CITY OF PETALUMA

POST OFFICE BOX 61
PETALUMA, CA 94953-0061

ADDENDUM NO. 4

Ellis Creek Water Recycling Facility Tertiary Filtration Expansion
UV Disinfection Equipment Modifications Project
City Project Number C66401416

November 17, 2022

This Addendum No. 4 modifies the Bidding Documents for the Ellis Creek Water Recycling Facility Tertiary Filtration Expansion **– UV Disinfection Modifications Project,** C66401416. This Addendum shall become part of the Contract and all provisions of the Contract shall apply thereto. Bidders shall acknowledge all Addendums in the Bid Schedule.

CORRECTION OF PROJECT SPECIFICATIONS AND DRAWINGS

Please see updates to the project specifications and drawings below:

1. Section 11289: Reduce final price in Suez proposal by $3,500 (credit for deletion of level control weirs).
2. Section 13447: Replace 2.01 A with the following:
    A. Manufacturer for slide gate actuator: Rotork IG 12 to match existing, see Attachment 1.
3. Section 13447: Add Attachment 1 at the end of the section.
4. Section 16990C:
    a. Part 3.01.A: Replace Conduit Schedule Area 8 - UV Disinfection in the contract drawings with the attached.
5. Drawing TC01B: Incorporate the attached typical detail CR306.
6. Drawing D01B: Replace with the attached drawing.
7. Drawing C02B: Replace with the attached drawing.
8. Drawing E05B: Replace with the attached drawing.
9. Drawing 08E01B: Replace with the attached drawing.

QUESTIONS AND ANSWERS

Q: Drawing 00N01B indicates a 12-strand Fiber Optic Cable from the existing PLC7 to the new UV Master Control Panel. Is this FO cable existing? I do not see it referenced within the conduit schedules. Is there an existing conduit available?
A: Updated conduit schedule is included in this addendum.

Q: What is the plan for sidewalk demolition and restoration for the UV facility improvements? It looks like (E) sidewalk will need to be removed and relocated for construction of the NW canopy grade beam work.
A: Changes to the sidewalk demolition and restoration contract are included in this addendum.

Public Works & Utilities

City Engineer
11 English Street
Petaluma, CA 94952
Phone (707) 778-4303

Environmental Services
Ellis Creek Water Recycling Facility
3890 Cypress Drive
Petaluma, CA 94954
Phone: (707) 776-3777
Fax: (707) 656-4067

Parks & Facility Maintenance
840 Hopper St. Ext.
Petaluma, CA 94952
Phone (707) 778-4303
Fax (707) 206-6065

Transit Division
555 N. McDowell Blvd.
Petaluma, CA 94954
Phone (707) 778-4421

Utilities & Field Operations
202 N. McDowell Blvd.
Petaluma, CA 94954
Phone (707) 778-4546
Fax (707) 206-6034

E-Mail: publicworks@cityofpetaluma.org

Q: In reviewing the responses provided on Addendum #3 to a question associated with section 13122.2.02.B.6, the response states to have "secondary frames shall be hot-dipped galvanized". This section covers "cold-formed sections" which cannot be Hot Dipped Galvanized as it would cause the cold formed member to be deformed during that process. Please confirm that the "cold formed" members can be provided as "pre-galvanized" in lieu of hot-dipped.
A: Our understanding is that cold formed steel can be hot-dipped galvanized without damaging the steel. Hot-dipped galvanize as specified. Any alternate galvanizing method will be considered for approval during the submittal review process.

Q: A multi-day shutdown of the system is required to prepare and install the concrete fill and new pipe in the influent channel. We do not see where this is addressed in the specifications. Please clarify.
A: Per Section 01140, a 24-hour shutdown may be allowed with approval by the Owner. Bidders should assume this is maximum allowable.

Q: What is the status of the UV submittals and estimated delivery time? This information does not seem to be included in the contract documents.
A: This information is provided in the UV equipment proposal included in Section 11289. The equipment vendor is currently working on the submittal.

Q: Is temporary piping required for testing all the channels or just Channel 3?
A: Temporary piping is required for testing all the channels.

Q: Channel 3 currently appears to be dry. Does it have a bulkhead currently installed?
A: Channel 3 does not currently have a bulkhead installed. The effluent weir fabrication is installed.

Q: Is the completion date fixed at December 1, 2023. Our preliminary schedule shows only one channel will be completed by then based on estimated lead times for equipment and instrumentation.
A: Bidders shall assume that the completion date is fixed at December 1, 2023.

Q: Will the bioassay testing of Channel 3 need to be completed and approved before work can be started on Channels 1 and 2?
A: Per Section 01140, bioassay testing shall be conducted in two steps: Channel No. 3 then Channel Nos. 1 and 2. At all times, the Contractor shall maintain full operation of at least 1 UV channel during the RW off-season.

Q: Is bioassay testing required for Channels 1 and 2?
A: Per Section 01140, bioassay testing is required for Channels 1 and 2.

Summary of Changes: Some project specifications and drawings have been updated per above. Some project questions have been answered above. All other items of the bid documents shall remain unchanged.

City of Petaluma,

Josh Minshall, P.E.
Senior Civil Engineer
Public Works & Utilities Department

A signed copy of this Addendum and the attached acknowledgement form shall be attached to the bid proposal. Failure to do so may cause rejection of your bid as being non-responsive.

ADDENDUM NO. 4

Ellis Creek Water Recycling Facility Tertiary Filtration Expansion
UV Disinfection Equipment Modifications Project
City Project Number C66401416

November 17, 2022

ACKNOWLEDGEMENT

Receipt of Addendum No. 4 is hereby acknowledged by _____
(Contractor's Name)

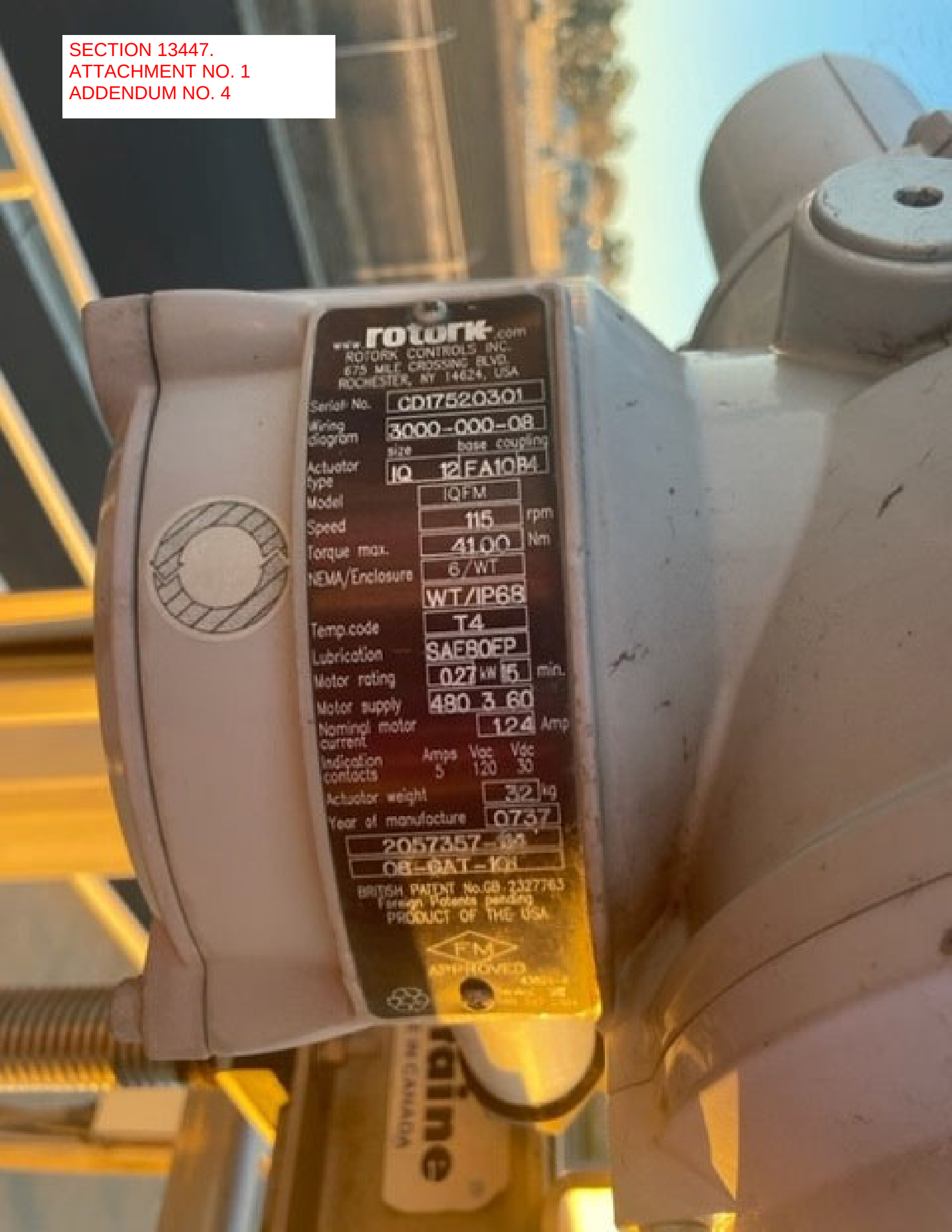
on the _____ day of _____, 2022.

By: _____
Signature

_____
Title

_____
Company

SECTION 13447.
ATTACHMENT NO. 1
ADDENDUM NO. 4



SECTION 16990C

CONDUIT SCHEDULE
AREA 8 - UV DISINFECTION

PART 1 GENERAL

1.01 SUMMARY

A. Conduit requirements:
   1. As defined in Section 16050 and Section 16130.

B. Cable requirements and definitions:
   1. As defined in Section 16050 and Section 16123.
   2. 2/CS#16: 2 conductor, 16 gauge, twisted shielded pair.
   3. MFR: Manufacturer or vendor furnished cable.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.01 CONDUIT SCHEDULE

A. Conduit Schedule is presented on the following pages.

REV	DATE	BY	DESCRIPTION
1	11/2/2022	KWG	ADDENDUM 4

CONDUIT SCHEDULE AREA 08

TERTIARY PROCESS UPGRADES

UV DISINFECTION

ENGINEER	**JN**
REVISION	**0**
DATE	9/27/22

CONDUIT			CONDUCTORS			GROUND				
NUMBER	**DWG**	**SIZE**	**#**	**SIZE**	**TYPE**	**#**	**SIZE**	**TYPE**	**DESCRIPTION**	**CONNECTING SEGMENTS**
C801	08E01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: LSL-111 TO: WIREWAY (CHANNEL 1) 4 #14 >> LSL-111 CONTROL	
C802	08E01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: LSL-211 TO: WIREWAY (CHANNEL 2) 4 #14 >> LSL-211 CONTROL	
C803	08E01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: LSL-311 TO: WIREWAY (CHANNEL 3) 4 #14 >> LSL-311 CONTROL	
P8711	08E01 08E02	2.5"	3	350	XHHW-2	1	#4	XHHW-2	FR: LVPB-12 TO: 09-MCC-A 3 350 >> PDC-XFMR POWER	
P8712	08E01 08E02	0.75"	3	#10	XHHW-2	1	#10	XHHW-2	FR: LVPB-12 TO: 09-MCC-A 3 #10 >> 08-EDR-301 POWER	
P7547A	08E01 08E02	2.5"	3	350	XHHW-2	1	#4	XHHW-2	FR: LVPB-12 TO: 08-PDC-XFMR-2 3 350 >> PDC-XFMR POWER	
P7548B	08E01 08E02	2.5"	4	#4/0	XHHW-2	1	#2	XHHW-2	FR: 08-PDC-XFMR-2 TO: UV-PDC-800 4 #4/0 >> PDC-XFMR POWER	
P7548C	08E01 08E02	2.5"	4	#4/0	XHHW-2	1	#2	XHHW-2	FR: 08-PDC-XFMR-2 TO: UV-PDC-800 4 #4/0 >> PDC-XFMR POWER	
P831	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-301 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP POWER CABLES	
P832	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-302 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP POWER CABLES	
P833	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-303 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP POWER CABLES	
P834	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-304 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP POWER CABLES	
P835	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-305 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP POWER CABLES	
P836	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-306 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP POWER CABLES	
P837	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-307 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP POWER CABLES	
P838	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-308 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP POWER CABLES	
P839	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-309 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP POWER CABLES	
P840	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-310 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP POWER CABLES	
S801	08E01	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: TIT-811 TO: UV-MCP-800 1 2/CS-#16 >> TIT-811 SIGNAL	
S831	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-301 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP CONTROL CABLES	
S832	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-302 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP CONTROL CABLES	

REV	DATE	BY	DESCRIPTION
1	11/2/2022	KWG	ADDENDUM 4

CONDUIT SCHEDULE AREA 08

TERTIARY PROCESS UPGRADES

UV DISINFECTION

ENGINEER	JN
REVISION	0
DATE	9/27/22

CONDUIT			CONDUCTORS			GROUND				
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS
S833	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-303 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP CONTROL CABLES	
S834	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-304 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP CONTROL CABLES	
S835	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-305 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP CONTROL CABLES	
S836	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-306 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP CONTROL CABLES	
S837	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-307 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP CONTROL CABLES	
S838	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-308 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP CONTROL CABLES	
S839	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-309 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP CONTROL CABLES	
S840	08E01 08E02	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: 08-UVR-310 TO: WIREWAY (CHANNEL 3) 1 MFR >> LAMP CONTROL CABLES	
P800I	08E01 08E02	0.75"	2	MFR	CABLE	1	#14	XHHW-2	FR: WIREWAY (CHANNEL 3) TO: UV-PDC-800 2 MFR >> LAMP POWER CABLES	
P800J	08E01 08E02	0.75"	2	MFR	CABLE	1	#14	XHHW-2	FR: WIREWAY (CHANNEL 3) TO: UV-PDC-800 2 MFR >> LAMP POWER CABLES	
P800K	08E01 08E02	0.75"	3	MFR	CABLE	1	#14	XHHW-2	FR: WIREWAY (CHANNEL 3) TO: UV-PDC-800 3 MFR >> LAMP POWER CABLES	
P800L	08E01 08E02	0.75"	2	MFR	CABLE	1	#14	XHHW-2	FR: WIREWAY (CHANNEL 3) TO: UV-PDC-800 2 MFR >> LAMP POWER CABLES	
S841	08E01 08E02	1.5"	10	MFR	CABLE	1	#14	XHHW-2	FR: WIREWAY (CHANNEL 3) TO: UV-MCP-800 10 MFR >> LAMP CONTROL CABLES	
P800P	08E01 08E02	0.75"	3	#10	XHHW-2	1	#10	XHHW-2	FR: DISCONNECT TO: 08-EDR-301 3 #10 >> 08-EDR-301 POWER	
C800P	08E01 08E02	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: 08-EDR-301 TO: UV-MCP-800 10 #14 >> 08-EDR-301 CONTROL	
S804	08E01 08E02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: 08-LIT-804 TO: UV-MCP-800 1 2/CS-#16 >> 08-LIT-804 SIGNAL	
P804	08E01 08E02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: 08-LIT-804 TO: LVPB-12 2 #12 >> 08-LIT-804 POWER	
P7549	08E01 08E02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: UV-MCP-800 TO: LVPB-12 2 #12 >> 08-LIT-804 POWER	
P800	08E01	0.75"	2	#10	XHHW-2	1	#10	XHHW-2	FR: UV-MCP-800 TO: UV-PDC-800 2 #10 >> UV-MCP-800 POWER	
S8000	08E01 08E02	1.5"	5	2/CS-#16		1	#14	XHHW-2	FR: UV-DCC-01 TO: UV-MCP-800 1 2/CS-#16 >> 08-AIT-805 UVT 1 2/CS-#16 >> 08-AIT-801 TURB 1 2/CS-#16 >> FLOW 1 2/CS-#16 >> 08-LIT-803 CHANNEL 2 LEVEL 1 2/CS-#16 >> 08-LIT-802 CHANNEL 1 LEVEL	
N800A	08E01B	1.5"	1		12/FO	1	#14	XHHW-2	FR: UV-MCP-800 TO: IPB-31 1 12/FO >> UV-MCP-800 NETWORK	
N8667	08E01B	2"	1		12/FO	1	#14	XHHW-2	FR: IPB-31 TO: PLC-7 1 12/FO >> UV-MCP-800 NETWORK	

REV	DATE	BY	DESCRIPTION
1	11/2/2022	KWG	ADDENDUM 4

CONDUIT SCHEDULE AREA 08

TERTIARY PROCESS UPGRADES

UV DISINFECTION

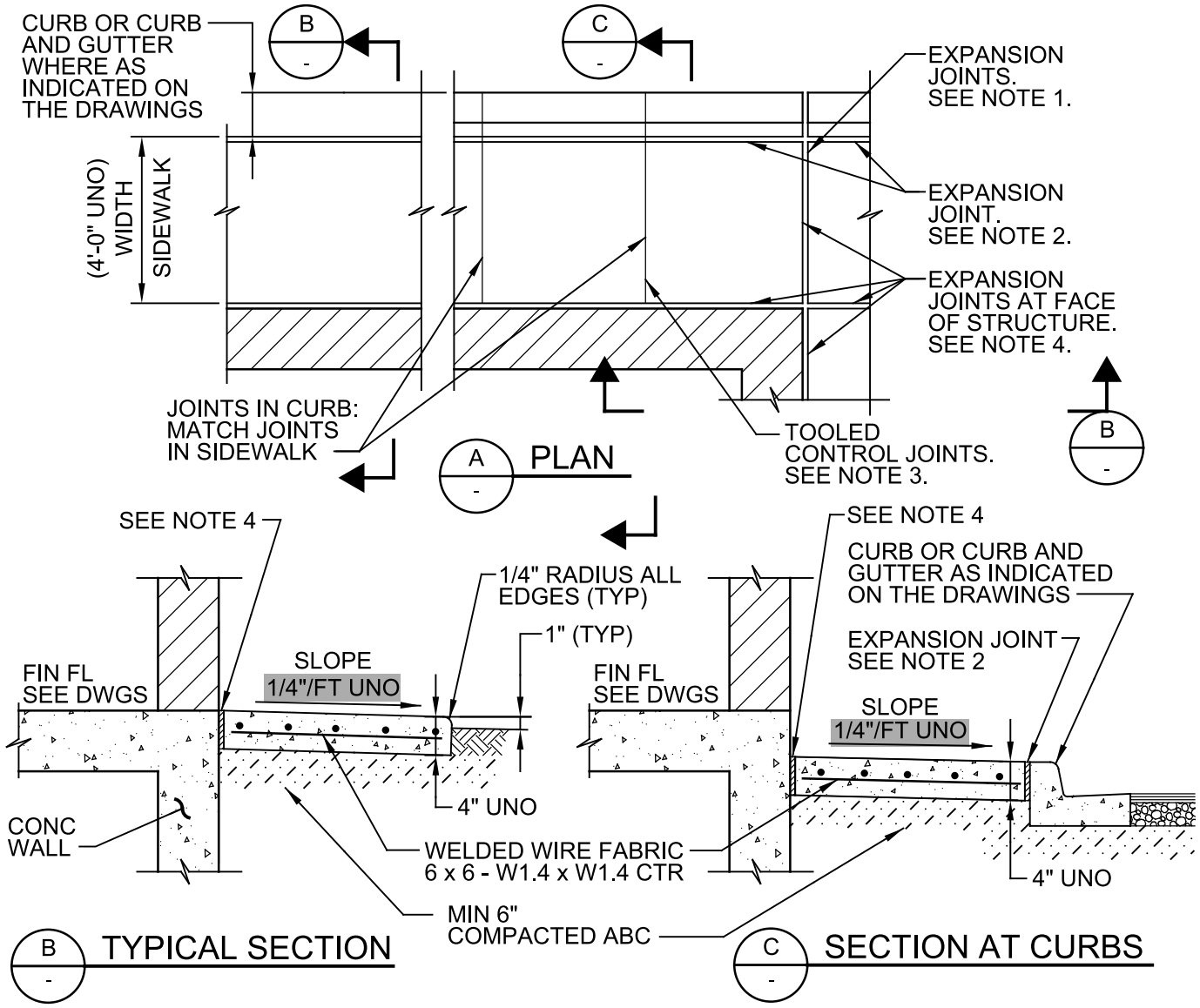
ENGINEER	**JN**
REVISION	**0**
DATE	9/27/22

CONDUIT			CONDUCTORS			GROUND				
NUMBER	**DWG**	**SIZE**	**#**	**SIZE**	**TYPE**	**#**	**SIZE**	**TYPE**	**DESCRIPTION**	**CONNECTING SEGMENTS**
C8000	08E01 08E02	1.5"	38	#14	XHHW-2	1	#14	XHHW-2	FR: UV-DCC-01 TO: UV-MCP-800 10 #14 >> 08-EDR-201 CONTROL 10 #14 >> 08-EDR-101 CONTROL 4 #14 >> BLOWER STATUS 6 #14 >> BLOWER CONTROL 4 #14 >> LSL-111 CONTROL 4 #14 >> LSL-211 CONTROL	
P8000	08E01 08E02	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: UV-DCC-01 TO: UV-PDC-800 2 #12 >> 08-LIT-803 POWER 2 #12 >> 08-LIT-802 POWER	
S8001	08E01 08E02	1.5"	10	MFR	CABLE	1	#14	XHHW-2	FR: UV-DCC-01 TO: UV-PDC-800 10 MFR >> CHANNEL 1 CONTROL	
S8002	08E01 08E02	1.5"	10	MFR	CABLE	1	#14	XHHW-2	FR: UV-DCC-01 TO: UV-PDC-800 10 MFR >> CHANNEL 2 CONTROL	

END OF CONDUIT SCHEDULE

END OF SECTION

REV	DATE	BY	DESCRIPTION
1	11/2/2022	KWG	ADDENDUM 4



NOTES:

1. PROVIDE EXPANSION JOINTS AT ENDS OF CONCRETE PLACEMENT, AT POINTS OF CURVATURE, AT BOTH SIDES OF DRIVEWAYS, AT INTERSECTIONS, AT CORNERS OF STRUCTURES, AND AT MAXIMUM SPACING OF 30 FEET. EXPANSION JOINTS SHALL BE 3/4" WIDE BITUMINOUS FIBER WITH 1/4" RADIUS CONCRETE EDGES AT EACH SIDE.
2. PROVIDE EXPANSION JOINT AT CURB. JOINT SHALL BE 3/8" WIDE BITUMINOUS FIBER WITH 1/4" RADIUS CONCRETE EDGE AT SIDEWALK.
3. PROVIDE WEAKENED PLANE JOINTS AT UNIFORM SPACING EQUAL TO 1.0 TO 1.25 TIMES SIDEWALK WIDTH, BUT NOT GREATER THAN 10 FEET OC MAXIMUM. PROVIDE 1/4" RADIUS CONCRETE EDGE EACH SIDE AT JOINTS.
4. PROVIDE EXPANSION JOINT AT FACE OF STRUCTURE. CONTINUE JOINTS THROUGH ADJACENT SIDEWALKS. JOINTS SHALL BE 3/8" WIDE BITUMINOUS FIBER.
5. TOP OF CONCRETE ELEVATIONS: AS INDICATED ON THE DRAWINGS.

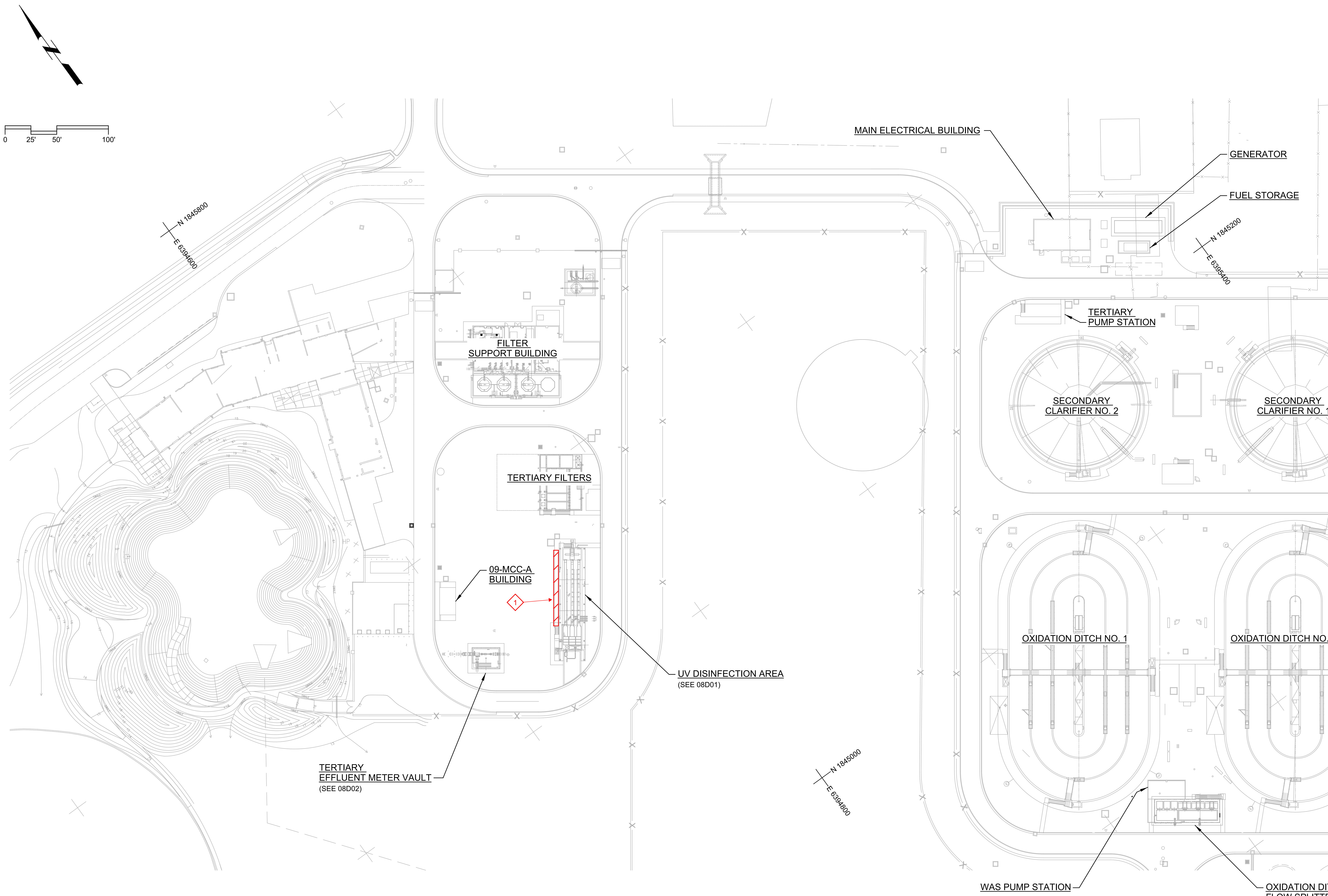
CR306 SIDEWALK - AT STRUCTURES

TYP N

09/09/22

carollo

Plot Date: 28-SEP-2022 12:49:00 PM User: svcPW PlotScale: 1:1 DesignScript: Carollo_Std_Pen_v0905.pen ColorTable: gshade.ctb Model: Layout1 LAST SAVED BY: rwelch



GENERAL DEMOLITION NOTES:

1. NOT ALL DEMOLITION WORK REQUIRED ON THIS PROJECT IS SHOWN ON THE DEMOLITION DRAWINGS. SEE OTHER CONTRACT DWGS FOR ADDITIONAL DEMOLITION WORK REQUIRED. SEE YARD PIPING DRAWINGS FOR BELOW GRADE PIPING DEMOLITION.
2. COORDINATE DEMOLITION WORK WITH SPECIFICATION SECTIONS 01140.
3. THE DEMOLITION DRAWINGS HEREIN ARE PROVIDED TO THE CONTRACTOR FOR REFERENCE IN DETERMINING THE SCOPE OF DEMOLITION REQUIRED. THE CONTRACTOR SHALL MAKE SUCH INVESTIGATIONS AS NECESSARY TO SATISFY HIMSELF AS TO FIELD CONDITIONS. THE USE OF THESE DRAWINGS SHALL BE AT CONTRACTOR'S DISCRETION. THE CONTRACTOR IS CAUTIONED TO REVIEW THE GENERAL CONDITIONS OUTLINED IN VOLUME.
4. ALL AREAS WHERE CONCRETE FILL IS CALLED FOR SHALL BE SANDBLASTED AND COATED WITH EPOXY BONDING AGENT PRIOR TO PLACING CONCRETE.
5. WHERE EQUIPMENT, BRACKETS, CLAMPS, ETC. ARE REMOVED. FASTENER SHALL BE CUT OFF 1/2-INCH BELOW SURFACE. PATCH HOLE WITH NON-SHRINK GROUT.
6. SALVAGE EQUIPMENT PER OWNER'S INSTRUCTION.
7. PROVIDE 30 DAYS WRITTEN NOTICE TO OWNER PRIOR TO DEMOLISHING ANY STRUCTURE OR BUILDING.
8. DISCONNECT AND REMOVE POWER AND CONTROL WIRING BETWEEN THE DEMOLISHED EQUIPMENT AND IT'S ASSOCIATED MCC OR CONTROL PANEL. PALLETIZE CONDUITS AND WIRES AND RETURN TO OWNER.
9. REFER TO SPEC SECTION 02200 FOR CLEARING, GRUBBING, AND STRIPPING REQUIREMENTS.
10. SITE DEMOLITION WILL IMPACT EXISTING DRAINAGE PATTERNS. MAINTAIN SITE DRAINAGE PATTERNS DURING CONSTRUCTION. REROUTE EARTHEN SWALES AND PROVIDE TEMPORARY FACILITIES AS NECESSARY.

KEY NOTES:

1. DEMOLISH SIDEWALK THAT RUNS ALONG WEST SIDE OF UV STRUCTURE TO ACCOMMODATE CANOPY SUPPORT.

A PLAN
FILE: 7310L1000C9100B

REV	DATE	BY	DESCRIPTION

DESIGNED DWW
DRAWN DPF
CHECKED RRH
DATE SEPTEMBER 2022

REGISTERED PROFESSIONAL ENGINEER DOUGLAS W. WING No. 38950 CIVIL STATE OF CALIFORNIA 09/28/22

carollo®

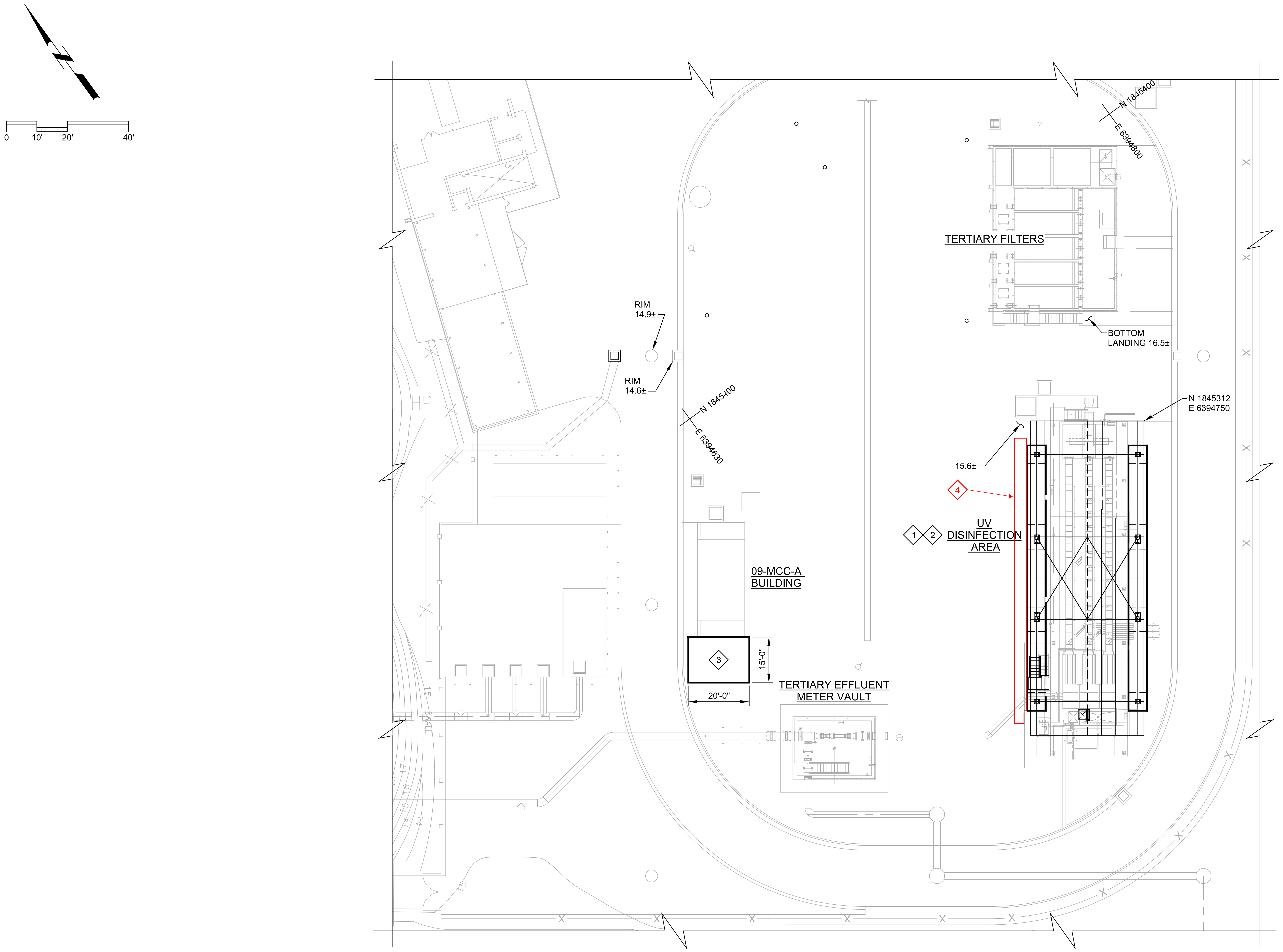
PETALUMA 1858

CITY OF PETALUMA
UV DISINFECTION UPGRADES PROJECT
DEMOLITION
OVERALL SITE PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 7310L.10
DRAWING NO. D01B
SHEET NO. 22 OF 56

PROJECT NO. 7310L10 FILE NAME: 7310L1000D01B.dgn



GENERAL NOTES:

1. FOR GENERAL CIVIL NOTES, REFERENCE SHEET G13.
2. SEE STRUCTURAL DRAWINGS FOR COORDINATE LOCATION DETAILS.
3. SEE GEOTECHNICAL REPORT FOR SITE PREPARATION AND ENGINEERED FILL RECOMMENDATIONS.

KEY NOTES:

1. FINISH GRADE AROUND UV SHALL MATCH EXISTING, 16.5±.
2. UV DISINFECTION AREA, SEE DRAWING 08S01.
3. CONSTRUCT 15'-0" BY 20'-0" CONCRETE PAD AS SHOWN AND PER S300/TYP. PAD SHALL BE FLUSH WITH EXISTING WALKWAY ON NORTH SIDE AND SLOPE TO THE SOUTH FOR DRAINAGE. PROVIDE EXPANSION JOINT PER S130/TYP BETWEEN NEW AND EXISTING SLABS. GRADE AROUND THE NEW PAD SHALL REMAIN PER EXISTING GRADE.
4. INSTALL SIDEWALK PER CR306/TYP ALONG WEST SIDE OF NEW CANOPY SUPPORT BEAM. TRANSITION TO EXISTING SIDEWALK PER CONTRACTOR'S RECOMMENDATIONS.

C PARTIAL PLAN
C01B
FILE: 7310L1000C9100B

REV	DATE	BY	DESCRIPTION

DESIGNED DWW
DRAWN DPF
CHECKED RRH
DATE SEPTEMBER 2022

REGISTERED PROFESSIONAL ENGINEER DOUGLAS W. WING No. 38950 CIVIL STATE OF CALIFORNIA 09/28/22

carollo®

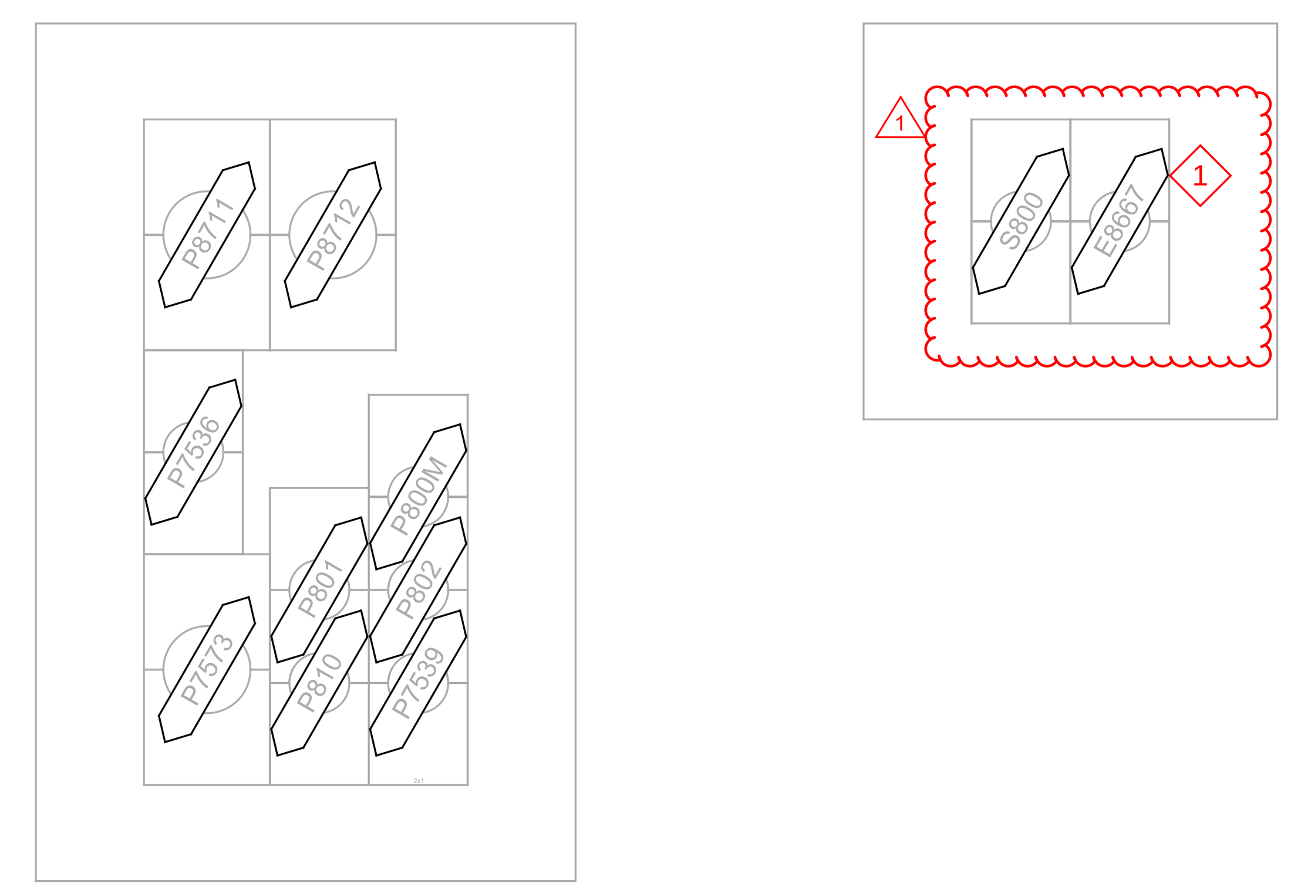
PETALUMA 1858

CITY OF PETALUMA
UV DISINFECTION UPGRADES PROJECT
CIVIL
GRADING AND DRAINAGE PARTIAL PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 7310L.10
DRAWING NO. C02B
SHEET NO. 26 OF 56

KEY NOTES:
1. EXISTING SPARE CONDUIT CONTINUES TO PLC-7. UPDATE CONDUIT TAG TO N8667.



CF DUCT BANK SECTION (EXISTING)

E03, 09E01

REV	DATE	BY	DESCRIPTION
1	11/2/2022	KWG	ADDENDUM 4

DESIGNED JHA
DRAWN JJS
CHECKED JGB
DATE SEPTEMBER 2022

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER ALAN CARVALHO
No. 20740
ELECTRICAL
STATE OF CALIFORNIA
09/28/22

carollo®

PETALUMA 1858

CITY OF PETALUMA
UV DISINFECTION UPGRADES PROJECT
ELECTRICAL
DUCT BANK SECTIONS - I

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 7310L.10
DRAWING NO. E05B
SHEET NO. 38 OF 56

Plot Date: 29-SEP-2022 11:08:37 AM User: svcPW PlotScale: 1:1 DesignScript: Carollo_Std_Pen_v0905.pen ColorTable: gshade.ctb Model: Layout1
LAST SAVED BY: lbordelon

GENERAL NOTES:

1. UV CHANNEL 3 SHALL BE INSTALLED AND OPERATIONAL BEFORE WORK BEGINS ON CHANNELS 1 AND 2, EXCEPT AS NOTED BELOW.
2. SOME SIGNALS MUST BE ROUTED FROM THE EXISTING UV CONTROL PANEL, UV-DCC-01 TO THE NEW UV CONTROL PANEL, UV-MCP-800 IN ORDER TO START UV CHANNEL 3, REFER TO THE KEY NOTES FOR DETAILS.
3. THE SHOP DRAWINGS ON THE EXISTING UV SYSTEM ARE AVAILABLE FROM THE OWNER, FIELD VERIFY ALL EXISTING TERMINATIONS, BEFORE MAKING ANY TERMINATIONS.

KEY NOTES:

1. INSTALL CONDUCTORS IN EXISTING CONDUITS STUBBED TO DESIGNATED EQUIPMENT LOCATION.
2. REPLACE THE EXISTING UVT ANALYZER, 08-AIT-805. REUSE THE EXISTING WIRING TO UV-DCC-01.
3. PROVIDE SIGNAL ISOLATORS IN THE EXISTING UV CONTROL PANEL UV-DCC-01 AND SPLIT THE FOLLOWING ANALOG SIGNALS BETWEEN THE TWO UV CONTROL PANELS: UVT, FLOW, TURBIDITY.
4. PROVIDE A CONDUIT AND CONDUCTORS TO CONNECT THE DISCONNECT SWITCH TO 08-EDR-301.
5. PROVIDE A CONDUIT FOR THE MANUFACTURER'S CABLE BETWEEN 08-LE-803 AND 08-LIT-803.
6. RUN CONDUITS OVERHEAD SUPPORTED FROM THE CANOPY. INSTALL THE CONDUITS OVER THE BRIDGE CRANE.
7. DEMOLISH THE EXISTING 08-LE/LIT-802. RECONNECT THE POWER WIRING. DEMOLISH THE SIGNAL CABLE AND PULL IT THROUGH THE EXISTING CONTROL PANEL UC-DCC-01 TO THE NEW CONTROL PANEL UV-MCP-800.
8. DEMOLISH EXISTING CONTROL WIRE FOR 08-EDR-201. PULL NEW CONTROL WIRING THROUGH THE EXISTING CONTROL PANEL, UC-DCC-02 TO THE NEW CONTROL PANEL UV-MCP-800.
9. INSTALL THE NEW CHANNEL 2 LAMP CONTROL CABLES FROM THE EXISTING CONTROL PANEL, UC-DCC-01 TO THE NEW CONTROL PANEL UV-MCP-800.
10. DUCT BANK SECTION CF, E05.
11. TRANSFORMER 08-PDC-XFMR-2 IS PROVIDED BY THE UV SUPPLIER TO POWER CHANNEL 3. REFER TO SECTION 11289 FOR DETAILS.
12. FIELD ROUTE THE CONDUIT FROM THE LEVEL SWITCH TO THE WIREWAY TO AVOID OBSTRUCTING ACCESS TO THE CHANNEL AND PREVENT TRIPPING HAZARDS. CONTINUE THE WIRING THROUGH THE WIREWAY TO THE UV CONTROL PANELS. LSL-111 AND LSL-211 WILL CONTINUE THROUGH NEW CONDUITS TO UV-MCP-800.
13. ROUTE CONDUIT S801 ON THE SIDE OF UV STRUCTURE TO REACH UV-MCP-800. MAKE THE CONNECTION TO UV-MCP-800 FROM THE BOTTOM.
14. CHANNEL 3 INFLUENT GATE DISCONNECT SWITCH.
15. EXISTING CONDUIT. UPDATE CONDUIT TAG TO N800A. (REV 1)

A PLAN
E03
SCALE: 1/4"=1'-0"
FILE: 7310L1008E101

REV	DATE	BY	DESCRIPTION
1	11/2/2022	KWG	ADDENDUM 4

DESIGNED: JHA
DRAWN: JJS
CHECKED: JGB
DATE: SEPTEMBER 2022

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER ALAN CARVALHO No. 20740 ELECTRICAL STATE OF CALIFORNIA 09/28/22

carollo®

PETALUMA 1858

CITY OF PETALUMA
UV DISINFECTION UPGRADES PROJECT
ELECTRICAL
UV DISINFECTION POWER PLAN - I

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 7310L.10
DRAWING NO. 08E01B
SHEET NO. 43 OF 56