IV
BID SET
JUNE 2022



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| 3 | G-00-003 | ABBREVIATIONS |
| 4 | G-00-004 | SITE LAYOUT AND STAGING AREA |
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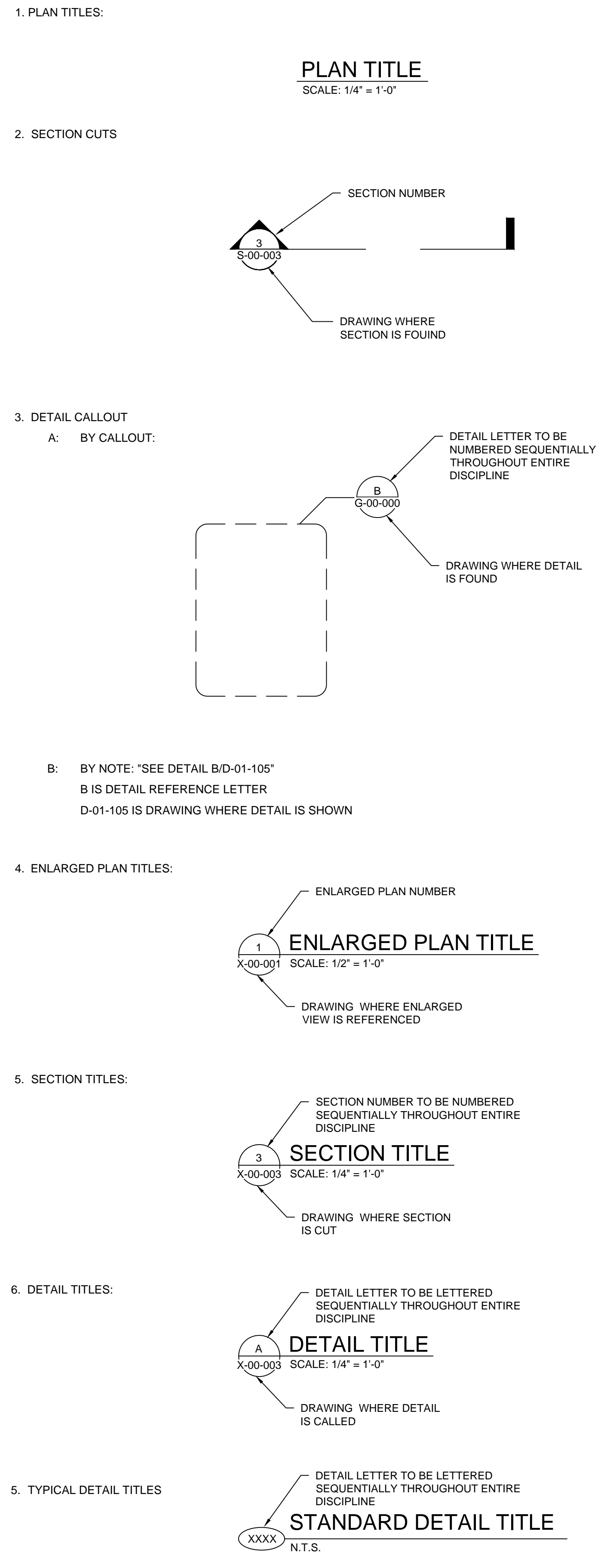
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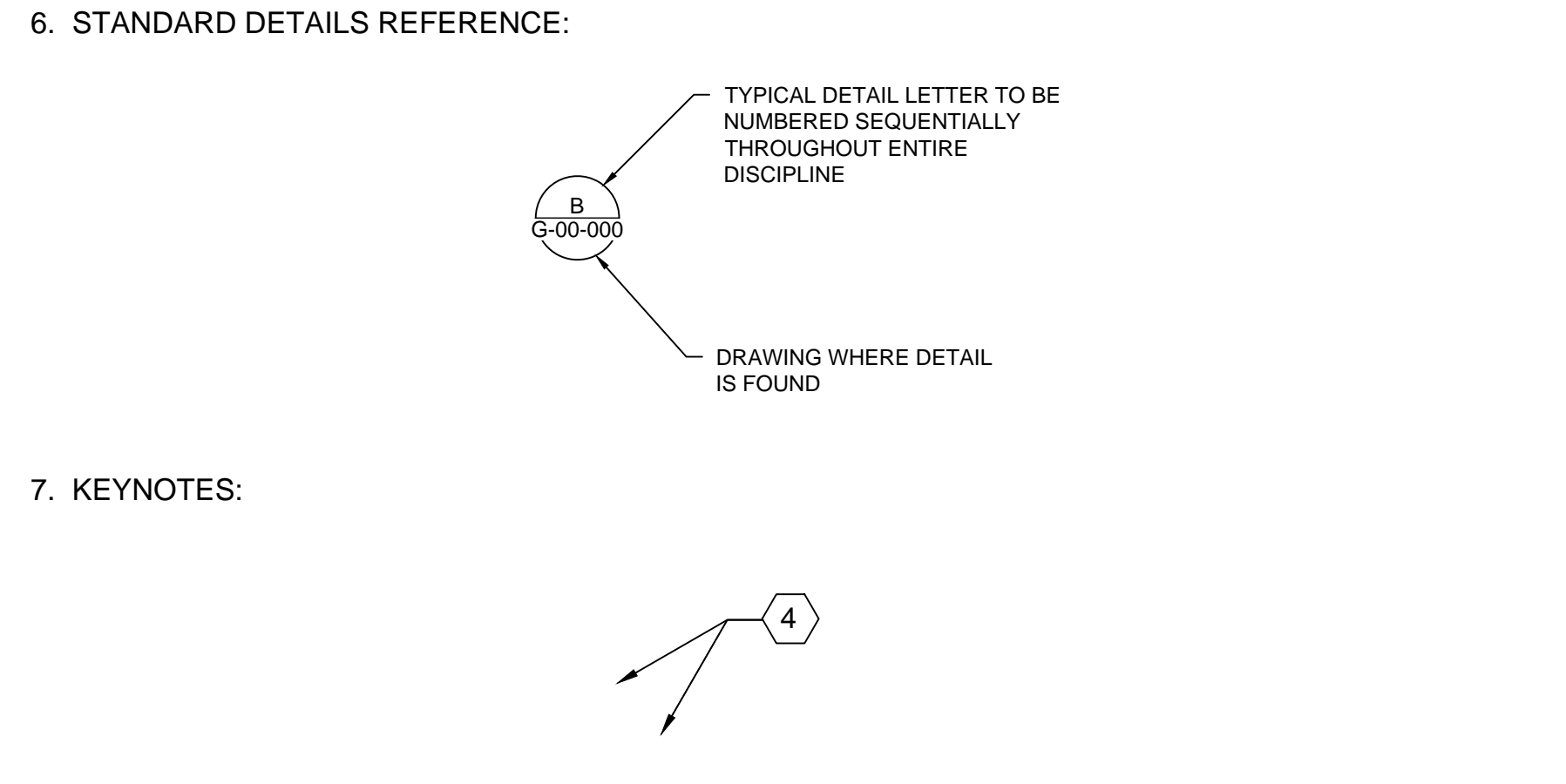
GENERAL NOTES

- THE NOTE IN THE TITLE BLOCK OF THIS DRAWING WHICH READS "TWO INCHES AT FULL SCALE" APPEARS ON DRAWINGS FOR IDENTIFICATION OF SCALE DISTORTIONS ON HALF SIZE DRAWINGS AND DRAWING REPRODUCTIONS. IT SHALL MEAN THAT THE DRAWING IS FULL SIZE AND THE DRAWING SCALES ACCURATE WHEN THE LENGTH OF THIS LINE IS TWO INCHES. IF THE LENGTH IS OTHER THAN TWO INCHES, DRAWING SCALES MUST BE ADJUSTED ACCORDINGLY.
- ABBREVIATIONS USED IN THIS CONTRACT DOCUMENT CONFORM TO ANSI Y1.1, UNLESS NOTED OTHERWISE ON DRAWINGS.
- ALL STANDARD DETAILS APPLY TO ALL THE CONTRACTORS WORK WHETHER SPECIFICALLY REFERENCED OR NOT.
- SEE FRONT END SHEETS FOR EACH DISCIPLINES STANDARD SYMBOLS, ETC.
- THE SHADED PORTIONS (EXISTING CONDITIONS) OF THE DRAWINGS WERE TAKEN FROM JWVTP RECORD DRAWINGS BUT HAVE NOT BEEN VERIFIED BY BROWN AND CALDWELL. DIMENSIONS, FEATURES, AND DETAILS MAY VARY FROM FIELD CONDITIONS. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS THAT MAY IMPACT WORK.
- SEE ADDITIONAL GENERAL NOTES THROUGHOUT DRAWING SET.

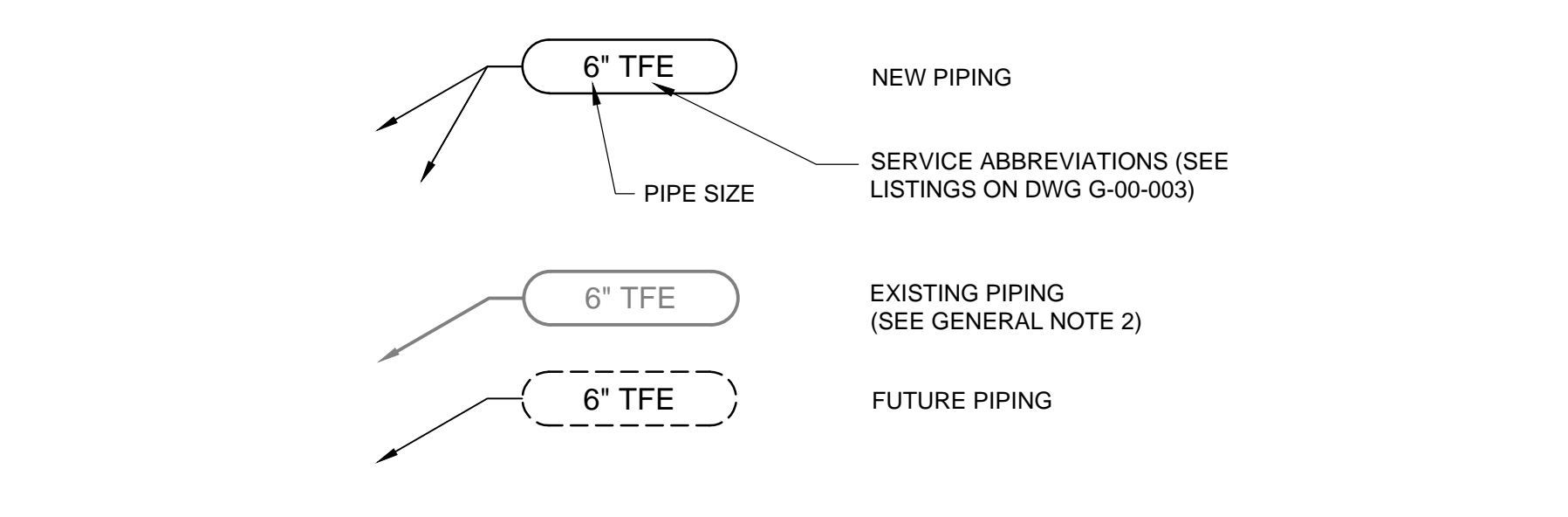
CROSS REFERENCING SYSTEM



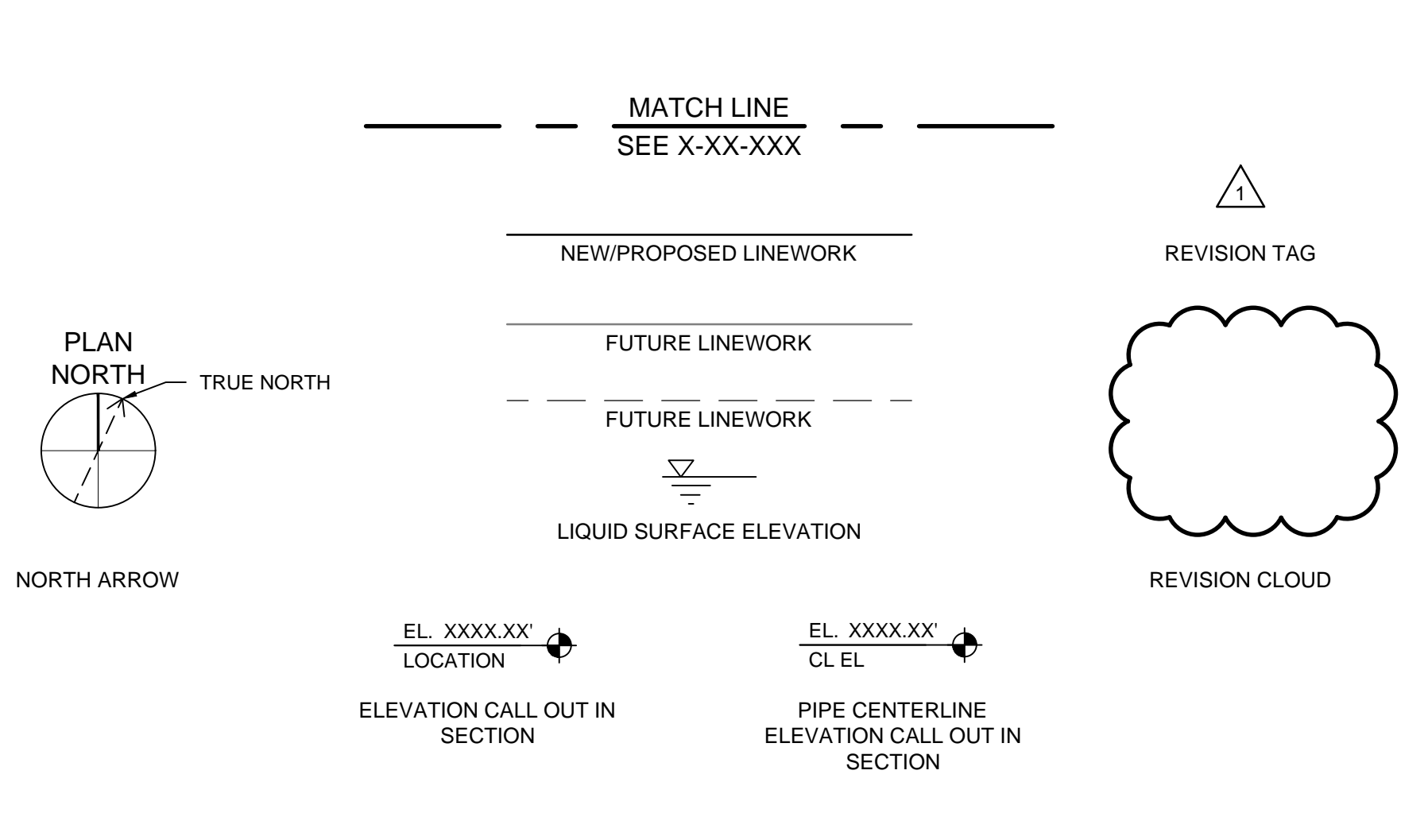
CROSS REFERENCING SYSTEM (CONTINUED)



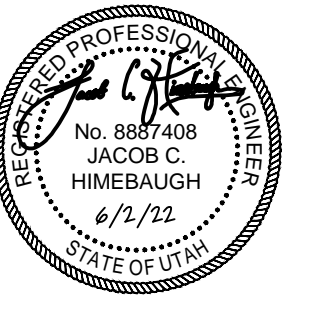
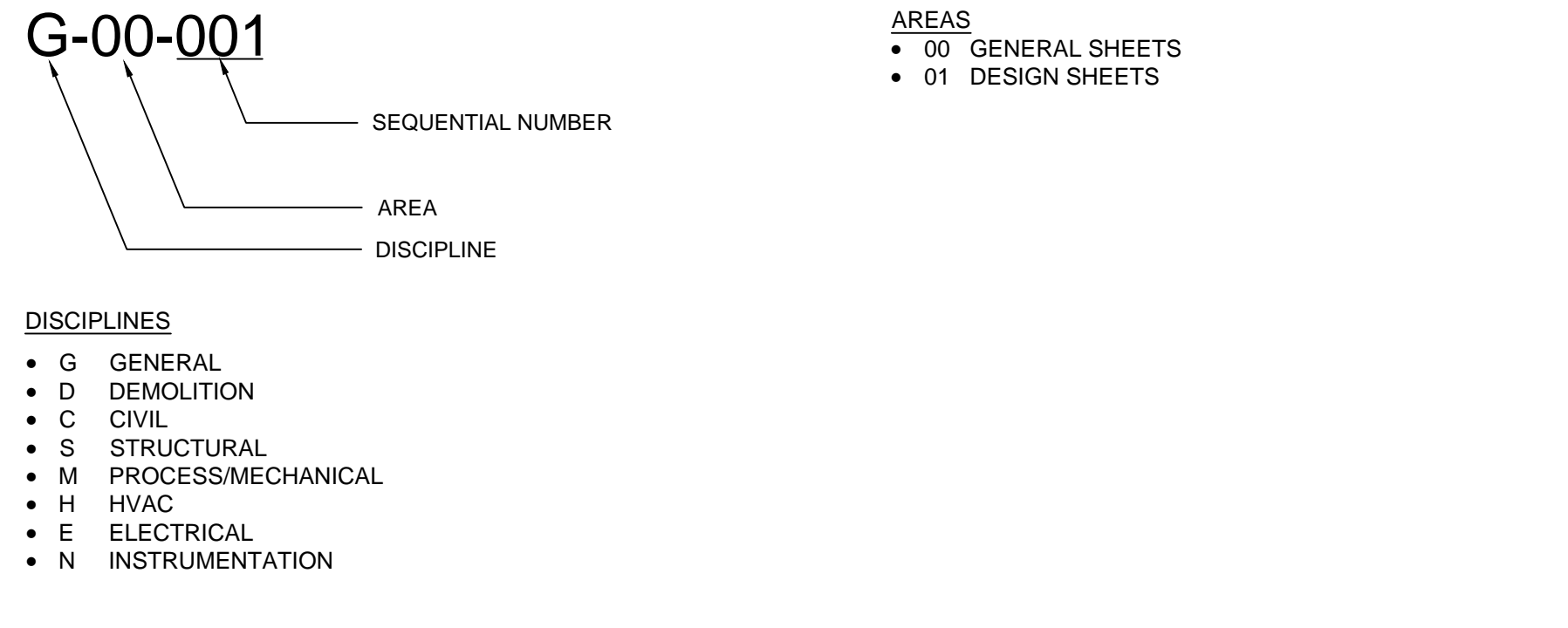
PIPING IDENTIFICATION SYSTEM



MISCELLANEOUS



DRAWING NUMBERING SYSTEM



BID SET



JWVTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT

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DESIGNED: J. HIMEBAUGH
 DRAWN: T. DIMICELI
 CHECKED:
 CHECKED:
 APPROVED: J. HIMEBAUGH

FILENAME: G-00-002.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277

GENERAL

DRAWING INDEX, GENERAL NOTES, LEGENDS AND SYMBOLS

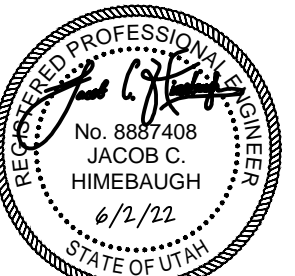
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SHEET NUMBER OF: **2** OF **48**

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Path: C:\BPCPW\1668242 FILENAME: G-00-003.DWG PLOT DATE: 6/1/2022 2:04 PM CAD USER: RUSSELL PERSHING

Table with 6 columns (1-6) and multiple rows of abbreviations. Column 1: Abbreviation (e.g., A/C, AB, ABAN). Column 2: Description (e.g., AIR CONDITIONING, ANCHOR BOLT). Column 3: Abbreviation (e.g., COL, COMB, COMM). Column 4: Description (e.g., COLUMN, COMBINATION). Column 5: Abbreviation (e.g., FMCT, FMH, FN). Column 6: Description (e.g., FLOW METER COMPOUND TORRENT, FLEXIBLE METAL HOSE). Includes sub-sections like -A-, -B-, -C-, -D-, -E-, -F-, -G-, -H-, -I-, -J-, -K-, -L-, -M-, -N-, -O-, -P-, -Q-, -R-, -S-, -T-, -U-, -V-, -W-, -X-, -Y-.



BID SET



JVWTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT

REVISIONS

Table with 3 columns: REV, DATE, DESCRIPTION. Contains a grid for tracking revisions.

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: J. HIMEBAUGH
DRAWN: T. DIMICELI
CHECKED:
CHECKED:

APPROVED: J. HIMEBAUGH

FILENAME: G-00-003.dwg
BC PROJECT NUMBER: 157012
CLIENT PROJECT NUMBER: 4277

GENERAL

ABBREVIATIONS

DRAWING NUMBER: G-00-003
SHEET NUMBER OF: 3 OF 48

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GENERAL NOTES:

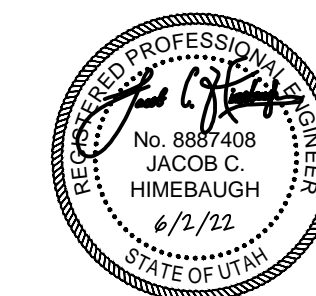
1. THE CONTRACTOR SHALL STAGE AND STORE ALL MATERIAL AND EQUIPMENT IN THE DESIGNATED STAGING AREAS.
2. ACCESS TO SITE SHALL BE THROUGH THE SOUTH ENTRANCE DESIGNATED ON THIS DRAWING. ALL DELIVERIES SHALL BE VIA THIS ENTRANCE.
3. VERIFY LOCATION OF RAW WATER INFLUENT PIPE PRIOR TO STAGING AND ARRIVAL OF EQUIPMENT AND VEHICLES. LOCATION OF PIPE SHOWN ON THIS DRAWING MAY DIFFER THAN ACTUAL LOCATION.
4. PROTECT RAW WATER INFLUENT PIPE AT CROSSINGS WITH THE ACCESS ROAD. LIMIT TRAFFIC TO H-20 RATED LOADINGS OR LESS. WHEN CROSSING WITH ANYTHING HEAVIER, PROTECT THE CROSSING WITH A BRIDGE (E.G. STEEL PLATES) TO DISTRIBUTE LOAD.
5. DO NOT STAGE EQUIPMENT WITHIN 25 FEET OF RAW WATER INFLUENT PIPE CENTERLINE.

KEY NOTES:

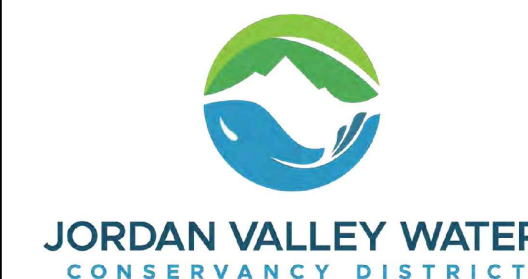
1. STAGING AND CONTRACTOR PARKING AREA
2. SOUTH PLANT ENTRANCE
3. 90" RAW WATER INFLUENT PIPE

BUILDING INDEX:

- A. FILTER BUILDING
- B. CHEMICAL/CONTROLS BUILDING
- C. SEDIMENTATION BASIN 1
- D. SEDIMENTATION BASIN 2
- E. SEDIMENTATION BASIN 3
- F. SEDIMENTATION BASIN 4
- G. SEDIMENTATION BASIN 5
- H. SEDIMENTATION BASIN 6



BID SET



**JWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT**

REVISIONS

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DESIGNED: J. HIMEBAUGH

DRAWN: T. DIMICELI

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APPROVED: J. HIMEBAUGH

FILENAME

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BC PROJECT NUMBER

157012

CLIENT PROJECT NUMBER

4277

GENERAL

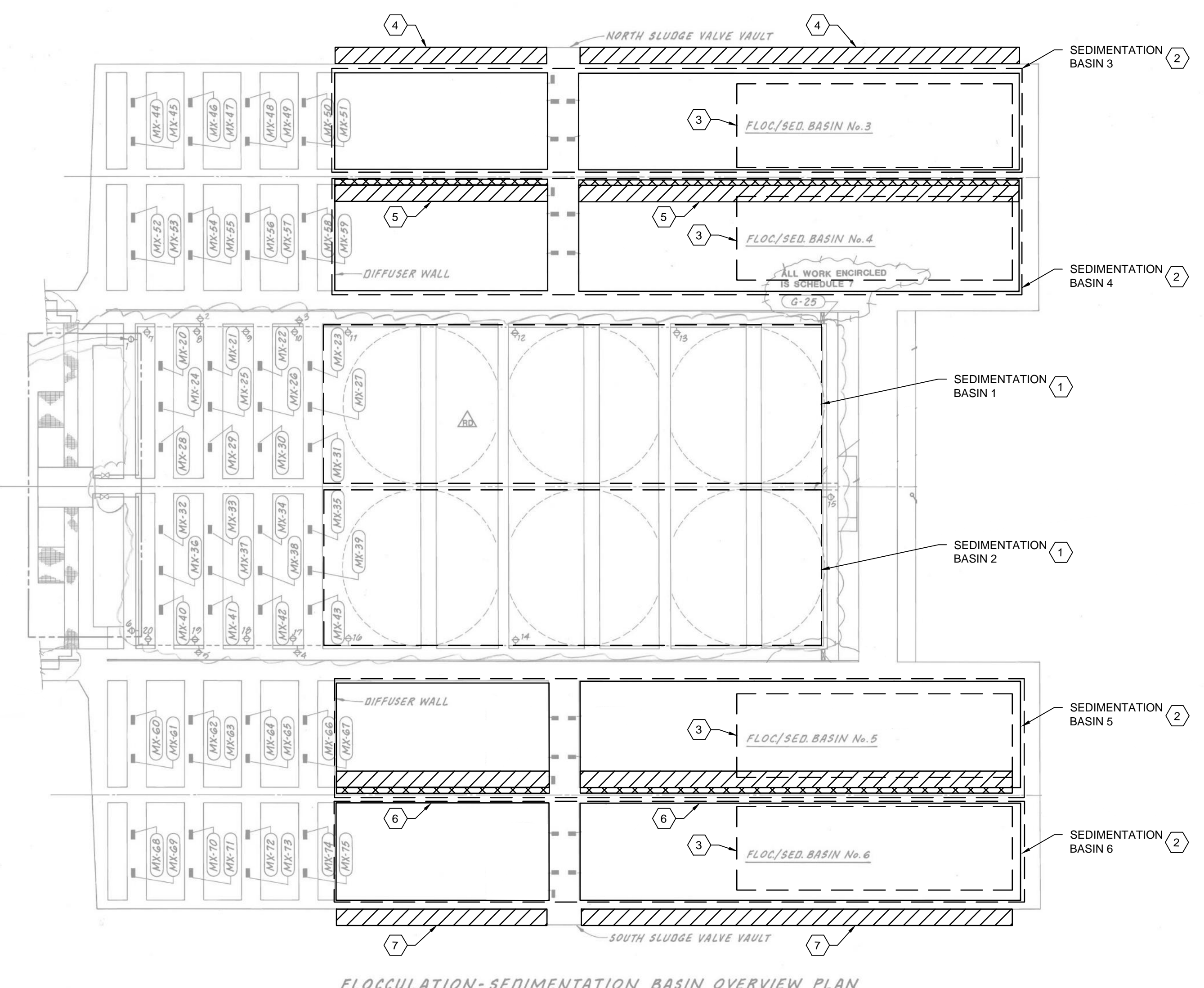
**SITE LAYOUT AND
STAGING AREA**

DRAWING NUMBER

G-00-004

SHEET NUMBER

4 OF **48**



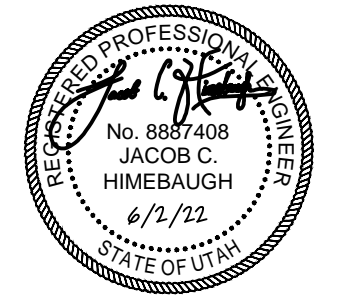
FLOCCULATION-SEDIMENTATION BASIN OVERVIEW PLAN

GENERAL NOTES:

- REFER TO DRAWINGS AND INSTALLATION INSTRUCTIONS PROVIDED BY EACH MANUFACTURER DURING THE SUBMITTAL PROCESS FOR ALL INFORMATION REQUIRED FOR INSTALLATION OF THE CHAIN AND FLIGHT AND PLATE SETTLER EQUIPMENT.
- ALL ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 01 73 24 AND SECTION 05 05 20. INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE EQUIPMENT MANUFACTURER'S AND EPOXY SYSTEM MANUFACTURER'S INSTRUCTIONS.
- PROPER CARE SHALL BE TAKEN TO PREVENT CONTAMINATION OF STAINLESS STEEL COMPONENTS WITH FREE IRON. FOLLOW ALL RECOMMENDATIONS PROVIDED IN PARAGRAPH 8 OF ASTM A380.
- CONTRACTOR SHALL ALERT ENGINEER OF ANY BLOOMING OR EVIDENCE OF RUST FOUND ON STAINLESS STEEL COMPONENTS SUPPLIED BY THE MANUFACTURER PRIOR TO INSTALLATION. ANY BLOOMING OR EVIDENCE OF RUST FOUND AFTER INSTALLATION SHALL BE CLEANED AND TESTED BY MANUFACTURER IN ACCORDANCE WITH ASTM A380.
- REFER TO WORK SEQUENCE SPECIFICATION (SECTION 01 12 16) FOR INFORMATION ON WORK RESTRICTIONS AND CONSTRUCTION SEQUENCING.
- THIS SHEET REFERS TO GENERAL ASPECTS OF THE WORK CONTAINED IN THIS PROJECT TO PROVIDE CLARIFICATION TO THE DRAWING PACKAGE. IT IS NOT CONSIDERED A COMPLETE LIST OF THE WORK PERFORMED FOR THIS PROJECT. REFER TO ALL VOLUMES OF THE CONTRACT DOCUMENTS FOR A COMPLETE OVERVIEW OF THE WORK.

KEY NOTES:

- PERFORM WORK ON THE THREE CIRCULAR SOLIDS REMOVAL MECHANISMS IN EACH BASIN (BASIN 1 AND BASIN 2).
- INSTALL THE CHAIN AND FLIGHT SOLIDS COLLECTION EQUIPMENT IN THE FORE AND AFT BAY OF BASIN 3 THROUGH BASIN 6. REFER TO VOLUME IV OF IV FOR FURTHER INFORMATION.
- PROVIDE AND INSTALL INCLINED PLATE SEDIMENTATION EQUIPMENT IN BASIN 3 THROUGH BASIN 6. REFER TO SECTION 43 73 76 FOR FURTHER INFORMATION.
- PERFORM STRUCTURAL MODIFICATIONS ON EXTERIOR WALL OF BASIN 3 AS DISCUSSED IN THE CONTRACT DOCUMENTS.
- PERFORM STRUCTURAL MODIFICATIONS ON THE NORTH (PLAN NORTH) WALL OF BASIN 4 AS INSTRUCTED IN THE CONTRACT DOCUMENTS.
- PERFORM STRUCTURAL MODIFICATIONS ON THE SOUTH (PLAN SOUTH) WALL OF BASIN 5 AS INSTRUCTED IN THE CONTRACT DOCUMENTS.
- PERFORM STRUCTURAL MODIFICATIONS ON THE EXTERIOR WALL OF BASIN 6 AS INSTRUCTED IN THE CONTRACT DOCUMENTS.



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**JVWTP
SOLIDS COLLECTION
EQUIPMENT
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DESIGNED: J. HIMEBAUGH

DRAWN: T. DIMICELI

CHECKED:

CHECKED:

APPROVED: J. HIMEBAUGH

FILENAME

G-01-005.dwg

BC PROJECT NUMBER

157012

CLIENT PROJECT NUMBER

4277

GENERAL

**GENERAL JVWTP
BASIN LAYOUT**

DRAWING NUMBER

G-01-005

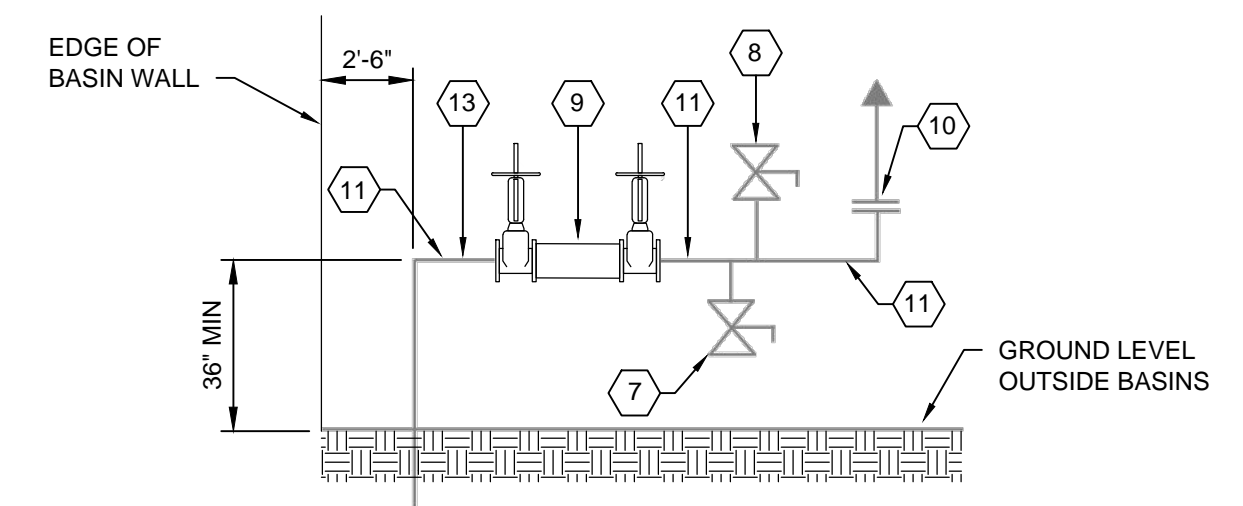
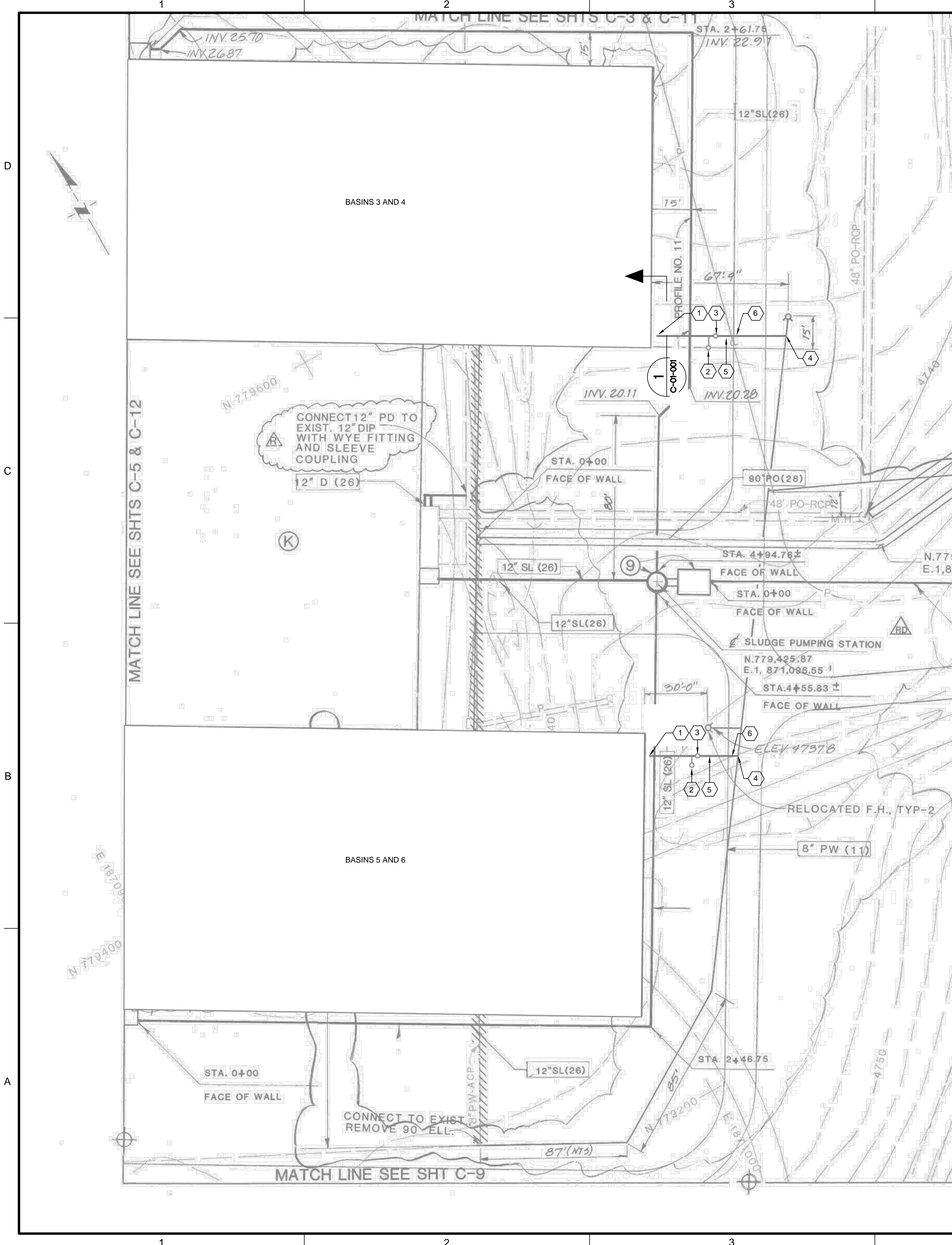
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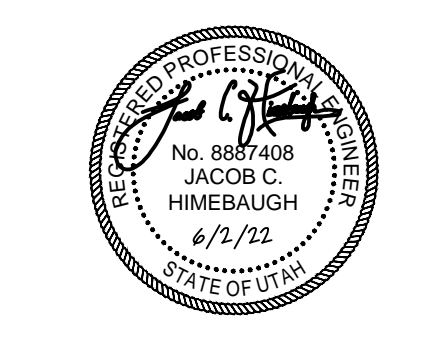
SECTION 1 (12)
RPZ BACKFLOW PREVENTER DETAIL

GENERAL NOTES:

1. ALL ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 01 73 24 AND SECTION 05 05 20. INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE EQUIPMENT MANUFACTURER'S AND EPOXY SYSTEM MANUFACTURER'S INSTRUCTIONS.

KEY NOTES:

1. PROVIDE BACKFLOW PREVENTER LAYOUT IN ACCORDANCE WITH THE DETAIL PROVIDED ON THIS DRAWING.
2. PROVIDE A 1" BRASS CURB STOP VALVE TO DRAIN THE PIPING BETWEEN THE BACKFLOW PREVENTER AND THE ISOLATION VALVE MARKED AS KEYNOTE 3. INSTALL BELOW THE LOCAL FROST LINE OF 30" OR AT OR BELOW THE INVERT ELEVATION OF THE NEW 4" DUCTILE IRON PIPE. PROVIDE A CURB BOX AND OPERATOR KEY OF SUFFICIENT LENGTH TO ACCESS THE OPERATOR NUT ON THE VALVE FROM THE SURFACE.
3. PROVIDE A 4" FLANGED AWWA 509 GATE VALVE (CLOW F-6102, AMERICAN AVK SERIES 25 OR EQUAL) IN LOCATION SHOWN. INSTALL BELOW THE LOCAL FROST LINE OF 30". PROVIDE AN EXTENSION STEM, VALVE BOX AND AWWA STANDARD 2-INCH SQUARE NUT OPERATOR WITHIN SIX INCHES OF THE VALVE BOX COVER. INSTALL VALVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. PROTECT VALVE WITH SHRINK SLEEVE OR POLYETHYLENE SHEATH ATTACHED TO THE PIPE WITH TAPE WRAP. POSITION APPROXIMATELY 35' FROM BASIN WALL.
4. CUT EXISTING PIPE TO INSTALL A FLANGED 8"x8"x4" REDUCING TEE UP STREAM OF THE SHUT-OFF VALVE OF THE HYDRANT AS TO NOT INTERFERE WITH ITS OPERATION OR VALVE BOX. INSTALL TEE BETWEEN TWO US PIPE TR FLEX FLANGE CONNECTION PIECES. PROVIDE THRUST BLOCK ON BACK DESIGNED TO RESIST 150 PSI HYDROSTATIC PRESSURE. PROVIDE A SUBMITTAL WITH DETAILED DESIGN OF THE THRUST BLOCK PRIOR TO INSTALLATION.
5. USE DUCTILE IRON PIPE (250 PSI PRESSURE RATING MINIMUM) WITH US PIPE TR FLEX RESTRAINED JOINT PIPE. USE FLANGED CONNECTIONS FOR ABOVE GROUND PIPING. USE NON-CORROSIVE, HIGH STRENGTH, 316 STAINLESS STEEL FASTENERS FOR ALL BURIED CONNECTIONS. USE ASTM A193 GRADE B7 BOLTS AND ASTM A194 GRADE 2H HEAVY HEX NUTS FOR ALL ABOVE GROUND PIPING. COAT PIPE AND FASTENERS WITH AN NSF-61 CERTIFIED COATING SUCH AS TNEMIC SERIES 22 OR EQUAL.
6. SAW CUT ASPHALT PRIOR TO REMOVING. AFTER REFILLING T-TRENCH, SAW CUT ASPHALT AROUND ANY DAMAGED EDGES BEFORE PATCHING. PATCH AREA WITH ASPHALT OF SAME GRADE AND THICKNESS AS EXISTING.
7. PROVIDE A 2" SCH 80 GALVANIZED STEEL DRAIN WITH A BRASS BODIED BALL VALVE. CONNECT DRAIN TO UNDERSIDE OF PIPE USING A THREADED CONNECTION.
8. PROVIDE A 1/2" SCHEDULE 80 GALVANIZED STEEL CONNECTION FOR AIR PURGING DURING WINTERIZATION WITH A BRASS BODIED BALL VALVE. CONNECT VENT TO TOP OF PIPE USING A THREADED CONNECTION.
9. PROVIDE 4" NSF 61 COMPLIANT REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER (WATT SERIES 994 OR EQUAL) SUITABLE FOR OUTDOOR INSTALLATION.
10. TRANSITION FROM DUCTILE IRON PIPE TO CPVC AT THIS LOCATION. SEE DRAWING M-01-001 FOR A CONTINUATION OF THE PIPING. REDUCE FROM 4" TO 3" IN CPVC AFTER FLANGE.
11. MOUNT 316 SS WALL BRACKET (UNISTRUT TYP P2945 OR EQUAL) AT LOCATIONS SHOWN USING TWO 316 SS ANCHORS AND HARDWARE. ATTACH PIPE TO BRACKET USING A 316 SS PIPE CLAMP (UNISTRUT TYPE P1119 OR EQUAL).
12. DETAIL SHOWS RPZ FOR BASINS 3 AND 4. RPZ FOR BASINS 5 AND 6 IS A MIRROR IMAGE OF THAT SHOWN IN THE DETAIL.
13. PROVIDE A 4" NSF 61 COMPLIANT PRESSURE REDUCING VALVE (WATT'S SERIES LFF127W OR EQUAL) SUITABLE FOR OUTDOOR INSTALLATION.



BID SET



**JVWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT**

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DESIGNED: J. HIMEBAUGH

DRAWN: T. DIMICELI

CHECKED:

CHECKED:

APPROVED: J. HIMEBAUGH

FILENAME

C-01-001.dwg

BC PROJECT NUMBER

157012

CLIENT PROJECT NUMBER

4277

CIVIL

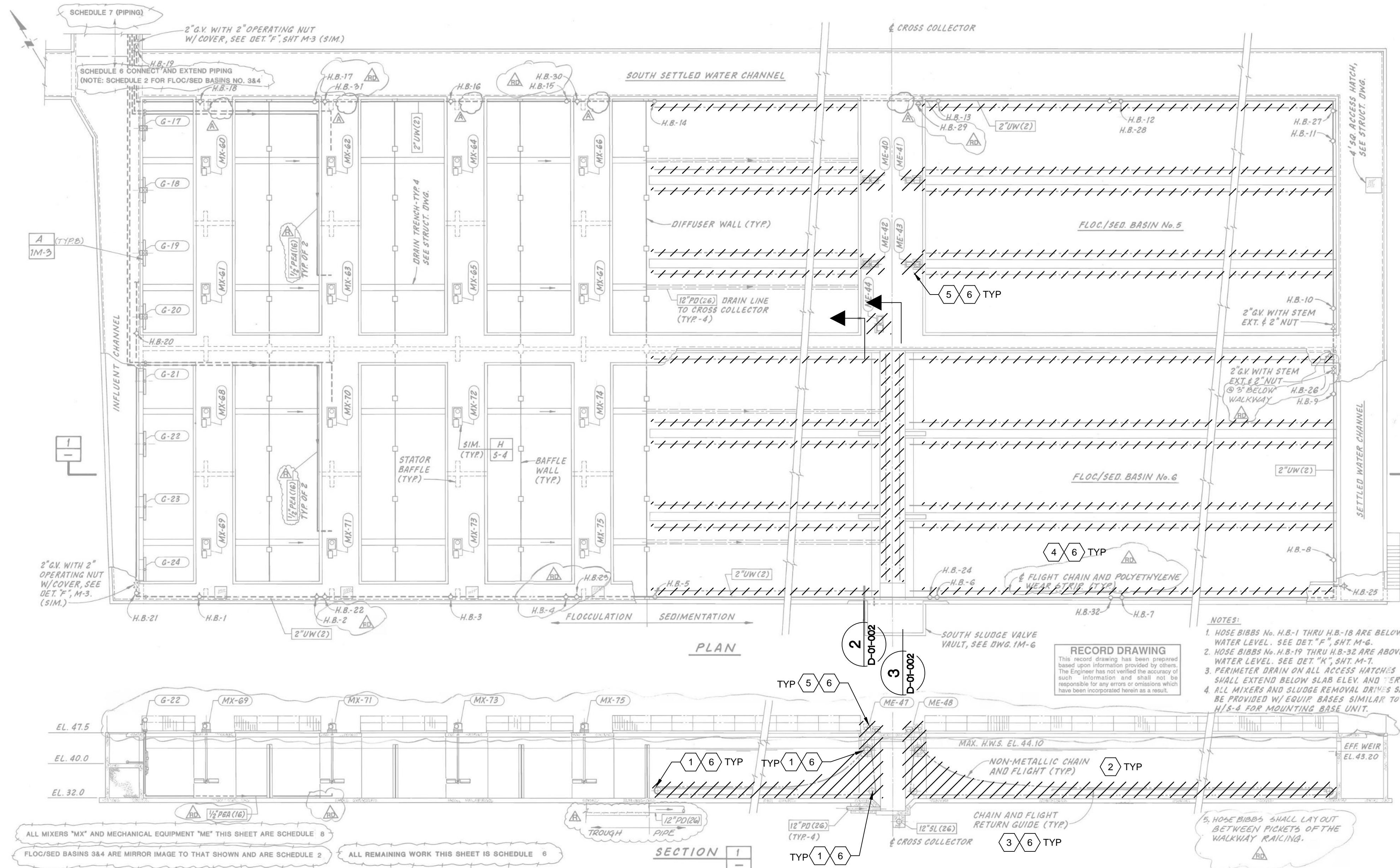
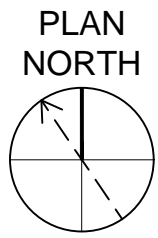
CIVIL YARD PIPING

DRAWING NUMBER

C-01-001

SHEET NUMBER OF

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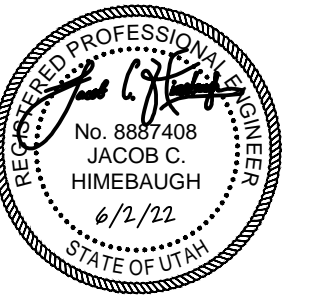


GENERAL NOTES:

- DEMOLITION WORK SHALL BE SEQUENCED AND COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- CONTRACTOR TO VERIFY EXISTING UTILITY LOCATIONS PRIOR TO DEMOLITION.
- CONTRACTOR TO VERIFY WITH OWNER EQUIPMENT TO BE SALVAGED.
- PERFORM DEMOLITION OF THE CHAIN AND FLIGHT EQUIPMENT IN SEDIMENTATION BASIN 3 AND 4 AS DEFINED ON THIS DRAWING FOR SEDIMENTATION BASIN 5 AND 6. LAYOUT OF SEDIMENTATION BASIN 3 AND 4 IS A MIRROR IMAGE OF SEDIMENTATION BASIN 5 AND 6 SHOWN ON THIS DRAWING.
- REFER TO THE STRUCTURAL DRAWINGS FOR INFORMATION ON DEMOLITION OF SELECT CURB WALLS, CORBELS AND SHORT WALLS IN THE BASIN.

KEY NOTES:

- REMOVE SHAFT, SPROCKETS AND BEARINGS FROM WALL (TYP OF THREE PER MECHANISM).
- REMOVE ALL CARRIER CHAIN AND FLIGHTS PER EACH MECHANISM (SEVEN MECHANISMS PER BASIN).
- REMOVE RETURN RAIL, RAIL SUPPORTS AND WEAR STRIPS. (TWO SETS PER MECHANISM).
- REMOVE WEAR STRIPS AND FASTENERS FROM BASIN FLOOR (TWO SETS PER MECHANISM).
- REMOVE ALL CHAIN AND FLIGHT EQUIPMENT ABOVE DECK (HOUSING, MOTOR, GEARBOX ASSEMBLY, DRIVE CHAIN, ETC.) (FIVE ASSEMBLIES PER BASIN).
- CUT ALL REMAINING ANCHORAGE BACK A MINIMUM OF 1/4" INTO THE CONCRETE BEFORE FILLING THE OPENINGS WITH SIKADUR 31 (OR EQUAL).



BID SET



JWTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT

REVISIONS

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LINE IS 2 INCHES AT FULL SIZE

DESIGNED: J. HIMEBAUGH

DRAWN: T. DIMICELI

CHECKED:

CHECKED:

APPROVED: J. HIMEBAUGH

FILENAME: D-01-001.dwg
BC PROJECT NUMBER: 157012
CLIENT PROJECT NUMBER: 4277

PROCESS DEMOLITION

CHAIN AND FLIGHT DEMOLITION - PLAN AND SECTIONS 1

DRAWING NUMBER: D-01-001

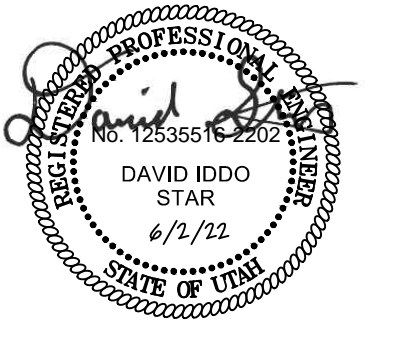
7 SHEET NUMBER OF 48

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KEY NOTES

1. DEMOLISH THE EXISTING 84-#12AWG CABLES IN THE EXISTING 2" CONDUIT BETWEEN THE EXISTING MCC-N1 AND THE EXISTING PULLBOX PB-214.
2. DEMOLISH THE EXISTING 56-#12AWG CABLES IN THE EXISTING 2" CONDUIT BETWEEN THE EXISTING MCC-N1 AND THE EXISTING PULLBOX PB-214.
3. DEMOLISH THE EXISTING 14-#12AWG CABLES IN THE EXISTING 1" CONDUIT BETWEEN THE EXISTING PULLBOX PB-214 AND THE EXISTING MOTOR EQUIPMENT SUPPORT STAND.
4. DEMOLISH THE EXISTING CABLES FOR THE MOTOR RECEPTACLES. EACH MOTOR ME-30 THROUGH ME-39 HAS 1 RECEPTACLE TO BE DEMOLISHED. EXISTING CABLES RUN FROM PANEL-N TO ME-30 THROUGH ME-39. THE LOCATION OF PANEL-N IS SHOWN ON SHEET E-01-006.



BID SET



JWTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT

REVISIONS

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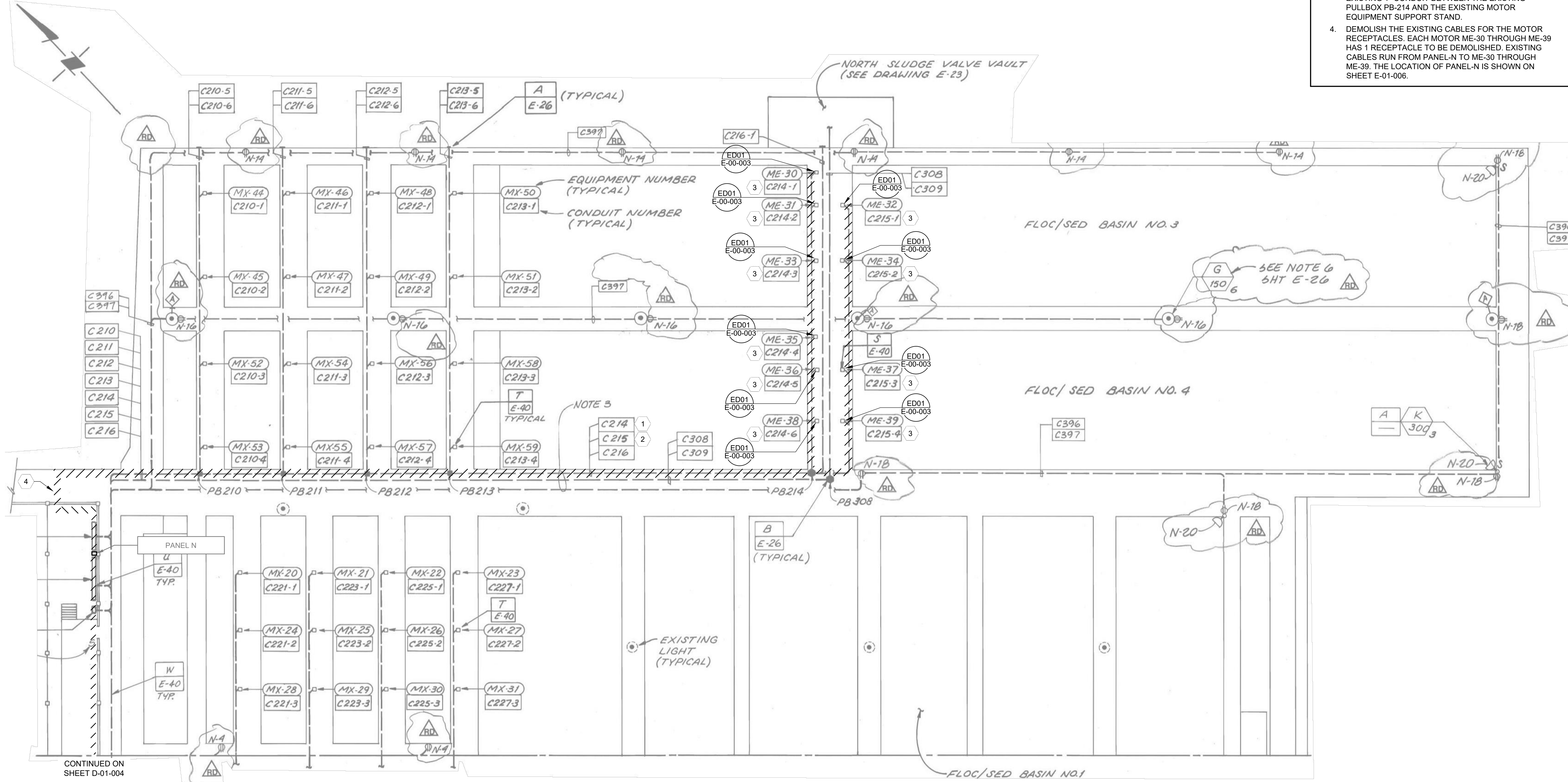
DESIGNED: N. ANDERSON
 DRAWN: B. PENALBA
 CHECKED: J. HIMEBAUGH
 CHECKED: D. STAR
 APPROVED: D. STAR

FILENAME: D-01-003.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277

ELECTRICAL DEMOLITION

SEDIMENTATION BASINS 3 AND 4 DEMOLITION

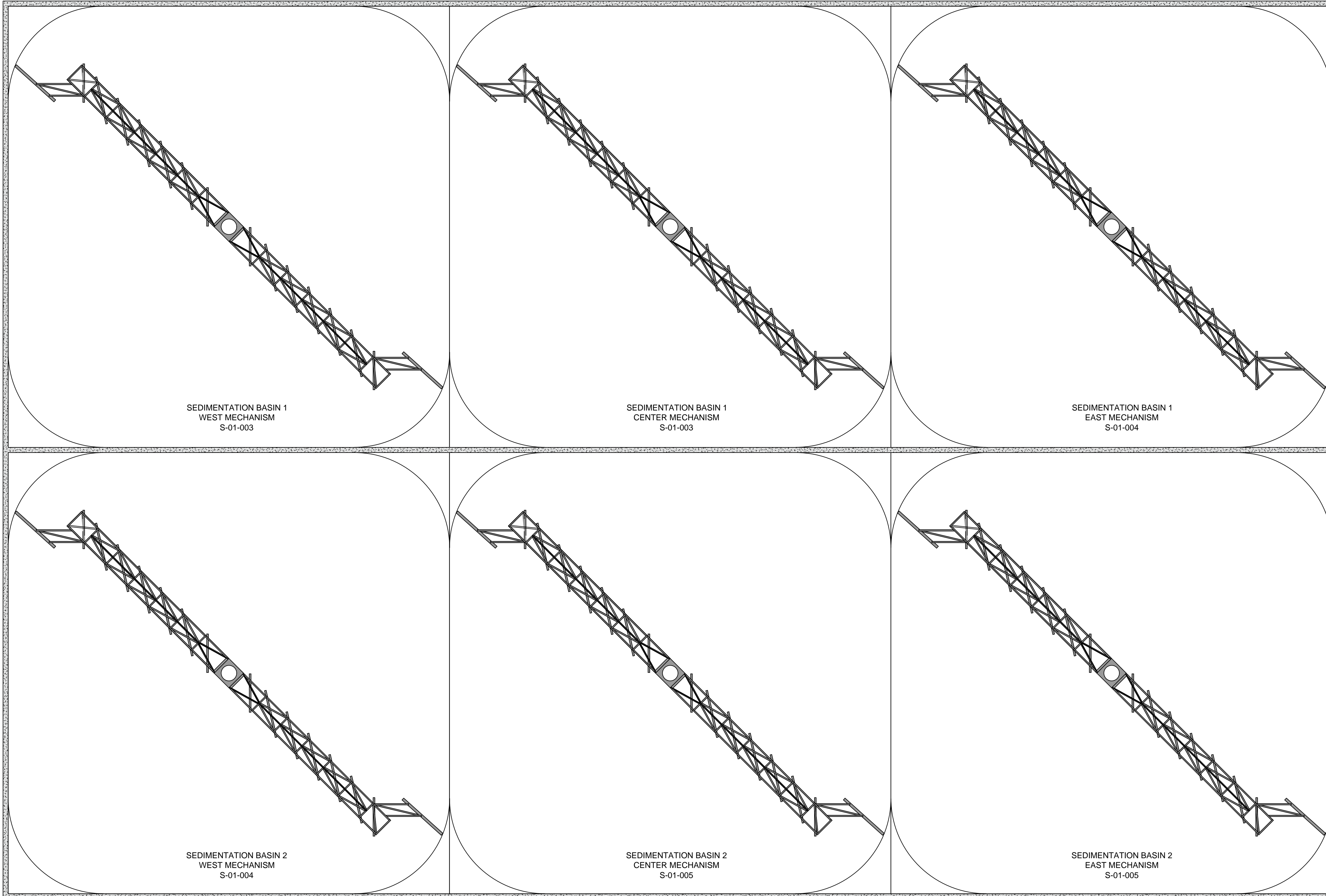
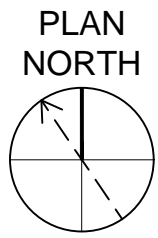
DRAWING NUMBER: D-01-003
 SHEET NUMBER OF: 9 OF 48



SEDIMENTATION BASINS 3 AND 4 DEMOLITION PLAN
SCALE: 1" = 20'-0"

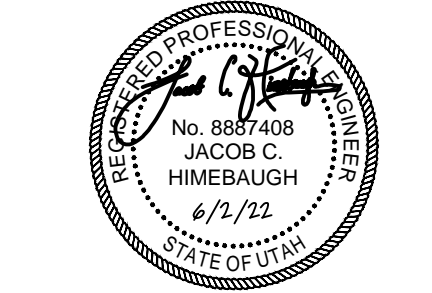


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GENERAL NOTES:

1. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF AWS D1.1. CONTRACTOR SHALL SUBMIT WELD PROCEDURE SPECIFICATIONS, PROCEDURE QUALIFICATION RECORDS AND WELDER CERTIFICATION RECORDS AS PART OF THE SUBMITTAL PROCESS.
2. AREAS OF DAMAGED COATING ON RAKE ARMS IN EXCESS OF FOUR INCHES SQUARED (2IN X 2IN) SHALL BE MARKED FOR RECOATING. INCLUDE (20) TWENTY AREAS PER MECHANISM FOR A TOTAL OF 80 INCHES SQUARED PER MECHANISM AS PART OF THE WORK INCLUDED IN THE BID. CONTRACTOR SHALL ALLOW ENGINEER TO INSPECT MARKED LOCATIONS AND RECOMMEND ANY ADDITIONAL AREAS FOR RECOATING PRIOR TO PERFORMING COATING REPAIRS.
3. COAT ALL AREAS MARKED FOR REPAIR AND ALL STRUCTURAL MEMBERS ADDED DURING THE WORK AS FOLLOWS:
 - A. REMOVE DAMAGED COATING IN AFFECTED AREA IN ACCORDANCE WITH SSPC-SP 2 OR SSPC-SP 3.
 - B. REMOVAL SHALL EXTEND BEYOND DAMAGED AREA OR NEW WELDS TO ENSURE NO LOOSE OR UNADHERED COATING EXISTS AROUND THE PERIMETER OF THE EFFECTED AREA.
 - C. EXISTING COATING SHALL BE FEATHERED (TAPERED) BEYOND THE AFFECTED AREA OVER APPROXIMATELY TWO INCHES TO ENSURE A SMOOTH TRANSITION BETWEEN EXISTING AND THE AFFECTED AREA. NO SHARP EDGES SHALL EXIST OVER THE TRANSITION.
 - D. COATING SHALL BE AN EPOXY COATING MEETING THE REQUIREMENTS PROVIDED IN AWWA C210. COATING SHALL BE NSF-61 CERTIFIED AND DESIGNED FOR IMMERSIVE SERVICE SUCH AS TNEMIC SERIES 22 OR EQUAL.
 - E. RECOATING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C210 AND MANUFACTURER'S INSTRUCTIONS.
 - F. FINAL DRY FILM THICKNESS (DFT) SHALL BE NO LESS THAN 16 MILS. FINAL DFT MAY REQUIRE MULTIPLE COATS AS EACH COAT SHALL NOT EXCEED THE MAXIMUM DFT DEFINED BY THE MANUFACTURER.
4. PROVIDE COATING DATA SHEETS, COATING PROCEDURES AND INSPECTION PROCEDURES, INCLUDING THE QUALITY ASSURANCE PROGRAM OF THE COATER AS PART OF THE SUBMITTAL PROCESS.
5. EACH MECHANISM SHALL BE RE-LEVELED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:
 - A. VERIFY THE RAKE ARMS ARE PARALLEL TO THE FLOOR. IF RAKE ARM VARIES BY MORE THAN 1/8" FROM THE CENTER COLUMN TO THE END OF THE RAKE ARM, USE JACKS TO SUPPORT AND RAISE/LOWER THE RAKE ARM AND ADJUST TIE RODS TO SUPPORT THE RAKE ARM IN THE NEW POSITION. DO NOT ADJUST RAKE ARM WITH THE TIE RODS.
 - B. PERFORM A FULL ROTATION OF THE RAKE ARM AND VERIFY SQUEEGEES DO NOT INTERFERE WITH THE BASIN FLOOR. READJUST AS NECESSARY.



BID SET



**JVWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT**

REVISIONS

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LINE IS 2 INCHES AT FULL SIZE

DESIGNED: J. HIMEBAUGH

DRAWN: T. DIMICELI

CHECKED:

CHECKED: N. KUNZ

APPROVED: J. HIMEBAUGH

FILENAME

S-01-001.dwg

BC PROJECT NUMBER

157012

CLIENT PROJECT NUMBER

4277

STRUCTURAL

CIRCULAR SOLIDS

REMOVAL

EQUIPMENT - 1&2

BASIN LAYOUT

DRAWING NUMBER

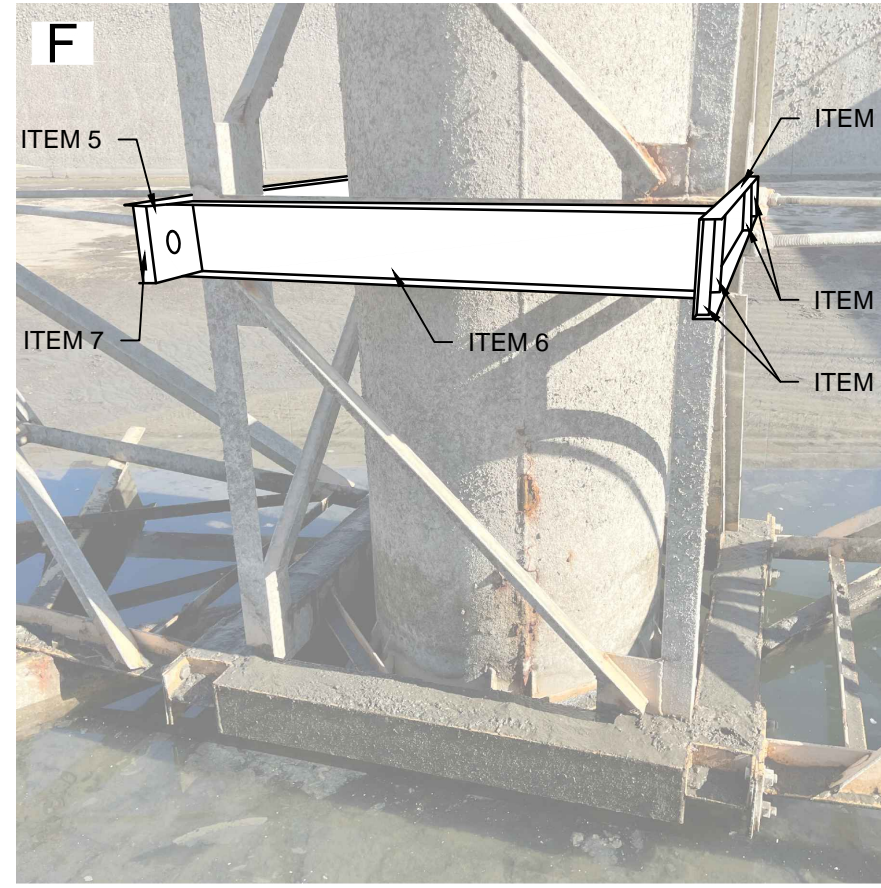
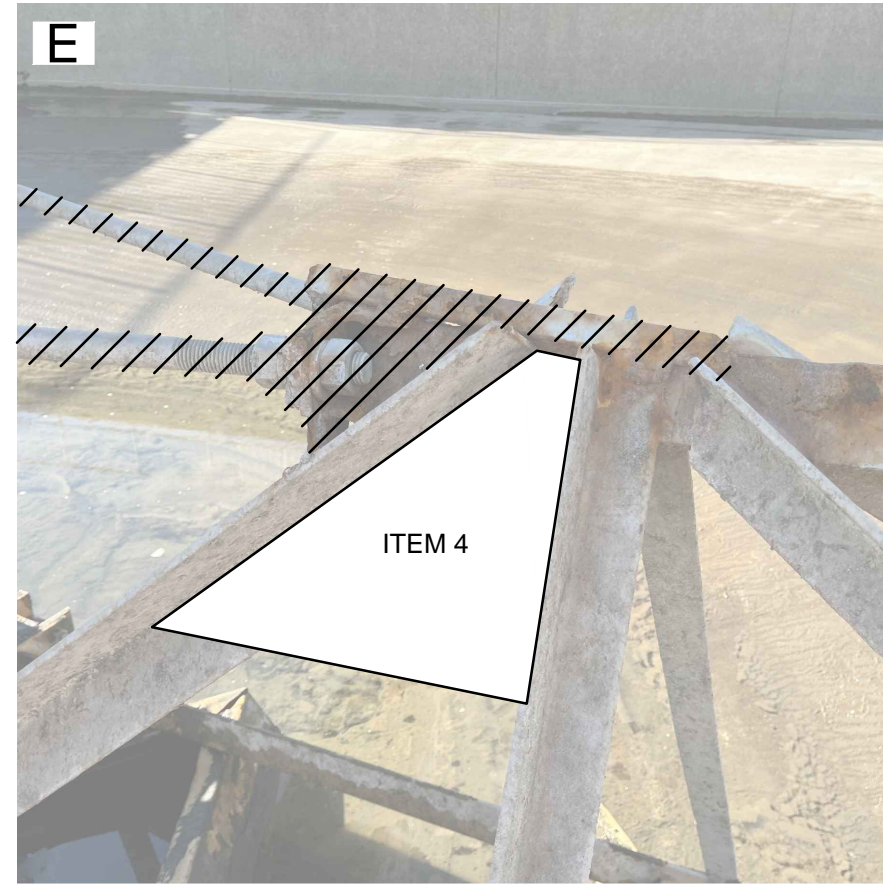
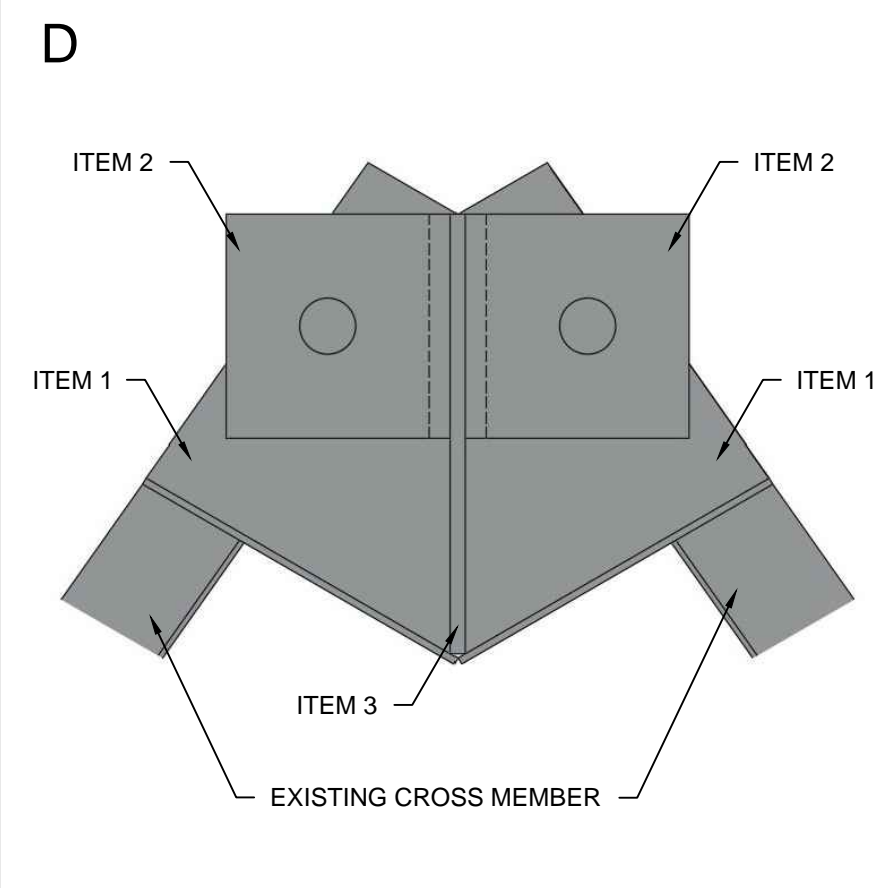
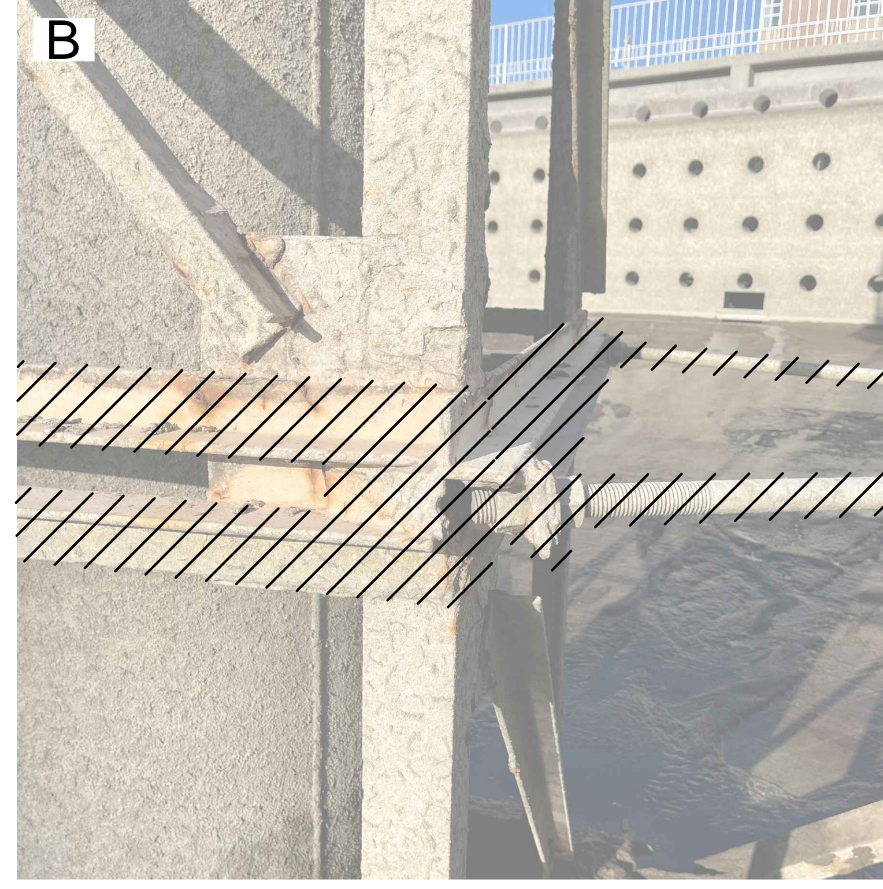
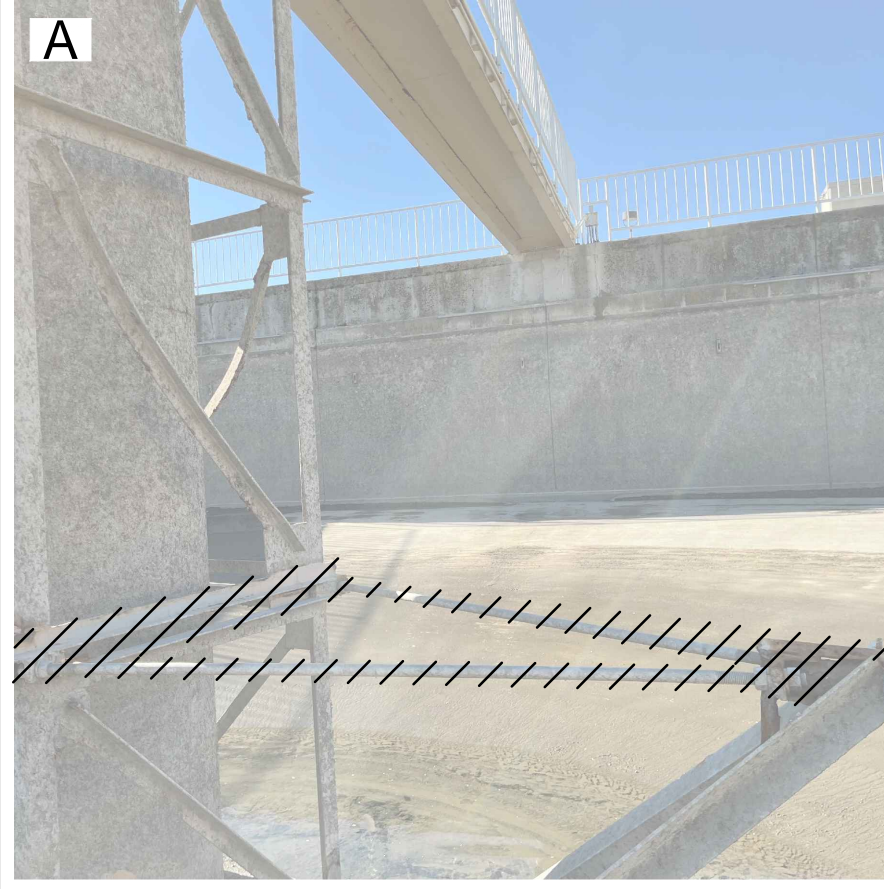
S-01-001

11 SHEET NUMBER

OF 48

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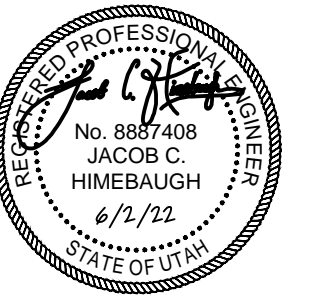
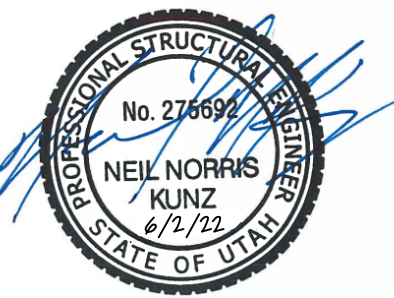
- NOTES:
- REMOVE TIE RODS, DOUBLE ANGLES SURROUNDING THE CENTER STRUCTURAL CAGE AND CONNECTION TO THE RAKE ARM IN THE LOCATIONS SHOWN ON IMAGE A, B AND E.
 - WELD COMPONENTS SHOWN IN IMAGE C AND D TO RAKE ARM, WHICH CONSIST OF THE FOLLOWING:
 ITEM 1: TWO 1/4" PLATES WELDED TO THE EXISTING CROSS MEMBERS, EXTENDED APPROXIMATELY 10 INCHES DOWN THE CROSS MEMBER AND MEETING AT THE VERTICAL CENTER PLANE OF THE RAKE ARM FORMING A V SHAPE.
 ITEM 2: TWO L 4" X 4" X 3/8" STRUCTURAL ANGLE (4' LENGTH) WELDED TO ITEM 3. HOLE SHALL BE OVERSIZED TO ACCOMMODATE INSTALLATION OF A TIE ROD.
 ITEM 3: ONE 1/4" VERTICAL PLATE RUNNING THE LENGTH OF THE VALLEY FORMED WITH BOTH OCCURRENCES OF ITEM 1.
 - ENFORCE AREA BETWEEN CROSS MEMBER AND VERTICAL MEMBER BEHIND TIE ROD CONNECTION WITH A 1/4" PLATE (ITEM 4) ON BOTH SIDES OF THE RAKE ARM. PLATE SHALL EXTEND APPROXIMATELY 10 INCHES DOWN THE CROSS MEMBER.
 - WELD COMPONENTS SHOWN IN IMAGE F TO CENTER STRUCTURAL CAGE, WHICH CONSISTS OF THE FOLLOWING:
 ITEM 5: TWO C CHANNELS (C8X11.5) THAT EXTEND APPROXIMATELY 6 INCHES BEYOND THE EDGES OF THE CENTER STRUCTURAL CAGE TO PROVIDE ROOM FOR A OVERSIZED HOLE USED TO ATTACH THE TIE ROD ON EACH END. RIBS (ITEM 7) SHALL BE WELDED ON BOTH SIDES OF EACH HOLE.
 ITEM 6: TWO C CHANNELS (C8 X 15), EACH WELDED TO THE CENTER STRUCTURAL CAGE AND BOTH OCCURRENCES OF ITEM 5.
 ITEM 7: TWO 1/4" RIBS SURROUNDING THE FOUR HOLES USED TO ATTACH THE TIE RODS. THIS RIBS WELD TO ITEM 5 TO STRENGTHEN THE CHANNEL IN THE AREA OF THE CONNECTION.
 - PROVIDE TIE RODS OF THE SAME DIAMETER AS EXISTING. TIE RODS SHALL BE INSTALLED BETWEEN THE WELDMENT SHOWN IN IMAGE D AND IMAGE F. USE BEVELED WASHERS TO ANGLE THE TIE ROD.
 - MATERIAL SHALL BE A36 CS OR EQUAL. WELD IN ACCORDANCE WITH REQUIREMENTS DEFINED IN DRAWING S-01-0001.
 - COAT STRUCTURAL MEMBER AND SURROUNDING AREA IN ACCORDANCE WITH PROCEDURE DEFINED IN DRAWING S-01-0001.
 - PROVIDE UNIT PRICE FOR THIS WORK IN THE BID SCHEDULE AS INSTRUCTED IN SECTION 01 21 00.

DETAIL S-1001



- NOTES:
- REMOVE BENT SQUEEGEE SUPPORT AND REPLACE WITH NEW SUPPORT OF THE SAME SIZE AND SHAPE. MATERIAL SHALL BE A36 CS OR EQUAL.
 - COAT SUPPORT IN ACCORDANCE WITH THE REQUIREMENTS DEFINED IN DRAWING S-01-0001.

DETAIL S-1002



BID SET



JVWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT

REVISIONS

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LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: J. HIMEBAUGH
 DRAWN: T. DIMICELI
 CHECKED: N. KUNZ
 APPROVED: J. HIMEBAUGH

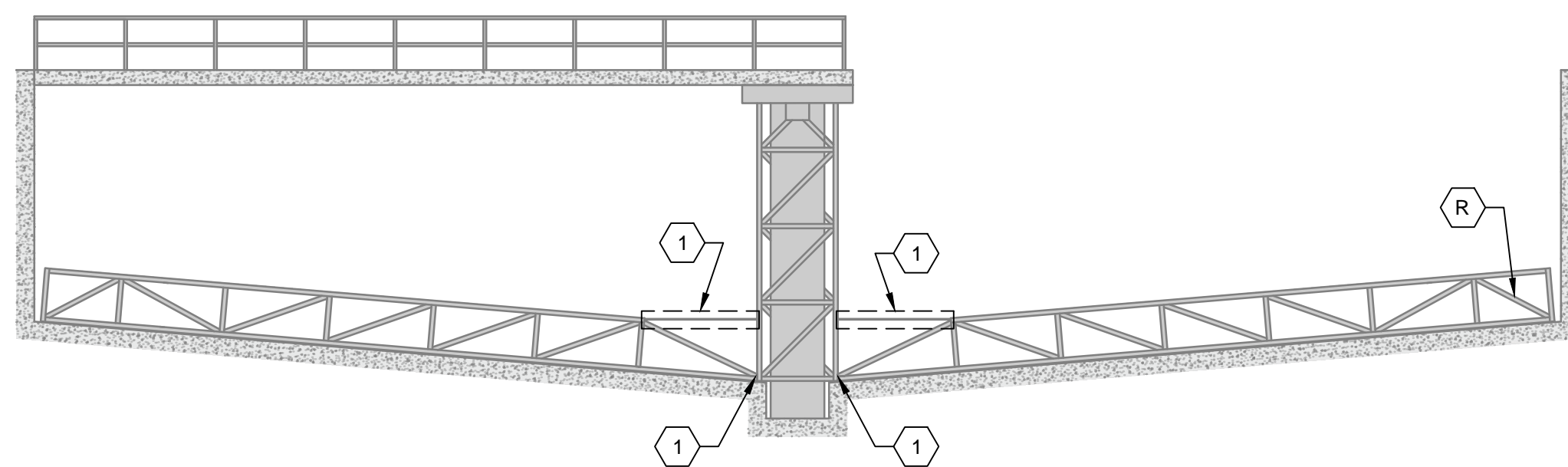
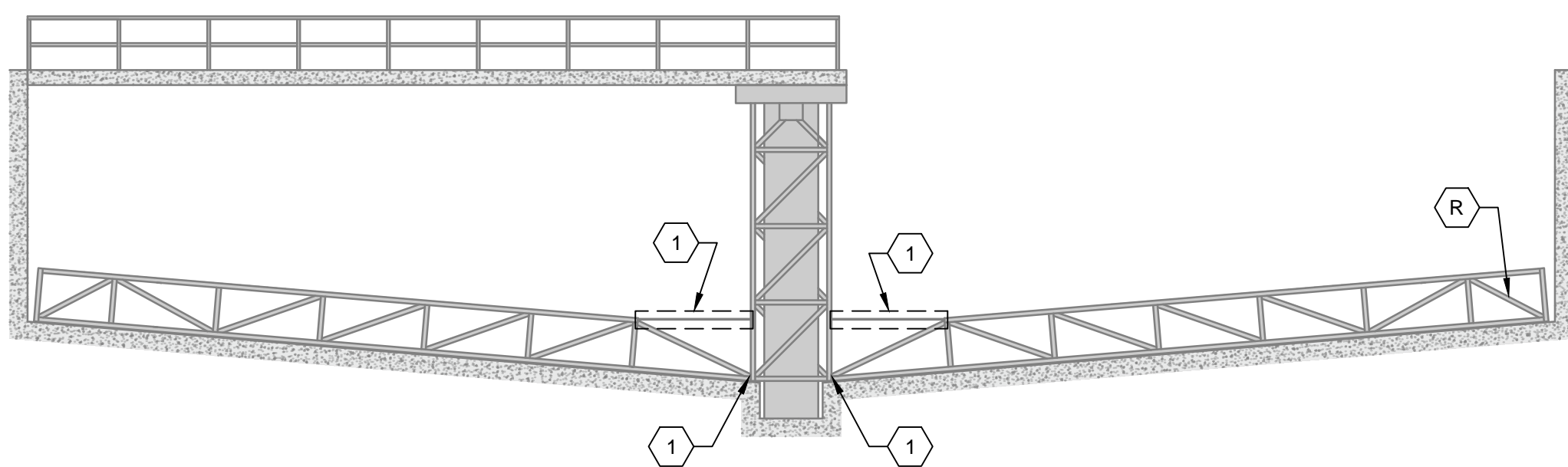
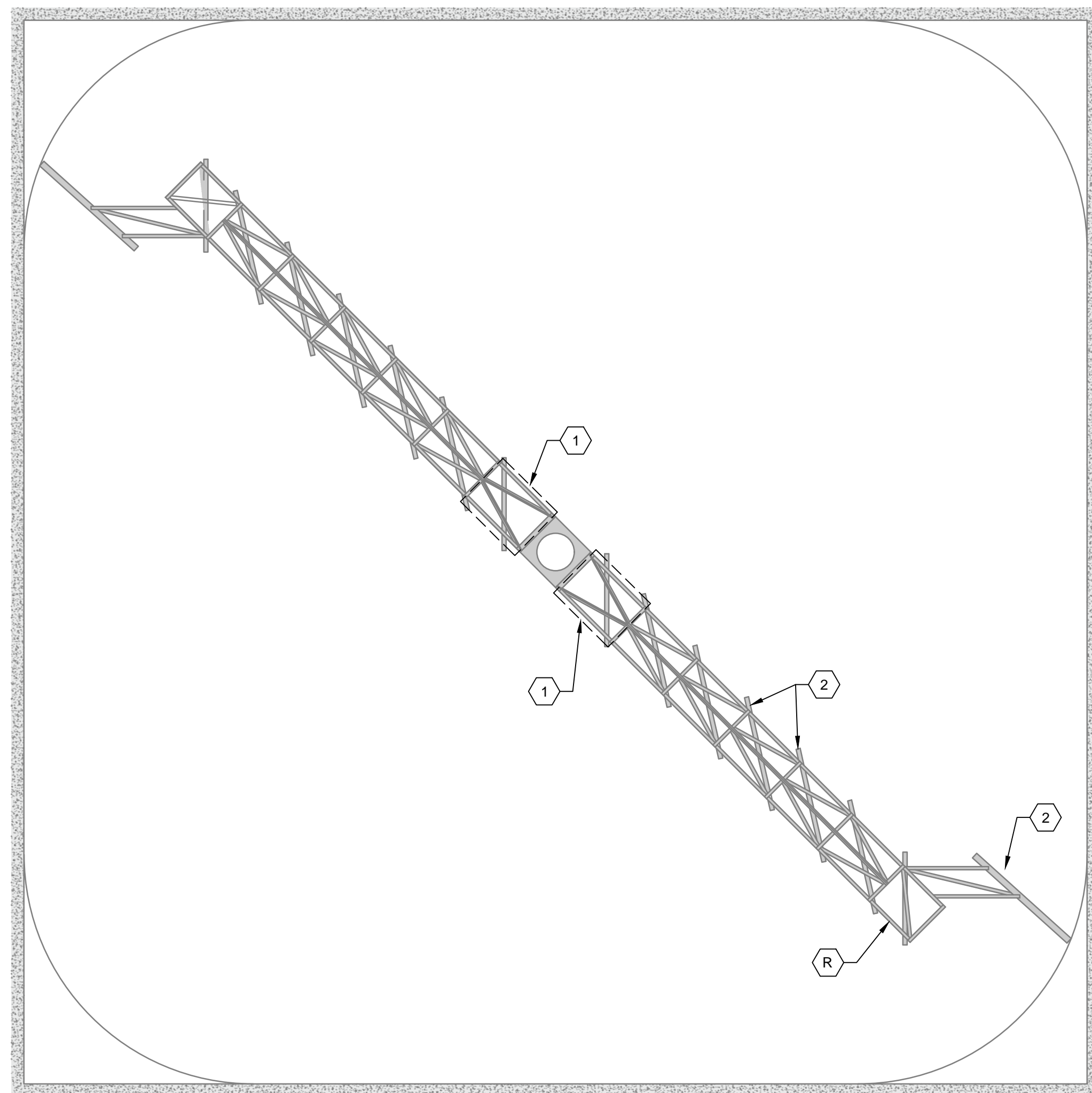
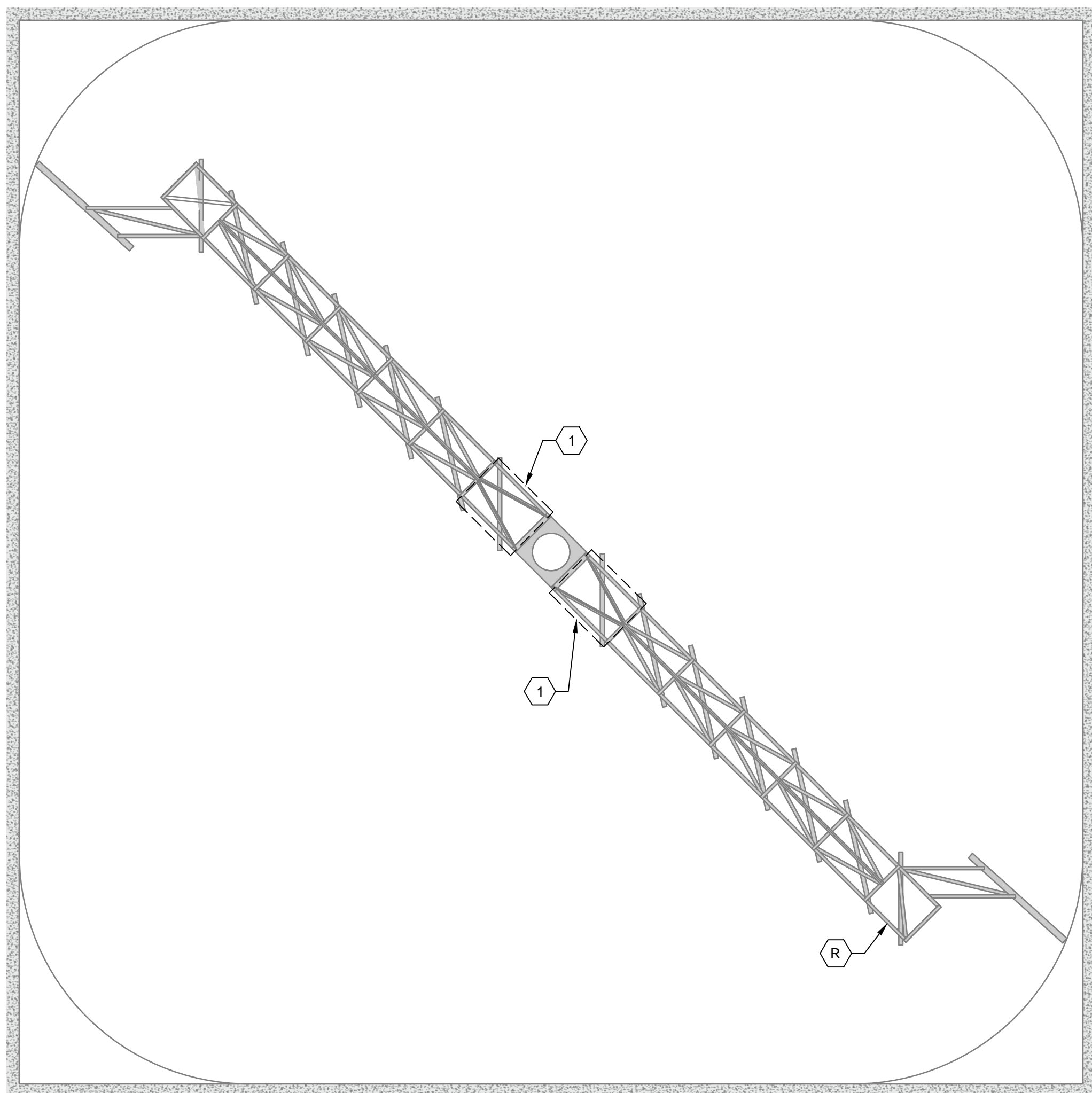
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 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277

STRUCTURAL

CIRCULAR SOLIDS
REMOVAL
EQUIPMENT -
REPAIR DETAILS

DRAWING NUMBER
S-01-002

12 SHEET NUMBER OF 48



SEDIMENTATION BASIN 1
EAST MECHANISM

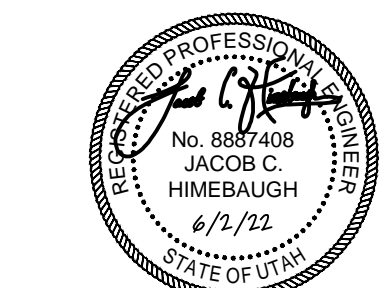
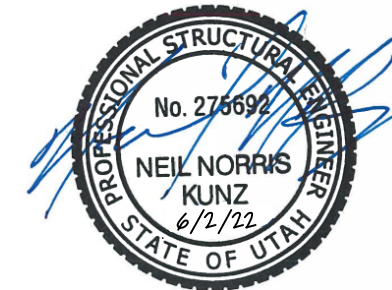
SEDIMENTATION BASIN 2
WEST MECHANISM

GENERAL NOTES:

1. RECOAT ALL STRUCTURAL AREAS MEETING CRITERIA DEFINED ON DRAWING S-01-001.
2. RE-LEVEL RAKE ARMS AND REPOSITION SQUEEGEE SUPPORT BEAMS AND SQUEEGEES IN ACCORDANCE WITH THE INSTRUCTIONS DEFINED ON DRAWING S-01-001.

KEY NOTES:

- R. LOCATE RED ZIP TIE ON CROSS MEMBER BEHIND COUNTERWEIGHTS IN THIS LOCATION TO ORIENT DRAWING. PROVIDE A UNIT PRICE FOR THE FOLLOWING WORK IN THE BID SCHEDULE AS INSTRUCTED IN SECTION 01 21 00. REMOVE EXISTING TIE RODS. REMOVE COATING ON THE STRUCTURE AT THE TIE ROD CONNECTIONS AND THE JOINT BETWEEN THE CENTER STRUCTURAL CAGE AND RAKE ARM USING MECHANICAL OR CHEMICAL METHODS ACCEPTABLE FOR POTABLE WATER APPLICATIONS. INSPECT CONNECTIONS AND ALERT ENGINEER OF ANY EVIDENCE OF SIGNIFICANT CORROSION OR MATERIAL LOSS. CONNECTIONS FOUND TO HAVE SIGNIFICANT CORROSION OR MATERIAL LOSS SHALL BE REPAIRED IN ACCORDANCE WITH DETAIL S-1001 ON DRAWING S-01-002. RECOAT EXPOSED AREAS AS OUTLINED ON DRAWING S-1001 PRIOR TO INSTALLING NEW TIE RODS AND FASTENERS.
2. REPLACE BENT SQUEEGEE SUPPORT BEAM ON RAKE ARM IN LOCATION SHOWN. PERFORM WORK IN ACCORDANCE WITH DETAIL S-1002 ON DRAWINGS S-01-002.



BID SET



**JWVTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT**

REVISIONS

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LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: J. HIMEBAUGH

DRAWN: T. DIMICELI

CHECKED:

CHECKED: N. KUNZ

APPROVED: J. HIMEBAUGH

FILENAME

S-01-004.dwg

BC PROJECT NUMBER

157012

CLIENT PROJECT NUMBER

4277

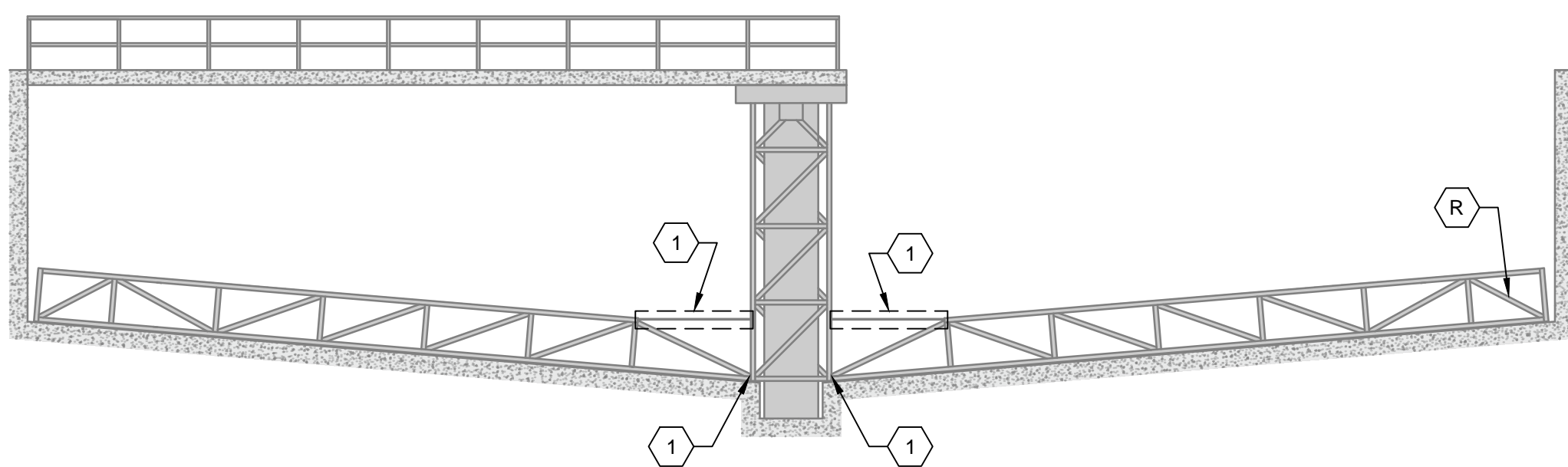
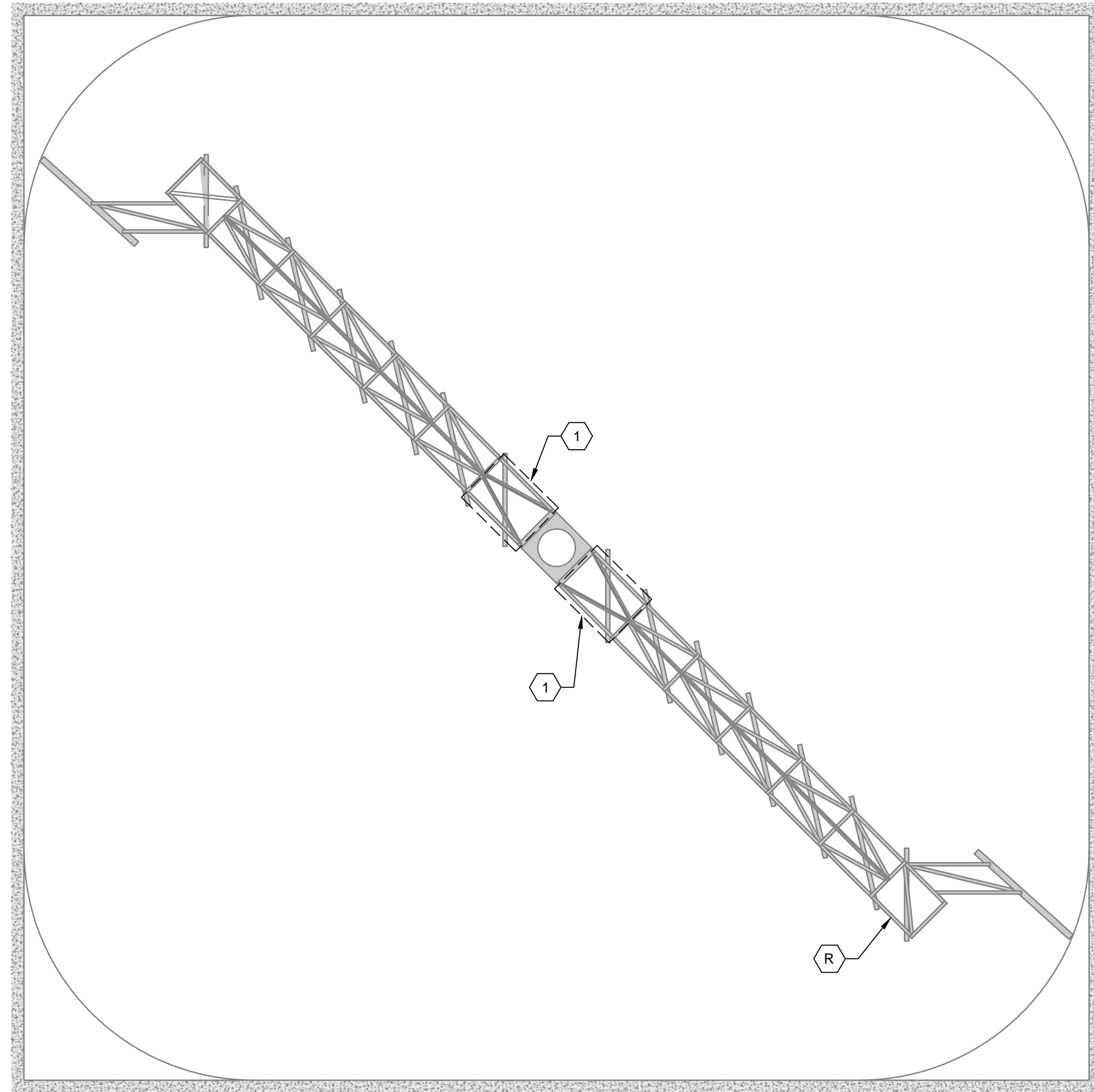
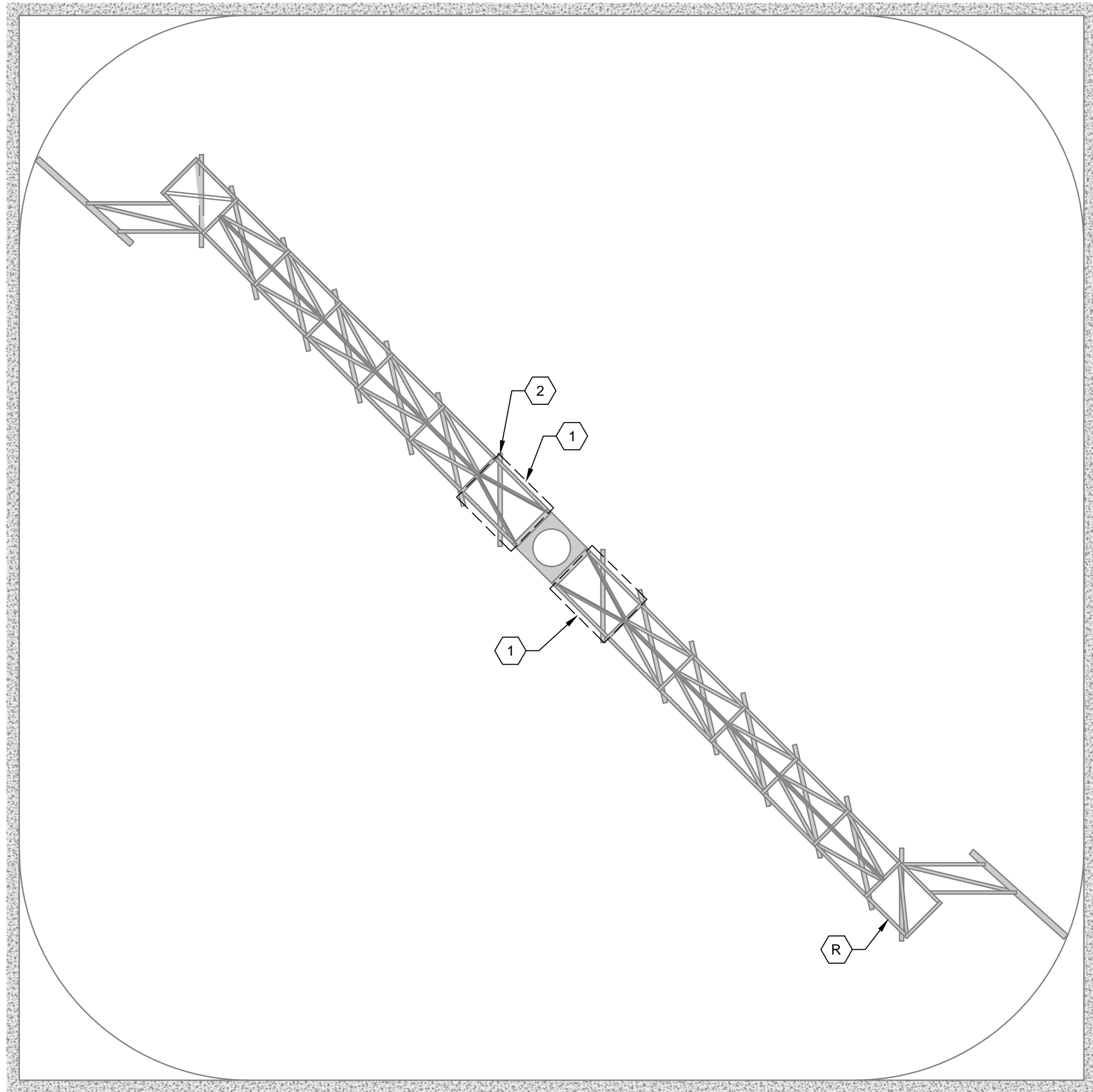
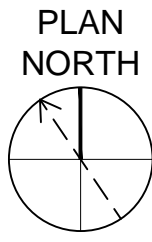
STRUCTURAL

**CIRCULAR SOLIDS
REMOVAL
EQUIPMENT REPAIR
- PLANS 2**

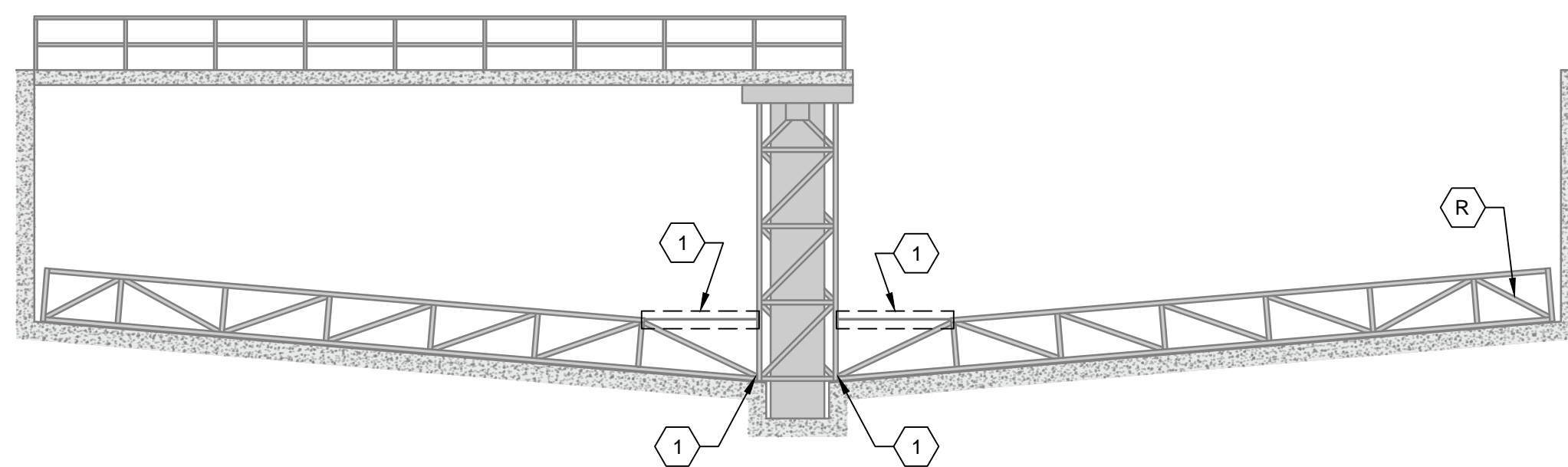
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OF 48



SEDIMENTATION BASIN 2
CENTER MECHANISM



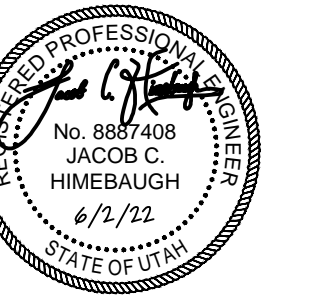
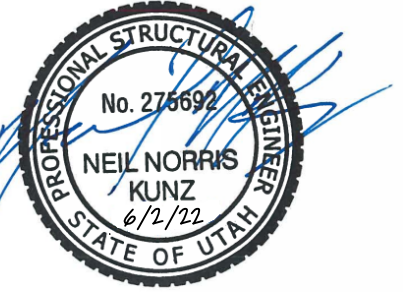
SEDIMENTATION BASIN 2
EAST MECHANISM

GENERAL NOTES:

1. RECOAT ALL STRUCTURAL AREAS MEETING CRITERIA DEFINED ON DRAWING S-01-001.
2. RE-LEVEL RAKE ARMS AND REPOSITION SQUEEGEE SUPPORT BEAMS AND SQUEEGEES IN ACCORDANCE WITH THE INSTRUCTIONS DEFINED ON DRAWING S-01-001.

KEY NOTES:

- R. LOCATE RED ZIP TIE ON CROSS MEMBER BEHIND COUNTERWEIGHTS IN THIS LOCATION TO ORIENT DRAWING. PROVIDE A UNIT PRICE FOR THE FOLLOWING WORK IN THE BID SCHEDULE AS INSTRUCTED IN SECTION 01 21 00. REMOVE EXISTING TIE RODS. REMOVE COATING ON THE STRUCTURE AT THE TIE ROD CONNECTIONS AND THE JOINT BETWEEN THE CENTER STRUCTURAL CAGE AND RAKE ARM USING MECHANICAL OR CHEMICAL METHODS ACCEPTABLE FOR POTABLE WATER APPLICATIONS. INSPECT CONNECTIONS AND ALERT ENGINEER OF ANY EVIDENCE OF SIGNIFICANT CORROSION OR MATERIAL LOSS. CONNECTIONS FOUND TO HAVE SIGNIFICANT CORROSION OR MATERIAL LOSS SHALL BE REPAIRED IN ACCORDANCE WITH DETAIL S-1001 ON DRAWING S-01-002. RECOAT EXPOSED AREAS AS OUTLINED ON DRAWING S-1001 PRIOR TO INSTALLING NEW TIE RODS AND FASTENERS.
2. REPLACE BENT SQUEEGEE SUPPORT BEAM ON RAKE ARM IN LOCATION SHOWN. PERFORM WORK IN ACCORDANCE WITH DETAIL S-1002 ON DRAWINGS S-01-002.



BID SET



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

JVWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT

REVISIONS

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LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: J. HIMEBAUGH

DRAWN: T. DIMICELI

CHECKED:

CHECKED: N. KUNZ

APPROVED: J. HIMEBAUGH

FILENAME

S-01-005.dwg

BC PROJECT NUMBER

157012

CLIENT PROJECT NUMBER

4277

STRUCTURAL

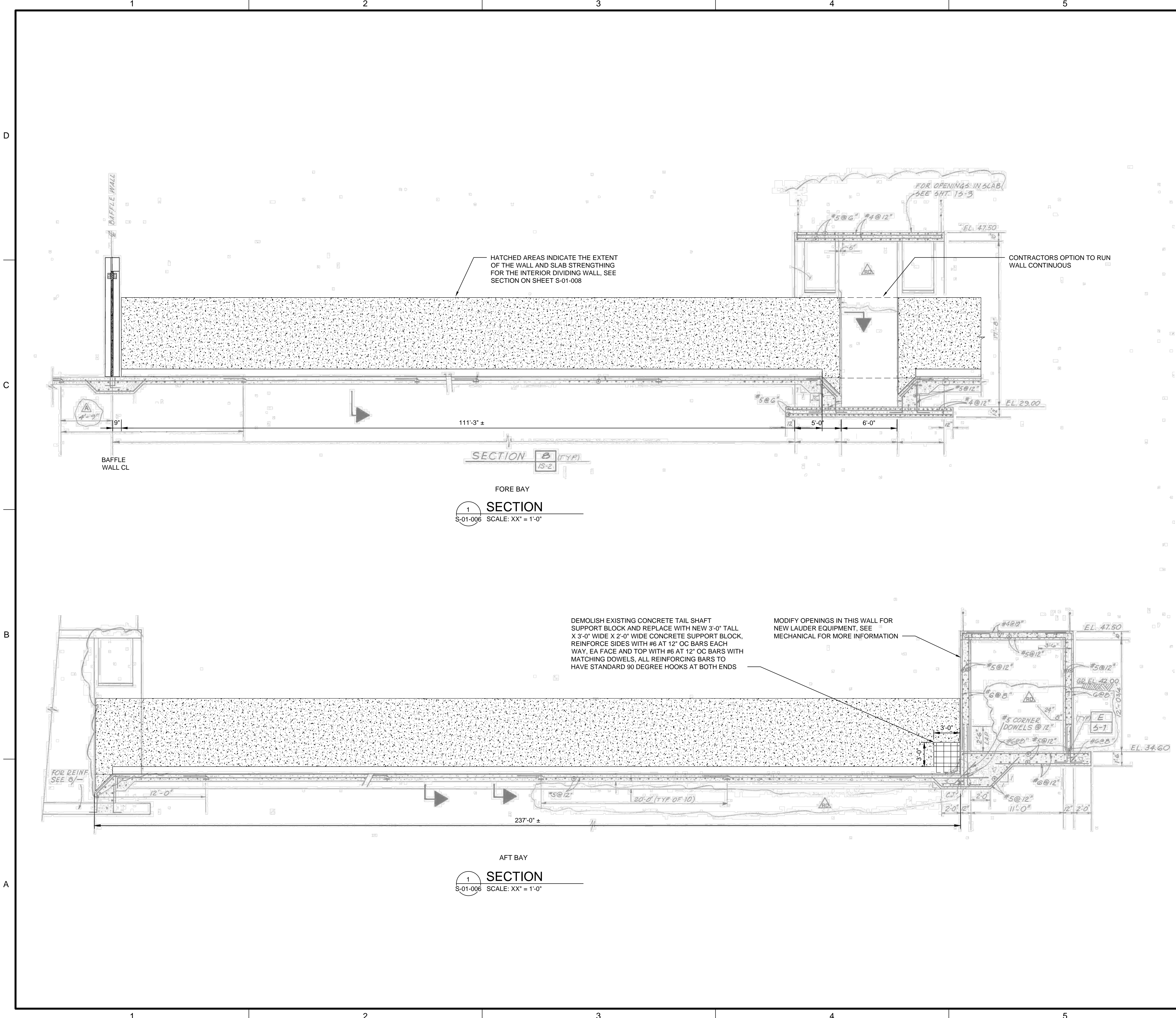
CIRCULAR SOLIDS
REMOVAL
EQUIPMENT REPAIR
- PLANS 3

DRAWING NUMBER

S-01-005

15 SHEET NUMBER
OF 48

Path: C:\BCP\DWG\1868249 FILENAME: S-01-007.DWG PLOT DATE: 6/14/2022 9:00 AM CAD USER: TONY DIMICELI



GENERAL NOTES:

1. STRENGTHENING SHOWN HERE FOR INTERIOR WALL OF BASINS NO 5 & 6, MIRROR SECTION FOR BASINS 3 & 4 UNLESS NOTED OTHERWISE, SEE G-00-004 FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AND DIMENSIONS THAT RELATE TO THE EXISTING STRUCTURE. CONTRACTOR SHALL SUBMIT PROPOSED CONCRETE PLACEMENT SEQUENCE TO ENGINEER FOR REVIEW / APPROVAL PRIOR TO ANY CONCRETE PLACEMENT.
3. GRATING, PLATFORM FRAMING, AND LADDERS SHALL BE STAINLESS STEEL TYPE 316L UNLESS NOTED OTHERWISE, SEE SPECIFICATION SECTIONS 05 10 00, 05 53 10, FOR ADDITIONAL INFORMATION.
4. DRY, CLEAN, AND ROUGHEN EXISTING CONCRETE TO 1/4" AMPLITUDE, SEE SPECIFICATION 03 30 00 FOR ADDITIONAL INFORMATION.
5. PROTECT DISSIMILAR METALS FROM GALVANIC CORROSION.
6. VERIFY WITH APPROVED EQUIPMENT SUBMITTAL.

KEY NOTES:



BID SET



JORDAN VALLEY WATER
CONSERVANCY DISTRICT

**JWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT**

REVISIONS

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LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: J. HIMEBAUGH
DRAWN: T. DIMICELI
CHECKED: J. HIMEBAUGH
APPROVED: D. HENSHAW

FILENAME: S-01-007.dwg
BC PROJECT NUMBER: 157012
CLIENT PROJECT NUMBER: 4277

STRUCTURAL

**SEDIMENTATION
BASIN - SECTIONS 1**

DRAWING NUMBER
S-01-007

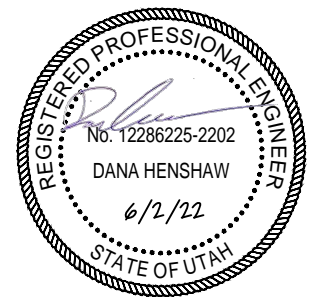
17 SHEET NUMBER OF 48

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GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AND DIMENSIONS THAT RELATE TO THE EXISTING STRUCTURE.
 2. CONTRACTOR SHALL SUBMIT PROPOSED CONCRETE PLACEMENT SEQUENCE TO ENGINEER FOR REVIEW / APPROVAL PRIOR TO ANY CONCRETE PLACEMENT.
 3. DRY, CLEAN, AND ROUGHEN EXISTING CONCRETE TO 1/4" +/- AMPLITUDES, AND APPLY EPOXY BONDING AGENT. SEE SPECIFICATION 03 30 00 FOR ADDITIONAL INFORMATION.
 4. SHALL LOCATE HOLES FOR DOWELS TO MISS EXISTING CONCRETE REINFORCING. PRIOR TO DRILLING HOLES, FIELD VERIFY AND MARK THE LOCATION OF NEARBY EXISTING REINFORCING BARS, STIRRUPS AND EMBEDMENTS USING A PACHOMETER. IF THEY ARE HIT DURING DRILLING, NOTIFY THE OWNER
- VERIFY WITH APPROVED EQUIPMENT SUBMITTAL.

KEY NOTES:



BID SET



**JWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT**

REVISIONS

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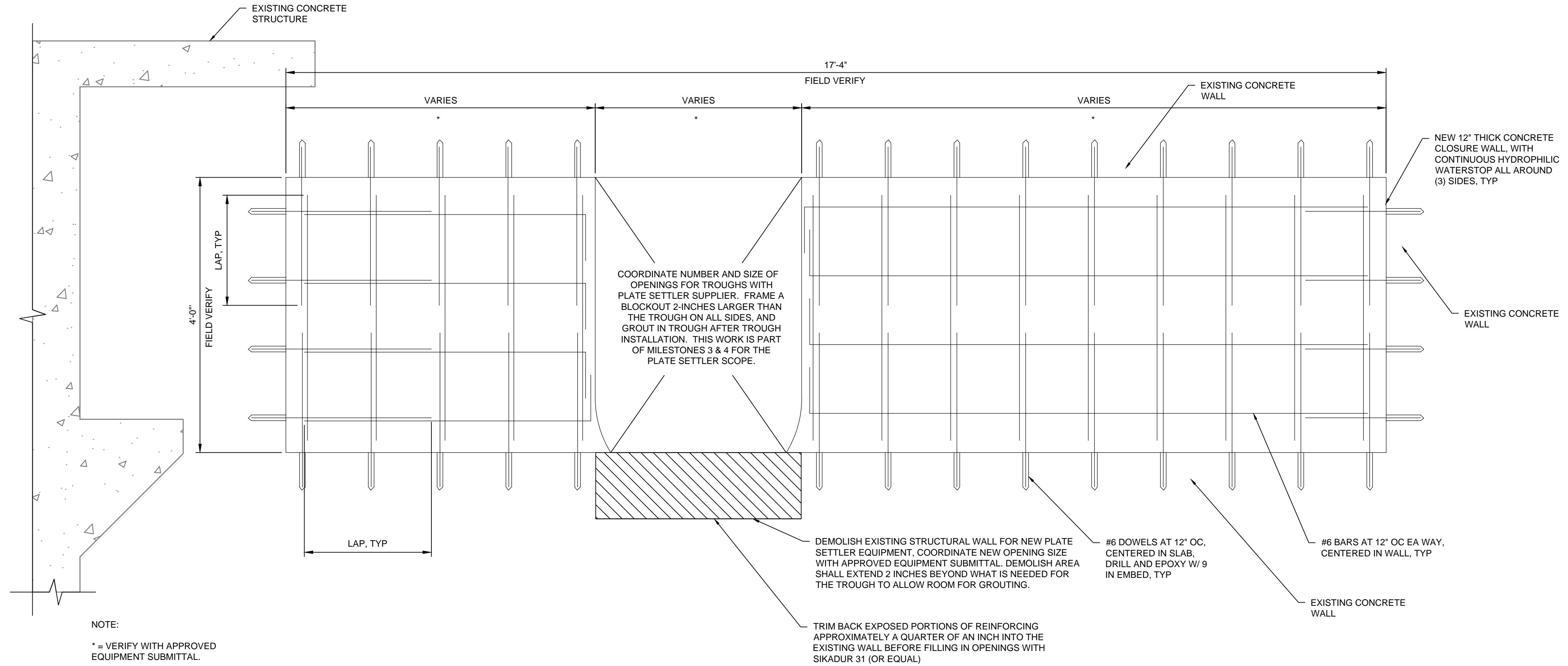
DESIGNED: S. BELLIS
 DRAWN: T. BOWMAN
 CHECKED: J. HIMEBAUGH
 APPROVED: D. HENSHAW

FILENAME: S-01-012.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277

STRUCTURAL

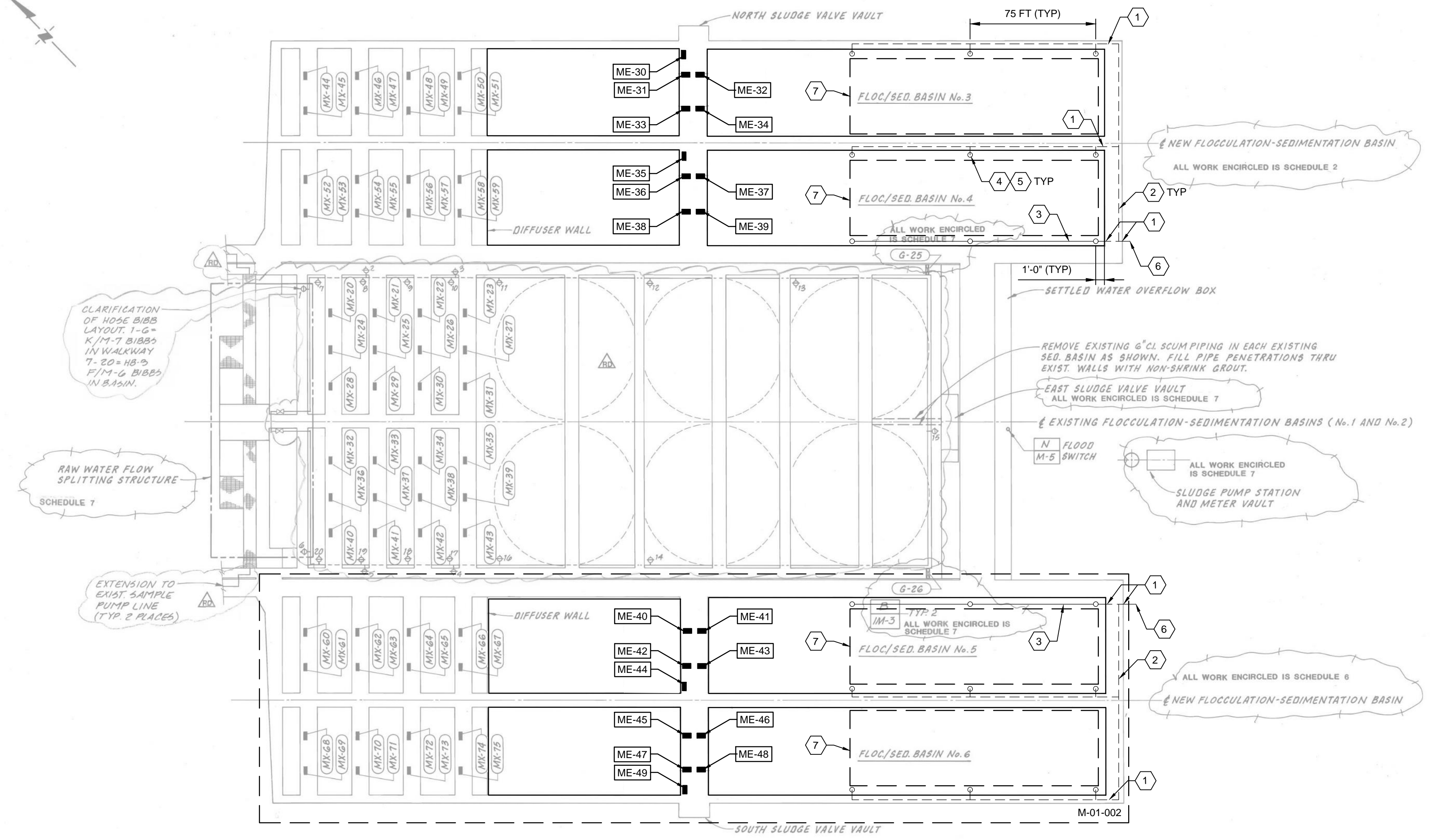
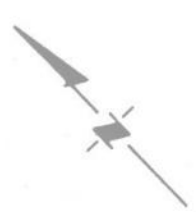
**STRUCTURAL
DETAILS 3**

DRAWING NUMBER: **S-01-012**
 SHEET NUMBER OF: **22** OF **48**



NOTE:
 * = VERIFY WITH APPROVED EQUIPMENT SUBMITTAL.

SECTION
 M-01-003 SCALE: 1" = 1'-0"



FLOCCULATION-SEDIMENTATION BASIN OVERVIEW PLAN

ALL MIXERS (MX) AND MECHANICAL EQUIPMENT (ME) SHOWN IS SCHEDULE B

CLARIFICATION OF HOSE BIBBS LAYOUT: 1-G-K/M-7 BIBBS IN WALKWAY T-20-HB-9 F/M-G BIBBS IN BASIN.

RAW WATER FLOW SPLITTING STRUCTURE SCHEDULE 7

EXTENSION TO EXIST SAMPLE PUMP LINE (TYP 2 PLACES)

NEW FLOCCULATION-SEDIMENTATION BASIN ALL WORK ENCLOSED IS SCHEDULE 2

REMOVE EXISTING 6\"/>

EAST SLUDGE VALVE VAULT ALL WORK ENCLOSED IS SCHEDULE 7

EXISTING FLOCCULATION-SEDIMENTATION BASINS (No. 1 AND No. 2)

N FLOOD M-5 SWITCH

ALL WORK ENCLOSED IS SCHEDULE 7

SLUDGE PUMP STATION AND METER VAULT

ALL WORK ENCLOSED IS SCHEDULE 6

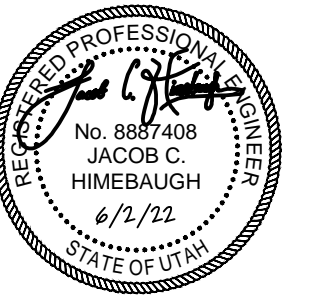
NEW FLOCCULATION-SEDIMENTATION BASIN

GENERAL NOTES:

- REFER TO DRAWINGS AND INSTALLATION INSTRUCTIONS PROVIDED BY EACH MANUFACTURER DURING THE SUBMITTAL PROCESS FOR ALL INFORMATION REQUIRED FOR INSTALLATION OF THE CHAIN AND FLIGHT AND PLATE SETTLER EQUIPMENT.
- ALL ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 01 73 24 AND SECTION 05 05 20. INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE EQUIPMENT MANUFACTURER'S AND EPOXY SYSTEM MANUFACTURER'S INSTRUCTIONS.
- PROPER CARE SHALL BE TAKEN TO PREVENT CONTAMINATION OF STAINLESS STEEL COMPONENTS WITH FREE IRON. FOLLOW ALL RECOMMENDATIONS PROVIDED IN PARAGRAPH 8 OF ASTM A380.
- CONTRACTOR SHALL ALERT ENGINEER OF ANY BLOOMING OR EVIDENCE OF RUST FOUND ON STAINLESS STEEL COMPONENTS SUPPLIED BY THE MANUFACTURER PRIOR TO INSTALLATION. ANY BLOOMING OR EVIDENCE OF RUST FOUND AFTER INSTALLATION SHALL BE CLEANED AND TESTED BY MANUFACTURER IN ACCORDANCE WITH ASTM A380.
- REFER TO WORK SEQUENCE SPECIFICATION (SECTION 01 12 16) FOR INFORMATION ON WORK RESTRICTIONS AND CONSTRUCTION SEQUENCING.

KEY NOTES:

- PROVIDE A NSF 61 APPROVED LINK SEAL DESIGNED FOR CPVC PIPING AND OUTDOOR USE AT ALL WALL PENETRATIONS IN THE SETTLED WATER CHANNELS. GROUT BOTH SIDES OF WALL PENETRATION WITH AN NSF 61 APPROVED NON-SHRINKING GROUT IN ACCORDANCE WITH SECTION 03 60 00. CHAMFER GROUT AROUND PIPE OUTSIDE OF OPENING TO PROVIDE A SMOOTH TRANSITION BETWEEN PIPE AND WALL. REFER TO SECTION 1 ON DRAWING M-01-002 FOR SECTION.
- ROUTE 3" NPS SCHEDULE 80 CPVC PIPING UNDER DECK AS SHOWN ON THIS SHEET. MOUNT 316 SS UNISTRUT SEGMENT UNDER DECK (UNISTRUT TYPE P1000) EVERY FIVE FEET ALONG PIPE ROUTE USING TWO 316 SS ANCHORS AND HARDWARE. ATTACH PIPE TO UNISTRUT SEGMENT USING A 316 SS PIPE CLAMP (UNISTRUT TYPE P1119 OR EQUAL).
- ROUTE 3" NPS SCHEDULE 80 CPVC PIPING ALONG WALL AS SHOWN ON THIS SHEET. MOUNT 316 SS WALL BRACKET (UNISTRUT TYP P2945 OR EQUAL) EVERY FIVE FEET ALONG PIPE ROUTE USING TWO 316 SS ANCHORS AND HARDWARE. ATTACH PIPE TO BRACKET USING A 316 SS PIPE CLAMP (UNISTRUT TYP P1119 OR EQUAL).
- PROVIDE A 1.5" NPS SCHEDULE 80 BRANCH OFF THE 3" LINE NEAR EACH LOCATION SHOWN ON THIS SHEET. ROUTE 1.5" PIPE TOWARDS THE EDGE OF THE DECK, TRANSITIONING TO A GALVANIZED ELBOW AND VERTICAL MALE 1.5" MNPT NIPPLE AT THE DECK EDGE. MOUNT 316 SS UNISTRUT SEGMENT HORIZONTALLY TO DECK EDGE (UNISTRUT TYPE 1000) EVERY FIVE FEET ALONG PIPE ROUTE USING TWO 316 SS ANCHORS AND HARDWARE. ATTACH PIPE NIPPLE TO UNISTRUT SEGMENT USING A 316 SS PIPE CLAMP (UNISTRUT TYPE P1115 OR EQUAL).
- ATTACH A 1.5" FREEZELESS UTILITY HYDRANT (WOODWARD MODEL U150 OR EQUAL) WITH AN OVERALL LENGTH OF APPROXIMATELY 5.5 FEET AND MANUAL CLOSING LEVER HANDLE AT EACH LOCATION SHOWN ON THIS SHEET (18 TOTAL). UTILITY HYDRANT SHALL BE SECURED TO THE HANDRAIL USING A GALVANIZED OR 316 SS HEAVY DUTY CLAMP ON CROSS OVER BRACKET. PROVIDE EACH UTILITY HYDRANT WITH A 1.5" COLLAPSIBLE FABRIC FIRE HOSE (50 FOOT LENGTH) RATED FOR 150 PSI. INCLUDE A HOSE RACK SECURELY MOUNTED TO THE HANDRAIL AT EACH LOCATION.
- ROUTE 3" NPS SCHEDULE 80 CPVC PIPING DOWN WALL FROM PIPE PENETRATION TO GROUND LEVEL IN LOCATIONS SHOWN. MOUNT 316 SS WALL BRACKET HORIZONTALLY (UNISTRUT P2945 OR EQUAL) EVERY FIVE FEET ALONG PIPE ROUTE USING TWO 316 SS ANCHORS AND HARDWARE. ATTACH PIPE TO BRACKET USING A 316 SS PIPE CLAMP (UNISTRUT TYPE P1119 OR EQUAL). SEE DRAWING C-01-001 FOR A CONTINUATION OF THE PIPING.
- PLATE SETTLER EQUIPMENT SHALL BE PROVIDED IN BASIN 3 THROUGH 6 AS DEFINED IN SECTION 46 43 76.



BID SET



JVWTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT

REVISIONS

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LINE IS 2 INCHES AT FULL SIZE

DESIGNED: J. HIMEBAUGH

DRAWN: T. DIMICELI

CHECKED:

CHECKED:

APPROVED: J. HIMEBAUGH

FILENAME

M-01-001.dwg

BC PROJECT NUMBER

157012

CLIENT PROJECT NUMBER

4277

PROCESS

BASIN OVERVIEW AND GENERAL NOTES

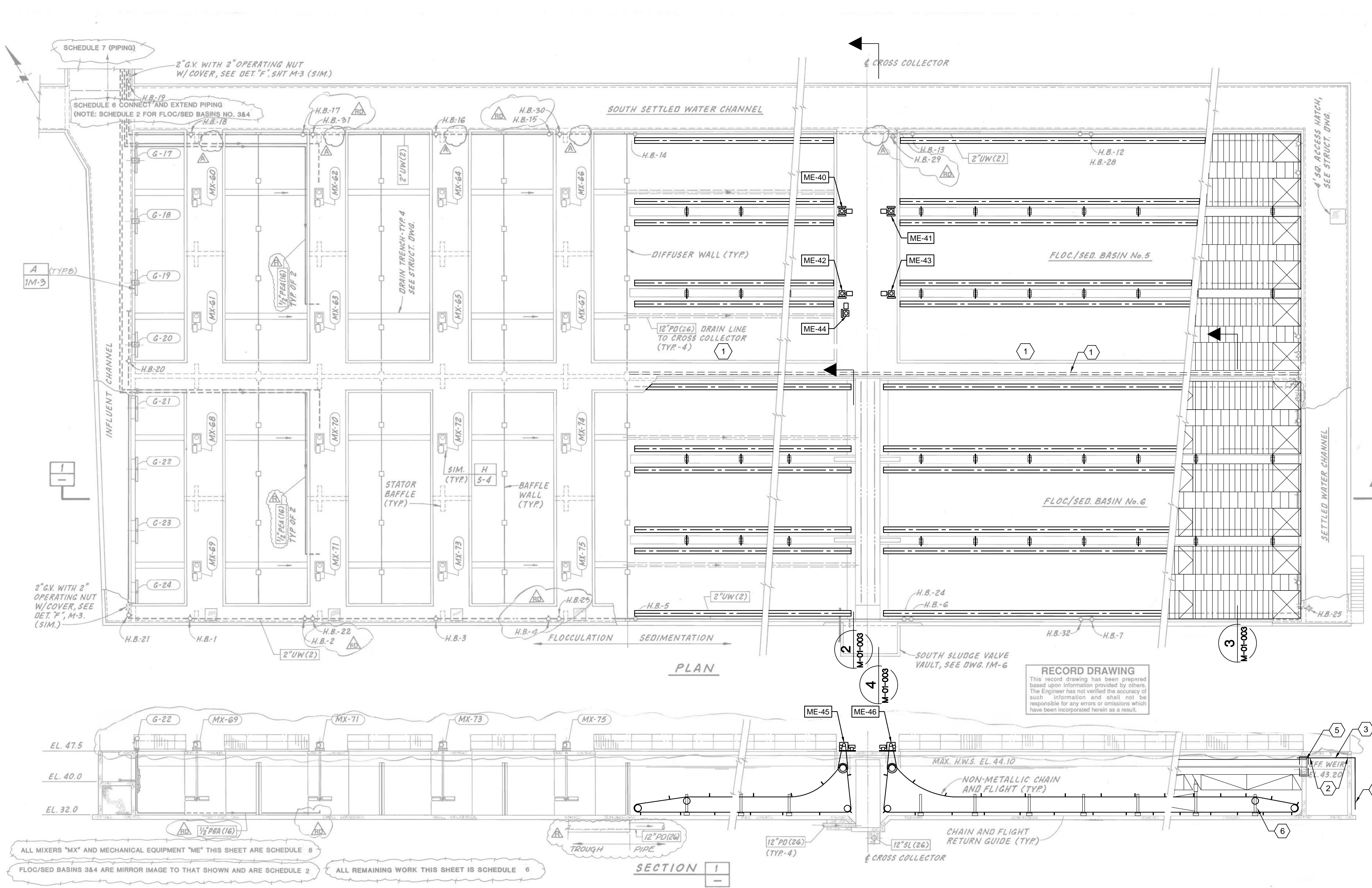
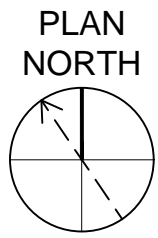
DRAWING NUMBER

M-01-001

23

SHEET NUMBER OF

48

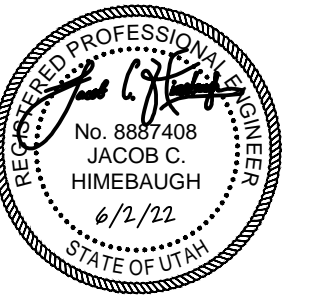


GENERAL NOTES:

- PERFORM INSTALLATION OF THE CHAIN AND FLIGHT AND PLATE SETTLER EQUIPMENT IN SEDIMENTATION BASIN 3 AND 4 AS DEFINED ON THIS DRAWING FOR SEDIMENTATION BASIN 5 AND 6. LAYOUT OF SEDIMENTATION BASINS 3 AND 4 IS A MIRROR IMAGE OF SEDIMENTATION BASINS 5 AND 6 SHOWN ON THIS DRAWING.
- REFER TO DRAWINGS AND INSTALLATION INSTRUCTIONS PROVIDED BY EACH MANUFACTURER DURING THE SUBMITTAL PROCESS FOR ALL INFORMATION REQUIRED FOR INSTALLATION OF THE CHAIN AND FLIGHT AND PLATE SETTLER EQUIPMENT.
- ALL ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 01 73 24 AND SECTION 05 05 20. INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE EQUIPMENT MANUFACTURER'S AND EPOXY SYSTEM MANUFACTURER'S INSTRUCTIONS.
- PROPER CARE SHALL BE TAKEN TO PREVENT CONTAMINATION OF STAINLESS STEEL COMPONENTS WITH FREE IRON. FOLLOW ALL RECOMMENDATIONS PROVIDED IN PARAGRAPH 8 OF ASTM A380.
- CONTRACTOR SHALL ALERT ENGINEER OF ANY BLOOMING OR EVIDENCE OF RUST FOUND ON STAINLESS STEEL COMPONENTS SUPPLIED BY THE MANUFACTURER PRIOR TO INSTALLATION. ANY BLOOMING OR EVIDENCE OF RUST FOUND AFTER INSTALLATION SHALL BE CLEANED AND TESTED BY MANUFACTURER IN ACCORDANCE WITH ASTM A380.
- WHEN PLATE SETTLER EQUIPMENT IS INSTALLED NEXT TO A WALKWAY, INSTALL EDGE OF PLATE PACK AT EDGE OF WALKWAY.

KEY NOTES:

- SEISMIC MODIFICATIONS TO THE SOUTH WALL AND ADJOINING FLOOR IN THE FORE AND AFT BAY OF BASIN 5 AND THE NORTH WALL AND ADJOINING FLOOR IN THE FORE AND AFT BAY OF BASIN 4 RESULT IN A UNIQUE LONGITUDINAL CHAIN AND FLIGHT MECHANISMS FOR TWO OF THE SIX LONGITUDINAL MECHANISMS IN EACH SET OF BASINS. REFER TO THE LATEST SUBMITTAL DRAWINGS PROVIDED BY THE CHAIN AND FLIGHT MANUFACTURER TO ENSURE CORRECT COMPONENTS ARE INSTALLED AND SPECIFIC DIMENSIONS ARE USED TO LOCATE COMPONENTS FOR THESE TWO MECHANISMS. ADDITIONALLY, REFER TO THE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON THE AREAS AFFECTED BY THE SEISMIC MODIFICATIONS.
- PROVIDE A NSF 61 APPROVED LINK SEAL DESIGNED FOR CPVC PIPING AND OUTDOOR USE AT ALL WALL PENETRATIONS IN THE SETTLED WATER CHANNELS. GROUT BOTH SIDES OF WALL PENETRATION WITH AN NSF 61 APPROVED NON-SHRINKING GROUT IN ACCORDANCE WITH SECTION 03 60 00. CHAMFER GROUT AROUND PIPE OUTSIDE OF OPENING TO PROVIDE A SMOOTH TRANSITION BETWEEN PIPE AND WALL. REFER TO DETAIL 1 ON DRAWING M-01-002 FOR SECTION.
- ROUTE 3" NPS SCHEDULE 80 CPVC PIPING UNDER DECK AS SHOWN ON THIS SHEET. MOUNT 316 SS UNISTRUT SEGMENT UNDER DECK (UNISTRUT TYPE P1000) EVERY FIVE FEET ALONG PIPE ROUTE USING TWO 316 SS ANCHORS AND HARDWARE. ATTACH PIPE TO UNISTRUT SEGMENT USING A 316 SS PIPE CLAMP (UNISTRUT TYPE P1119 OR EQUAL).
- ROUTE 3" NPS SCHEDULE 80 CPVC PIPING DOWN WALL FROM PIPE PENETRATION TO GROUND LEVEL IN LOCATIONS SHOWN. MOUNT 316 SS WALL BRACKET HORIZONTALLY (UNISTRUT P2945 OR EQUAL) EVERY FIVE FEET ALONG PIPE ROUTE USING TWO 316 SS ANCHORS AND HARDWARE. ATTACH PIPE TO BRACKET USING A 316 SS PIPE CLAMP (UNISTRUT TYPE P1119 OR EQUAL). SEE DRAWING C-01-001 FOR A CONTINUATION OF THE PIPING. TROUGHS SHALL CONNECT TO THE SETTLED WATER CHANNEL BY CASTING THEM INTO THE WALL. DEPTH OF TROUGH MAY REQUIRE REMOVAL OF CONCRETE TO ACCOMMODATE. SEE STRUCTURAL DETAILS ON DRAWING S-01-012 FOR FURTHER INFORMATION. REFER TO PLATE SETTLER MANUFACTURER'S DRAWINGS PROVIDED DURING THE SUBMITTAL PROCESS TO LOCATE TROUGHS.
- DESIGN THE FINAL SUPPORT BEFORE THE END WALL TO CARRY ALL LIVE AND DEAD LOADS IMPOSED BY THE CHAIN AND FLIGHT RETURN SHAFT.



BID SET



**JVWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT**

REVISIONS

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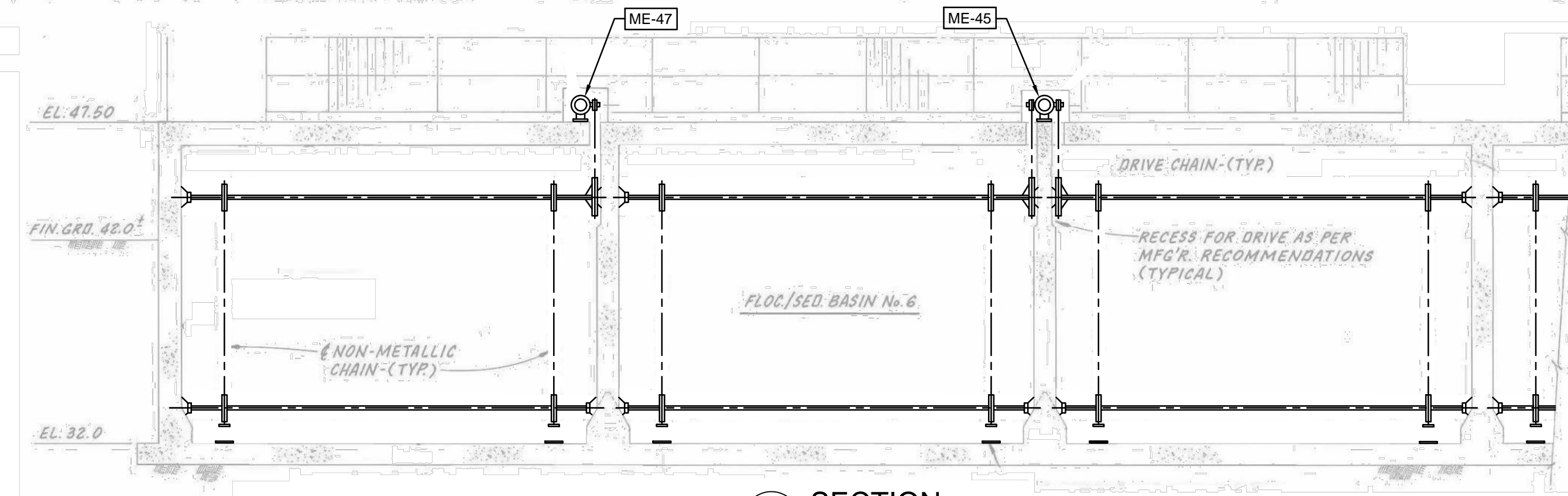
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DESIGNED: J. HIMEBAUGH
 DRAWN: T. DIMICELI
 CHECKED:
 CHECKED:
 APPROVED: J. HIMEBAUGH
 FILENAME: M-01-002.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277
 PROCESS

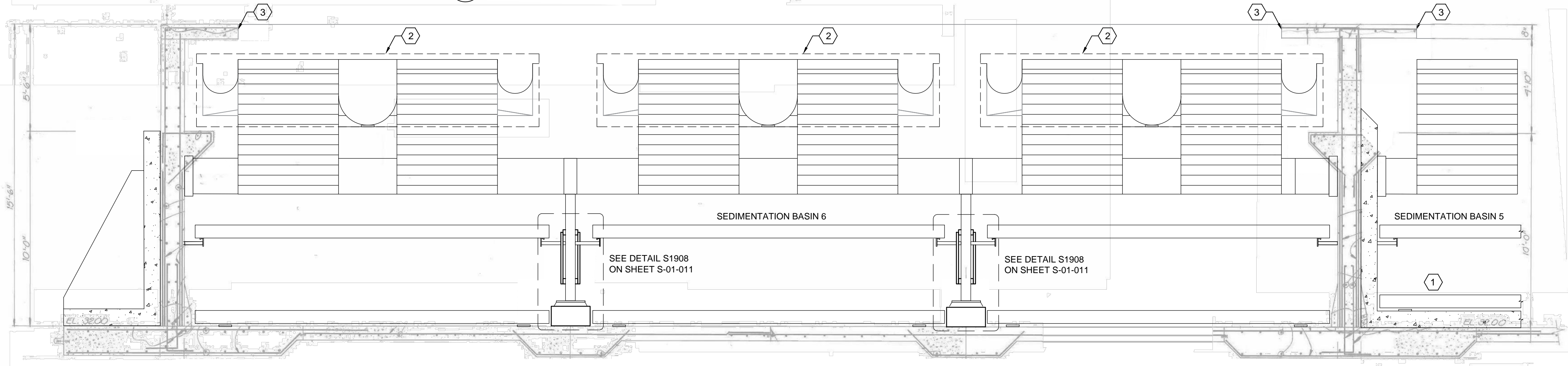
**SEDIMENTATION
BASIN - PLAN AND
SECTIONS 1**

DRAWING NUMBER
M-01-002
 SHEET NUMBER OF
24 OF **48**

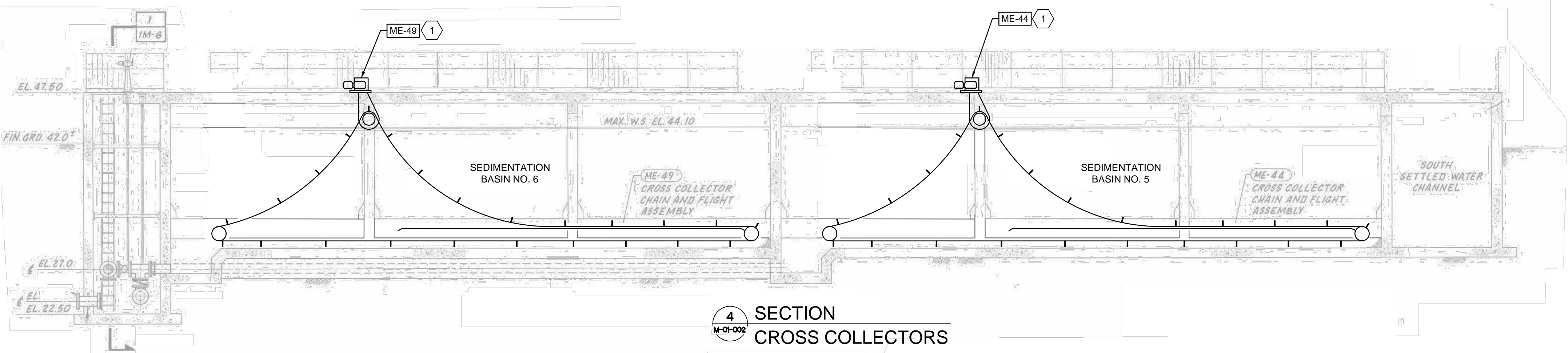
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2 SECTION
M-01-002



3 SECTION
M-01-002
AREA UNDER PLATES



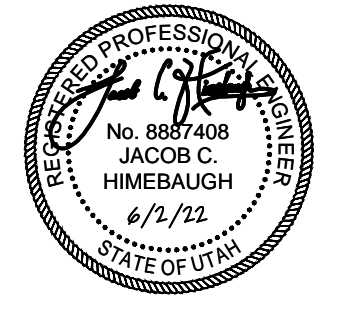
4 SECTION
M-01-002
CROSS COLLECTORS

GENERAL NOTES:

- PERFORM INSTALLATION OF THE CHAIN AND FLIGHT AND PLATE SETTLER EQUIPMENT IN SEDIMENTATION BASIN 3 AND 4 AS DEFINED ON THIS DRAWING FOR SEDIMENTATION BASIN 5 AND 6. LAYOUT OF SEDIMENTATION BASIN 3 AND 4 IS A MIRROR IMAGE OF SEDIMENTATION BASIN 5 AND 6 SHOWN ON THIS DRAWING.
- REFER TO DRAWINGS AND INSTALLATION INSTRUCTIONS PROVIDED BY EACH MANUFACTURER DURING THE SUBMITTAL PROCESS FOR ALL INFORMATION REQUIRED FOR INSTALLATION OF THE CHAIN AND FLIGHT AND PLATE SETTLER EQUIPMENT.
- ALL ANCHORS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 01 76 24 AND SECTION 05 05 20. INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE EQUIPMENT MANUFACTURER'S AND EPOXY SYSTEM MANUFACTURER'S INSTRUCTIONS.
- PROPER CARE SHALL BE TAKEN TO PREVENT CONTAMINATION OF STAINLESS STEEL COMPONENTS WITH FREE IRON. FOLLOW ALL RECOMMENDATIONS PROVIDED IN PARAGRAPH 8 OF ASTM A380.
- CONTRACTOR SHALL ALERT ENGINEER OF ANY BLOOMING OR EVIDENCE OF RUST FOUND ON STAINLESS STEEL COMPONENTS SUPPLIED BY THE MANUFACTURER PRIOR TO INSTALLATION. ANY BLOOMING OR EVIDENCE OF RUST FOUND AFTER INSTALLATION SHALL BE CLEANED AND TESTED BY MANUFACTURER IN ACCORDANCE WITH ASTM A380.

KEY NOTES:

- SEISMIC MODIFICATIONS TO THE SOUTH WALL AND ADJOINING FLOOR IN THE FORE AND AFT BAY OF BASIN 5 AND THE NORTH WALL AND ADJOINING FLOOR IN THE FORE AND AFT BAY OF BASIN 4 RESULT IN A UNIQUE LONGITUDINAL CHAIN AND FLIGHT MECHANISMS FOR TWO OF THE SIX LONGITUDINAL MECHANISMS IN EACH OF THE BASINS. REFER TO THE LATEST DRAWINGS PROVIDED BY THE CHAIN AND FLIGHT MANUFACTURER TO ENSURE CORRECT COMPONENTS ARE INSTALLED AND SPECIFIC DIMENSIONS ARE USED TO LOCATE COMPONENTS FOR THESE TWO MECHANISMS. ADDITIONALLY, REFER TO THE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON THE AREAS AFFECTED BY THE SEISMIC MODIFICATIONS.
- SETTLED WATER CHANNEL WALL OPEN IN THREE LOCATIONS AS SHOWN. TROUGHS SHALL EXTEND INTO SETTLED WATER CHANNEL THROUGH THESE OPENINGS. DEPTH OF TROUGH MAY REQUIRE REMOVAL OF CONCRETE TO ACCOMMODATE. OPENING OUTSIDE THE TROUGHS SHALL BE FILLED. SEE STRUCTURAL DETAILS ON DRAWING S-01-012 FOR FURTHER INFORMATION. REFER TO PLATE SETTLER MANUFACTURER'S DRAWINGS PROVIDED DURING THE SUBMITTAL PROCESS TO LOCATE TROUGHS. QUANTITY AND SIZE OF TROUGHS PER THE APPROVED SUBMITTAL OF THE PLATE SETTLER MANUFACTURER.
- WHEN PLATE SETTLER EQUIPMENT IS INSTALLED NEXT TO A WALKWAY, INSTALL EDGE OF PLATE PACK AT EDGE OF WALKWAY.



BID SET



JVWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT

REVISIONS

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LINE IS 2 INCHES AT FULL SIZE

DESIGNED: J. HIMEBAUGH
DRAWN: T. DIMICELI
CHECKED:
APPROVED: J. HIMEBAUGH

FILENAME: M-01-003.dwg
BC PROJECT NUMBER: 157012
CLIENT PROJECT NUMBER: 4277
PROCESS

SEDIMENTATION
BASIN - PLAN AND
SECTIONS 2

DRAWING NUMBER: M-01-003
SHEET NUMBER OF: 25 OF 48

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CONTROL DIAGRAM SYMBOLS

| GENERAL | |
|---------|---|
| | CONDUCTORS CONNECTED |
| | CONDUCTORS NOT CONNECTED |
| | TERMINAL POINT FOR EXTERNAL CONNECTIONS |
| | EXISTING EQUIPMENT (SCREENED) |

INDICATING LIGHTS

| | |
|--|---|
| | DIRECT CONNECTION |
| | PUSH TO TEST, TEST VOLTAGE TERMINAL SHOWN |
| LENS COLOR: (L = LENS COLOR) A = AMBER B = BLUE G = GREEN R = RED W = WHITE | |

PUSHBUTTONS

| | |
|--|---|
| | HS-XXXX PUSHBUTTON, MOMENTARY CONTACT, NORMALLY OPEN |
| | HS-XXXX PUSHBUTTON, MOMENTARY CONTACT, NORMALLY CLOSED |
| | HS-XXXX PUSHBUTTON WITH MUSHROOM HEAD, EMERGENCY STOP |

SELECTOR SWITCHES

| | |
|--|---|
| | HS-XXXXX 2 POSITION MAINTAINED CONTACT X = CONTACTS CLOSED O = CONTACTS OPEN |
| | HS-XXXXX 2 POSITION SPRING RETURNED TO RIGHT O = CONTACTS OPENED X = CONTACTS CLOSED |
| | HS-XXXXX 3 POSITION MAINTAINED CONTACT X = CONTACTS CLOSED O = CONTACTS OPENED |

CONTROL RELAYS

| | |
|--|--|
| | CR 1 OPERATION COIL: CR = CONTROL RELAY |
| | L 8 LR MECHANICALLY LATCHED RELAY WITH UNLATCHED COIL |
| | CR1 CR2 OUTPUT CONTACTS, LINE NUMBER OF RELAY COIL SHOWN (OPTIONAL) |
| | LINE 30 LINE 30 OPERATING COIL FUNCTIONS: L = LATCH U = UNLATCH TR = TIMER RELAY LR = LATCH RELAY |
| | OL OVERLOAD RELAY |

INPUT SWITCHES

| NORMALLY OPEN | NORMALLY CLOSED | INITIATING VARIABLE |
|---------------|-----------------|------------------------|
| | | SS SPEED |
| | | TS TEMPERATURE |
| | | WS SHEAR OR TORQUE |
| | | ZS POSITION (LIMIT) |
| | | FS FLOW |
| | | LS LEVEL |
| | | PS PRESSURE |

TIMING RELAYS

| | |
|---|--|
| | TR 1 OPERATING COIL FUNCTION: ON OR OFF DELAY RANGE: SEC / MIN SET: SEC / MIN |
| | NORMALLY OPEN TR3 OR TC LINE 50 |
| | NORMALLY CLOSED TR3 OR TC LINE 50 |
| | TR3 TO DELAY ON COIL ENERGIZATION (ON DELAY) |
| | TR3 TO DELAY ON COIL DE-ENERGIZATION (ON DELAY) |
| LINE = ID OF LINE OR RUNG NUMBER (LINE OR RUNG NUMBER 50 SHOWN) | |

CONTACTORS

| | |
|--|---|
| | ID OPERATING COIL: C = CONTACTOR, LIGHTING, OR GENERAL USE F = FAST OR FORWARD M = MAIN OR LINE 1M = FIRST MAIN OR WYE 2M = SECOND MAIN OR DELTA R = RUN OR REVERSE S = SLOW OR START IC = ISOLATION CONTROL |
| | ID SIZE X MAIN CONTACTS: MAIN CONTACTS AIR BREAK, NEMA SIZE OPTIONAL MODIFIERS: FVR = FULL VOLTAGE REVERSING RVS = REDUCED VOLTAGE STARTER RVSS = REDUCED VOLTAGE SOLID STATE STARTER RVAT = REDUCED VOLTAGE AUTOTRANSFORMER STARTER 2S2W = TWO SPEED, TWO WINDING STARTER |
| | M SIZE 1 VACUUM CONTACTOR, NEMA SIZE OPTIONAL |

MISCELLANEOUS

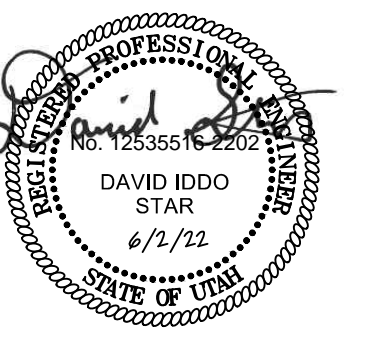
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| | FU 30 30A FUSE WITH SIZE AND OPTIONAL IDENTIFICATION |
| | FU 30, 30A FUSE WITH BLOWN FUSE INDICATOR |
| | 480 VAC 250VA CONTROL TRANSFORMER PRIMARY AND SECONDARY SIZE AS SHOWN OR AS SPECIFIED |
| | 250/5 3 CURRENT TRANSFORMER PRIMARY/SECONDARY TURNS RATIO SHOWN (OPTIONAL) |
| | 250 OHM RES RESISTOR |
| | RECTIFIER |
| | SURGE OR ARC SUPPRESSION |
| | 55 KVAR CAPACITOR |
| | CONNECTOR |
| | XX INCOMING LINE POWER SUPPLY |
| | DRAWOUT MECHANISM |
| | CV-1000 SOLENOID VALVE: DEVICE ID 'CV-1000' SHOWN |
| | BUS DUCT |
| | GROUND CONNECTION |
| | POTENTIOMETER |
| | H METER W/ ALPHA IDENTIFIER: A = AMMETER H = ELAPSED TIME V = VOLTMETER |
| | BATTERY |
| | CABLE ID SHIELDED CABLE |
| | LOCATED IN FIELD |
| | AC TERMINAL BLOCK |
| | DC TERMINAL BLOCK |
| | DO PLC I/O POINTS DI = DIGITAL INPUT DO = DIGITAL OUTPUT AI = ANALOG INPUT AO = ANALOG OUTPUT |

ONE LINE DIAGRAM SYMBOLS

| | |
|--|--|
| | TRIP FRAME 52 POWER CIRCUIT BREAKER (AIR, OIL, OR GAS) FRAME AND TRIP SETTING AND OPTIONAL I.D. SHOWN |
| | 3P 100 AT 100 AF LSIG CIRCUIT BREAKER W/ ADJUSTABLE ELECTRONIC TRIP OVER BREAKER FRAME SIZE. SOLID STATE TRIP FEATURES SHOWN: L = LONG DELAY S = SHORT DELAY I = INSTANTANEOUS G = GROUND FAULT |
| | 100 AT 100 AF 3P LSIG CIRCUIT BREAKER MCP = MOTOR CIRCUIT PROTECTOR 3P = 3 POLE THERMAL MAGNETIC TRIP |
| | 30A 3P CLF FUSED SWITCH: FUSE RATING AND POLES SHOWN MODIFIERS: CLF = CURRENT LIMITING FUSE DE = DUAL ELEMENT F = CLASS 'F' E = E RATED |
| | FU 30 30A FUSE: 100A CLASS 'F' SHOWN |
| | ATS# 100A, 3P POWER TRANSFER SWITCH: DESIGNATION, AMP RATING, AND CONFIGURATION SHOWN ATS = AUTOMATIC TRANSFER SWITCH MTS = MANUAL TRANSFER SWITCH SUSE = SUITABLE FOR USE AS SERVICE ENTRANCE |
| | 1 FVR AIR BREAK CONTACTOR, FVNR U.O.N. NEMA SIZE 1 INDICATED FVR = FULL VOLTAGE, REVERSING STARTER 2S2W = TWO SPEED, TWO WINDING STARTER |
| | METERING (ANSI / IEEE FUNCTIONS SPECIFIED) POWER MONITOR (PM) POWER QUALITY MONITOR (HARMONIC ANALYSIS) (PQM) MOTOR MONITOR AND PROTECTION RELAY (MPR) FEEDER PROTECTION RELAY (FPR) |
| | 5 KVA PACKAGED EQUIPMENT OR NON-MOTOR LOAD. KVA, KW, AMPS, AS NOTED. |
| | XX HP ### AMPS OR VFD VARIABLE FREQUENCY DRIVE (VFD) NORMAL DUTY UON HP IS INDICATED IF DIFFERENT THAN DRIVEN LOAD HP ###AMPS = RATED CONTINUOUS AMPS |
| | RVSS REDUCED VOLTAGE SOLID STATE STARTER |
| | SPD SURGE PROTECTION DEVICE |
| | 64 N 3 ANSI C37.2 DEVICE & QUANTITIES SHOWN |

ONE LINE DIAGRAM SYMBOLS

| | |
|--|---|
| | 600KW 480V 60 Hz 3P, 4W GENERATOR WITH WINDING CONFIGURATION VOLTAGE, POWER, FREQUENCY SHOWN. POWER FACTOR OPTIONAL |
| | 500 MOTOR, HORSE POWER SHOWN |
| | 55 KVAR POWER FACTOR CORRECTIONS CAPACITOR KVAR RATING SHOWN |
| | POTHEAD |
| | STRESS CONE |
| | PORTABLE CABLE |
| | CABLE BUS |
| | BUS CONDUCTOR |
| | CABLE CONDUCTOR |
| | SURGE ARRESTOR |
| | LIGHTNING ARRESTOR |
| | TEST DEVICE |
| | DISCONNECT OR ISOLATING SWITCH 200 AMP SHOWN |
| | 480 VAC 30KVA 5% Z 208/120V POWER TRANSFORMER, VOLTAGES, SIZE, AND IMPEDANCE SHOWN |
| | 1.5 KVA 480 VAC 2.5% Z 480 VAC ISOLATION TRANSFORMER, VOLTAGES, SIZE, AND IMPEDANCE SHOWN |
| | 480VAC - 120VAC POTENTIAL TRANSFORMER, PT QUANTITY SHOWN (3) AND VOLTAGES SHOWN |
| | 250/5 3 CURRENT TRANSFORMER, CT QUANTITY AND 250:5 TURNS RATIO SHOWN |
| | DELTA WYE (GROUNDED) |
| | K KIRK KEY INTERLOCK |
| | 50 AMP / 30 SEC GDR NEUTRAL GROUNDING RESISTOR. AMPS/TIME RATING SHOWN |
| | SMART MOTOR STARTER, NEMA SIZE 1 |



BID SET



JVWTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT

| REVISIONS | | |
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LINE IS 2 INCHES AT FULL SIZE

DESIGNED: N. ANDERSON
 DRAWN: B. PENALBA
 CHECKED: J. HIMEBAUGH
 CHECKED: D. STAR
 APPROVED: D. STAR

FILENAME: E-00-002.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277

ELECTRICAL

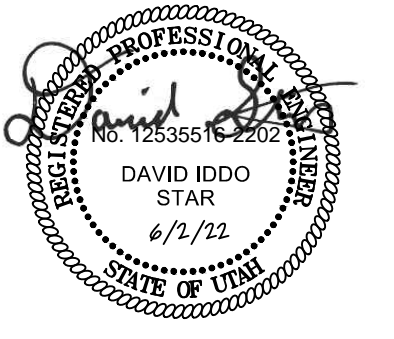
STANDARD DETAILS, SYMBOLS AND ABBREVIATIONS - 2

DRAWING NUMBER: E-00-002
 SHEET NUMBER OF: 27 OF 48

Path: C:\BCP\MD\186259 FILENAME: E-00-003.DWG PLOT DATE: 6/15/2022 10:41 AM CAD USER: NATE ANDERSON

KEY NOTES

1. PROVIDE TERMINAL BLOCKS TO COMBINE SHEAR AND OVERTORQUE SWITCHES INTO SINGLE CONTROL CIRCUIT BACK TO THE MCC BUCKET. SEE SHEET E-01-005 FOR SCHEMATIC.



BID SET



JVWTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT

REVISIONS

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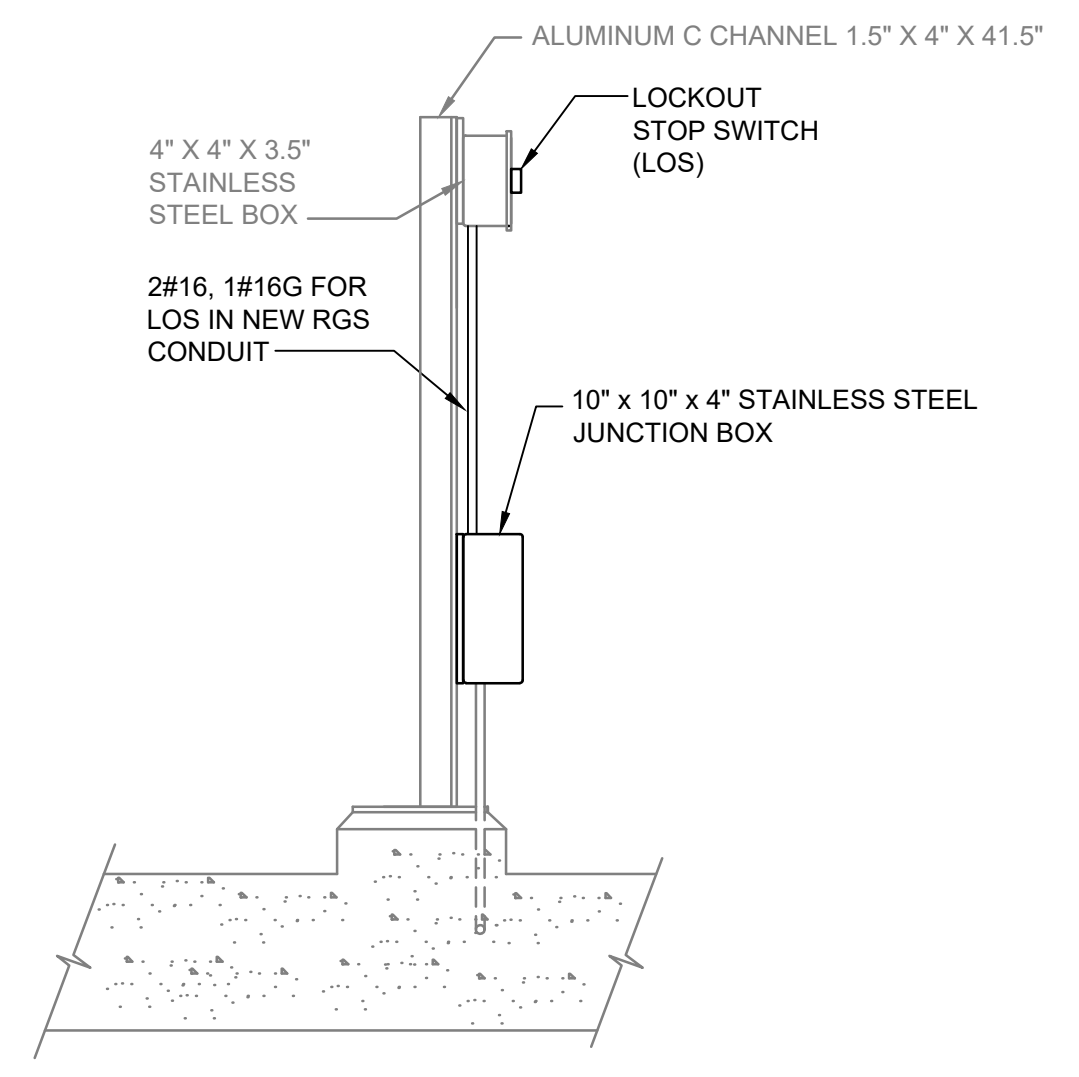
LINE IS 2 INCHES AT FULL SIZE

DESIGNED: N. ANDERSON
 DRAWN: B. PENALBA
 CHECKED: J. HIMEBAUGH
 CHECKED: D. STAR
 APPROVED: D. STAR

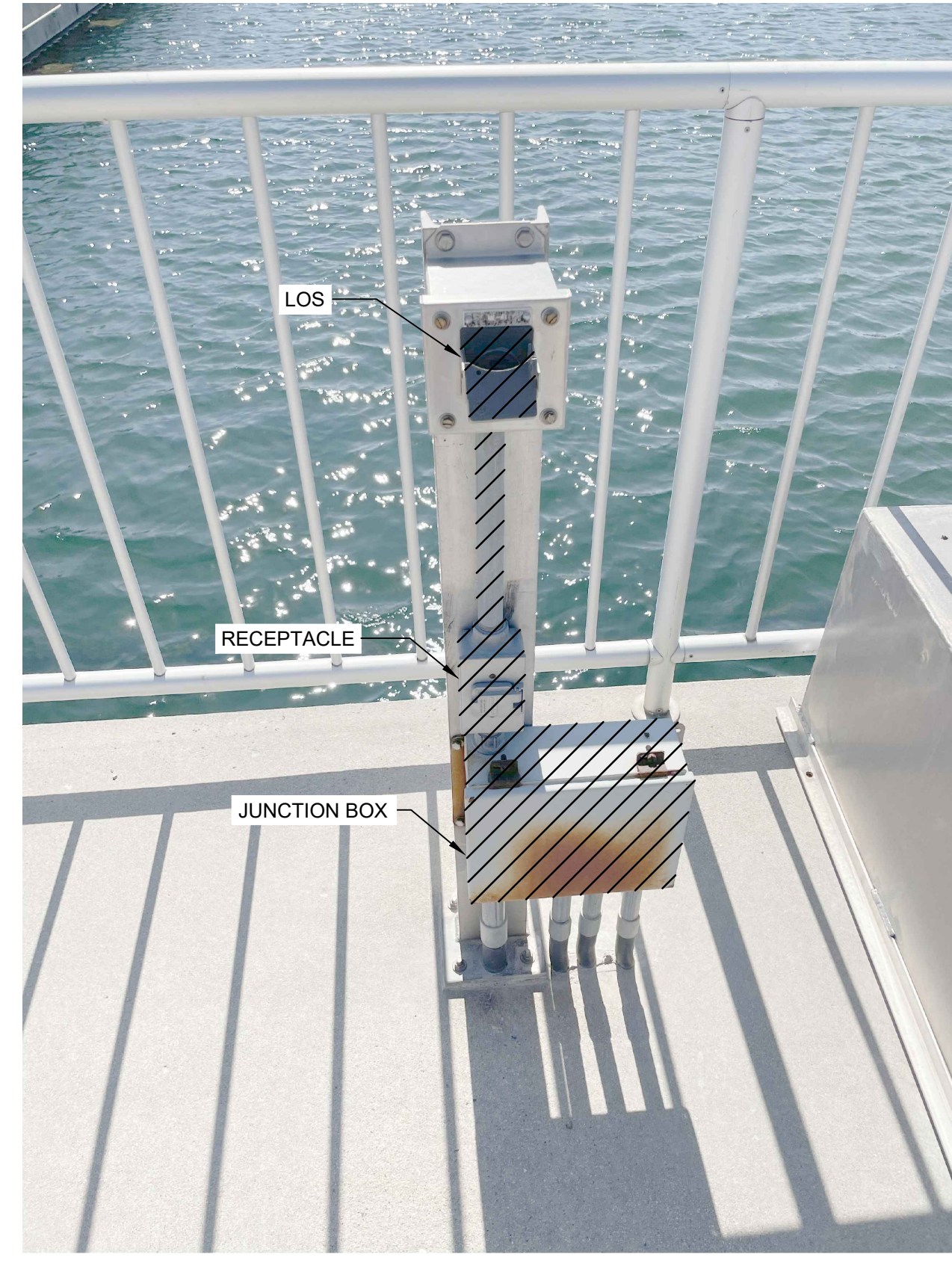
FILENAME: E-00-003.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277

ELECTRICAL
 STANDARD ELECTRICAL DETAILS

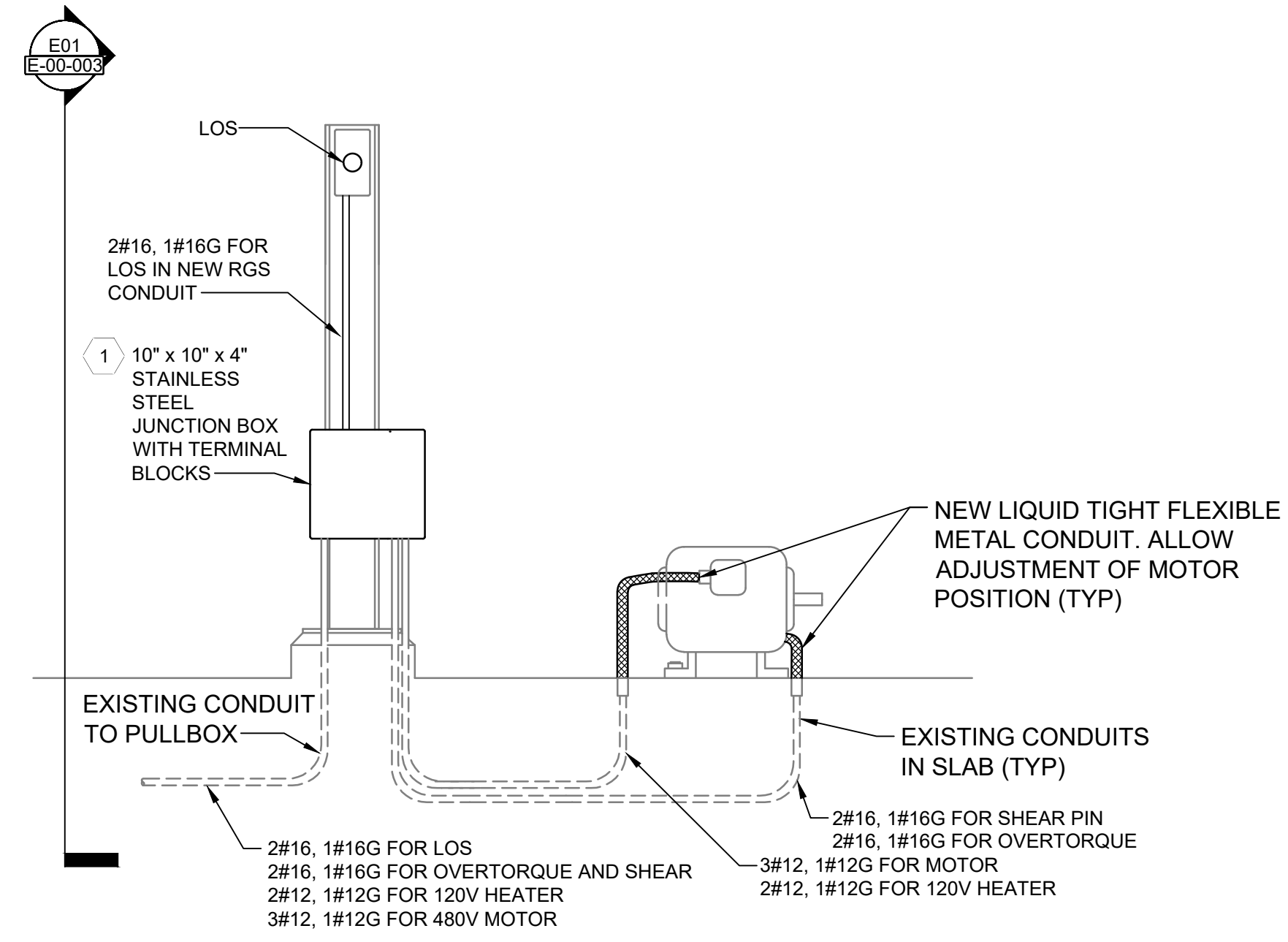
DRAWING NUMBER: E-00-003
 SHEET NUMBER OF: 28 OF 48



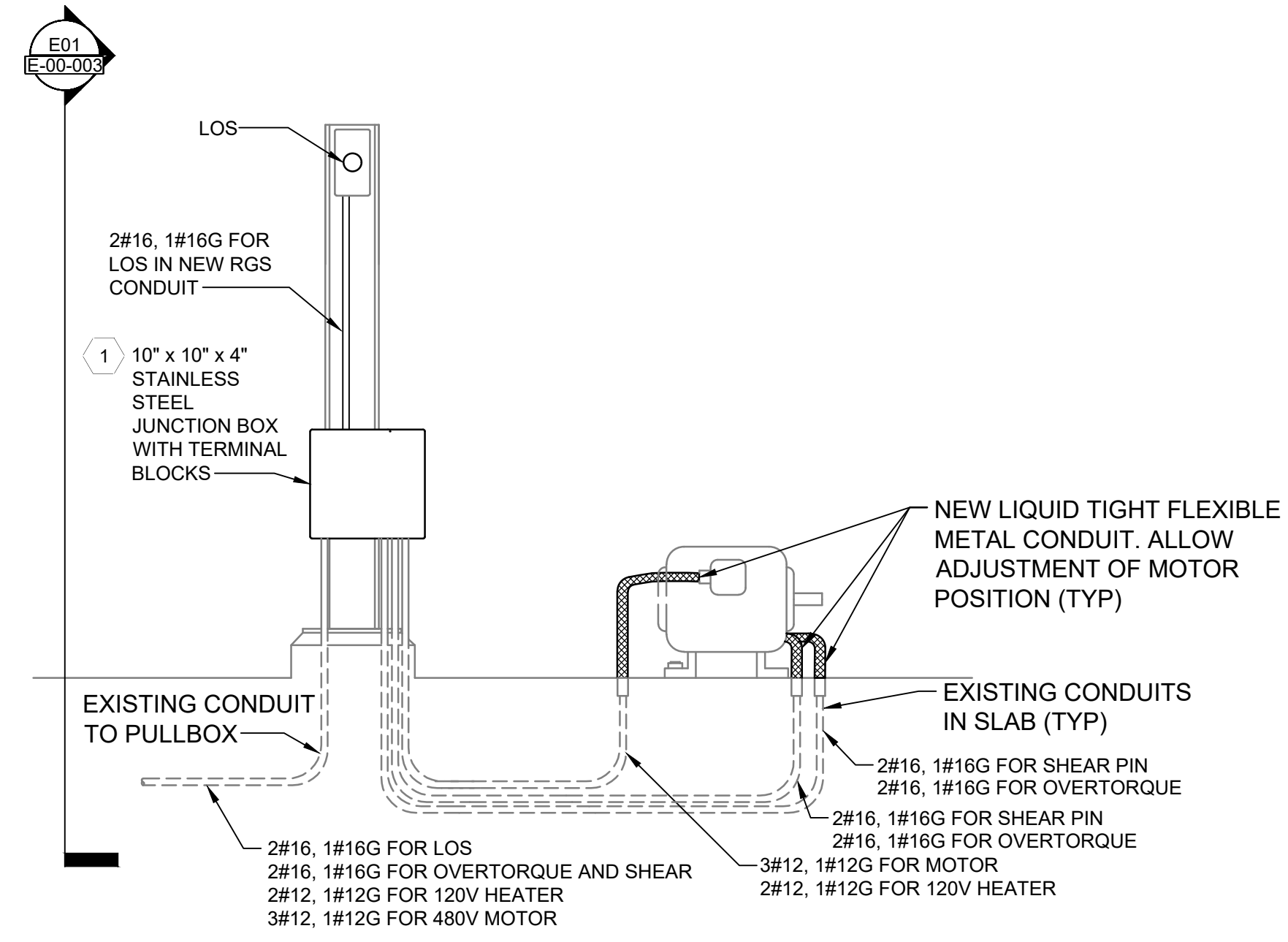
EQUIPMENT SUPPORTS INSTRUMENT/CONTROL STAND - ALUM DETAIL E01



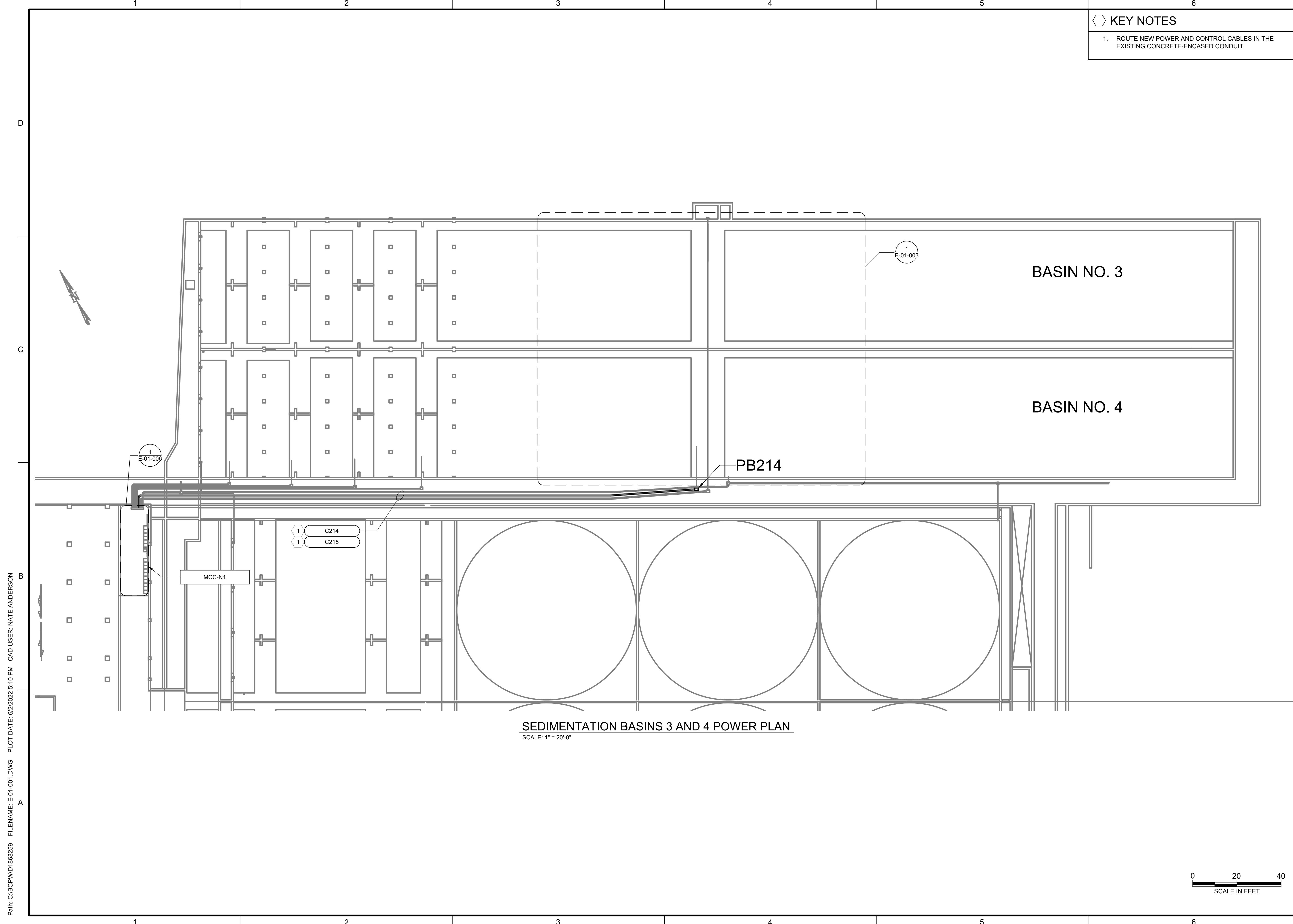
DEMOLISH EQUIPMENT SUPPORTS INSTRUMENT/CONTROL STAND - ALUM DETAIL ED01



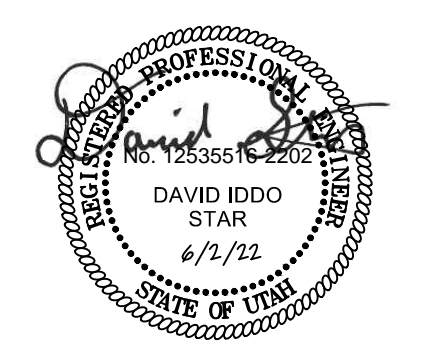
LOS SWITCH AND POWER INSTALLATION DETAIL E02



LOS SWITCH AND POWER INSTALLATION DETAIL E03



KEY NOTES
 1. ROUTE NEW POWER AND CONTROL CABLES IN THE EXISTING CONCRETE-ENCASED CONDUIT.



BID SET



**JVWTP
 SOLIDS COLLECTION
 EQUIPMENT
 UPGRADE PROJECT**

REVISIONS

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LINE IS 2 INCHES AT FULL SIZE

DESIGNED: N. ANDERSON
 DRAWN: B. PENALBA
 CHECKED: J. HIMEBAUGH
 CHECKED: D. STAR
 APPROVED: D. STAR

FILENAME: E-01-001.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277

ELECTRICAL

**SEDIMENTATION
 BASINS 3 AND 4
 POWER AND
 CONTROL PLAN**

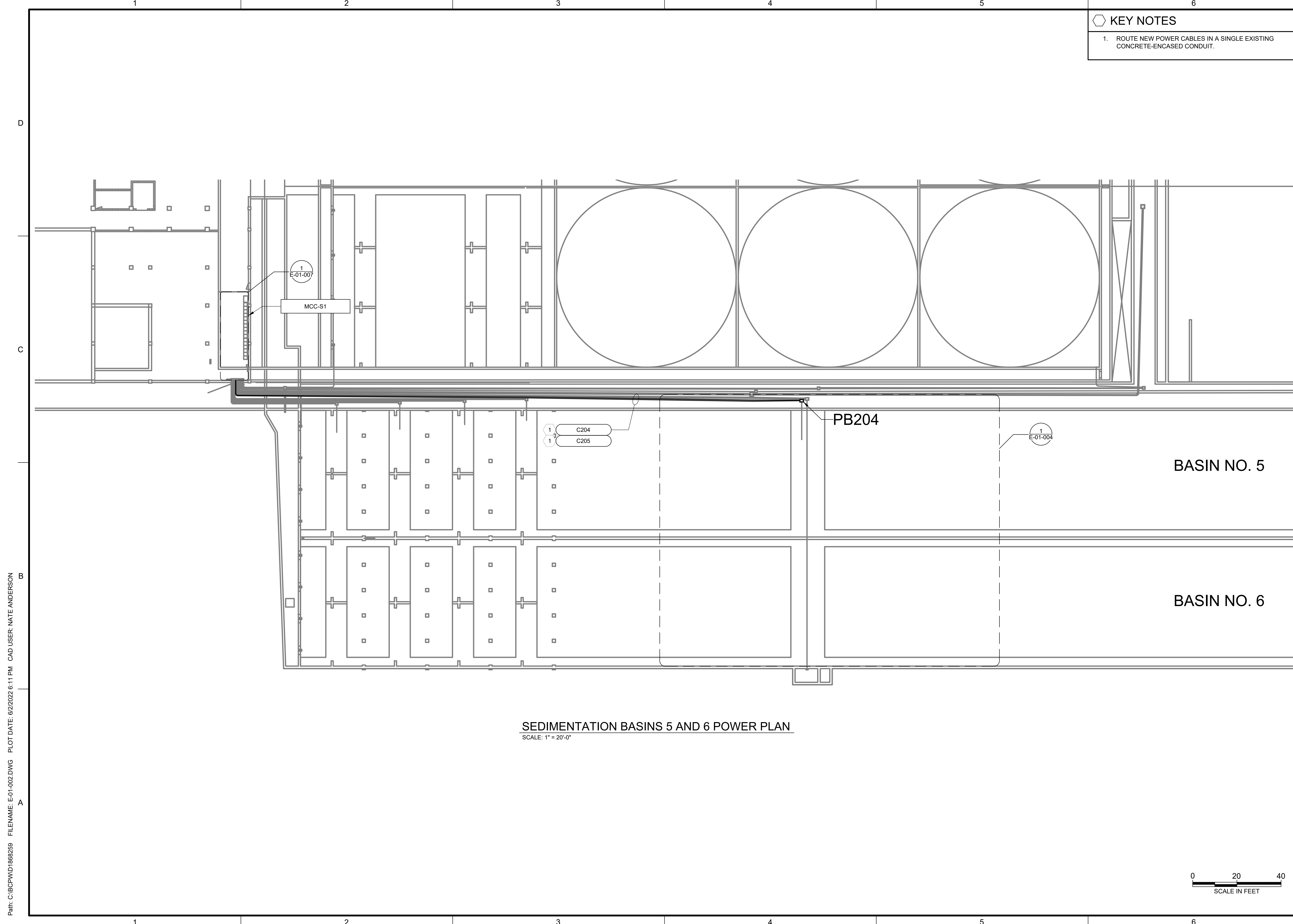
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E-01-001

29 SHEET NUMBER OF 48

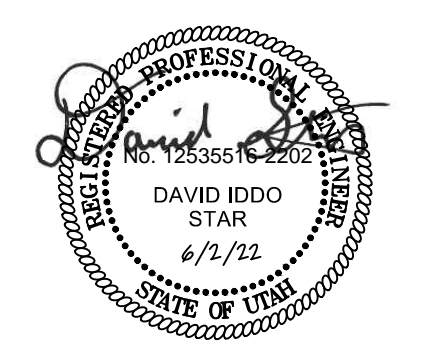
SEDIMENTATION BASINS 3 AND 4 POWER PLAN
 SCALE: 1" = 20'-0"



Path: C:\BCP\MD\166289 FILENAME: E-01-001.DWG PLOT DATE: 6/2/2022 5:10 PM CAD USER: NATE ANDERSON



KEY NOTES
 1. ROUTE NEW POWER CABLES IN A SINGLE EXISTING CONCRETE-ENCASED CONDUIT.



BID SET



JORDAN VALLEY WATER
 CONSERVANCY DISTRICT

JWTP
 SOLIDS COLLECTION
 EQUIPMENT
 UPGRADE PROJECT

REVISIONS

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LINE IS 2 INCHES AT FULL SIZE

DESIGNED: N. ANDERSON
 DRAWN: B. PENALBA
 CHECKED: J. HIMEBAUGH
 CHECKED: D. STAR
 APPROVED: D. STAR

FILENAME: E-01-002.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277

ELECTRICAL

SEDIMENTATION
 BASINS 5 AND 6
 POWER AND
 CONTROL PLAN

DRAWING NUMBER

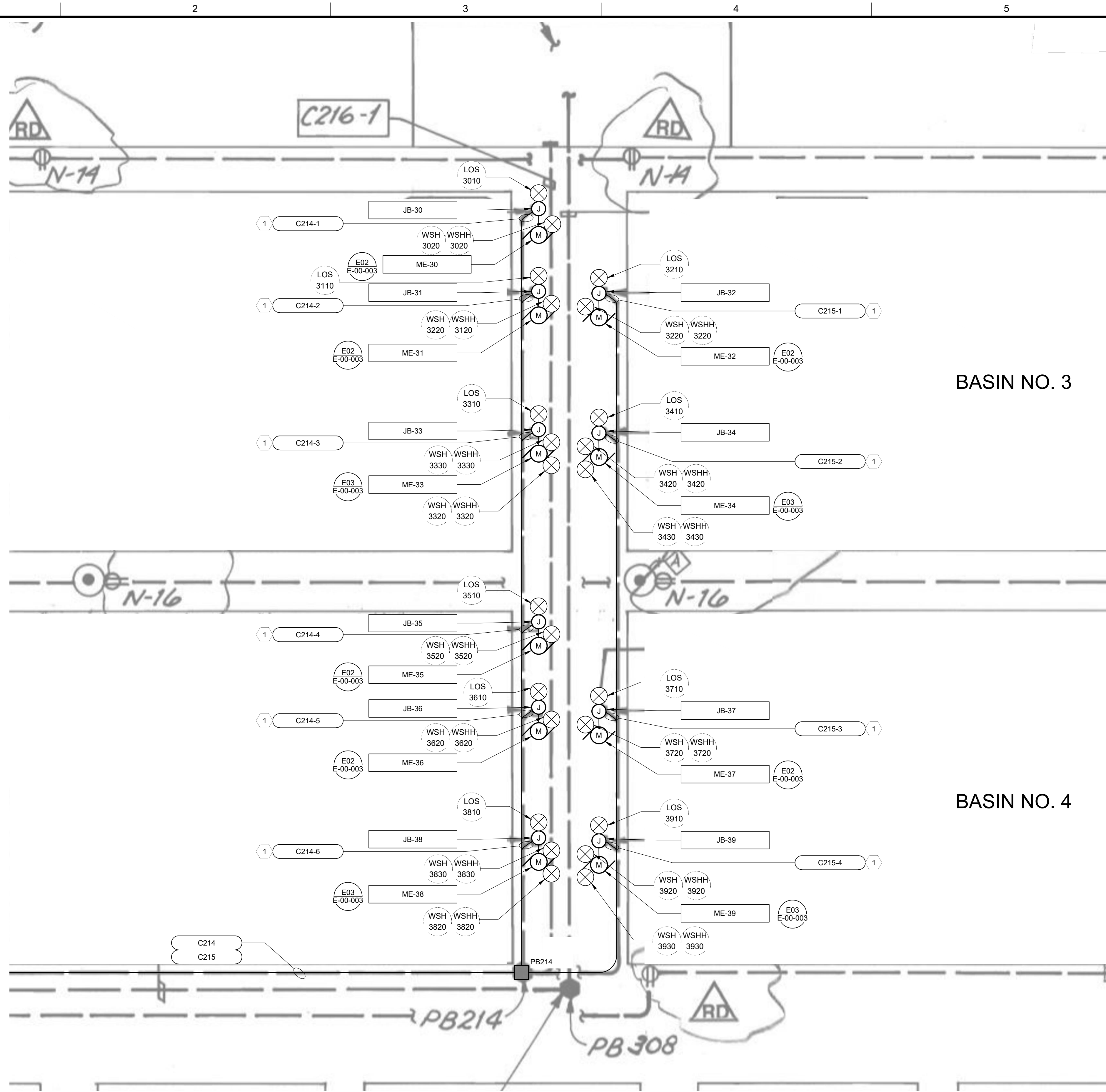
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30 SHEET NUMBER OF 48



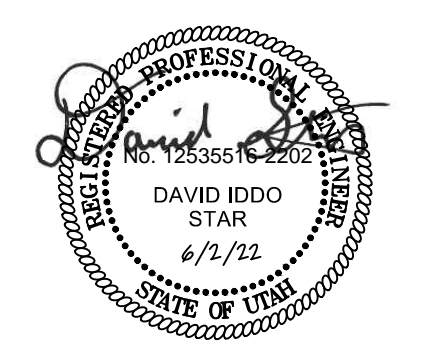
SEDIMENTATION BASINS 5 AND 6 POWER PLAN
 SCALE: 1" = 20'-0"

Path: C:\BCP\MD166289 FILENAME: E-01-002.DWG PLOT DATE: 6/2/2022 6:11 PM CAD USER: NATE ANDERSON



KEY NOTES

1. ROUTE NEW POWER AND CONTROL CABLES IN THE EXISTING CONCRETE-ENCASED CONDUIT.



BID SET



**JWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT**

REVISIONS

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LINE IS 2 INCHES AT FULL SIZE

DESIGNED: N. ANDERSON
 DRAWN: B. PENALBA
 CHECKED: J. HIMEBAUGH
 CHECKED: D. STAR
 APPROVED: D. STAR

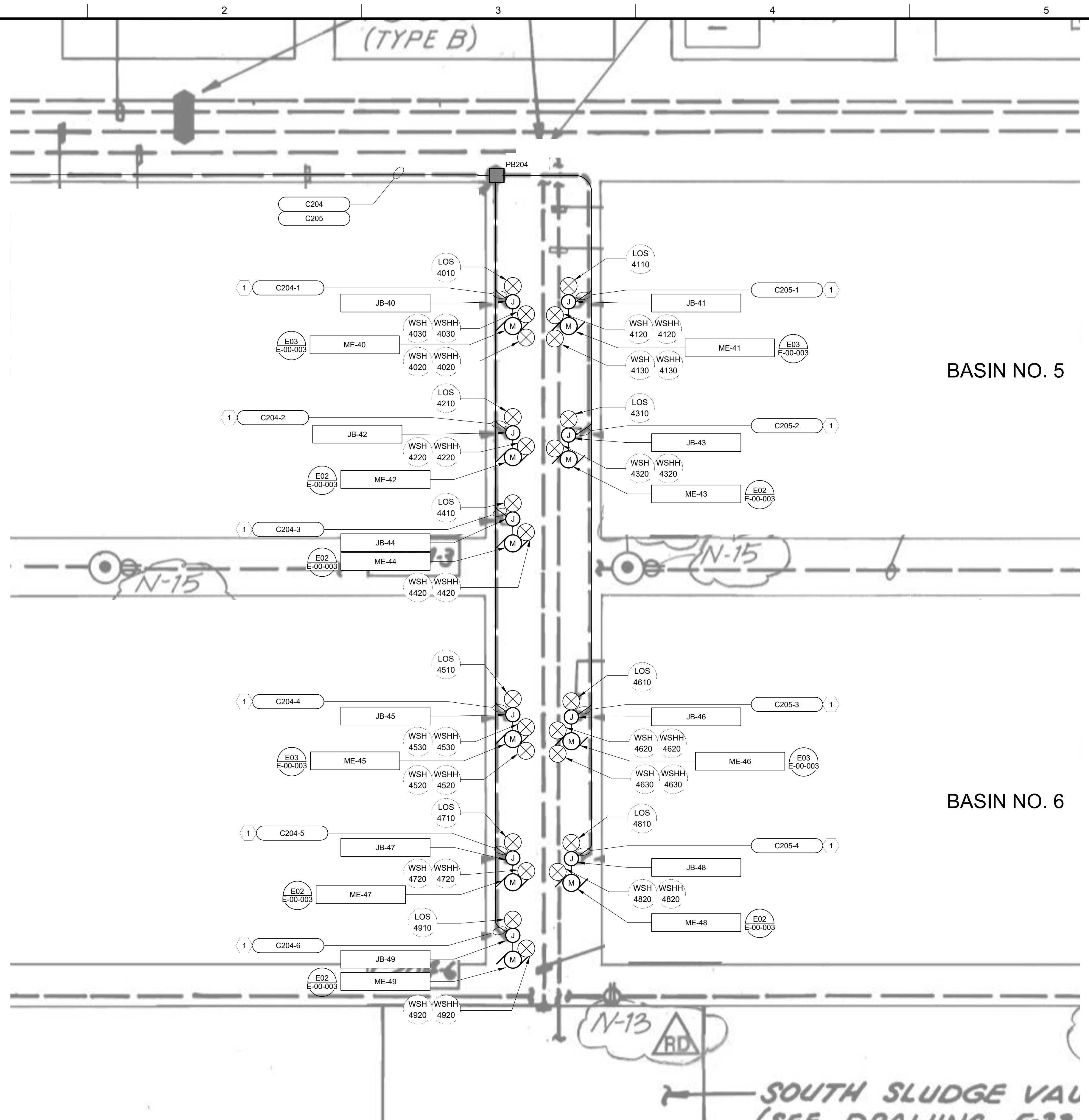
FILENAME: E-01-003.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277
 ELECTRICAL

**SEDIMENTATION
BASINS 3 AND 4
ENLARGED PLAN**

DRAWING NUMBER
E-01-003

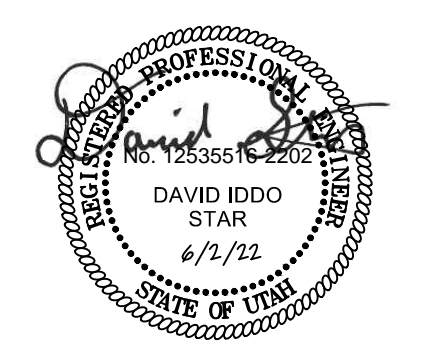
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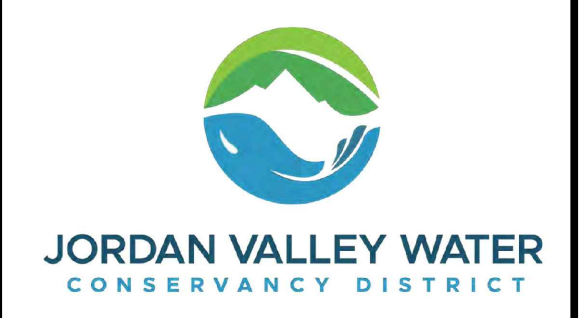


KEY NOTES

1. ROUTE NEW POWER AND CONTROL CABLES IN THE EXISTING CONCRETE-ENCASED CONDUIT.



BID SET



**JWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT**

REVISIONS

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DESIGNED: N. ANDERSON
 DRAWN: B. PENALBA
 CHECKED: J. HIMEBAUGH
 CHECKED: D. STAR
 APPROVED: D. STAR

FILENAME: E-01-004.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277

ELECTRICAL

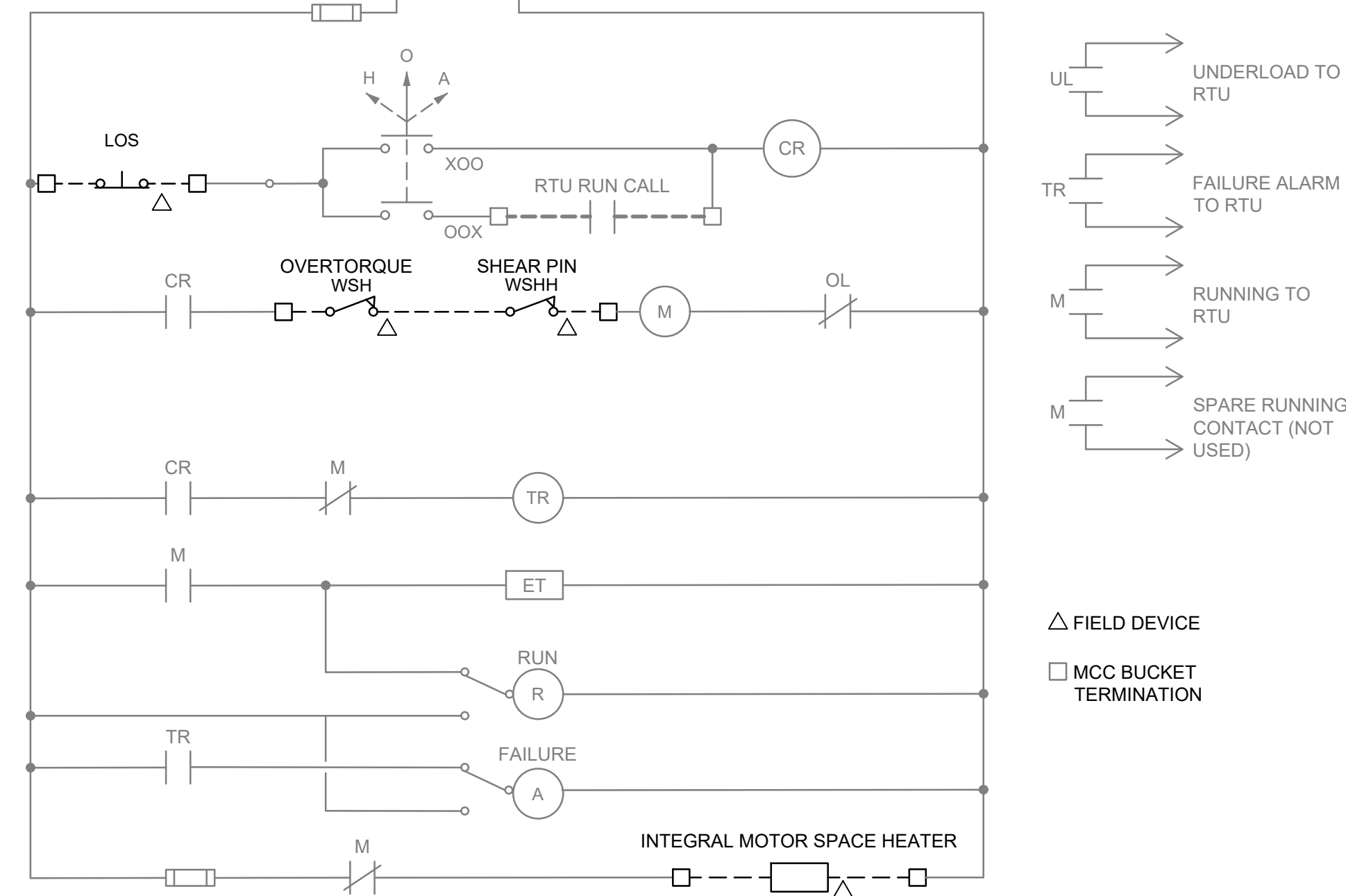
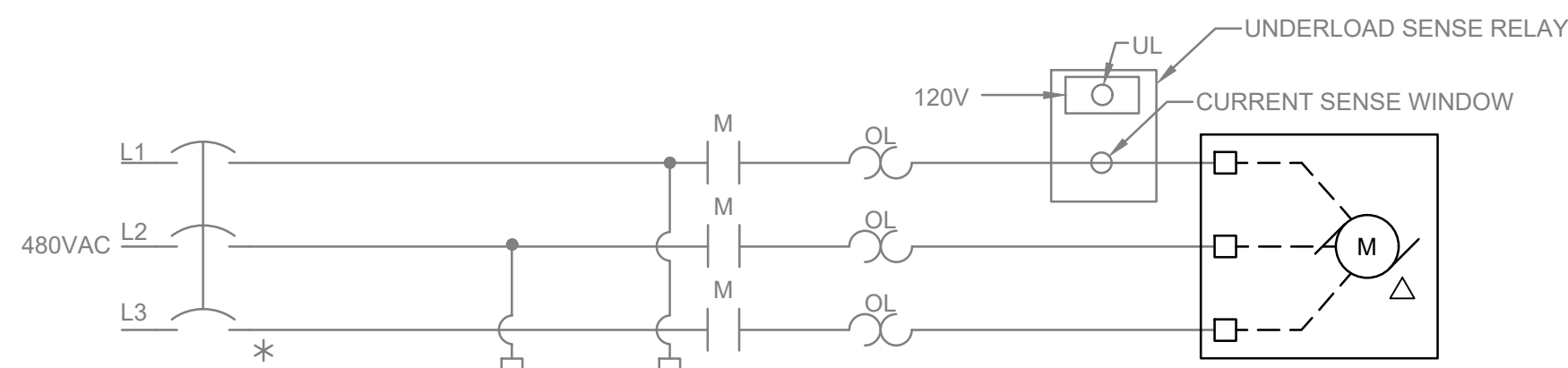
**SEDIMENTATION
BASINS 5 AND 6
ENLARGED PLAN**

DRAWING NUMBER: **E-01-004**

32 SHEET NUMBER OF 48

Path: C:\BCP\MD\186259 FILENAME: E-01-004.DWG PLOT DATE: 6/15/2022 10:43 AM CAD USER: NATE ANDERSON

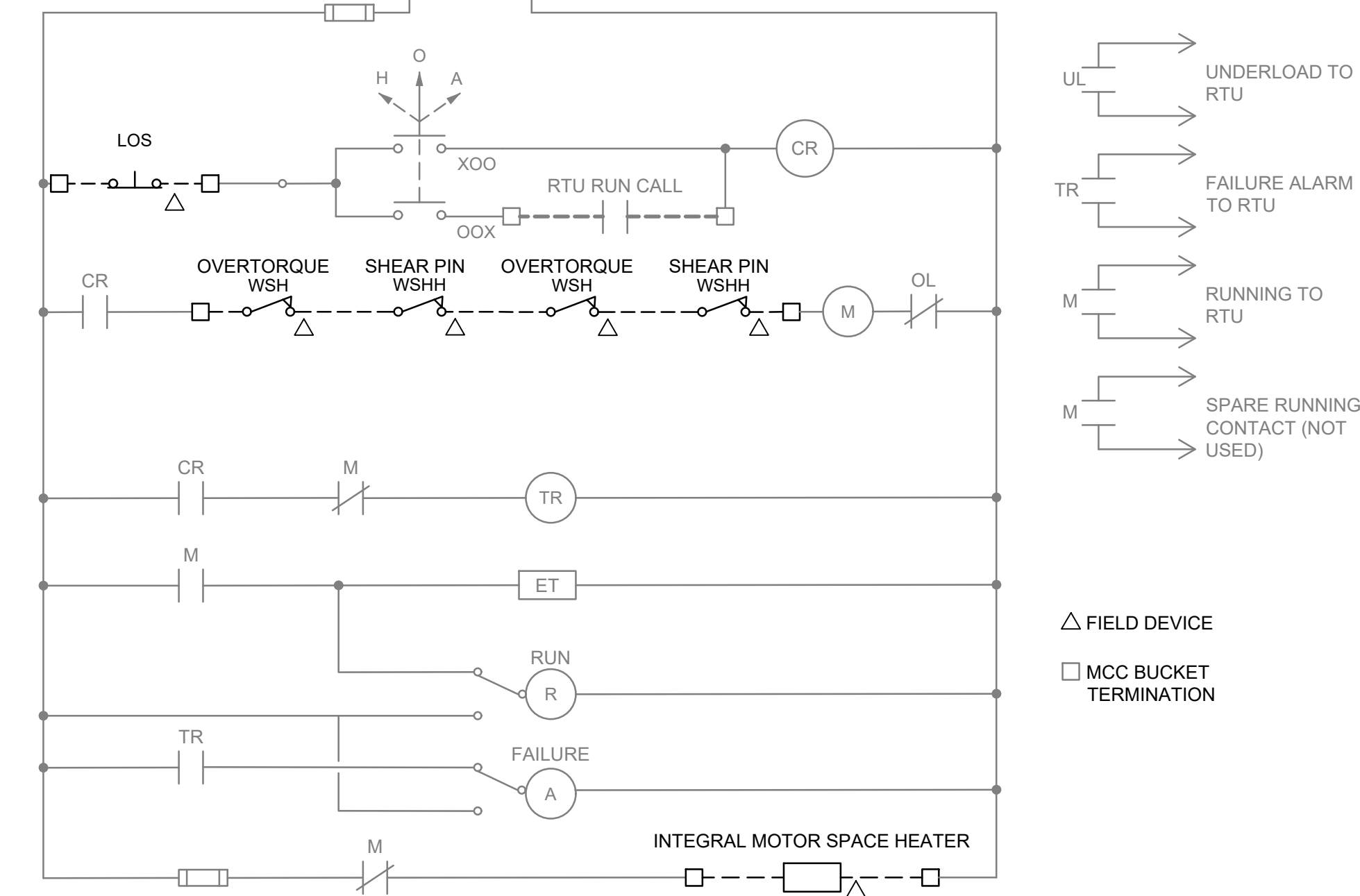
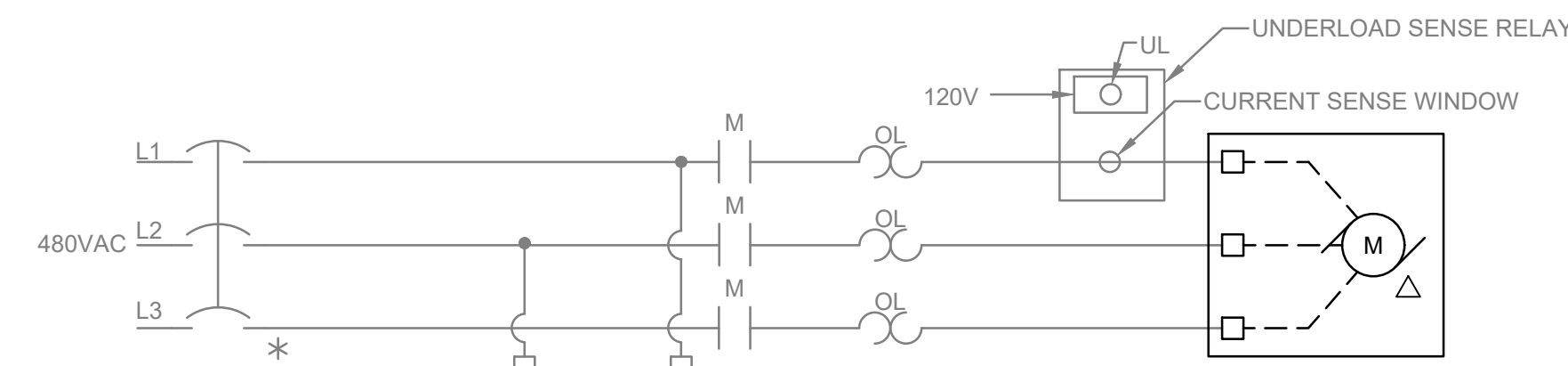
1 SEDIMENTATION BASINS 5 AND 6 ENLARGED PLAN
 E-01-004 SCALE: 1/8" = 1'-0"



- UL → UNDERLOAD TO RTU
- TR → FAILURE ALARM TO RTU
- M → RUNNING TO RTU
- M → SPARE RUNNING CONTACT (NOT USED)

△ FIELD DEVICE
 □ MCC BUCKET TERMINATION

MOTOR CONTROL SCHEMATIC 1
 NTS



- UL → UNDERLOAD TO RTU
- TR → FAILURE ALARM TO RTU
- M → RUNNING TO RTU
- M → SPARE RUNNING CONTACT (NOT USED)

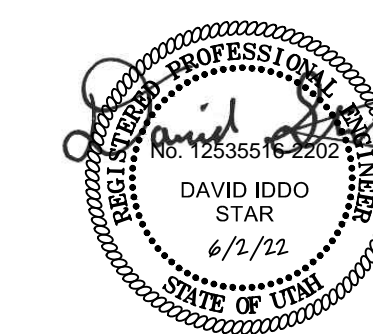
△ FIELD DEVICE
 □ MCC BUCKET TERMINATION

MOTOR CONTROL SCHEMATIC 2
 NTS

| MOTOR TAG | EQUIPMENT NAME | P&ID |
|-----------|-----------------------|----------|
| ME-30 | SLUDGE COLLECTOR 2330 | I-01-001 |
| ME-31 | SLUDGE COLLECTOR 2331 | I-01-001 |
| ME-32 | SLUDGE COLLECTOR 2332 | I-01-001 |
| ME-35 | SLUDGE COLLECTOR 2335 | I-01-002 |
| ME-36 | SLUDGE COLLECTOR 2336 | I-01-002 |
| ME-37 | SLUDGE COLLECTOR 2337 | I-01-002 |
| ME-42 | SLUDGE COLLECTOR 2342 | I-01-003 |
| ME-43 | SLUDGE COLLECTOR 2343 | I-01-003 |
| ME-44 | SLUDGE COLLECTOR 2344 | I-01-003 |
| ME-47 | SLUDGE COLLECTOR 2347 | I-01-004 |
| ME-48 | SLUDGE COLLECTOR 2348 | I-01-004 |
| ME-49 | SLUDGE COLLECTOR 2349 | I-01-004 |

| MOTOR TAG | EQUIPMENT NAME | P&ID |
|-----------|-----------------------|----------|
| ME-33 | SLUDGE COLLECTOR 2333 | I-01-001 |
| ME-34 | SLUDGE COLLECTOR 2334 | I-01-001 |
| ME-38 | SLUDGE COLLECTOR 2338 | I-01-002 |
| ME-39 | SLUDGE COLLECTOR 2339 | I-01-002 |
| ME-40 | SLUDGE COLLECTOR 2340 | I-01-003 |
| ME-41 | SLUDGE COLLECTOR 2341 | I-01-003 |
| ME-45 | SLUDGE COLLECTOR 2345 | I-01-004 |
| ME-46 | SLUDGE COLLECTOR 2346 | I-01-004 |

ABBREVIATIONS:
 LOS = LOCK OUT STOP
 HOA = HAND-OFF-AUTO
 UL = UNDERLOAD
 OL = OVERLOAD
 TR = TIME RELAY



BID SET



**JVWTP
 SOLIDS COLLECTION
 EQUIPMENT
 UPGRADE PROJECT**

REVISIONS

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LINE IS 2 INCHES
 AT FULL SIZE

DESIGNED: N. ANDERSON
 DRAWN: B. PENALBA
 CHECKED: J. HIMEBAUGH
 CHECKED: D. STAR
 APPROVED: D. STAR

FILENAME
 E-01-005.dwg
 BC PROJECT NUMBER
 157012
 CLIENT PROJECT NUMBER
 4277

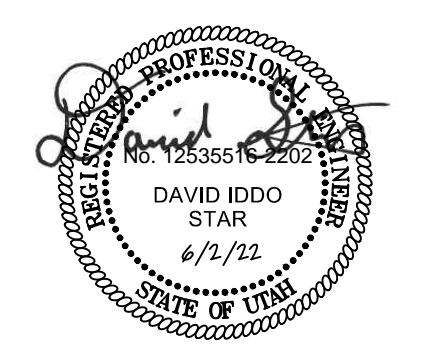
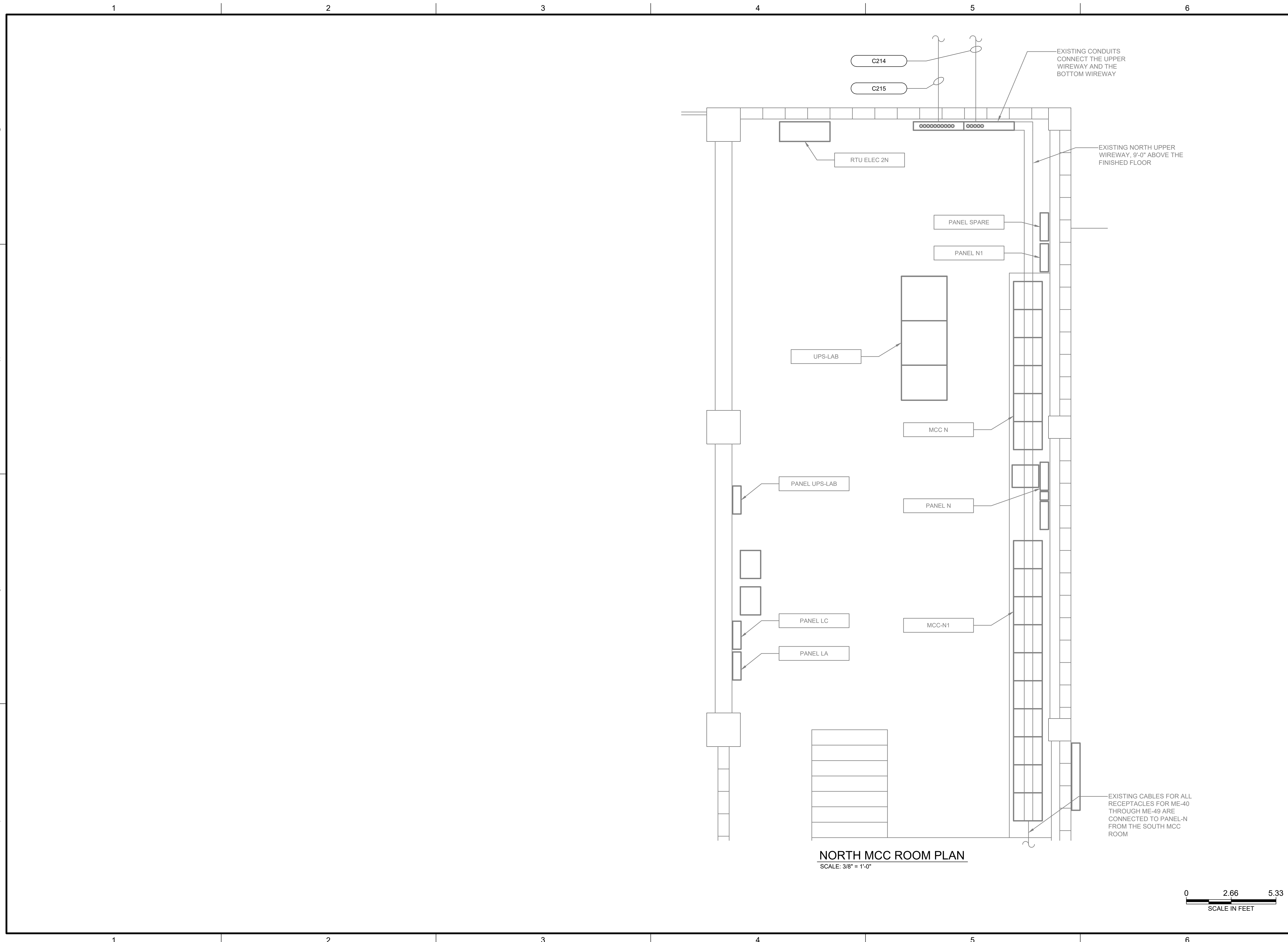
ELECTRICAL

**PANEL, CONDUIT
 AND CONDUCTOR
 SCHEDULE**

DRAWING NUMBER
E-01-005

33 SHEET NUMBER OF 48

Path: C:\BCP\DWG\186259 FILENAME: E-01-006.DWG PLOT DATE: 6/15/2022 10:44 AM CAD USER: NATE ANDERSON



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**JWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT**

REVISIONS

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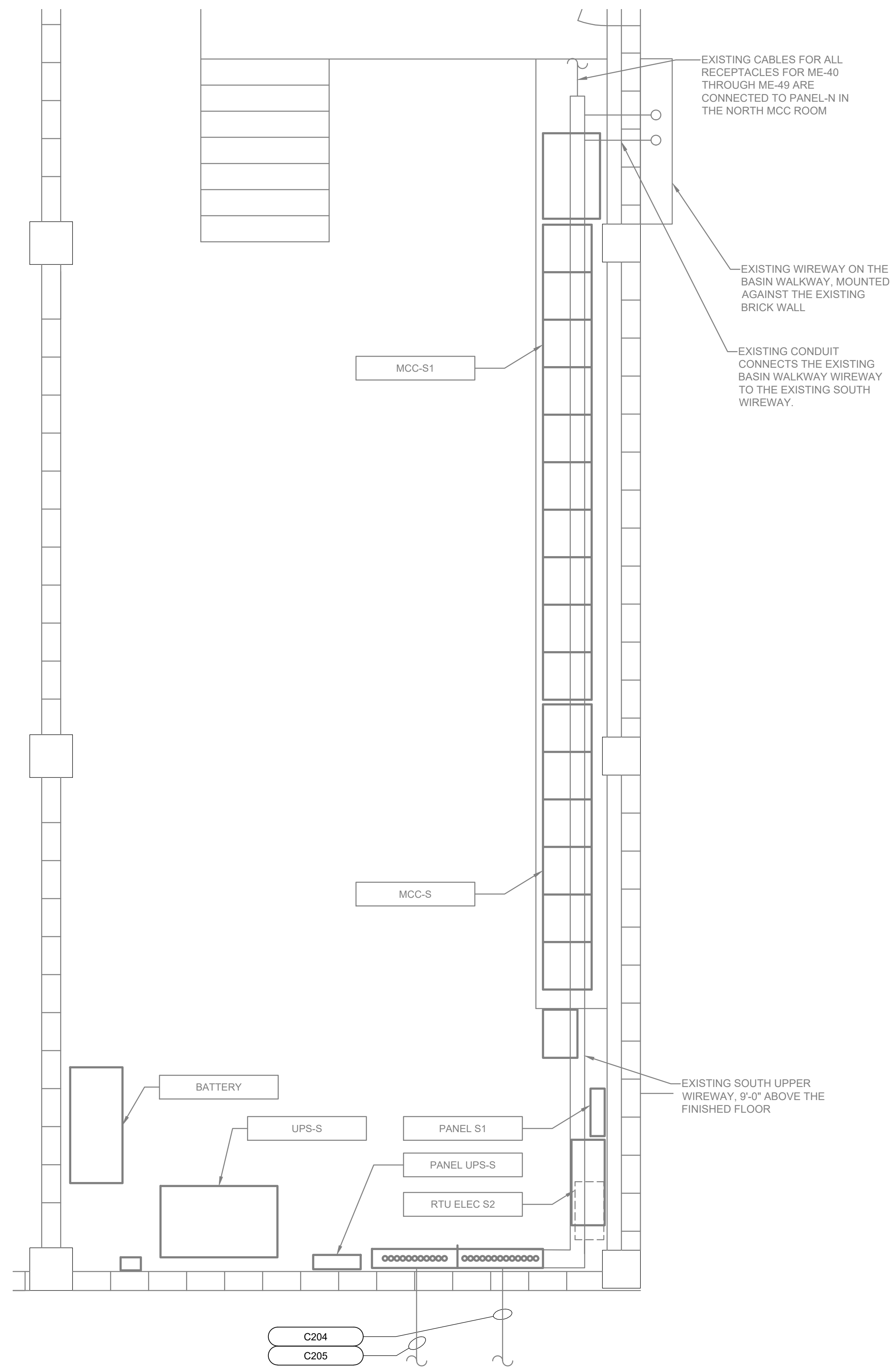
DESIGNED: N. ANDERSON
 DRAWN: B. PENALBA
 CHECKED: J. HIMEBAUGH
 CHECKED: D. STAR
 APPROVED: D. STAR

FILENAME: E-01-006.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277

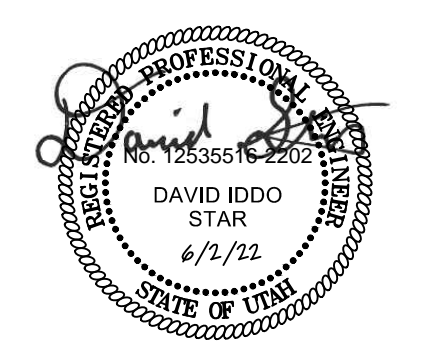
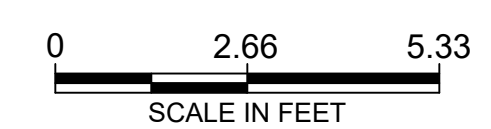
ELECTRICAL

NORTH MCC ROOM PLAN

Path: C:\BPCP\MD186289 FILENAME: E-01-007.DWG PLOT DATE: 6/3/2022 8:44 AM CAD USER: NATE ANDERSON



SOUTH MCC ROOM PLAN
SCALE: 3/8" = 1'-0"



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**JWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT**

REVISIONS

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LINE IS 2 INCHES AT FULL SIZE

DESIGNED: N. ANDERSON
DRAWN: B. PENALBA
CHECKED: J. HIMEBAUGH
CHECKED: D. STAR
APPROVED: D. STAR

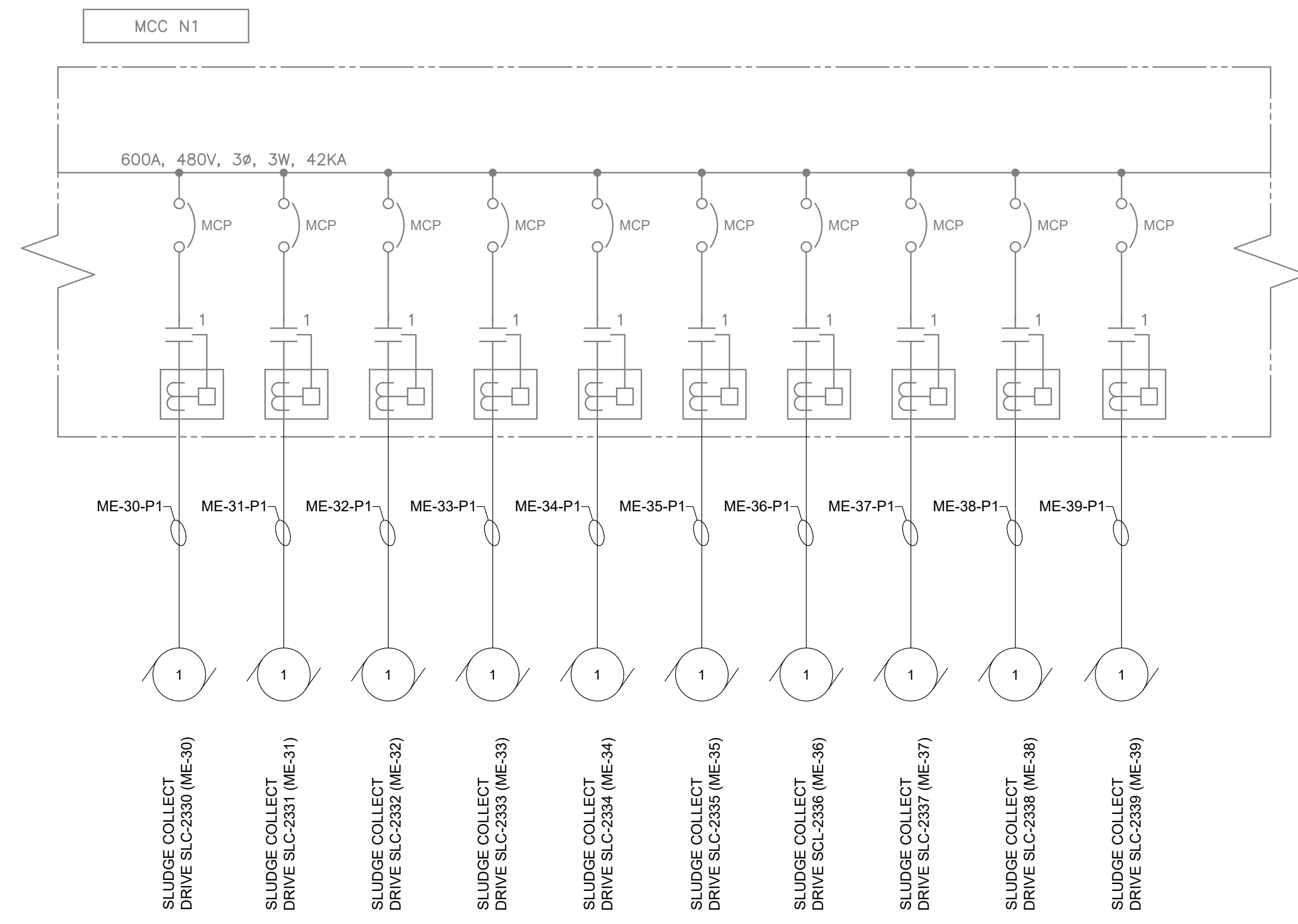
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ELECTRICAL

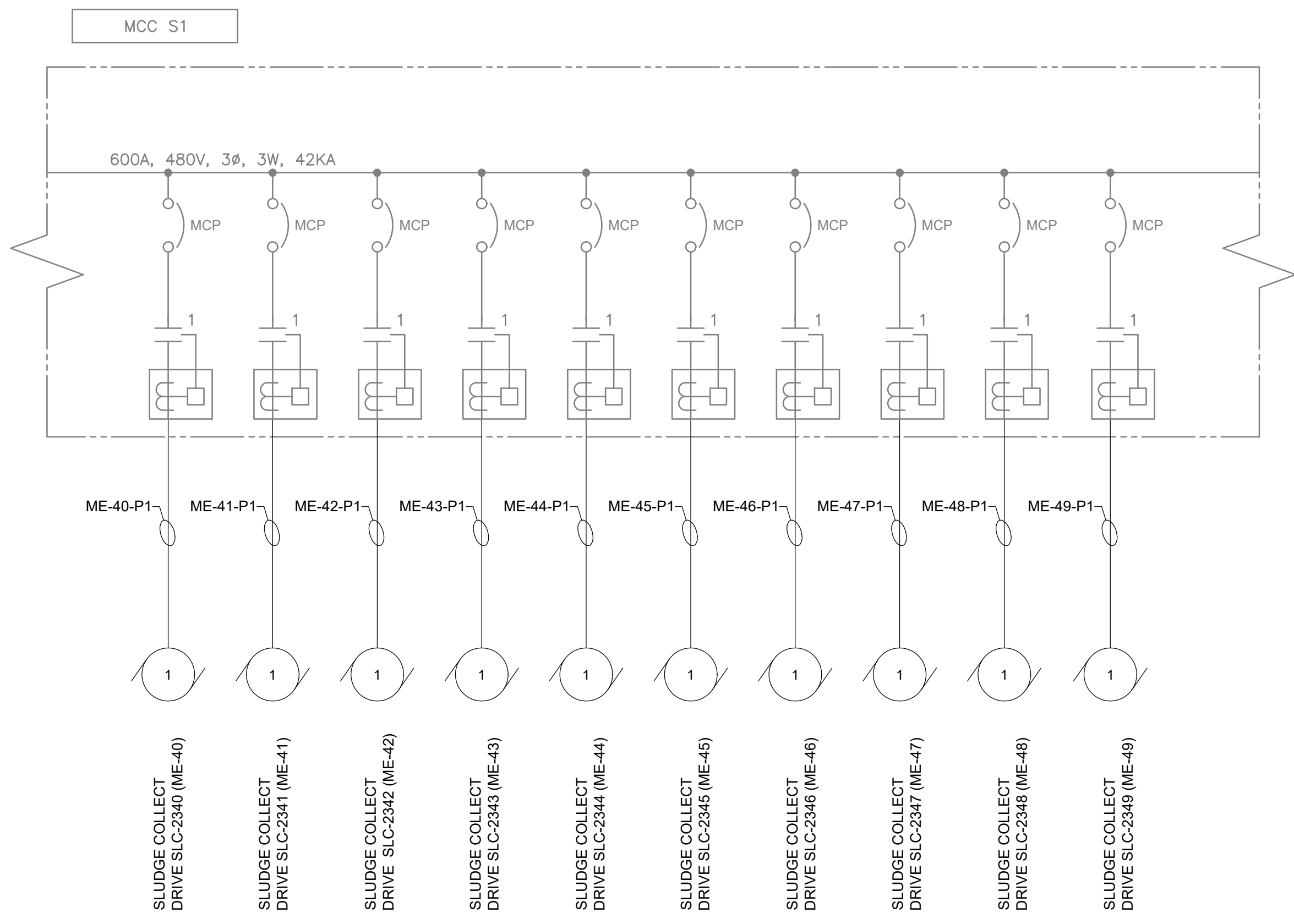
SOUTH MCC ROOM PLAN

DRAWING NUMBER: **E-01-007**

35 SHEET NUMBER OF 48



MOTOR CONTROL CENTER - N1
NTS



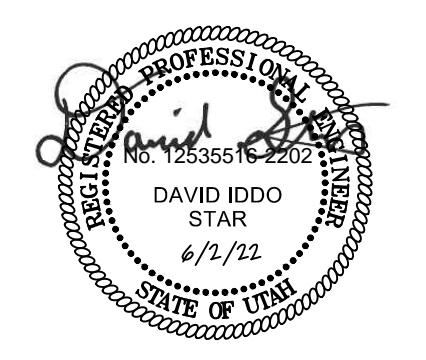
MOTOR CONTROL CENTER - S1
NTS

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|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------|----------------------|-------|
| SOURCE LINE TERMINATION | FLOCCULATION MIXER 2220 (MX-20) | FLOCCULATION MIXER 2224 (MX-24) | FLOCCULATION MIXER 2228 (MX-28) | SLUDGE COLLECTOR 2330 (ME-30) | SLUDGE COLLECTOR 2334 (ME-34) | SLUDGE COLLECTOR 2338 (ME-38) | SPACE | NORTH RAPID MIX PUMP | SPACE |
| | FLOCCULATION MIXER 2222 (MX-22) | FLOCCULATION MIXER 2226 (MX-26) | FLOCCULATION MIXER 2270 (MX-70) | SLUDGE COLLECTOR 2331 (ME-31) | SLUDGE COLLECTOR 2335 (ME-35) | SLUDGE COLLECTOR 2339 (ME-39) | PANEL PP-9 FEEDER | | SPACE |
| FLOCCULATION MIXER 2244 (MX-44) | FLOCCULATION MIXER 2245 (MX-45) | FLOCCULATION MIXER 2252 (MX-52) | FLOCCULATION MIXER 2253 (MX-53) | SLUDGE COLLECTOR 2332 (ME-32) | SLUDGE COLLECTOR 2336 (ME-36) | SPACE | SPACE | SPACE | SPACE |
| FLOCCULATION MIXER 2248 (MX-48) | FLOCCULATION MIXER 2240 (MX-40) | FLOCCULATION MIXER 2256 (MX-56) | FLOCCULATION MIXER 2257 (MX-57) | SLUDGE COLLECTOR 2333 (ME-33) | SLUDGE COLLECTOR 2337 (ME-37) | PANEL LA TRANSFORMER FEEDER | SPACE | SPACE | SPACE |

MOTOR CONTROL CENTER - N1 ELEVATION
NTS

| | | | | | | | | | |
|--|---------------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------|----------------------|-------------------------------|
| SOURCE LINE TERMINATION AND MAIN BREAKER | FLOCCULATION MIXER 2232 (MX-32) | FLOCCULATION MIXER 2236 (MX-36) | FLOCCULATION MIXER 2240 (MX-40) | SLUDGE COLLECTOR 2340 (ME-40) | SLUDGE COLLECTOR 2344 (ME-44) | SLUDGE COLLECTOR 2348 (ME-48) | STORAGE TENT | SOUTH RAPID MIX PUMP | SPACE |
| | FLOCCULATION MIXER 2234 (MX-34) | FLOCCULATION MIXER 2238 (MX-38) | FLOCCULATION MIXER 2242 (MX-42) | SLUDGE COLLECTOR 2341 (ME-41) | SLUDGE COLLECTOR 2345 (ME-45) | SLUDGE COLLECTOR 2349 (ME-49) | PANEL S1 XFMR FEEDER | | PANEL PLANT PANEL XFMR FEEDER |
| FLOCCULATION MIXER 2260 (MX-60) | FLOCCULATION MIXER 2261 (MX-61) | FLOCCULATION MIXER 2268 (MX-68) | FLOCCULATION MIXER 2269 (MX-69) | SLUDGE COLLECTOR 2342 (ME-42) | SLUDGE COLLECTOR 2346 (ME-46) | SPACE | UPS-S1 RECTIFIER | SPACE | SPACE |
| FLOCCULATION MIXER 2264 (MX-64) | FLOCCULATION MIXER 2265 (MX-65) | FLOCCULATION MIXER 2272 (MX-72) | FLOCCULATION MIXER 2273 (MX-73) | SLUDGE COLLECTOR 2343 (ME-43) | SLUDGE COLLECTOR 2347 (ME-47) | SPACE | SPACE | SPACE | SPACE |

MOTOR CONTROL CENTER - S1 ELEVATION
NTS



BID SET



JVWTP SOLIDS COLLECTION EQUIPMENT UPGRADE PROJECT

REVISIONS

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LINE IS 2 INCHES AT FULL SIZE

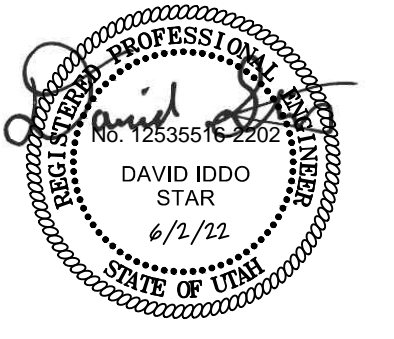
DESIGNED: N. ANDERSON
DRAWN: B. PENALBA
CHECKED: J. HIMEBAUGH
CHECKED: D. STAR
APPROVED: D. STAR

FILENAME: E-01-008.dwg
BC PROJECT NUMBER: 157012
CLIENT PROJECT NUMBER: 4277

ELECTRICAL ONE-LINE DIAGRAM

Path: C:\BCP\DWG\166259 FILENAME: E-01-009.DWG PLOT DATE: 6/22/2022 6:32 PM CAD USER: NATE ANDERSON

| CABLE SCHEDULE | | | | | | | | | | | | |
|----------------|----------------------------------|-------------|------|--------|--------|---------------|-------|--------|--------|-------|---------------|----------------------|
| CABLE | DRAWING | COUNT/AWG | TYPE | FROM | TO | VIA | | | | | REMARKS | |
| | | | | | | | | | | | | |
| ME-30-P1 | E-01-006 E-01-001 E-01-003 | 3#12, 1#12G | XHHW | MCC-N1 | ME-30 | NORTH WIREWAY | C214 | PB-214 | C214-1 | JB-30 | | 480V POWER |
| ME-30-P2 | E-01-006 E-01-001 E-01-003 | 2#12, 1#12G | XHHW | MCC-N1 | ME-30 | NORTH WIREWAY | C214 | PB-214 | C214-1 | JB-30 | | 120V HEATER |
| ME-30-C1 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-30 | MCC-N1 | | JB-30 | C214-1 | PB-214 | C214 | NORTH WIREWAY | LOCK OUT STOP |
| ME-30-C2 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-30 | MCC-N1 | | JB-30 | C214-1 | PB-214 | C214 | NORTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-31-P1 | E-01-006 E-01-001 E-01-003 | 3#12, 1#12G | XHHW | MCC-N1 | ME-31 | NORTH WIREWAY | C214 | PB-214 | C214-2 | JB-31 | | 480V POWER |
| ME-31-P2 | E-01-006 E-01-001 E-01-003 | 2#12, 1#12G | XHHW | MCC-N1 | ME-31 | NORTH WIREWAY | C214 | PB-214 | C214-2 | JB-31 | | 120V HEATER |
| ME-31-C1 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-31 | MCC-N1 | | JB-31 | C214-2 | PB-214 | C214 | NORTH WIREWAY | LOCK OUT STOP |
| ME-31-C2 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-31 | MCC-N1 | | JB-31 | C214-2 | PB-214 | C214 | NORTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-32-P1 | E-01-006 E-01-001 E-01-003 | 3#12, 1#12G | XHHW | MCC-N1 | ME-32 | NORTH WIREWAY | C215 | PB-214 | C215-1 | JB-32 | | 480V POWER |
| ME-32-P2 | E-01-006 E-01-001 E-01-003 | 2#12, 1#12G | XHHW | MCC-N1 | ME-32 | NORTH WIREWAY | C215 | PB-214 | C215-1 | JB-32 | | 120V HEATER |
| ME-32-C1 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-32 | MCC-N1 | | JB-32 | C215-1 | PB-214 | C215 | NORTH WIREWAY | LOCK OUT STOP |
| ME-32-C2 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-32 | MCC-N1 | | JB-32 | C215-1 | PB-214 | C215 | NORTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-33-P1 | E-01-006 E-01-001 E-01-003 | 3#12, 1#12G | XHHW | MCC-N1 | ME-33 | NORTH WIREWAY | C214 | PB-214 | C214-3 | JB-33 | | 480V POWER |
| ME-33-P2 | E-01-006 E-01-001 E-01-003 | 2#12, 1#12G | XHHW | MCC-N1 | ME-33 | NORTH WIREWAY | C214 | PB-214 | C214-3 | JB-33 | | 120V HEATER |
| ME-33-C1 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-33 | MCC-N1 | | JB-33 | C214-3 | PB-214 | C214 | NORTH WIREWAY | LOCK OUT STOP |
| ME-33-C2 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-33 | MCC-N1 | | JB-33 | C214-3 | PB-214 | C214 | NORTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-34-P1 | E-01-006 E-01-001 E-01-003 | 3#12, 1#12G | XHHW | MCC-N1 | ME-34 | NORTH WIREWAY | C215 | PB-214 | C215-2 | JB-34 | | 480V POWER |
| ME-34-P2 | E-01-006 E-01-001 E-01-003 | 2#12, 1#12G | XHHW | MCC-N1 | ME-34 | NORTH WIREWAY | C215 | PB-214 | C215-2 | JB-34 | | 120V HEATER |
| ME-34-C1 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-34 | MCC-N1 | | JB-34 | C215-2 | PB-214 | C215 | NORTH WIREWAY | LOCK OUT STOP |
| ME-34-C2 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-34 | MCC-N1 | | JB-34 | C215-2 | PB-214 | C215 | NORTH WIREWAY | SHEAR AND OVERTORQUE |



BID SET



**JWTP
SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT**

REVISIONS

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LINE IS 2 INCHES AT FULL SIZE

DESIGNED: N. ANDERSON
 DRAWN: N. ANDERSON
 CHECKED: J. HIMEBAUGH
 CHECKED: D. STAR
 APPROVED: D. STAR

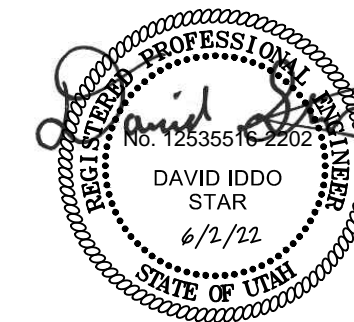
FILENAME: E-01-009.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277
ELECTRICAL

CABLE SCHEDULE 1

DRAWING NUMBER: **E-01-009**
 SHEET NUMBER OF: **37** OF **48**

Path: C:\BCP\MD186289 FILENAME: E-01-010.DWG PLOT DATE: 6/22/2022 6:33 PM CAD USER: NATE ANDERSON

| CABLE SCHEDULE | | | | | | | | | | | | |
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| CABLE | DRAWING | COUNT/AWG | TYPE | FROM | TO | VIA | | | | | REMARKS | |
| ME-35-P1 | E-01-006 E-01-001 E-01-003 | 3#12, 1#12G | XHHW | MCC-N1 | ME-35 | NORTH WIREWAY | C214 | PB-214 | C214-4 | JB-35 | | 480V POWER |
| ME-35-P2 | E-01-006 E-01-001 E-01-003 | 2#12, 1#12G | XHHW | MCC-N1 | ME-35 | NORTH WIREWAY | C214 | PB-214 | C214-4 | JB-35 | | 120V HEATER |
| ME-35-C1 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-35 | MCC-N1 | | JB-35 | C214-4 | PB-214 | C214 | NORTH WIREWAY | LOCK OUT STOP |
| ME-35-C2 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-35 | MCC-N1 | | JB-35 | C214-4 | PB-214 | C214 | NORTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-36-P1 | E-01-006 E-01-001 E-01-003 | 3#12, 1#12G | XHHW | MCC-N1 | ME-36 | NORTH WIREWAY | C214 | PB-214 | C214-5 | JB-36 | | 480V POWER |
| ME-36-P2 | E-01-006 E-01-001 E-01-003 | 2#12, 1#12G | XHHW | MCC-N1 | ME-36 | NORTH WIREWAY | C214 | PB-214 | C214-5 | JB-36 | | 120V HEATER |
| ME-36-C1 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-36 | MCC-N1 | | JB-36 | C214-5 | PB-214 | C214 | NORTH WIREWAY | LOCK OUT STOP |
| ME-36-C2 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-36 | MCC-N1 | | JB-36 | C214-5 | PB-214 | C214 | NORTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-37-P1 | E-01-006 E-01-001 E-01-003 | 3#12, 1#12G | XHHW | MCC-N1 | ME-37 | NORTH WIREWAY | C215 | PB-214 | C215-3 | JB-37 | | 480V POWER |
| ME-37-P2 | E-01-006 E-01-001 E-01-003 | 2#12, 1#12G | XHHW | MCC-N1 | ME-37 | NORTH WIREWAY | C215 | PB-214 | C215-3 | JB-37 | | 120V HEATER |
| ME-37-C1 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-37 | MCC-N1 | | JB-37 | C215-3 | PB-214 | C215 | NORTH WIREWAY | LOCK OUT STOP |
| ME-37-C2 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-37 | MCC-N1 | | JB-37 | C215-3 | PB-214 | C215 | NORTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-38-P1 | E-01-006 E-01-001 E-01-003 | 3#12, 1#12G | XHHW | MCC-N1 | ME-38 | NORTH WIREWAY | C214 | PB-214 | C214-6 | JB-38 | | 480V POWER |
| ME-38-P2 | E-01-006 E-01-001 E-01-003 | 2#12, 1#12G | XHHW | MCC-N1 | ME-38 | NORTH WIREWAY | C214 | PB-214 | C214-6 | JB-38 | | 120V HEATER |
| ME-38-C1 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-38 | MCC-N1 | | JB-38 | C214-6 | PB-214 | C214 | NORTH WIREWAY | LOCK OUT STOP |
| ME-38-C2 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-38 | MCC-N1 | | JB-38 | C214-6 | PB-214 | C214 | NORTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-39-P1 | E-01-006 E-01-001 E-01-003 | 3#12, 1#12G | XHHW | MCC-N1 | ME-39 | NORTH WIREWAY | C215 | PB-214 | C215-4 | JB-39 | | 480V POWER |
| ME-39-P2 | E-01-006 E-01-001 E-01-003 | 2#12, 1#12G | XHHW | MCC-N1 | ME-39 | NORTH WIREWAY | C215 | PB-214 | C215-4 | JB-39 | | 120V HEATER |
| ME-39-C1 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-39 | MCC-N1 | | JB-39 | C215-4 | PB-214 | C215 | NORTH WIREWAY | LOCK OUT STOP |
| ME-39-C2 | E-01-003 E-01-001 E-01-006 | 2#16, 1#16G | XHHW | ME-39 | MCC-N1 | | JB-39 | C215-4 | PB-214 | C215 | NORTH WIREWAY | SHEAR AND OVERTORQUE |



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JVWTP
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LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: N. ANDERSON

DRAWN: N. ANDERSON

CHECKED: J. HIMEBAUGH

CHECKED: D. STAR

APPROVED: D. STAR

FILENAME

E-01-010.dwg

BC PROJECT NUMBER

157012

CLIENT PROJECT NUMBER

4277

ELECTRICAL

CABLE SCHEDULE 2

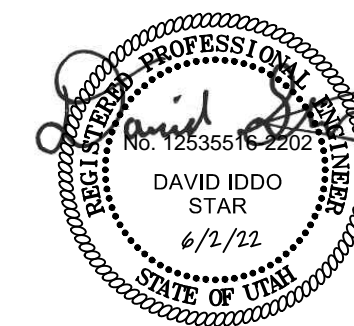
DRAWING NUMBER

E-01-010

38 SHEET NUMBER OF 48

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| CABLE SCHEDULE | | | | | | | | | | | | |
|----------------|----------------------------------|-------------|------|--------|--------|---------------|-------|--------|--------|-------|---------------|----------------------|
| CABLE | DRAWING | COUNT/AWG | TYPE | FROM | TO | VIA | | | | | REMARKS | |
| ME-40-P1 | E-01-007 E-01-002 E-01-004 | 3#12, 1#12G | XHHW | MCC-S1 | ME-40 | SOUTH WIREWAY | C204 | PB-204 | C204-1 | JB-40 | | 480V POWER |
| ME-40-P2 | E-01-007 E-01-002 E-01-004 | 2#12, 1#12G | XHHW | MCC-S1 | ME-40 | SOUTH WIREWAY | C204 | PB-204 | C204-1 | JB-40 | | 120V HEATER |
| ME-40-C1 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-40 | MCC-S1 | | JB-40 | C204-1 | PB-204 | C204 | SOUTH WIREWAY | LOCK OUT STOP |
| ME-40-C2 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-40 | MCC-S1 | | JB-40 | C204-1 | PB-204 | C204 | SOUTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-41-P1 | E-01-007 E-01-002 E-01-004 | 3#12, 1#12G | XHHW | MCC-S1 | ME-41 | SOUTH WIREWAY | C205 | PB-204 | C205-1 | JB-41 | | 480V POWER |
| ME-41-P2 | E-01-007 E-01-002 E-01-004 | 2#12, 1#12G | XHHW | MCC-S1 | ME-41 | SOUTH WIREWAY | C205 | PB-204 | C205-1 | JB-41 | | 120V HEATER |
| ME-41-C1 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-41 | MCC-S1 | | JB-41 | C205-1 | PB-204 | C205 | SOUTH WIREWAY | LOCK OUT STOP |
| ME-41-C2 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-41 | MCC-S1 | | JB-45 | C205-1 | PB-204 | C205 | SOUTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-42-P1 | E-01-007 E-01-002 E-01-004 | 3#12, 1#12G | XHHW | MCC-S1 | ME-42 | SOUTH WIREWAY | C204 | PB-204 | C204-2 | JB-42 | | 480V POWER |
| ME-42-P2 | E-01-007 E-01-002 E-01-004 | 2#12, 1#12G | XHHW | MCC-S1 | ME-42 | SOUTH WIREWAY | C204 | PB-204 | C204-2 | JB-42 | | 120V HEATER |
| ME-42-C1 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-42 | MCC-S1 | | JB-42 | C204-2 | PB-204 | C204 | SOUTH WIREWAY | LOCK OUT STOP |
| ME-42-C2 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-42 | MCC-S1 | | JB-42 | C204-2 | PB-204 | C204 | SOUTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-43-P1 | E-01-007 E-01-002 E-01-004 | 3#12, 1#12G | XHHW | MCC-S1 | ME-43 | SOUTH WIREWAY | C205 | PB-204 | C205-2 | JB-43 | | 480V POWER |
| ME-43-P2 | E-01-007 E-01-002 E-01-004 | 2#12, 1#12G | XHHW | MCC-S1 | ME-43 | SOUTH WIREWAY | C205 | PB-204 | C205-2 | JB-43 | | 120V HEATER |
| ME-43-C1 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-43 | MCC-S1 | | JB-43 | C205-2 | PB-204 | C205 | SOUTH WIREWAY | LOCK OUT STOP |
| ME-43-C2 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-43 | MCC-S1 | | JB-43 | C205-2 | PB-204 | C205 | SOUTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-44-P1 | E-01-007 E-01-002 E-01-004 | 3#12, 1#12G | XHHW | MCC-S1 | ME-44 | SOUTH WIREWAY | C204 | PB-204 | C204-3 | JB-44 | | 480V POWER |
| ME-44-P2 | E-01-007 E-01-002 E-01-004 | 2#12, 1#12G | XHHW | MCC-S1 | ME-44 | SOUTH WIREWAY | C204 | PB-204 | C204-3 | JB-44 | | 120V HEATER |
| ME-44-C1 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-44 | MCC-S1 | | JB-44 | C204-3 | PB-204 | C204 | SOUTH WIREWAY | LOCK OUT STOP |
| ME-44-C2 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-44 | MCC-S1 | | JB-44 | C204-3 | PB-204 | C204 | SOUTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-45-P1 | E-01-007 E-01-002 E-01-004 | 3#12, 1#12G | XHHW | MCC-S1 | ME-45 | SOUTH WIREWAY | C204 | PB-204 | C204-4 | JB-45 | | 480V POWER |
| ME-45-P2 | E-01-007 E-01-002 E-01-004 | 2#12, 1#12G | XHHW | MCC-S1 | ME-45 | SOUTH WIREWAY | C204 | PB-204 | C204-4 | JB-45 | | 120V HEATER |
| ME-45-C1 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-45 | MCC-S1 | | JB-45 | C204-4 | PB-204 | C204 | SOUTH WIREWAY | LOCK OUT STOP |
| ME-45-C2 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-45 | MCC-S1 | | JB-45 | C204-4 | PB-204 | C204 | SOUTH WIREWAY | SHEAR AND OVERTORQUE |



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JVWTP
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LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: N. ANDERSON
DRAWN: N. ANDERSON
CHECKED: J. HIMEBAUGH
CHECKED: D. STAR
APPROVED: D. STAR

FILENAME
E-01-011.dwg
BC PROJECT NUMBER
157012
CLIENT PROJECT NUMBER
4277

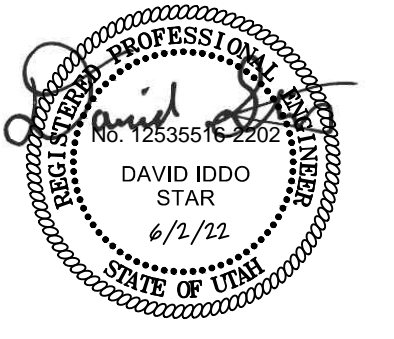
ELECTRICAL

CABLE SCHEDULE 3

DRAWING NUMBER
E-01-011
SHEET NUMBER
39 OF 48

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| CABLE SCHEDULE | | | | | | | | | | | | |
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| ME-46-P1 | E-01-007 E-01-002 E-01-004 | 3#12, 1#12G | XHHW | MCC-S1 | ME-46 | SOUTH WIREWAY | C205 | PB-204 | C205-3 | JB-46 | | 480V POWER |
| ME-46-P1 | E-01-007 E-01-002 E-01-004 | 2#12, 1#12G | XHHW | MCC-S1 | ME-46 | SOUTH WIREWAY | C205 | PB-204 | C205-3 | JB-46 | | 120V HEATER |
| ME-46-C1 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-46 | MCC-S1 | | JB-46 | C205-3 | PB-204 | C205 | SOUTH WIREWAY | LOCK OUT STOP |
| ME-46-C2 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-46 | MCC-S1 | | JB-46 | C205-3 | PB-204 | C205 | SOUTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-47-P1 | E-01-007 E-01-002 E-01-004 | 3#12, 1#12G | XHHW | MCC-S1 | ME-47 | SOUTH WIREWAY | C204 | PB-204 | C204-5 | JB-47 | | 480V POWER |
| ME-47-P2 | E-01-007 E-01-002 E-01-004 | 2#12, 1#12G | XHHW | MCC-S1 | ME-47 | SOUTH WIREWAY | C204 | PB-204 | C204-5 | JB-47 | | 120V HEATER |
| ME-47-C1 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-47 | MCC-S1 | | JB-47 | C204-5 | PB-204 | C204 | SOUTH WIREWAY | LOCK OUT STOP |
| ME-47-C2 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-47 | MCC-S1 | | JB-47 | C204-5 | PB-204 | C204 | SOUTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-48-P1 | E-01-007 E-01-002 E-01-004 | 3#12, 1#12G | XHHW | MCC-S1 | ME-48 | SOUTH WIREWAY | C205 | PB-204 | C205-4 | JB-48 | | 480V POWER |
| ME-48-P2 | E-01-007 E-01-002 E-01-004 | 2#12, 1#12G | XHHW | MCC-S1 | ME-48 | SOUTH WIREWAY | C205 | PB-204 | C205-4 | JB-48 | | 120V HEATER |
| ME-48-C1 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-48 | MCC-S1 | | JB-48 | C205-4 | PB-204 | C205 | SOUTH WIREWAY | LOCK OUT STOP |
| ME-48-C2 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-48 | MCC-S1 | | JB-48 | C205-4 | PB-204 | C205 | SOUTH WIREWAY | SHEAR AND OVERTORQUE |
| ME-49-P1 | E-01-007 E-01-002 E-01-004 | 3#12, 1#12G | XHHW | MCC-S1 | ME-49 | SOUTH WIREWAY | C204 | PB-204 | C204-6 | JB-49 | | 480V POWER |
| ME-49-P2 | E-01-007 E-01-002 E-01-004 | 2#12, 1#12G | XHHW | MCC-S1 | ME-49 | SOUTH WIREWAY | C204 | PB-204 | C204-6 | JB-49 | | 120V HEATER |
| ME-49-C1 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-49 | MCC-S1 | | JB-49 | C204-6 | PB-204 | C204 | SOUTH WIREWAY | LOCK OUT STOP |
| ME-49-C2 | E-01-004 E-01-002 E-01-007 | 2#16, 1#16G | XHHW | ME-49 | MCC-S1 | | JB-49 | C204-6 | PB-204 | C204 | SOUTH WIREWAY | SHEAR AND OVERTORQUE |



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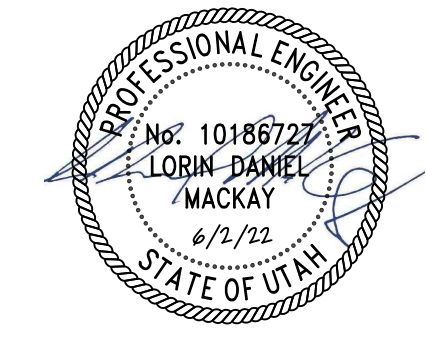
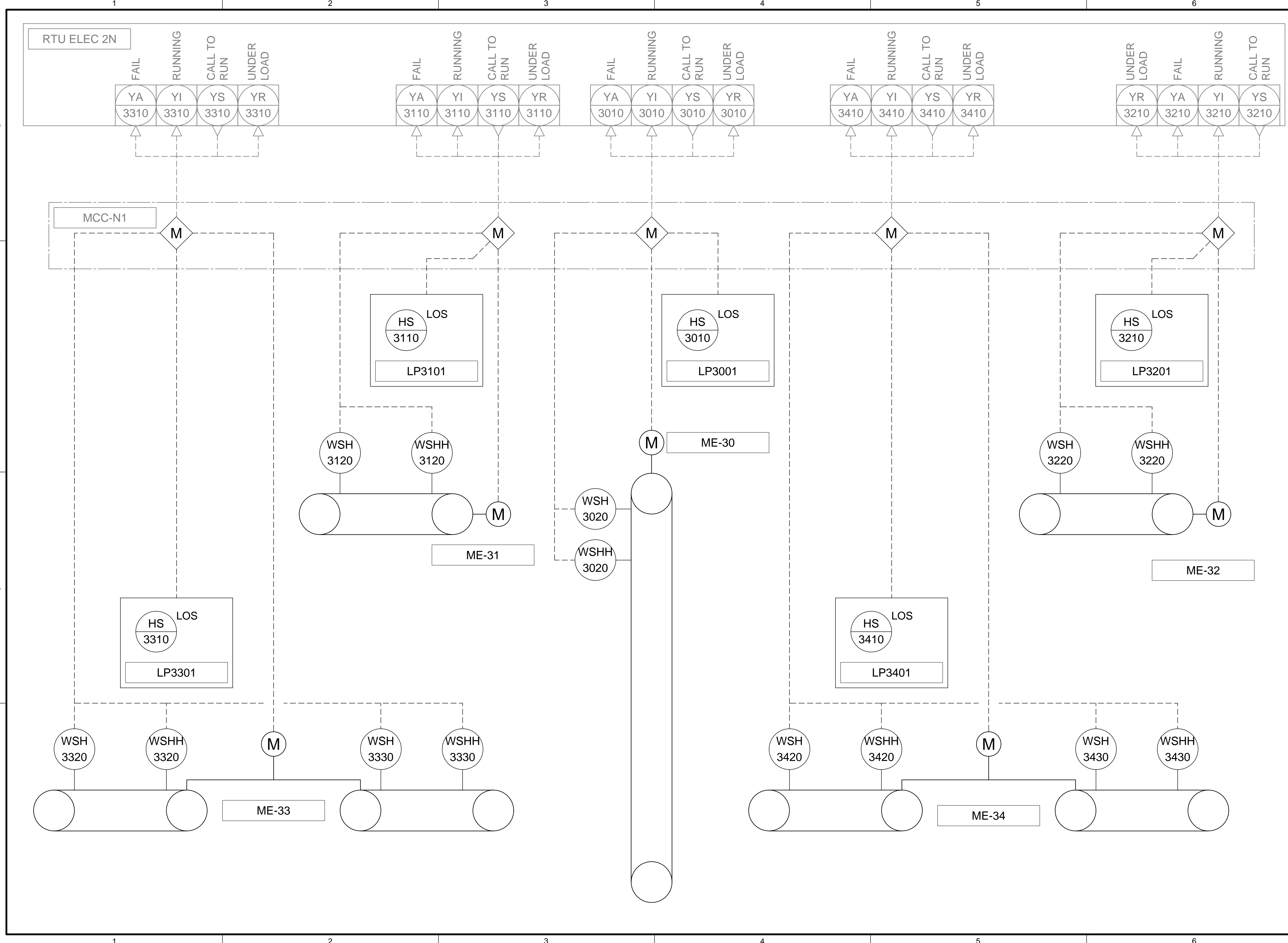
DESIGNED: N. ANDERSON
 DRAWN: N. ANDERSON
 CHECKED: J. HIMEBAUGH
 CHECKED: D. STAR
 APPROVED: D. STAR

FILENAME
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 BC PROJECT NUMBER
157012
 CLIENT PROJECT NUMBER
4277
ELECTRICAL

CABLE SCHEDULE 4

DRAWING NUMBER
E-01-012
 SHEET NUMBER OF
40 OF **48**

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DESIGNED: D. MACKAY
DRAWN: A. LAPIERRE
CHECKED: J. HIMEBAUGH
APPROVED: D. MACKAY

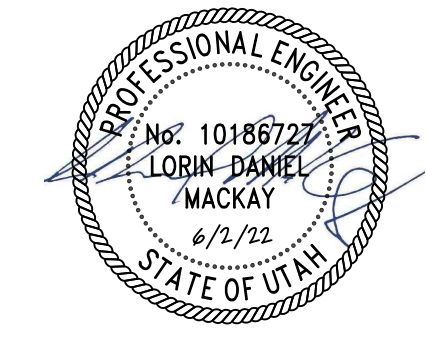
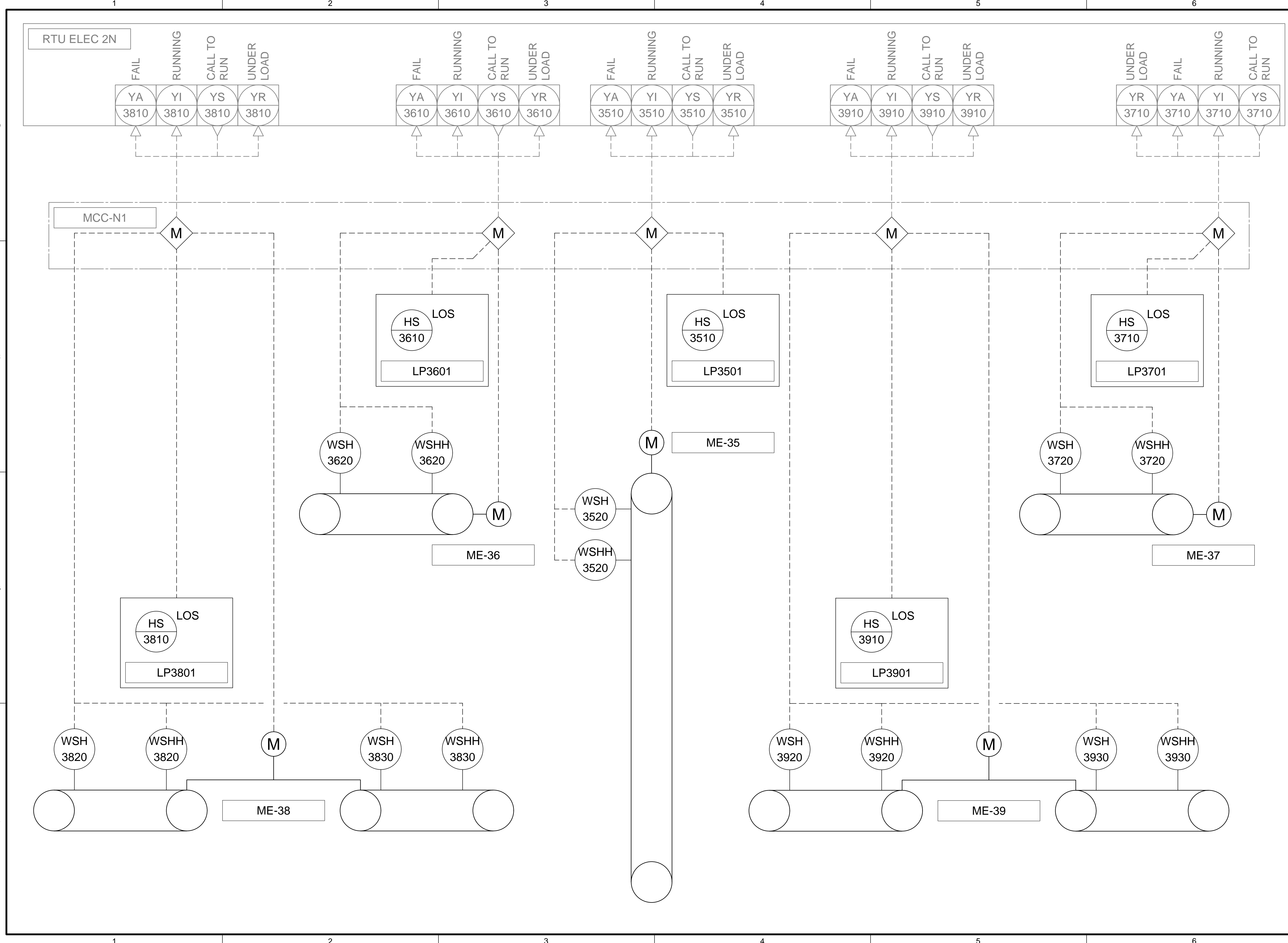
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BC PROJECT NUMBER: 157012
CLIENT PROJECT NUMBER: 4277

INSTRUMENTATION

SEDIMENTATION
BASINS 3

DRAWING NUMBER: I-01-001
SHEET NUMBER OF: 45 OF 48

Path: C:\BCP\W\166261 FILENAME: I-01-002.DWG PLOT DATE: 5/25/2022 8:58 AM CAD USER: RUSSELL PERSHING



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DESIGNED: D. MACKAY
 DRAWN: A. LAPIERRE
 CHECKED: J. HIMEBAUGH
 APPROVED: D. MACKAY

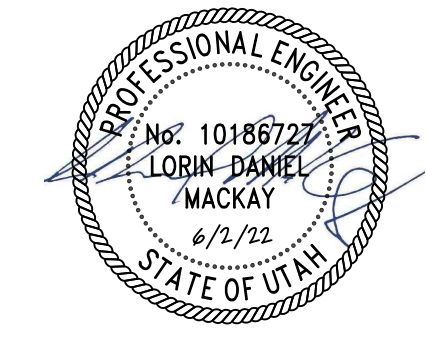
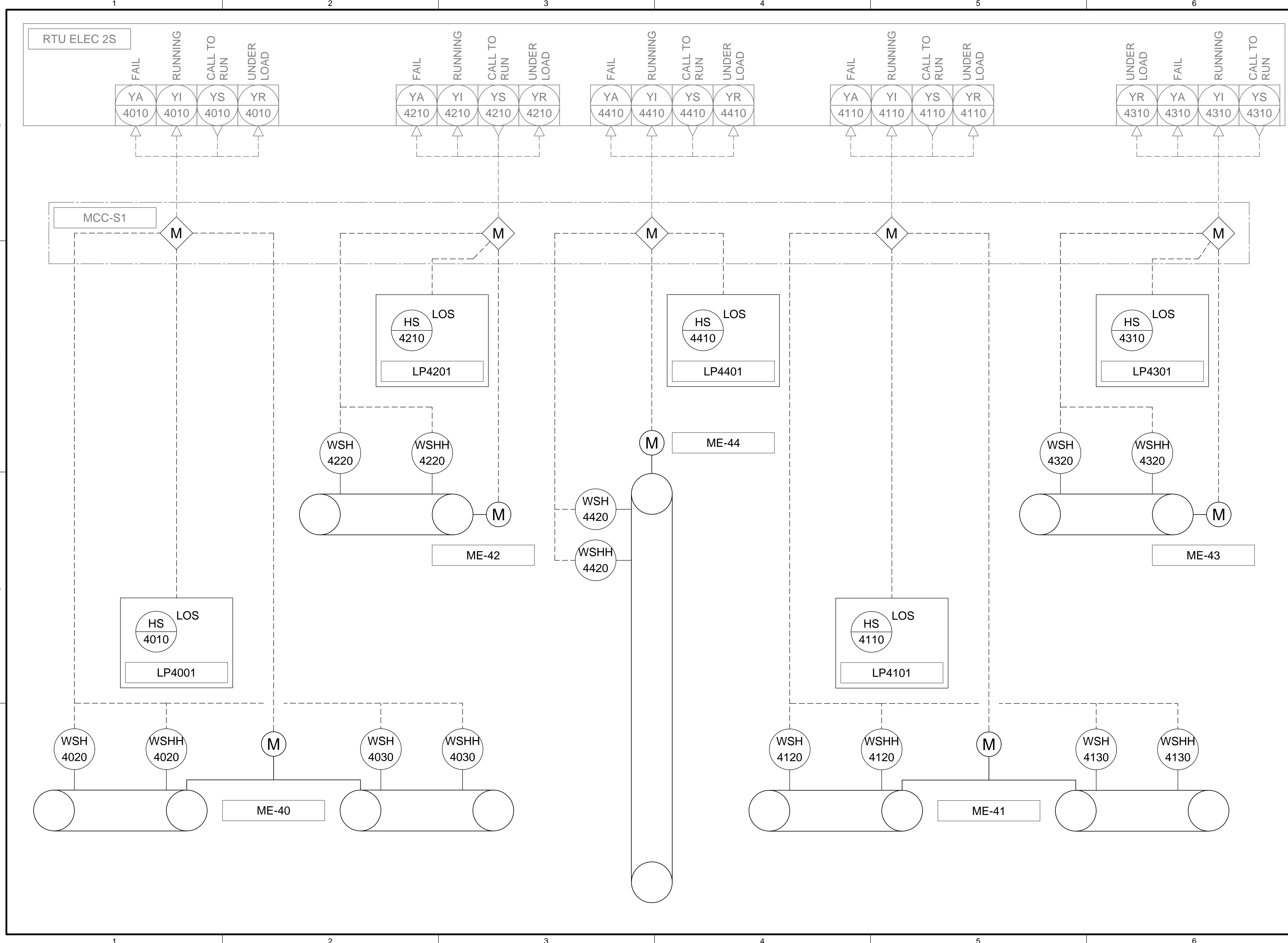
FILENAME: I-01-002.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277

INSTRUMENTATION

 SEDIMENTATION
 BASIN 4

DRAWING NUMBER: I-01-002
 SHEET NUMBER OF: 46 OF 48

Path: C:\BCP\W\1\66261 FILENAME: I-01-003.DWG PLOT DATE: 5/25/2022 8:59 AM CAD USER: RUSSELL PERSHING



BID SET



**JWTP
SOLIDS COLLECTION
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UPGRADE PROJECT**

| REVISIONS | | |
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| REV | DATE | DESCRIPTION |
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DESIGNED: D. MACKAY
 DRAWN: A. LAPIERRE
 CHECKED: J. HIMEBAUGH
 APPROVED: D. MACKAY

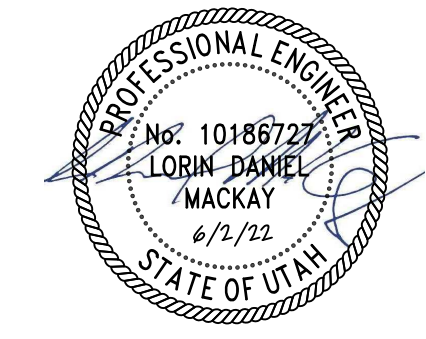
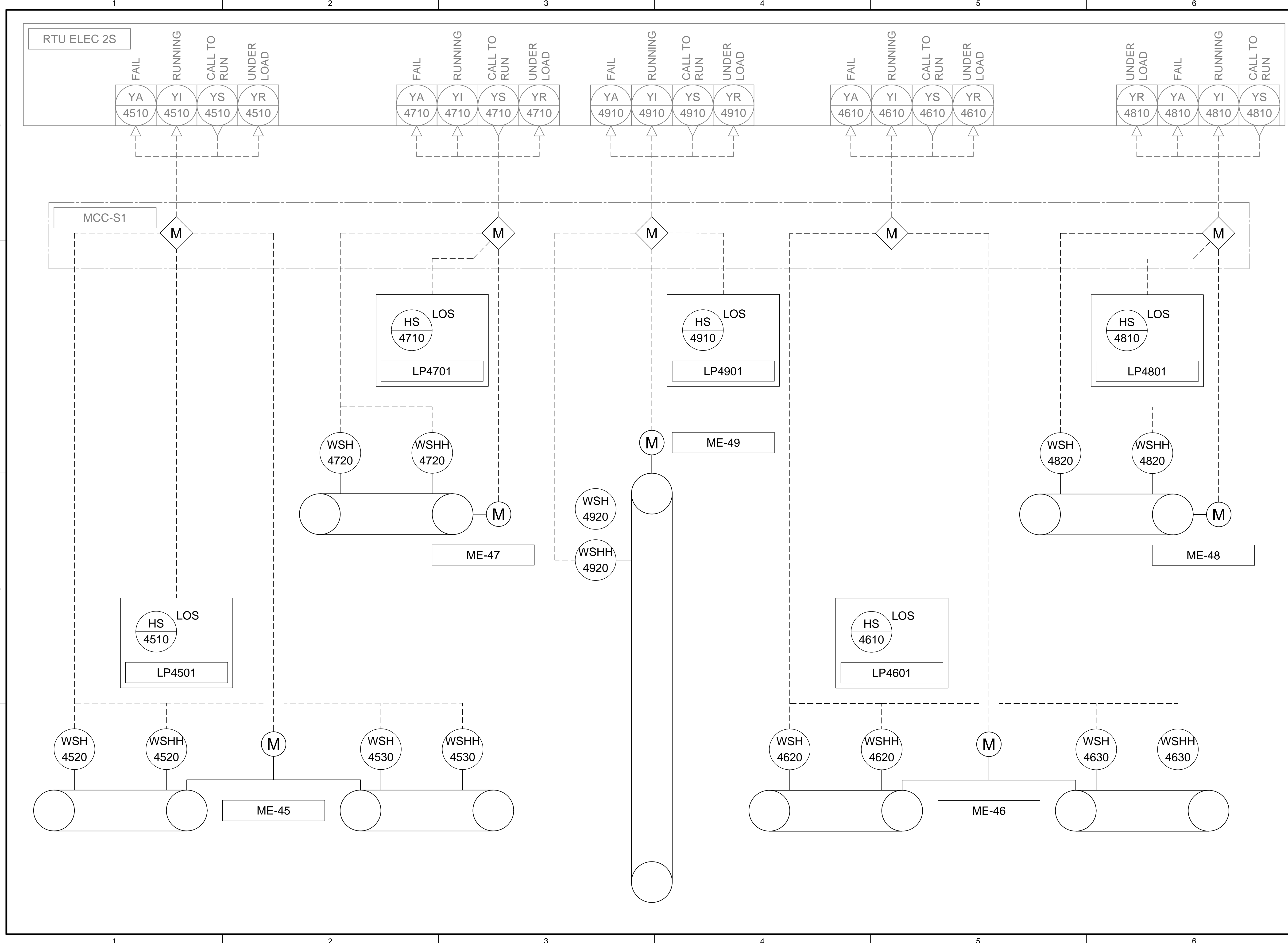
FILENAME: I-01-003.dwg
 BC PROJECT NUMBER: 157012
 CLIENT PROJECT NUMBER: 4277

INSTRUMENTATION

**SEDIMENTATION
BASINS 5**

DRAWING NUMBER: **I-01-003**
 SHEET NUMBER OF: **47** OF **48**

Path: C:\BCP\W\186261 FILENAME: I-01-004.DWG PLOT DATE: 5/25/2022 9:01 AM CAD USER: RUSSELL PERSHING



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SOLIDS COLLECTION
EQUIPMENT
UPGRADE PROJECT

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DESIGNED: D. MACKAY
DRAWN: A. LAPIERRE
CHECKED: J. HIMEBAUGH
CHECKED:
APPROVED: D. MACKAY

FILENAME: I-01-004.dwg
BC PROJECT NUMBER: 157012
CLIENT PROJECT NUMBER: 4277

INSTRUMENTATION

SEDIMENTATION
BASIN 6

DRAWING NUMBER: I-01-004
SHEET NUMBER OF: 48 OF 48