ADDENDUM NO. 2





PROJECT NAME:	Herz Rose Park	
PROJECT NUMBER:	LSDG #23-005	DATE: 08/15/2024
LOCATION: 1515 Loca	ust St. Terre Haute, IN 47807	
PREPARED BY: Luke	· Waltz	
EMAIL: luke@LSindy.c	com	PHONE: 765.592.4143

THIS LETTER CONSTITUTES ADDENDUM NO. 2

The information contained in this addendum shall become a part of the basic plans and specifications, the same as is originally incorporated therein. The original plans and specifications shall remain in their entirety, except as modified by the Addendum. The items herein shall supersede the information in each of the specifications and plans.

The proposed contract documents for this work are modified as follows:

Item #1	The RDL Jackshaft is approved as equal for use.
Item #2	Contractor to provide electrical fixtures for building based on Electrical Engineer Plans (See
	Attachment).
Item #3	Use sch.80 PVC for capacity calculations. Typical for direct burial applications, unless local
	code dictates other requirements (See Subcontractor Specifications).
Item #4	Sample bonding notes are on sheet FM.00. Detail reflects metal conduit, but if this is not a site
	requirement, only fixtures are to be bonded. For reference, our provided embed fixtures (FIAC-
	nozzle housings, junction boxes, etc.) include a direct burial bonding lug to accept #8 wire.
	Typically, this is tied to the rebar and then routed back to the vault which also includes an
	exterior connection for the bond wire. Inside the vault, pre-attach the pump and other
	equipment to the control panel.
Item #5	The pump vault will come completely pre-assembled and be tested prior to arriving at site. The
	fountain control panel is pre-tested and wired by Fountain People's UL shop and pre-installed
	with all the pump and filtration equipment. MEP will be responsible for incoming power to main
	disconnect and pull/land the other required wires for the FIAC valves and lighting. Fountain
	People to generate a full 3D model of the vault prior to fabrication which will be issued for final
	review/questions.
Item #6	Vault disconnect will require 60A which is what the panel disconnect switch will be.
Item #7	See Sims-Durkin addendum attachment for MEP related items.

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ADDENDUM NO. Two (2) - Division 26

ISSUED: 08/2024

PROJECT: Herz-Rose Park Improvements Project - MEP

Terre Haute, Indiana

BID DATE: August 26, 2024

GENERAL INFORMATION

None.

FRONT END DOCUMENTS

None.

TECHNICAL SPECIFICATIONS

None.

RESPONSE TO CONTRACTOR OUESTIONS

Contractor Questions:

- 1. Can you provide an Engineering Drawing with the Equipotential Grounding requirements for the Splash Pad.
- 2. Is there a detail showing the grounding requirements at each piece of equipment?
- 3. Note 26 on EE.06 are calling for 3#6, #8 ground
 - a. This is being connected to a single pole breaker correct?
 - b. The lights are within 20' of the panel not sure what the reason for the upsizing is
 - c. Exterior Event space utility receptacle does this require a neutral wire?
- 4. Note 17, on EE.06
 - a. Calls for 4#12 but is being connected to a single pole breaker should this be 3#12?
- 5. Note 27 on EE.06
 - a. Calls for 3#3, #8, calls for a single pole 20a breaker
 - i. What is the extra wire for?
 - ii. Where are these located on drawing EE.00
- 6. On EE.00 there is a P inside a circle North of the water park according to the page to directory these as power pedestals are these the USB receptacles?
- 7. Note 29 on EE.06
 - a. Calls for 3#6, #8 in a 1-1/4"c
 - i. Once again what is the 3rd wire for?
 - ii. What is the purpose of 1 1/4" conduit in lieu of 1"?
- 8. On FE.00 Is Items 1, 2, 3, have a note by installer is this the contractor or are these installed outside this scope?
- 9. Is the electrical contractor responsible for the complete install of the raceway, wiring and final connections for everything on the fountain electrical plan?

Herz-Rose Park Improvements Project - MEP Terre Haute, Indiana Addendum No. 1 – Divisions 23, 25, and 26 August, 2024 Page 2

10. With all the open questions is there an opportunity to push the bid date back?

Engineer Replies:

- 1. The specification "13 12 00 Fountains" describes that the splashpad vendor (the Fountain People) provide the equipotential grounding design for their custom installations along with the physical site drawings. The electrical contractor is expected to work with the splash pad vendor to meet the requirements of NEC 680 and the Indiana Swimming Pool Code regarding equipotential bonding of grounding rings, rebar structures of the splash pad (and its 5-foot periphery), as well as all electrical equipment that is a part of the splash pad infrastructure (fountains, lights, equipment vault, pumps, conduits, and other miscellaneous components). Shop drawings of the planned installation should be submitted to the Engineer for review. Please consult the Fountain People for further information contact info can be found in "13 12 00 Fountains".
- 2. Regarding grounding at each piece of equipment: The entire splash-pad system must be equipotential to meet requirements of NEC 680 and the Indiana Swimming Pool Code. NEC 250 Grounding and Bonding of Electrical Equipment is specified in "26 05 26 Grounding and Bonding for Electrical Systems." Please consult the Fountain People for further information contact info can be found in "13 12 00 Fountains".
- 3. Note 26 regarding 3-#6, and 1-#8 GND:
 - a. Note 26 was re-used inappropriately. Some circuits, connected to single-pole breakers, need only 2-#6, and 1-#8 GND. These notes will be revised and provided in a construction drawing set to follow.
 - b. Some lighting circuits are long and were upsized for voltage drop. That said, there are some copy-paste errors that we are correcting. The wire sizing is based on the length of each circuit and the expected load. The notes will be revised and provided in a construction drawing set to follow.
 - c. The Exterior Event Space utility receptacle is planned to need the neutral e.g. NEMA configuration 14-30 single phase 120/208V 30A 4-wire receptacle.
- 4. Yes Note 17 was also re-used inappropriately. Some circuits, connected to single-pole breakers, need only 2-#12 Cu, and 1-#12 Cu GND. These notes will be revised and provided in a construction drawing set to follow.
- 5. Note 27 should have said 2-#3 Cu, and 1 #8 Cu GND. MDP Branch circuit 27 for USB Charging Pedestals was not shown on the site drawing EE.00, but they are the two circles with a "P" in them which are north of the splash-pad/waterpark. Both will be corrected in the amended construction set to follow.
- 6. Yes, the P inside a circle North of the water park those are the USB receptacles. These will be marked in revised construction set, and basis of design model information will be provided.
- 7. Note 29 should say 2-#6 Cu, 1-#8 Cu GND. AS for conduit size, by practice we upsize conduit by one metric size when the circuit is longer than about 75 feet. Using 1" conduit meets the code requirement but can cause damage to wires being pulled through a long length of conduit. We recommend using 1½" conduit. Note 28, for the two North Pedestal Lighting circuits, should also say 2-#4 Cu, 1-#8 Cu GND in 1-1/2" conduit. These Notes will be corrected in the amended construction set to follow.
- 8. FE.00 is a drawing provided by the Fountain People this question should be addressed to them. Based on the specification "13 12 00 Fountains", it appears that the electrical contractor is the "installer".
- 9. Again, this must be answered by the Fountain People, but it appears from the specification "13 12 00 Fountains" that the electrical contractor is responsible for installation of everything in the fountain electrical plan FE drawings.
- 10. Contact the Owner or his agents for questions regarding the bid date.

Herz-Rose Park Improvements Project - MEP Terre Haute, Indiana Addendum No. 1 – Divisions 23, 25, and 26 August, 2024 Page 3

DRAWINGS

1. Sheet EE.00, ELECTRICAL SITE PLAN

- Item 1: Revise drawing to show branch circuit for USB Charging Stations north of splashpad/waterpark on site plan drawing.
- Item 2: Change Note 2 Transformer by Utility, Transformer pad by EC in accordance with Utility requirements.
- Item 3: Change Note 4 Utility Meter provided by Utility.
- Item 4: Change Note 17 Emergency Station Rath -Janus 9' tower model 2100-TPC, connected, 120V (not solar), cellular, Dusk2Dawn (battery)
- Item 5: Add Note 20 Power Circuit MDP-25 (for USB charging pedestals)
- Item 6: Add Note 21 Legrand Charging Station with duplex GFCI Receptacle, 4-Port USB-A Receptacle, XCSPP2GRU-BK
- Item 7: Change General Note C remove reference to 480V power which is not used on site.
- Item 8: Add Note 22 Electrical Contractor to refer to requirements provided by SPLASH PAD supplier for electrical and equipotential grounding required by NEC 680. Refer to drawings FM.00 FE.00.

2. Sheet EE.05, NETWORKING SITE PLAN

- Item 1: Revise drawing to show Cellular Emergency Station and Door Access Network equipment including two additional door access devices for the outside bathroom doors.
- Item 2: Add Note 6 Cellular Emergency Station
- Item 3: Add General Note B All Security Camera locations and WiFi locations are to be provided with a 4" square box with single gang 5/8" mud ring and 3/4" EMT from device location to network cabinets. CAT6 CMR cable.
- Item 4: Add General Note C All Door Access locations to be provided with 3/4" EMT to Door Access Cabinet.
- Item 5: Add General Note D Internet Service Provider to provide telecom media to service location and shall provide modem for internet access.

3. Sheet EE.06, WTP ELECTRICAL ONE-LINE DIAGRAM

- Item 1: Revised 'Detail Electrical One-Line' detail drawing to use new Keyed Notes correcting the number of conductors for single phase circuits. Also added equipment labels for clarity.
- Item 2: Revised Main Distribution Panelboard Schedule to correct to use new Keyed Notes correcting the number of conductors for single phase circuits. Also converted circuit for Emergency Station to be one-pole 120V MDP-31 making MDP-33 spare.
- Item 3: Add Keyed Note 30 through Keyed Note 34 refered from Main Distribution Panelboard Schedule and the Electrical One-Line Detail to correct the number of conductors for single-phase circuits.
- Item 4: Make Note 27 not used. Circuits previously referencing Note 27 now references a similar 2-wire circuit.
- Item 5: Make Note 29 not used. Circuits previously referencing Note 29 now references a similar 2-wire circuit.
- Item 6: Change Note 28: 2 #4 Cu, 1 #8 Cu GND, 1" C.
- Item 7: Change Note 8: 4 #4 Cu, 1 #8 Cu GND, 1-1/4" C.
- Item 8: Change 3P-50A circuit breaker in MDP-34.36.38 to a 3P-60A circuit breaker for splash pad.
- Item 9: Change the splashpad loads and the panel KVA loads for the expected splashpad demand load increase.

4. Sheet EE.07, ELECTRICAL DETAILS

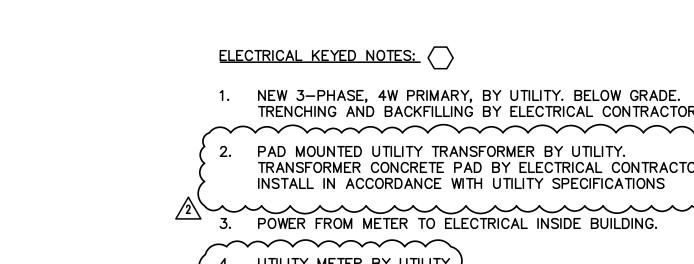
- Item 1: Change Lighting Schedule L1 Manufacturer Name and Number field to include the pole height of 16'.
- Item 2: Change Lighting Schedule L6 Manufacturer Name and Number field to fix typo in model number.
- Item 3: Change Lighting Schedule L8 Manufacturer Name and Number field to remove '**' model number field reservation for color designation.
- Item 4: Change Lighting Schedule L9 Manufacturer Name and Number field to remove '**' model number field reservation for color designation.
- Item 5: Add Lighting Pole Base Detail for pole-mounted luminaires.
- Item 6: Change title of "L11 Emergency Exit Light Detail" to "L10 Emergency Exit Light Detail."

Herz-Rose Park Improvements Project - MEP Terre Haute, Indiana Addendum No. 1 – Divisions 23, 25, and 26 August, 2024 Page 4

5. Sheet EE.09, ELECTRICAL DETAILS CONT

- Item 1: Change the Network Details drawing to revise equipment used in the network/telecom design.
- Item 2: Network Details Add UniFi 3.5" HDD 16TB to support Security Camera Unifi Protect System
- Item 3: Network Details Add UniFi Enterprise Access Hub to the Door Access System
- Item 4: Network Details Add UniFi G2 Reader Pro to the UniFi Door Access System
- Item 5: Network Details Add UniFi Electric Locks to the UniFi Door Access System
- Item 6: Network Details Add APC SmartUPS SRT2K2RXLNX145 and SRT48RMBP
- Item 7: Network Details Remove Unifi Power Distribution System
- Item 8: Network Details Add UniFi Etherlighting Patch Cables
- Item 9: Network Details Change UniFi G5 Dome Cameras to UniFi G5 Turret Cameras in the Security Camera Unifi Protect System
- Item 10: Network Details Add Model Number info for the Middle Atlantic EWR Cabinet DWR-12-26
- Item 11: Network Details Change UniFi 24 Port POE Professional Switch to a UniFi 16 Port POE Pro Max Switch.
- Item 12: Network Details Add UVC-AI-360 ceiling mounted camera to Security Camera Unifi Protect System

END OF ADDENDUM NO. 1 - Division 26



- 1. NEW 3-PHASE, 4W PRIMARY, BY UTILITY. BELOW GRADE. TRENCHING AND BACKFILLING BY ELECTRICAL CONTRACTOR.
- TRANSFORMER CONCRETE PAD BY ELECTRICAL CONTRACTOR. INSTALL IN ACCORDANCE WITH UTILITY SPECIFICATIONS
- 4. UTILITY METER BY UTILITY.
 - (3) 3/4" x 10' COPPER CLAD STEEL GROUNDING RODS UNDERGROUND, CONNECTED 10' APART WITH CU WIRING.
 - 6. PATHWAY LIGHTING (TYPICAL).

- 7. LIGHTING CIRCUIT MDP-22,24.
- 8. LIGHTING CIRCUIT MDP-26,28.
- 9. LIGHTING CIRCUIT MDP-30,32.
- 10. POWER CIRCUIT MDP-31,33 TO EMERGENCY STATION.
- 11. UNDERGROUND FEEDER TO SPLASH PAD EQUIPMENT.
- 12. LIGHTING CIRCUIT MDP-27,29 TO ART DISPLAY.
- 13. POWER CIRCUIT MDP-35,37 TO OUTDOOR EVENT POWER RECEPTACLE.
- 14. ART ARCH (TYPICAL OF 4).

15. FIBER OPTIC MAIN CONNECTION BOX.

- 16. FIBER OPTIC LINE BELOW GRADE, TRENCH AND BACKFILLING BY ELECTRICAL CONTRACTOR.
- 17. EMERGENCY STATION. RATH-JANUS 9' TOWER, MODEL 2100-TPC, CELLULAR, 120V TOWER, NO SOLAR OPTION, DUSK 2 DAWN.
- 18. OUTDOOR EVENT POWER RECEPTACLE.
- 19. PARK SIGN SPOTLIGHT. INSTALL 8 FT AWAY FROM SIGN.
- 20. POWER CIRCUIT MDP-25.
- 21. LEGRAND CHARGING STATION WITH DUPLEX GFCI RECEPTACLE, 4 PORT USB-A RECEPTACLE, XCSPP2GRU-BK.
- 22. ELECTRICAL CONTRACTOR TO REFER TO REQUIREMENTS PROVIDED BY SPLASH PAD SUPPLIER FOR ELECTRICAL AND EQUIPOTENTIAL GROUNDING REQUIRED BY NEC 680. REFER TO DRAWINGS FM.00-FE.00.

GENERAL ELECTRICAL NOTES:

- A. FOR LIGHT DETAILS SEE LIGHTING SCHEDULE ON SHEET
- B. FOR WIRING AND CONDUIT SIZING SEE SHEET EE.06.
- C. MAINTAIN 1' SEPARATION BETWEEN 120V POWER CONDUITS AND LOW VOLTAGE (NETWORK, 24V DC CONTROL, OR INTRINSICALLY SAFE CIRCUIT) CONDUITS.
- D. WIRE AND CONDUIT ROUTES AND ELECTRICAL EQUIPMENT LOCATIONS ARE APPROXIMATE, FIELD VERIFY EXACT INSTALLATIONS.



Planning Civil Landscape

5022 ROCKVILLE ROAD

INDIANAPOLIS, IN 46224

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HERZ ROSE PARK

CLIENT / OWNER

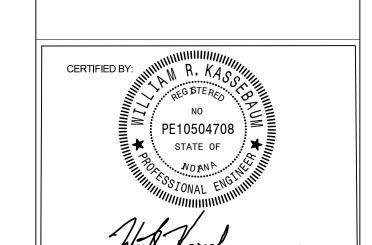
PROJECT NAME

PROJECT LOCATION 1515 Locust St.

47807

Terre Haute, IN

CITY OF TERRE HAUTE



SDA PROJECT NUMBER: 2023123

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04-17-2024

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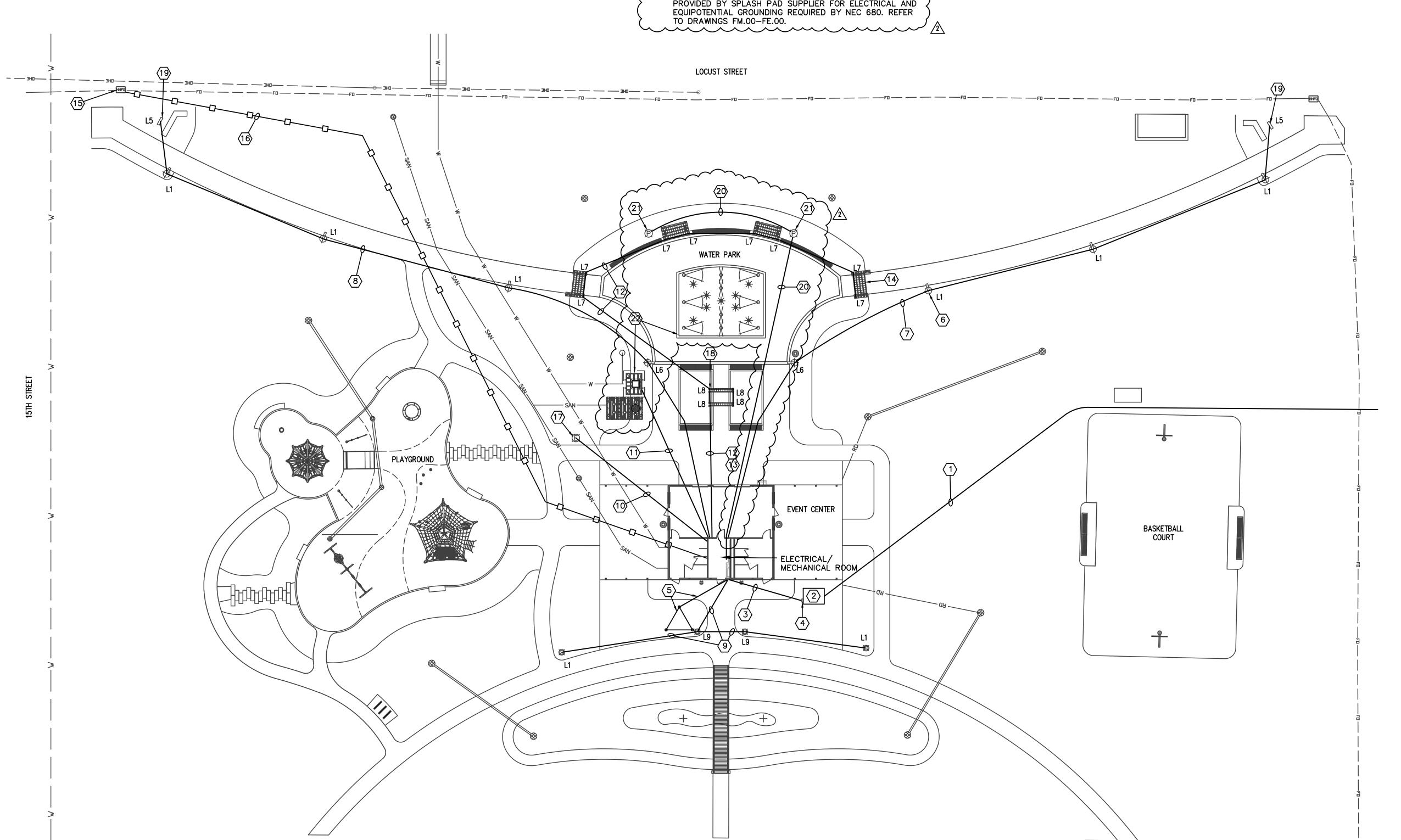
ELECTRICAL SITE PLAN

SHEET NUMBER

EE.00

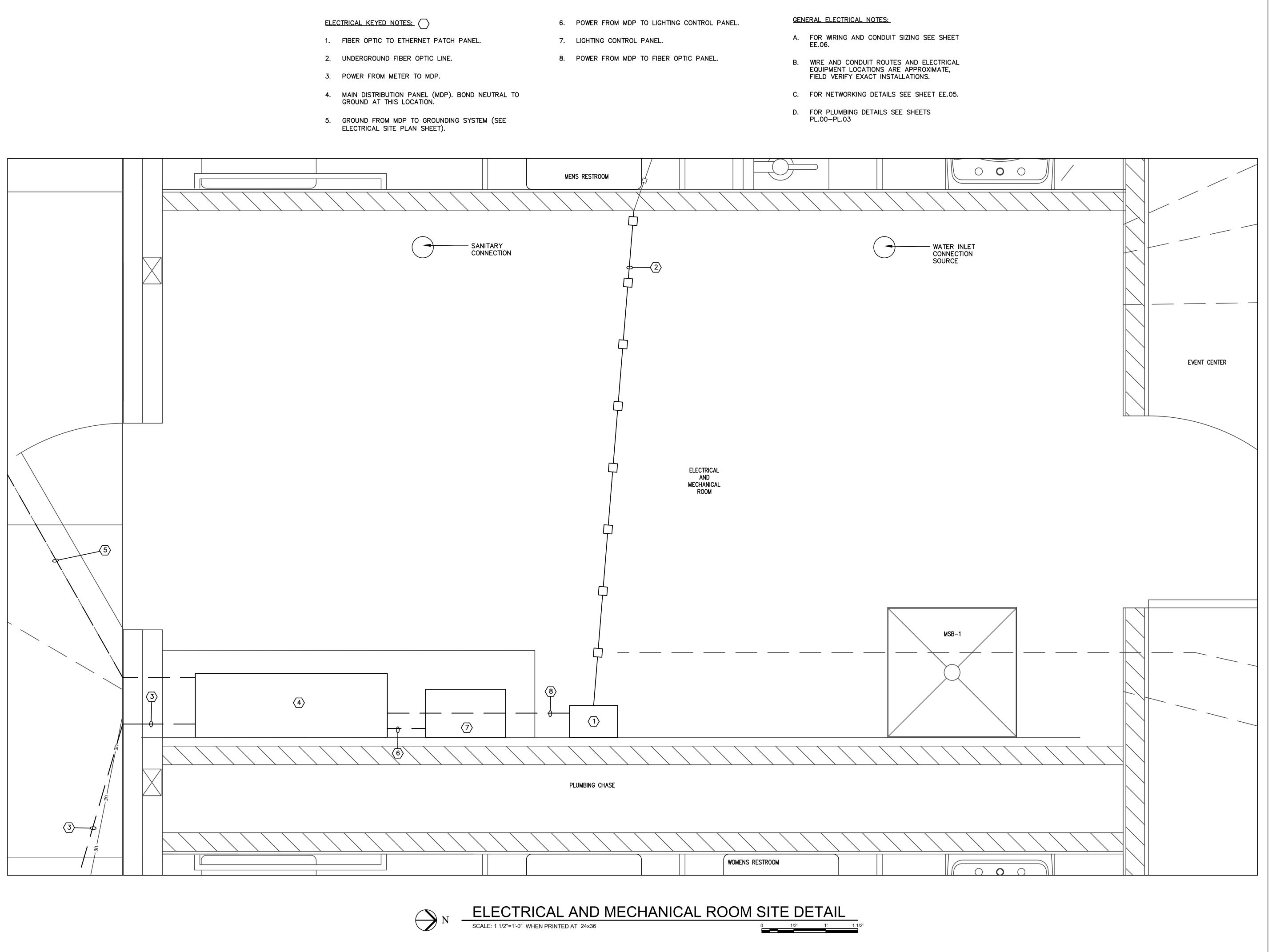
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23-005



ELECTRICAL SITE PLAN

SCALE: 1"=20'-0" WHEN PRINTED AT 24x36





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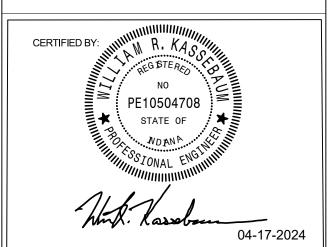
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SIMS-DURKIN ASSOCIATES ENGINEERING COMPANY

5755 WEST 74TH STREET INDIANAPOLIS, INDIANA 46278 PHONE: 317-209-4035 FAX: 317-222-4120 WEB: WWW.SIMS-DURKIN.COM SDA PROJECT NUMBER: 2023123



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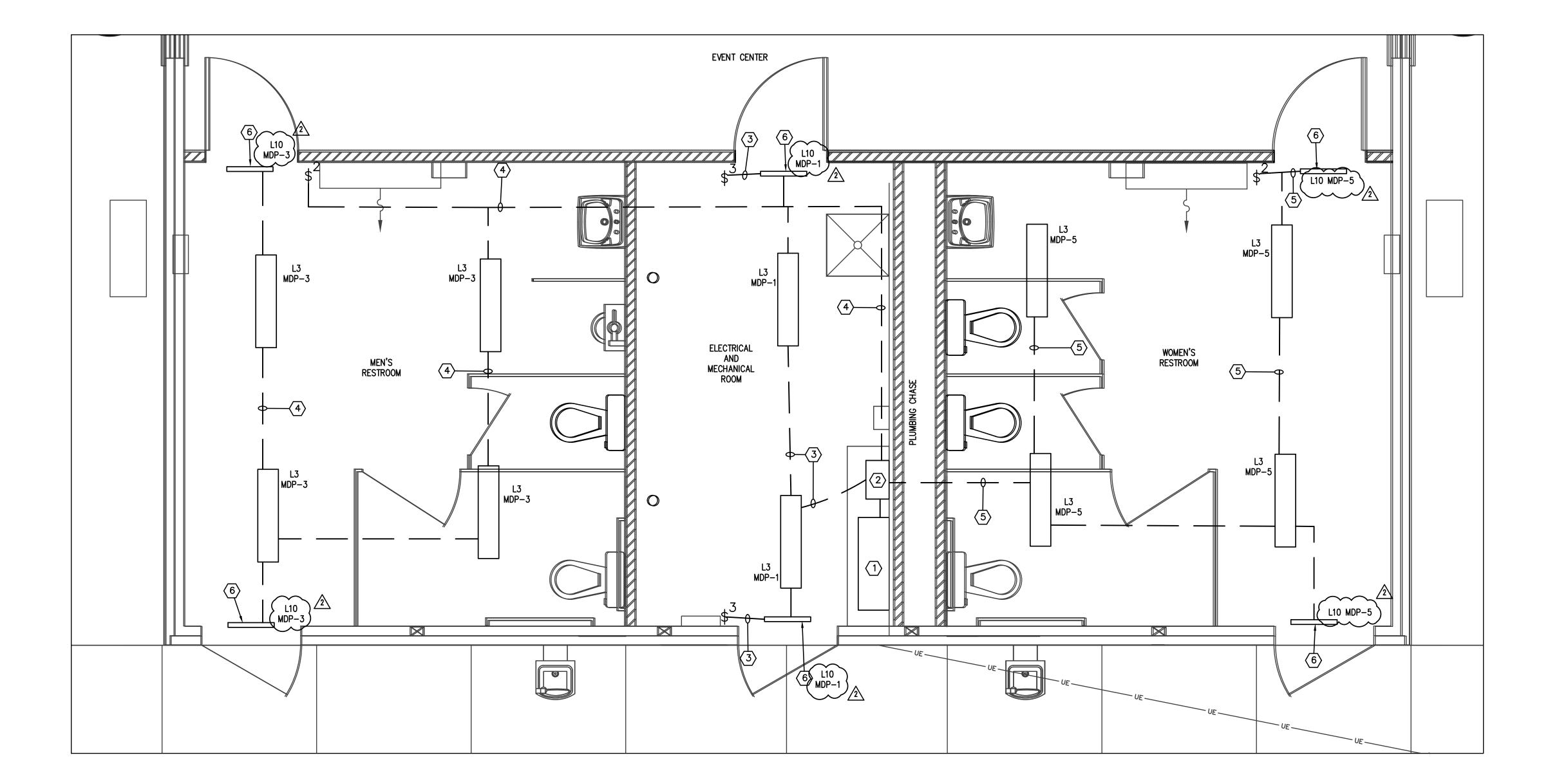
SHEET NAME

ELECTRICAL AND MECHANICAL ROOM SITE DETAIL SHEET NUMBER

- 1. MAIN DISTRIBUTION PANEL.
- 2. LIGHTING CONTROL PANEL.
- 3. ELECTRICAL/MECHANICAL ROOM LIGHTING CIRCUIT MDP-1.
- 4. MEN'S RESTROOM LIGHTING CIRCUIT MDP-3.
- 5. WOMEN'S RESTROOM LIGHTING CIRCUIT MDP-5.
- 6. EMERGENCY EXIT SIGN.

GENERAL ELECTRICAL NOTES:

- A. FOR LIGHTING SCHEDULE SEE SHEET EE.07.
- B. FOR LIGHTING AND ELECTRICAL EQUIPMENT DETAILS SEE SHEETS EE.07—EE.09.







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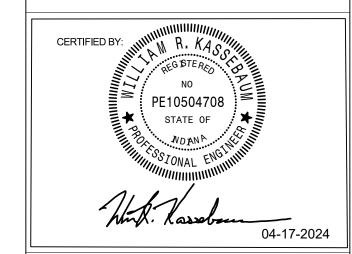
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PROJECT NUMBER 23-005

SHEET NAME

RESTROOM LIGHTING SITE DETAIL

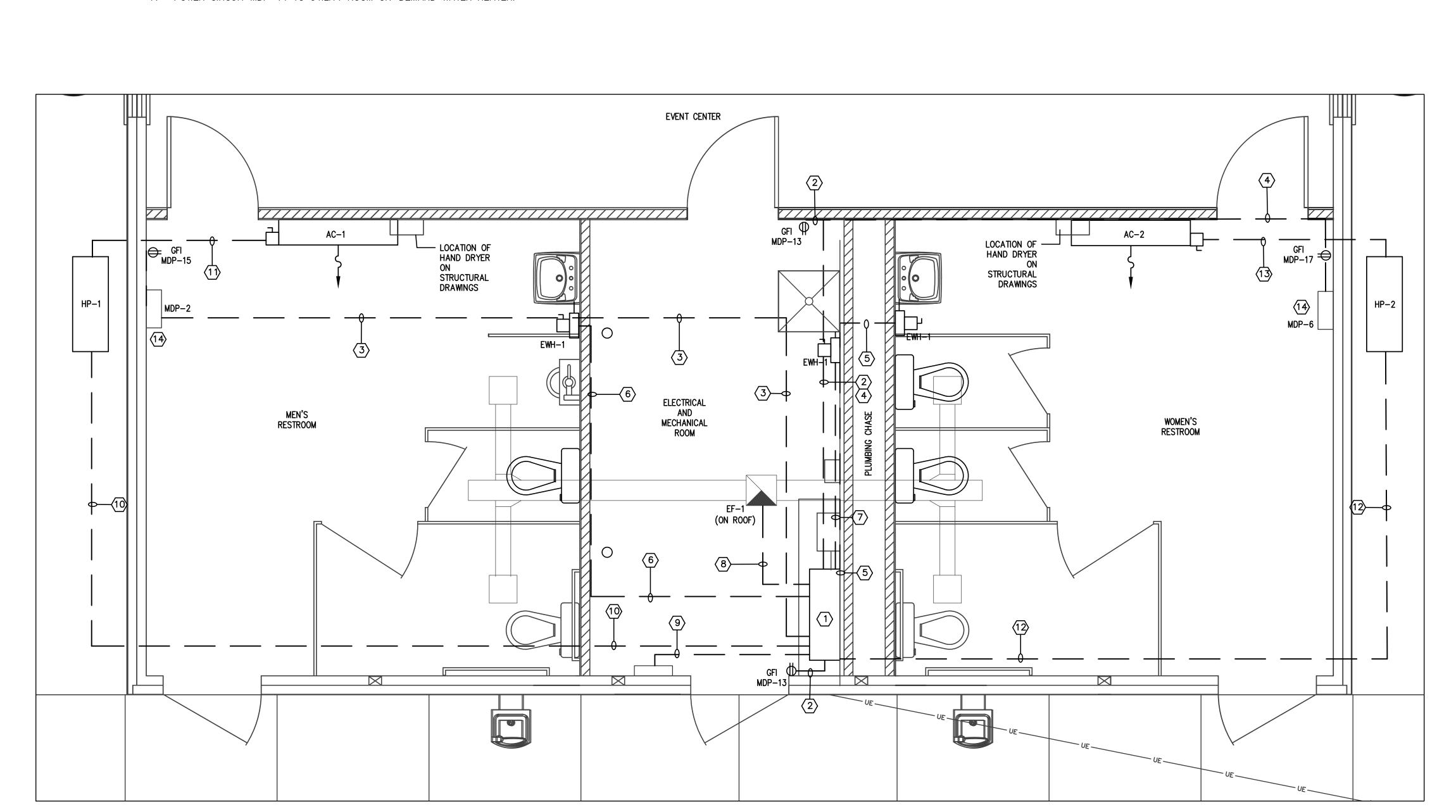
SHEET NUMBER

- 1. MAIN DISTRIBUTION PANEL.
- 2. POWER CIRCUITS MDP-13 TO ELECTRICAL/MECHANICAL ROOM OUTLETS.
- 3. POWER CIRCUITS MDP-2, MDP-4 TO BATHROOM HAND DRYERS, AND POWER CIRCUIT MDP-15 TO MEN'S RESTROOM OUTLET.
- 4. POWER CIRCUITS MDP-6, MDP-8 TO BATHROOM HAND DRYERS, AND POWER CIRCUIT MDP-17 TO WOMEN'S RESTROOM OUTLET.
- 5. POWER CIRCUIT MDP-12 TO WOMEN'S RESTROOM ON-DEMAND WATER HEATER.
- 6. POWER CIRCUIT MDP-10 TO MEN'S RESTROOM ON-DEMAND WATER HEATER.
- 7. POWER CIRCUIT MDP-14 TO UTILITY ROOM ON-DEMAND WATER HEATER.

- 8. POWER CIRCUIT MDP-44,46 TO EXHAUST FAN ON ROOF.
- 9. POWER CIRCUIT MDP-48,50 TO UTILITY ROOM HEATER.
- 10. POWER CIRCUIT MDP-43,45 TO MEN'S RESTROOM HVAC OUTDOOR UNIT.
- 11. POWER CIRCUIT MDP-43,45 TO MEN'S RESTROOM HVAC INDOOR UNIT FROM OUTDOOR UNIT HP-1.
- 12. POWER CIRCUIT MDP-39,41 TO WOMEN'S RESTROOM HVAC OUTDOOR UNIT.
- 13. POWER CIRCUIT MDP-39,41 TO WOMEN'S RESTROOM HVAC INDOOR UNIT FROM OUTDOOR UNIT HP-2.
- 14. HAND DRYER.

GENERAL ELECTRICAL NOTES:

- A. FOR LIGHTING SCHEDULE SEE SHEET EE.07.
- B. FOR LIGHTING AND ELECTRICAL EQUIPMENT DETAILS SEE SHEETS EE.07—EE.09.
- C. FOR MECHANICAL EQUIPMENT DETAILS SEE SHEETS ME.00—ME.01.







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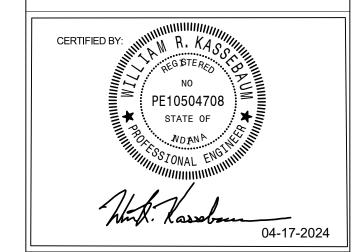
HERZ ROSE PARK

PROJECT LOCATION
1515 Locust St.

1515 Locust St. Terre Haute, IN 47807

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PROJECT NUMBER 23-005

SHEET NAME

RESTROOM POWER SITE DETAIL

SHEET NUMBER

- MDP PANEL.
- 2. LIGHTING CONTROL PANEL.
- 3. EVENT CENTER LIGHTING CIRCUIT MDP-7.
- 4. EVENT CENTER LIGHTING CIRCUIT MDP-9.
- 5. EVENT CENTER LIGHTING CIRCUIT MDP-11.
- 6. PHOTOVOLTAIC CONTROL CIRCUIT TO LIGHTING PANEL FOR LIGHTING CIRCUITS MDP-22,24 MDP-26,28, MDP-30,32, MDP-9, MDP-11.
- 7. PHOTOVOLTAIC CELL FOR DUSK-TO-DAWN LIGHTING.

- 8. POWER CIRCUIT MDP-19 FOR ENCLOSED ATRIUM RECEPTACLES.
- 9. POWER CIRCUIT MDP-21 FOR EVENT CENTER RECEPTACLES.
- 10. POWER CIRCUIT MDP-23 FOR EVENT CENTER RECEPTACLES.
- 11. POWER CIRCUIT MDP-16 FOR OVERHEAD DOOR MOTOR.
- 12. POWER CIRCUIT MDP-18 FOR OVERHEAD DOOR MOTOR.
- 13. POWER CIRCUIT MDP-20 FOR OVERHEAD DOOR MOTOR.
- 14. POWER CIRCUIT MDP-40,42 FOR ATRIUM HVAC.
- 15. POWER CIRCUIT MDP-30,32 TO SOUTH OUTDOOR LIGHTING AND EVENT CENTER EXTERIOR WALL LIGHTS.

GENERAL ELECTRICAL NOTES:

- A. FOR LIGHTING SCHEDULE SEE SHEET EE.07.
- B. FOR LIGHTING AND ELECTRICAL EQUIPMENT DETAILS SEE SHEETS EE.07—EE.09.



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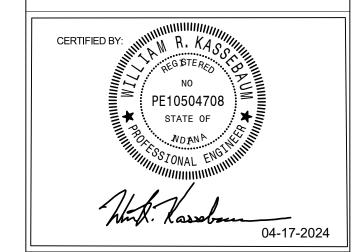
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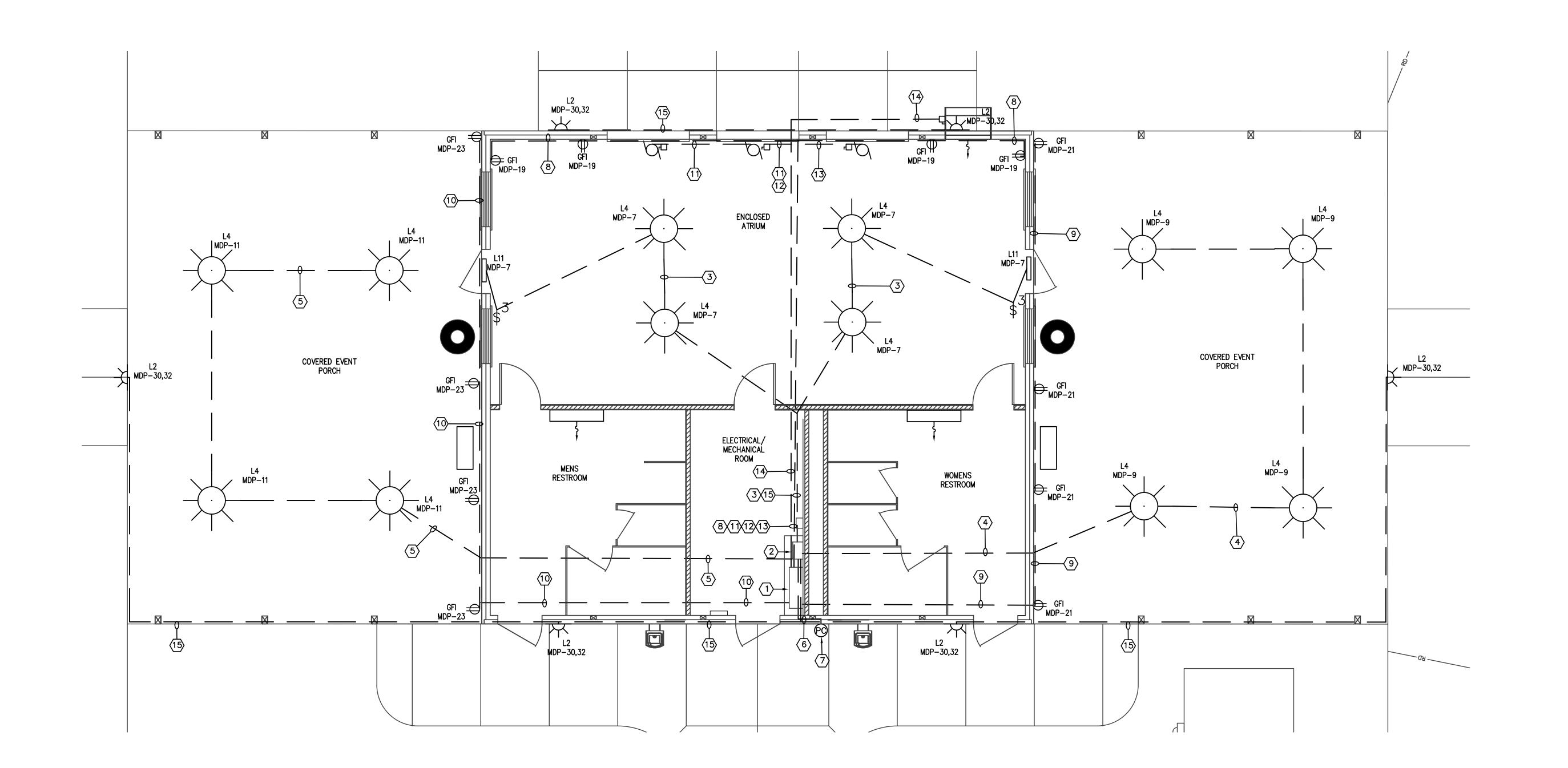
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EVENT CENTER POWER AND LIGHTING SITE DETAIL

PROJECT NUMBER

23-005

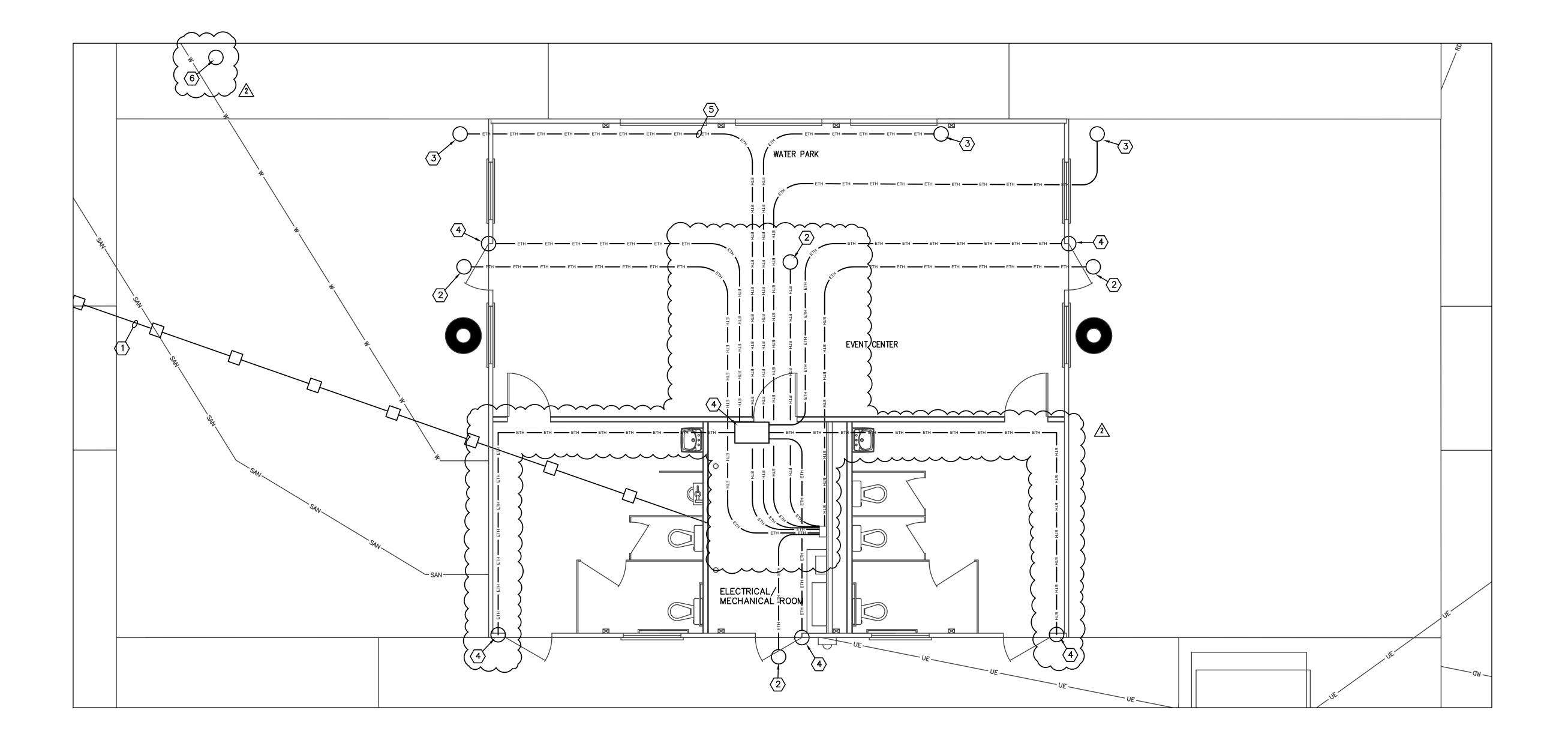




- 1. NEW FIBER OPTIC LINE
- 2. SECURITY CAMERA SYSTEM.
- 3. WIFI INTERNET NETWORK.
- 4. DOOR ACCESS NETWORK.
- 5. CAT6 ETHERNET CABLE.
- 6. CELLULAR EMERGENCY PHONE.

GENERAL ELECTRICAL NOTES:

- A. FOR NETWORK EQUIPMENT DETAILS SEE SHEET EE.09.
- B. ALL SECURITY CAMERA LOCATIONS AND WIFI LOCATIONS ARE TO BE PROVIDED WITH A 4" SQUARE BOX WITH SINGLE GANG 5/8" MUD RING AND 3/4" EMT FROM DEVICE LOCATIONS TO NETWORK CABINETS. CAT6 CMR CABLE.
- C. ALL DOOR ACCESS LOCATIONS TO BE PROVIDED WITH 3/4" EMT TO DOOR ACCESS CABINET.
- D. INTERNET SERVICE PROVIDER TO PROVIDE TELECOM MEDIA TO SERVICE LOCATION, AND SHALL PROVIDE MODEM FOR INTERNETS







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CITY OF TERRE HAUTE

PROJECT NAME

HERZ ROSE PARK

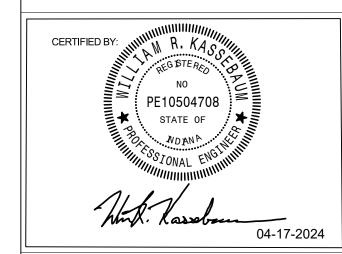
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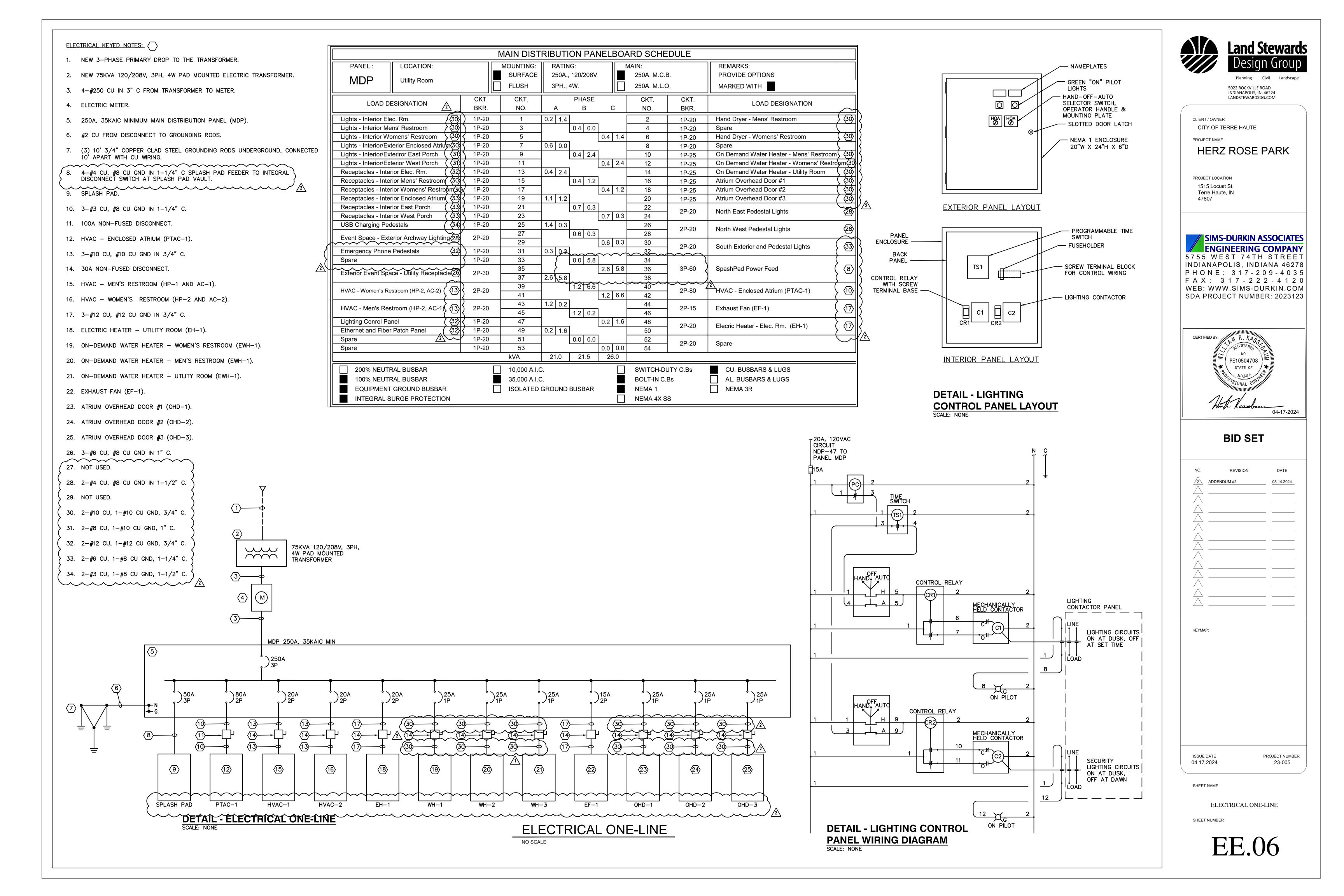
ISSUE DATE 04.17.2024

PROJECT NUMBER 23-005

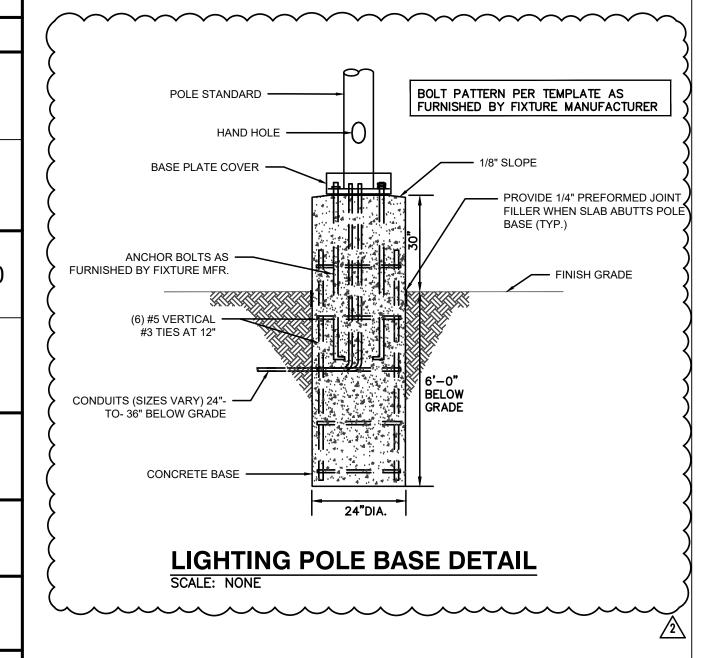
SHEET NAME

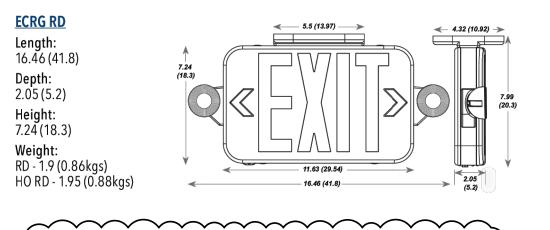
NETWORKING SITE PLAN

SHEET NUMBER



	LIG	HTING	SCHEDULE				
ITEM	MANUFACTURER NAME & NUMBER	QTY		LUMENS	WATTS	VOLTAGE	AMPS
L1	LIGMAN LIGHT LINEAR PT (ULI-21231-29w-T3-W40-16' OR EQUIVALENT)	8	TRAIL LIGHTING AND PARKING LOT LIGHTING SHEET EE.00	3169	28.7	120,277	
L2	LUMARK XTOR2B OR EQUIVALENT CROSSTOUR WALL LED FLOODLIGHT	6	EVENT CENTER EXTERIOR WALL LIGHTING SHEET EE.04	2135	18	120277	
L3	SYLVANIA 48" LUMINAIRES	10	RESTROOM AND UTILITY ROOM LIGHTING SHEET EE.02	2850	23	208	0.2600
L4	BEACON SRTT-35-4K7-SQW-UNV	12	EVENT CENTER OVERHEAD LIGHTING SHEET EE.04	4553	35	120,277	
L5	LITHONIA QTE LED P1 40K 120 FLOODLIGHT	2	LIGHTING FOR PARK ENTRANCE SIGNS SHEET EE.00	2500	25	120	
L6	LIGMAN UDE-20001-54W-T3-W40-120/277V SPD-RSS-4512-16'-4.5"125-TOP CAP	2	SPLASH PARK ENTRANCE LIGHTING SHEET EE.00	5895	40	120,277	
L7	WEEF 186-0371 186-0306	8	ART ARCH LIGHTING SHEET EE.00	2192	23.5	120,277	.0225
\{\text{L8}\}	LIGMAN UHA-60385-8W-W-W40-120/277V	4	MAIN ART ARCH LIGHTING SHEET EE.00	733	8	120,277	
£L9	LIGMAN ULI-10021-29W-T3-W40-120/277V	2	PARKING LOT LIGHTING SHEET EE.00	3164	27.7	120,277	
L10	LITHONIA CONTRACTOR SELECT ECRG RD M6 EMERGENCY EXIT SIGN	8	EXIT LIGHTING FOR EVENT CENTER, SHEETS EE.02 AND EE.04	1FC, AVG	2	120, 277	.03, .02















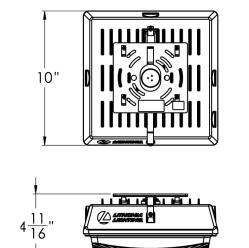
QTE LED is a family of cost effective, energy efficient floodlights. These are the ideal replacements for up to 500W Quartz Halogen floodlights, and deliver energy savings of up to 85% with over 10 years of service life. QTE LED floodlights are great for illuminating yards, driveways, buildings, billboards and signage, and for general flood lighting.

EXAMPLE: QTE LED P1 40K 120 THK DDB

QTE LED Rev. 06/16/22 Page 1 of 2

DIMENSIONS		ESCUT	TCHEON PLATES	
12W, 18W, 26W 5-3/4" [146mm] 38W 6-5/8" [168mm]	12W, 18W, 26W 6-3/4" [171mm] 38W 8" [203mm] 12W, 18W, 26W 3-5/8" [92mm] 38W 4" [102mm]	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0' 10' (254mr

L2 OVER-DOOR LIGHT DETAIL SCALE: NONE





P1 2,500 lumens, 25W1 40K 4000K* **120** 120 Volts DDB Dark bronze YK Yoke mount² *Nominal correlated color temperature per ANSI C78-377-2015 1. QTE LED P1 version, can be used for submission to Title 24 applications. **FEATURES & SPECIFICATIONS** INTENDED USE QTE LED is suitable for replacing up to 500W Quartz Halogen. It is ideal for landscape, signage, INSTALLATION Mounts easily to junction box or under building cave. Suitable for ground mount applications. CONSTRUCTION UL Certified to US and Canadian safety standards. Wet location listed. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified.Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. Can be used to comply with California Title 24 Part 6 High Efficacy LED light Source Requirements. for - 40°C to 40°C ambient temperature. Tempered glass lens is fully gasketed. S-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warrant Chip-on-board (COB) LEDs are directly coupled to and lifespan (L70 / 50,000 hrs). 6kV surge protection **Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

COMMERCIAL OUTDOOR

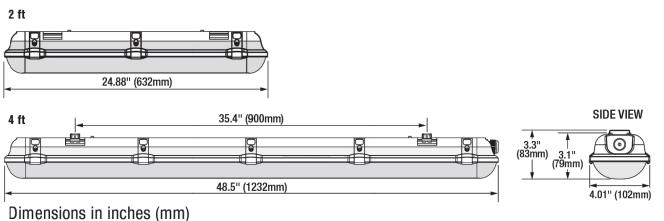
One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-705-SERV (7378) • www.lithonia.com
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L4 LUMINAIRE DETAIL

L5 PARK SIGN SPOTLIGHT DETAIL **EMERGENCY POST** SCALE: NONE







Specifications

Weight: 2 ft: 2.5 lbs. (1.2 kg)

4 ft: 4.8 lbs (2.2 kg) Standard 5.5 lbs (2.5 kg) Emergency

5.1 lbs (2.3 kg) Sensor 5.8 lbs (2.6 kg) Sensor and Emergency

Construction: One-piece polycarbonate housing with one-piece polycarbonate lens and stainless steel clips. The standard color is gray.

LED System: LED system with a life rating of ≥66,000 hours (UNV) and ≥84,000 hours (HUV) at L₇₀ @25°C. Luminaire efficacy up to 140 LPW.

Electrical: Offered in 25, 40 and 50 Watts, the luminaire is designed to operate through the 120V-277Vac universal voltage and 347-480Vac high universal voltage range. The LED driver has a 2.5kV inherent surge suppression and is a constant current device, meeting UL1310 and UL48 Class 2 with built-in over temperature protection. The power factor is \geq 90% and THD is \leq 20%.

Dimming: The driver is 0-10V dimmable (down to 6%). Please reference the dimmer compatibility document (LEDLUM012).

Color Characteristics: CRI>80; CCT of 4000K or 5000K.

Optics: Type V distribution with a clear etched polycarbonate lens.

Installation: Luminaire mounts to recessed outlet box or can be surface or chain mounted (chain not included). Connector available for tandem wiring. External controls can be added through existing knockouts.

Operating Temperature: $-40^{\circ}F$ to $+104^{\circ}F$ ($-40^{\circ}C$ to $+40^{\circ}C$); EM: $+14^{\circ}$ F to $+104^{\circ}$ F (-10° C to $+40^{\circ}$ C).

Listings: cULus listed to UL1598 standards for wet locations and IP65 rated. **Warranty:** Standard 5-year luminaire warranty (LEDLUM001). **Note:** Specifications subject to change without notice. IES files available online.

L3 INTERIOR LUMINAIRE DETAIL



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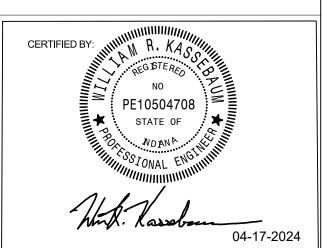
CLIENT / OWNER CITY OF TERRE HAUTE

PROJECT NAME HERZ ROSE PARK

PROJECT LOCATION 1515 Locust St. Terre Haute, IN

SIMS-DURKIN ASSOCIATES ENGINEERING COMPANY

5755 WEST 74TH STREET INDIANAPOLIS, INDIANA 46278 PHONE: 317-209-4035 FAX: 317-222-4120 WEB: WWW.SIMS-DURKIN.COM SDA PROJECT NUMBER: 2023123



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NO.	REVISION	DATE
2	ADDENDUM #2	08.14.2024
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ISSUE I		PROJECT NUMBER 23-005
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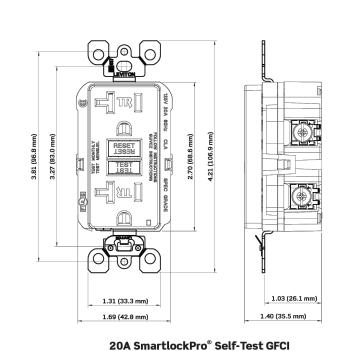
SHEET NAME

ELECTRICAL DETAILS

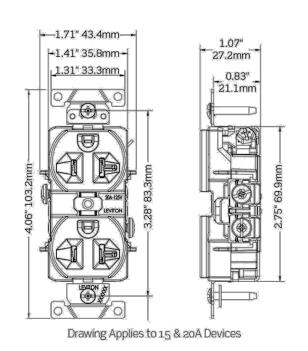
SHEET NUMBER



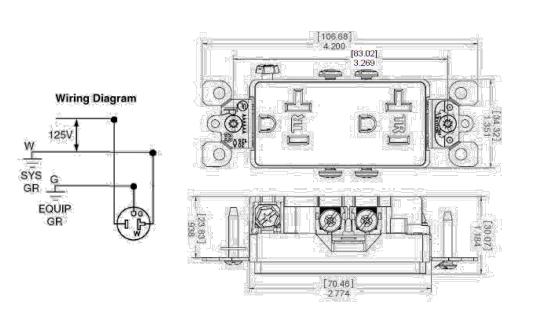
OUTDOOR RECEPTACLE DETAIL



(A) INDOOR GFCI RECEPTACLE DETAIL



(A) INDOOR RECEPTACLE DETAIL



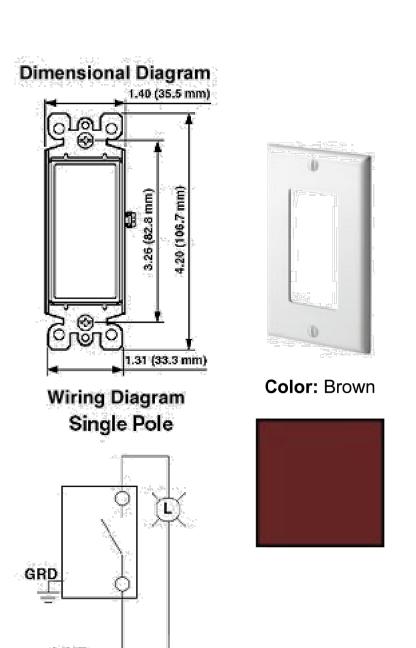
A TAMPER RESISTANT RECEPTACLE DETAIL
SCALE: NONE



WEATHERPROOF RECEPTACLE COVER DETAIL
SCALE: NONE

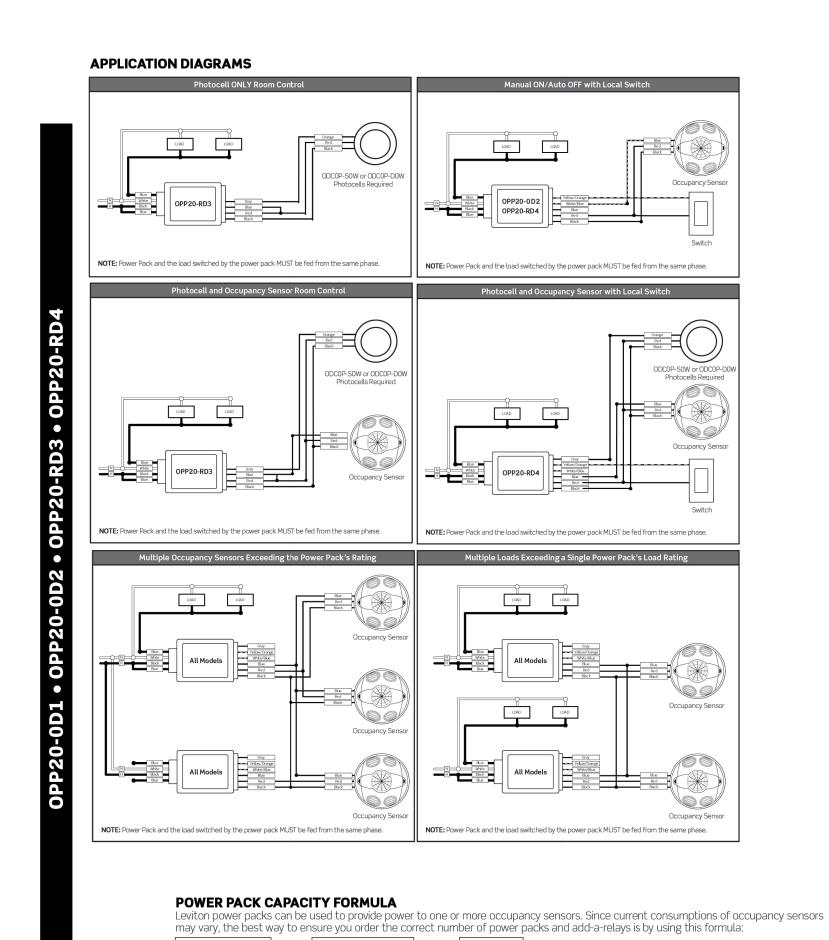
LEVITON®

PRODUCT DATA

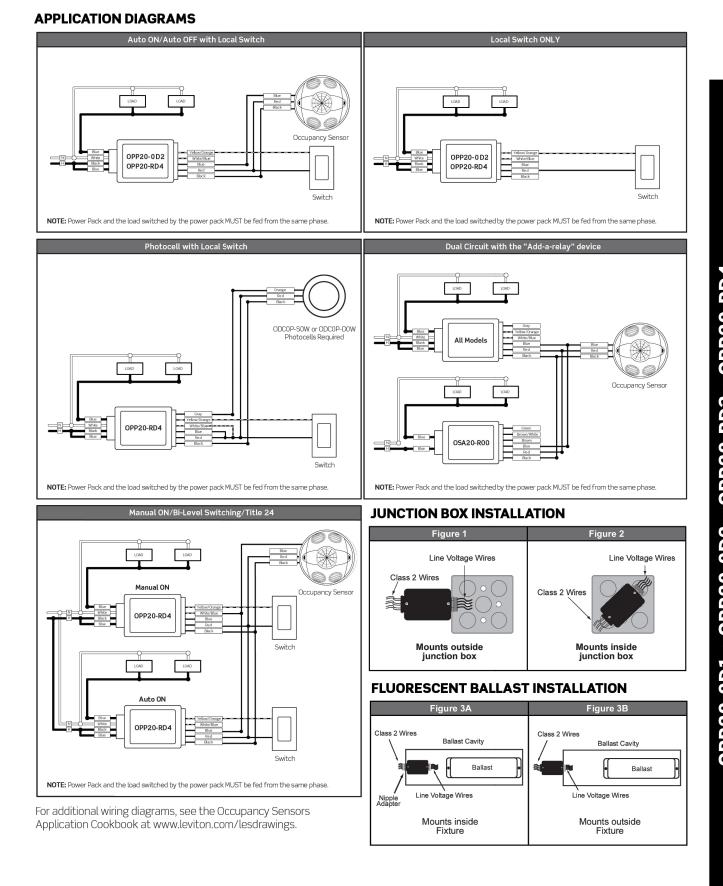


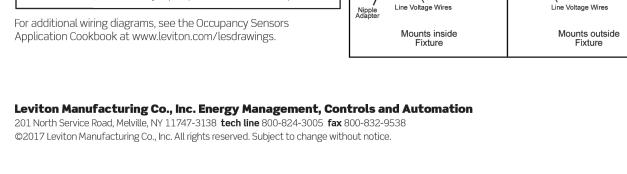
(A) LIGHT SWITCH DETAILS
SCALE: NONE

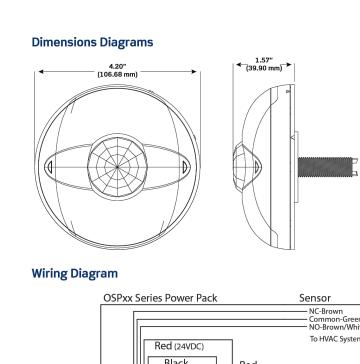
NEUTRAL

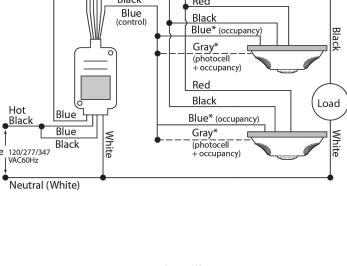


Device a make a star to a star below about		
Power supply output per below chart	DESCRIPTION	CURRENT CONSUMPTION
	OSC04-I, OSC15-I, OSWHB-I, OSWLR-I, OSWWV-I	10-15mA
MODEL OPPORTOR POWER PACK MAN I POWER PA	OSC05-M, OSC05-U, OSW12-M	25mA
A common and the process of the proc	OSC10-M, OSC10-U	35mA
Author State Control of the Contro	OSC20-M, OSC20-U	30mA
Management of the desiration was been asked as a service as account as a contract as a	OSA20-R Add-a-Relay	50mA
	ODCOP-SOW Switching Photocell	10mA
	ODCOP-DOW Dimming Photocell	10mA











OCCUPANCY MONITOR DETAILS
SCALE: NONE

OCCUPANCY MONITOR CONTROL SWITCH DETAILS

GENERAL ELECTRICAL NOTES:

A. SEE CEDAR FOREST FIXTURE PACKAGES FOR PRODUCT DETAILS

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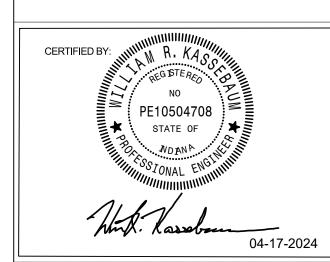
CLIENT / OWNER CITY OF TERRE HAUTE

PROJECT NAME HERZ ROSE PARK

PROJECT LOCATION 1515 Locust St. Terre Haute, IN 47807

SIMS-DURKIN ASSOCIATES **ENGINEERING COMPANY**

5755 WEST 74TH STREET INDIANAPOLIS, INDIANA 46278 PHONE: 317-209-4035 FAX: 317-222-4120 WEB: WWW.SIMS-DURKIN.COM SDA PROJECT NUMBER: 2023123



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2	ADDENDUM #2	08.14.2024
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KEYMAP:

ISSUE DATE PROJECT NUMBER

23-005

04.17.2024

SHEET NAME ELECTRICAL DETAILS CONT

SHEET NUMBER

EE.08

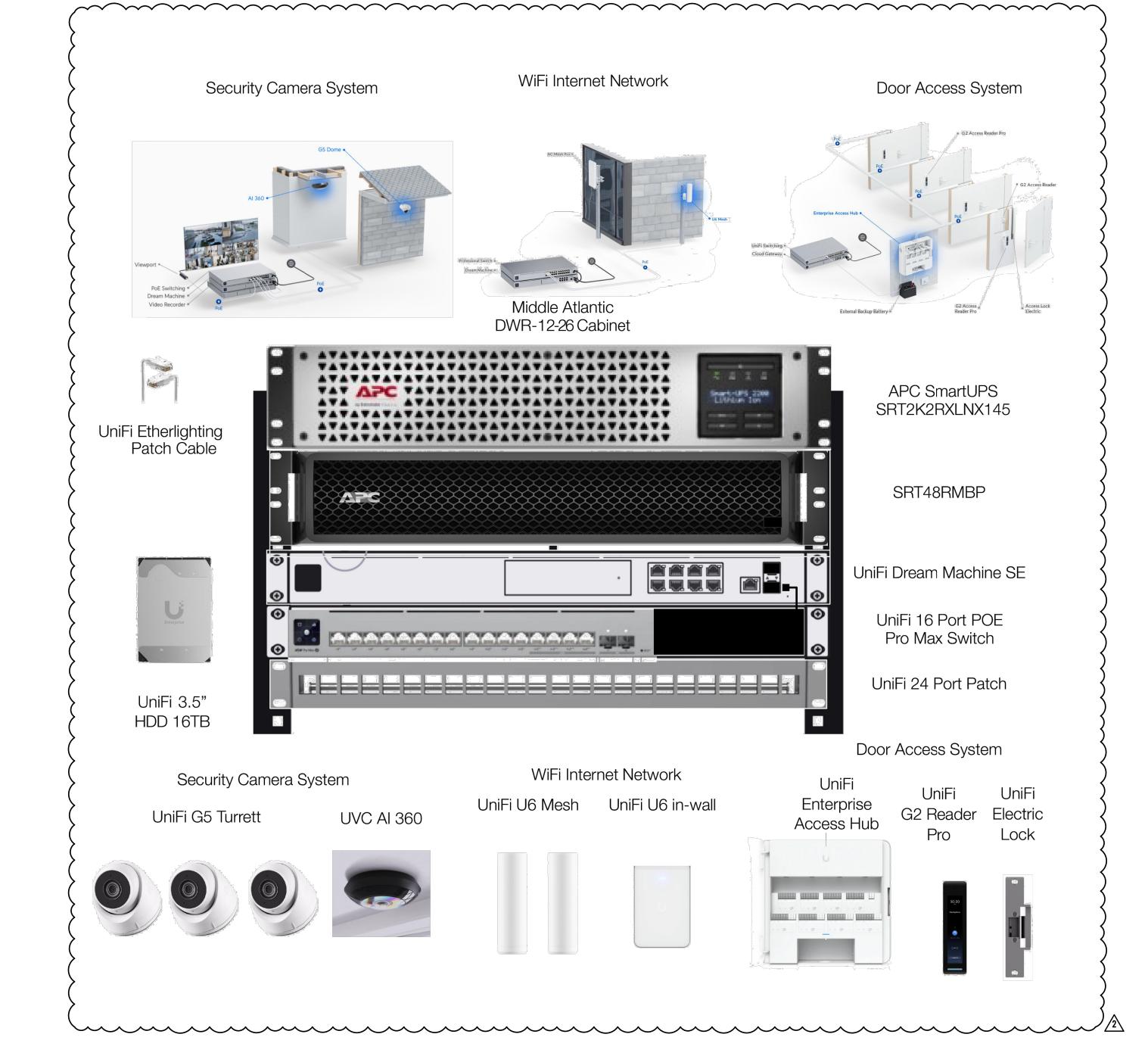
ELECTRICAL DETAILS CONT

NO SCALE



(A) HAND DRYER DETAIL

SCALE: NONE



NETWORK DETAILS

GENERAL ELECTRICAL NOTES:

A. SEE CEDAR FOREST FIXTURE PACKAGES FOR PRODUCT DETAILS.

B. NETWORK CABINET AND EQUIPMENT SHOWN
ARE THE BASIS OF DESIGN. IT CONTRACTOR
SHALL PROVIDE AS SPECIFIED OR APPROVED
EQUAL. FINAL EQUIPMENT, CABINET, AND
DESIGN ARE THE RESPONSIBILITY OF THE IT
CONTRACTOR. DESIGN DRAWINGS SHALL BE
SUBMITTED TO ENGINEER FOR REVIEW &
APPROVAL.

Land Stewards
Design Group

Planning Civil Landscape
5022 ROCKVILLE ROAD
INDIANAPOLIS, IN 46224
LANDSTEWARDSDG.COM

CLIENT / OWNER

CITY OF TERRE HAUTE

PROJECT NAME

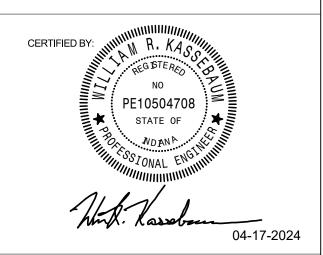
HERZ ROSE PARK

PROJECT LOCATION

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Terre Haute, IN
47807

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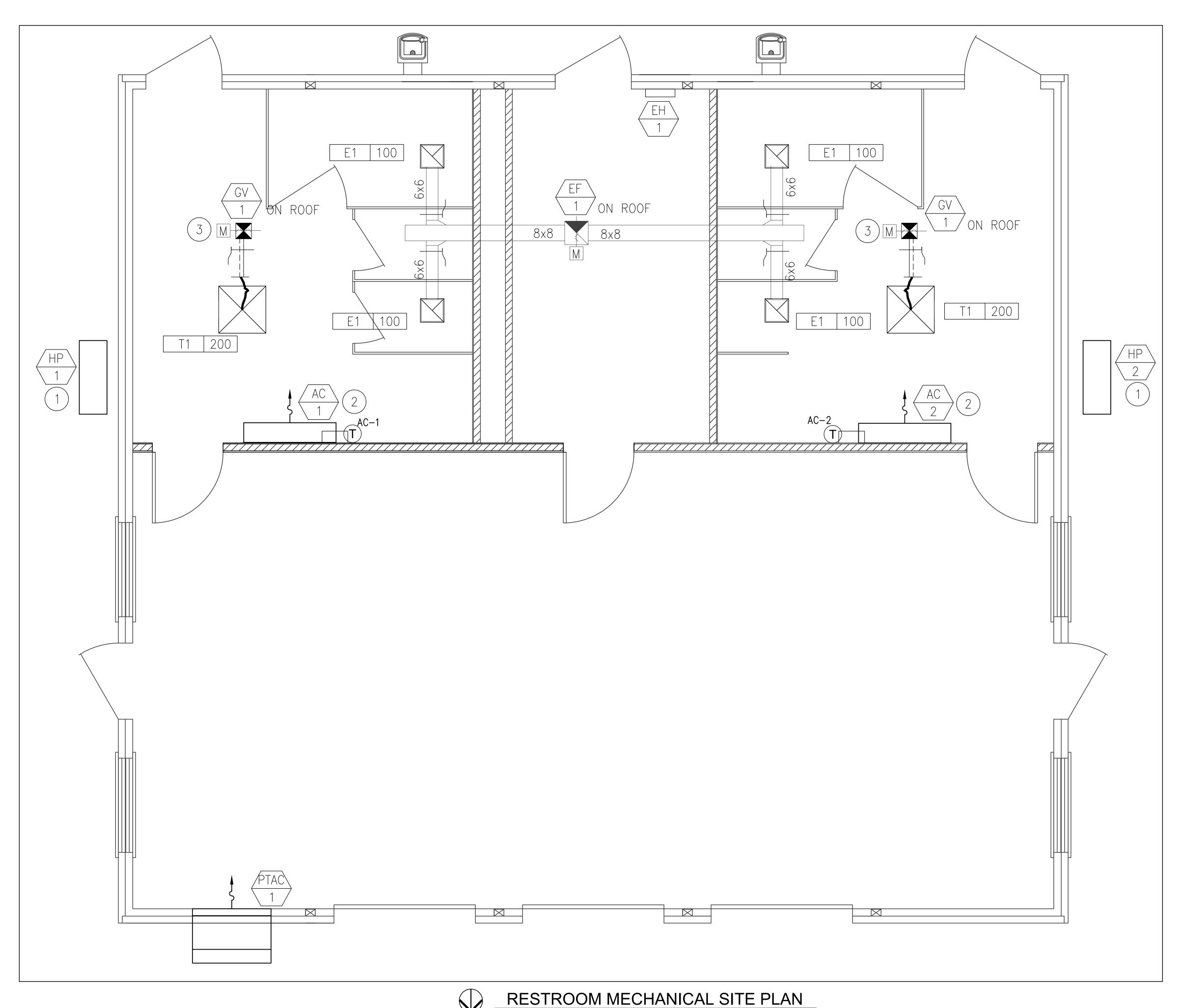
SHEET NAME

ELECTRICAL DETAILS
CONT
SHEET NUMBER

EE.09

ELECTRICAL DETAILS CONT

NO SCALE



NEW WORK GENERAL NOTES:

- CONTRACTOR'S BID SHALL PROVIDE A COMPLETE AND WORKABLE SYSTEM.
- THIS CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES.
- DUCTWORK BRANCHES LEADING TO DIFFUSERS SHALL BE SIZED ACCORDING TO ASSOCIATED DIFFUSER NECK SIZE; REFER TO AIR INLET & OUTLET SCHEDULE ON MECHANICAL SCHEDULES SHEET FOR ALL DIFFUSER NECK SIZES.
- WORK SCOPE INCLUDES BALANCING OF AIR SYSTEMS TO CFM'S INDICATED ON PLANS.
- LOCATE ALL UNITS TO ENSURE ACCESS TO FILTER.
- PATCH AND PAINT ANY WALL AFFECTED BY NEW WORK TO MATCH EXISTING SURROUNDINGS.
- r/D = 1.5 DUCT ELBOWS ARE PREFERRED ON SUPPLY DUCT AND SHALL BE INSTALLED WHEREVER SPACE PERMITS.
- WHERE ROUTING TSTAT CABLES THROUGH DRYWALL STUD WALLS, TSTAT CABLING SHALL BE RUN THROUGH WALL CAVITY. WHERE TSTATS ARE MOUNTED ON BLOCK OR BRICK WALLS, WIREMOLD MAY BE USED FOR TSTAT MOUNTING.
- ALL DUCT DIMENSIONS ARE CLEAR, INSIDE DIMENSIONS.
- HVAC EQUIPMENT SHALL NOT INTERFERE WITH ACCESS TO LIGHTING OR OTHER ELEMENTS THAT REQUIRE ACCESS.
 WHERE INTERFERENCES OCCUR, CONTRACTOR SHALL COORDINATE RELOCATION WITH ENGINEER.

REFERENCE NOTES:

- MOUNT HEAT PUMP UNIT ON CONCRETE PAD. PAD SHALL EXTEND MINIMUM 6" BEYOND UNIT IN EVERY DIRECTION. COORDINATE FINAL PAD SIZING WITH FINAL UNIT SELECTION SUBMITTAL. COORDINATE LOCATION OF UNIT WITH REQUIRED UNIT CLEARANCES PER MANUFACTURER. COORDINATE WITH ENGINEER IF RELOCATION IS REQUIRED. UNIT MAY BE MOUNTED ON WALL INSTEAD OF GROUND AT OWNER'S OPTION AND DEPENDENT ON UNIT CLEARANCES. COORDINATE WITH OWNER AND CONTRACTORS.
- 2) TIE 3/4" PVC CONDENSATE TO SINK DRAIN LINE. TRAP AT CONNECTION.
- 3 GV-1 MOTORIZED DAMPER SHALL BE JUST BELOW ROOF LINE. DAMPER SHALL BE FULLY OPEN WHEN EXHAUST FAN IS ACTIVE AND FULLY CLOSED WHEN FAN IS INACTIVE.



Planning Civil Landscape
5022 ROCKVILLE ROAD
INDIANAPOLIS, IN 46224

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CLIENT / OWNER

CITY OF TERRE HAUTE

PROJECT NAME

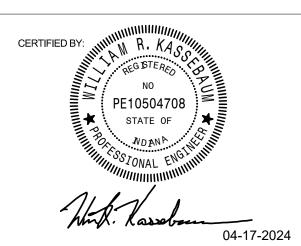
HERZ ROSE PARK

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ISSUE DATE 04.17.2024

PROJECT NUMBER 23-005

SHEET NAME

SHEET NUMBER

RESTROOM MECHANICAL SITE PLAN

ME.00

1. COMPACT ALL FILL TO 95% OF ITS MAXIMUM DENSITY AS MEASURED BY THE MODIFIED PROCTOR METHOD. USE MECHANICAL COMPACTOR.

2. WELDED STEEL WIRE FABRIC SHALL BE ASTM A185.

3. FURNISH ACCESSORIES IN ACCORDANCE WITH LATEST EDITION OF A.C.U. DETAILING MANUAL. A.C.U. GUIDELINES AND RECOMMENDATIONS SHALL BE FOLLOWED WHILE FORMING AND POURING CONCRETE.

4. THOROUGHLY CLEAN PAINT, SEALERS, OIL AND CHEMICALS. SCARIFY EXISTING SURFACES TO ACCEPT NEW EQUIPMENT PADS. APPLY BONDING COMPOUND.

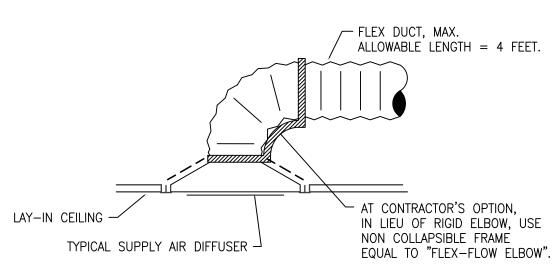
5. CONCRETE SHALL BE 4000 PSI, 28 DAY COMPRESSIVE STRENGTH, WITH MAXIMUM WATER—CEMENT RATIO OF 0.44 (NON AIR-ENTRAINED).

6. SLUMP LIMITS FOR FOUNDATION SYSTEMS SHALL BE NOT LESS THAN 1 INCH AND NOT MORE THAN 3 INCHES. SLUMP LIMITS FOR SLABS SHALL BE NOT MORE THAN 3 INCHES.

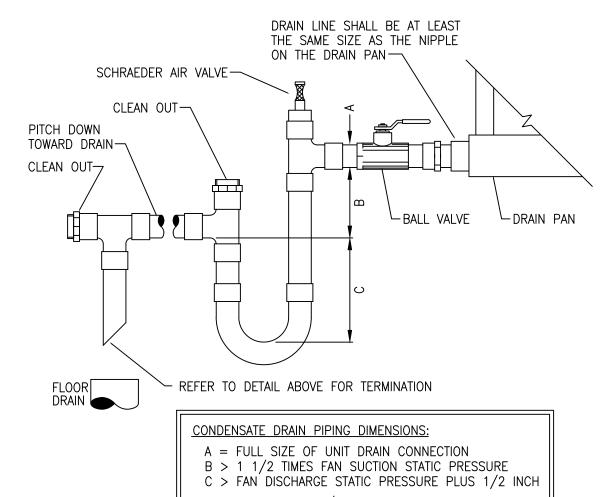
7. EQUIPMENT PADS SHALL EXTEND A MINIMUM OF 6 INCHES BEYOND THE LIMITS OF THE EQUIPMENT TO BE PLACED ON THOSE PADS, UNLESS NOTED OTHERWISE ON THE PLANS.

CONCRETE EQUIPMENT PAD SPECIFICATIONS

ME.01 / SCALE: NONE







	COORDINATE MOUNTING/CURB HEIGHT AS REQUIRE PROVIDE PROPER CONDENSATE DRAINAGE.
4	CONDENSATE DRAIN TRAP DETAIL
ME.01 /	SCALE: NONE

							F	AN SCHED	ULE								
	MODEL			DESIGN	FAN	E.S.P.	SOUND	DRIVE			EL	ECTRICAL DATA					
MARK	NUMBER	LOCATION	ON I SERVING I AIRFLOW I I I I I I I	TYPE		MOTOR		STARTER/VFD	DISCONNECT	CONTROL	ACCESSORIES	MARK					
				(CFM)		(*** **==*)	(=	HP	VOLTS	PHASE						
EF-1	CUE-100-C	ROOF	BLDG	400	860	0.25	1.1	DIRECT	1/8	208/230	1	STARTER	MFR	4	1, 3, 5, 14	EF-1	
	CONTROL:						ACCESSOF	RIES / OPTIONS:									
1. SW	1. SWITCH 1			FT DAMPER		9. CURB MOUNT ROOF JACK				17. F	AN GUAR	D / SCREEN	25. CURB ADAPTER				
2. EM	IS		2. THERMOS	TAT		10. W	ALL COLLAR			18. FI	LTERS						
3. SF	PACE THERMOSTAT		3. BIRD SCF	3. BIRD SCREEN 11. WALL SHUTTER							19. COMPANION FLANGES						
4. 00	CCUPANCY SENSOR		4. INSECT S	CREEN		12. W	ALL SHUTTER	MOTORIZED		20. H	INGED F	RAMES					
5. CC) SENSOR		5. ROOF CU	IRB		13. W	13. WALL CAP 21. INSULATED HOUSING FOR SOUND CONTROL										
6. PR	RESSURE SENSOR		6. WEATHER	COVER		14. M	OTORIZED DAN	IPER .	22. SPARK / EXPLOSION PROOF								
7. RE	FRIGERANT LEAK / OCC	SENSOR	7. VIBRATION	N ISOLATORS		15. SF	PEED CONTRO	LLER		23. C	HEMICAL	RESISTANCE					
	8. EQUIPMENT SUPPORTS 16. 2 SPEED / 1 WINDING					WINDING	24. HIGH TEMPERATURE										
<u>NO</u>	TES: 1. BASIS OF DESIG	N: GREENHECK															

ECTRIC HEATER SCHEDULE	ECTRIC HI	EL
MODEL CEM ELECTRICAL DATA	MODEL	MADIC
MODEL CFM WATTAGE VOLTS PHA	MODEL	MARK
3320 175 3000 W 208 1	3320	EH-1

2. FAN SHALL ACTIVATE AND ASSOCIATED MOTORIZED DAMPER SHALL FULLY OPEN ON OCCUPANCY SENSOR ACTIVATION.

FAN SHALL DEACTIVATE AND MOTORIZED DAMPER SHALL CLOSE 15 MINUTES AFTER OCCUPANCY SENSOR DEACTIVATES.

— METAL FRAME WOOD NAILER WITH INSULATION NOM. 2x4 — COUNTERFLASHING FASTENED APPROX. 18" - FASTENERS APPROX. 8" O.C. ROOF MEMBRANE ALTERNATIVE FRAME LOCATION FOR HEAVY LOADS — 14" NOM. MFG. HT — FASTEN WOOD BLOCKING TO METAL DECK WITH
MECHANICAL FASTENERS ——

5. PROVIDE W/ LOW AMBIENT CONTROL.

WIRE INDOOR UNIT FROM OUTDOOR UNIT.

6. SINGLE POINT ELE CONNECTION TO OUTDOOR UNIT. DIV. 26 SHALL

						PAC	KAG	ED	TERMINAL A	AIR C	ONDI	TIONING S	CHEDULE					
MARK	MODEL NUMBER	DESCRIPTION	LOCATION	MOUNTING	DESIGN AIRFLOW (CFM)	MIN. OA (CFM)	EER	COP	HEAT PUMP REVERSE HEATING MBH	COOLIN	PUMP G (MBH) TOTAL	HEATING MBH	VOLT. PHASE	CAL DATA MCA / FAN HP		CABINET D DEPTH	MENSIONS HEIGHT	NOTES
PTAC-1	W36HY-A10	PACKAGED TERMINAL HEAT PUMP	SEE PLANS	WALL	1150	300	11.1	3.3	21.9	26.8	36.0	22.4	208/230 1	79/80 1/5	38.2"	17.125"	74.563"	NOTES 1, 2, 3, 4, 5, 6 & 7

ROOF CURB INSTALLATION DETAIL

NOTES: 1. BASIS OF DESIGN: "BARD"

- 2. UNIT SHALL BE PROVIDED WITH CORD AND PLUG. COORDINATE APPROPRIATE WALL RECEPTACLE WITH E.C.
- 3. PROVIDE WALL SLEEVE AND CONDENSATE DRAIN KIT OUT BACK OF UNIT TO DRAIN TO GRADE.
- ARCHITECTURAL WALL LOUVER BY PTAC MFR WITH COLOR SELECTION BY ARCHITECT. COORD. INSTALLATION WITH GC.
- 4. UNIT SHALL HAVE R-410A REFRIGERANT.
- 5. UNIT SHALL HAVE REMOTE DIGITAL THERMOSTAT/CONTROLS BY PTAC MANUFACTURER.
- 6. UNIT SHALL HAVE MINIMUM ENERGY EFFICIENCY EER AND COP PER INDIANA ENERGY CODE.
- 7. UNIT SHALL INCLUDE OA ECONOMIZER, INTEGRAL RELIEF, AND 10KW ELECTRIC HEATER.

	DUCTLESS SPLIT UNIT SCHEDULE																		
INDOOR UNIT									OUTDOOR UNIT						REFRIGERANT DATA				
MARK	MODEL NUMBER	SERVING	TYPE	APPROX. WEIGHT (LBS.)	AIRFL TOTAL (CFM)	O.A. (CFM)	TOTAL COOLING (MBH)	TOTAL HEATING (MBH)	MARK	MODEL NUMBER	APPROX WEIGHT (LBS.)	VOLTS	ECTRIC.		ГА МОСР	REFR. TYPE	NUMBER ZONES	LIQUID O.D. (IN.)	SUCTION O.D. (IN.)
AC-1,2	40MAQB24B3	RR'S	WALL	55	525	0	22.8	22.0	HP-1,2	25HHA424A003	161	208/230	1	16.5	25	R410A	1	BY MFR	BY MFR

NOTES: 1. BASIS OF DESIGN: CARRIER

- 2. AIRFLOWS AND FAN RPMS BASED ON LOW FAN SPEED SETTING WITH WET COIL.
- 3. DX SPLIT UNITS SHALL INCLUDE FACTORY SUPPLIED WIRELESS WALL-MOUNTED REMOTE THERMOSTAT. FINAL THERMOSTAT LOCATION TO BE DETERMINED BY ENGINEER.
- 4. DX SPLIT UNITS SHALL INCLUDE LONG LINE LENGTH SET AS REQUIRED BY UNIT MANUFACTURER. FINAL LINE SIZES TO BE BY UNIT MANUFACTURER.

REMOVABLE COVER FOR ACCESS TO FAN
MOTOR ELECTRICAL DISCONNECT BIRDSCREEN
SPONGE RUBBER PAD (VIBRATION ISOLATION)
FACTORY PREFABRICATED CURB
THERMAL & ACOUSTICAL
INSULATION ROOF CONSTRUCTION
BACKDRAFT DAMPER OR MOTORIZED DAMPER. SEE FAN SCHEDULE.

(1)	ROOF MOUNTED EXHAUST FAN DETAIL
ME.01	SCALE: NONE

79/80	1/5	38.2"	17.125"	74.563"	NOTES 1, 2, 3, 4, 5, 6 & 7	
GENERA	L NOTES	<u>:</u> • REV.	HEATING	CAPACITY	BASED ON 20° F OUTDOOR DRY BULB TEMP.	

S1/T1

COOLING CAPACITY BASED ON 95° F OUTDOOR DRY BULB

· - · · · · ·
VERIFY/COORDINATE CABINET/SLEEVE DIMENSIONS,
MOUNTING, MOUNTING HEIGHT, & RECESS REQUIREMENTS WITH
ARCHITECTURAL DWGS. PRIOR TO ORDERING.

	AIRFLOW RANGE (CFM)	NECK SIZE (INCHES)	FACE SIZE (INCHES)	THROW (FEET)	S.P. (IN.)	MOUNTING	MANUFACTURER	MODEL	
	0 - 200	6"Ø	24 x 24	4	0.003	LAY-IN/SURFACE	PRICE	ASPD	
	201 - 300	8"Ø	24 x 24	6	0.053	LAY-IN/SURFACE	PRICE	ASPD	
	301 - 450	10"Ø	24 x 24	7	0.096	LAY-IN/SURFACE	PRICE	ASPD	
	451 - 625	12"Ø	24 x 24	8	0.126	LAY-IN/SURFACE	PRICE	ASPD	
	626 - 800	14"Ø	24 x 24	10	0.186	LAY-IN/SURFACE	PRICE	ASPD	
R1	PERFORATED RETU	JRN GRILLE.	ALUMINUM CC)NSTRUC	TION.				
	AIRFLOW RANGE NECK SIZ		FACE SIZE		S.P.	MOUNTING	MANUIFACTURER	MODEL	
l	(CFM)	(CFM) (INCHES) (INCHES))	(IN.)	MOUNTING	MANUFACTURER	MIODEL	
Í			0 - 1500 22 x 22 24 x 24			1			
		22 x 22	24 x 24	-	0.07	LAY-IN	PRICE	PDR	
E1		 T GRILLE. PROVIDI I OPENINGS IN PLE	 E WITH PLENUM BO	OX.		LAY-IN	PRICE	PDR	
	0 - 1500 PERFORATED EXHAUS' PROVIDE CONNECTION	 T GRILLE. PROVIDI I OPENINGS IN PLE	 E WITH PLENUM BO	OX. DWN ON PL					
E1	0 - 1500 PERFORATED EXHAUS' PROVIDE CONNECTION ALUMINUM CONSTRUC'	 T GRILLE. PROVIDI I OPENINGS IN PLE TION.	LEWITH PLENUM BO	OX. DWN ON PL	ANS.	LAY-IN MOUNTING	PRICE	PDR MODEL	

NOTES: 1. AIR DISTRIBUTION DEVICES LOCATED WITHIN ACOUSTICAL TILE CEILINGS SHALL BE PROVIDED WITH A 24"x24" FACE AND A BORDER FOR LAY-IN MOUNTING. AIR DISTRIBUTION DEVICES LOCATED WITHIN GYPSUM BOARD CEILINGS OR WALLS SHALL BE PROVIDED WITH BORDER FOR SURFACE MOUNTING. REFER TO ARCHITECTURAL DOCUMENTS FOR CEILING TYPES.

2. AIR DISTRIBUTION DEVICES LOCATED IN SMALL ROOMS WHERE FULL 24"x24" GRIDS ARE NOT AVAILABLE SHALL BE PROVIDED WITH SURFACE MOUNTING BORDERS IN LIEU OF LAY-IN. SECURE EACH DEVICE TO CEILING GRID WITH FIELD FABRICATED

3. ALL CEILING SUPPLY DIFFUSERS SHALL HAVE 4-WAY THROW, U.N. ON PLANS. PROVIDE FACTORY INSTALLED BLANK OFFS

FOR 1, 2, OR 3-WAY THROWS AS INDICATED ON PLANS. 4. DIFFUSER THROWS BASED ON 50 FPM TERMINAL VELOCITY.

WEIGHT

(LBS.)

CFM

200

2. AIR PRESSURE DROPS SHOWN ARE MAXIMUM.

NOTES: 1. BASIS OF DESIGN: GREENHECK. SEE SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.

AIR INLET & OUTLET SCHEDULE

DESCRIPTION

MODEL

FGI

4-WAY PLAQUE SUPPLY DIFFUSER.

FRAME TYPE 31 WITH INSULATED BACKPAN.

GV-1

Planning Civil Landscape 5022 ROCKVILLE ROAD INDIANAPOLIS, IN 46224

LANDSTEWARDSDG.COM

CLIENT / OWNER

CITY OF TERRE HAUTE

PROJECT NAME

HERZ ROSE PARK

PROJECT LOCATION

1515 Locust St. Terre Haute, IN 47807

MARK

GV-1

NOTES: 1. BASIS OF DESIGN: MARKEL. SEE SPECIFICATIONS FOR

2. PROVIDE INTEGRAL FACTORY INSTALLED THERMOSTAT.

5. UNIT SHAL BE RECESSED IN WALL. COORDINATE WITH GC.

INTAKE

ALTERNATE MANUFACTURERS

3. PROVIDE FACTORY DISCONNECT.

ROOF MOUNTED GRAVITY VENTILATOR SCHEDULE

HEIGHT

(IN.)

26

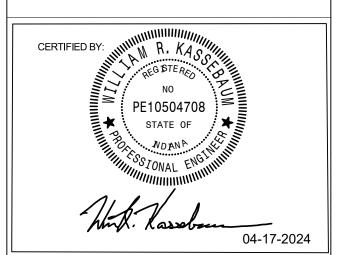
4. PROVIDE AUTOMATIC THERMAL RESET.

(IN. H20)

0.15

SIMS-DURKIN ASSOCIATES ENGINEERING COMPANY

5755 WEST 74TH STREET INDIANAPOLIS, INDIANA 46278 PHONE: 317-209-4035 FAX: 317-222-4120 WEB: WWW.SIMS-DURKIN.COM SDA PROJECT NUMBER: 2023123



BID SET

ENDUM #2	08.14.2
	ENDUM #2

PROJECT NUMBER

23-005

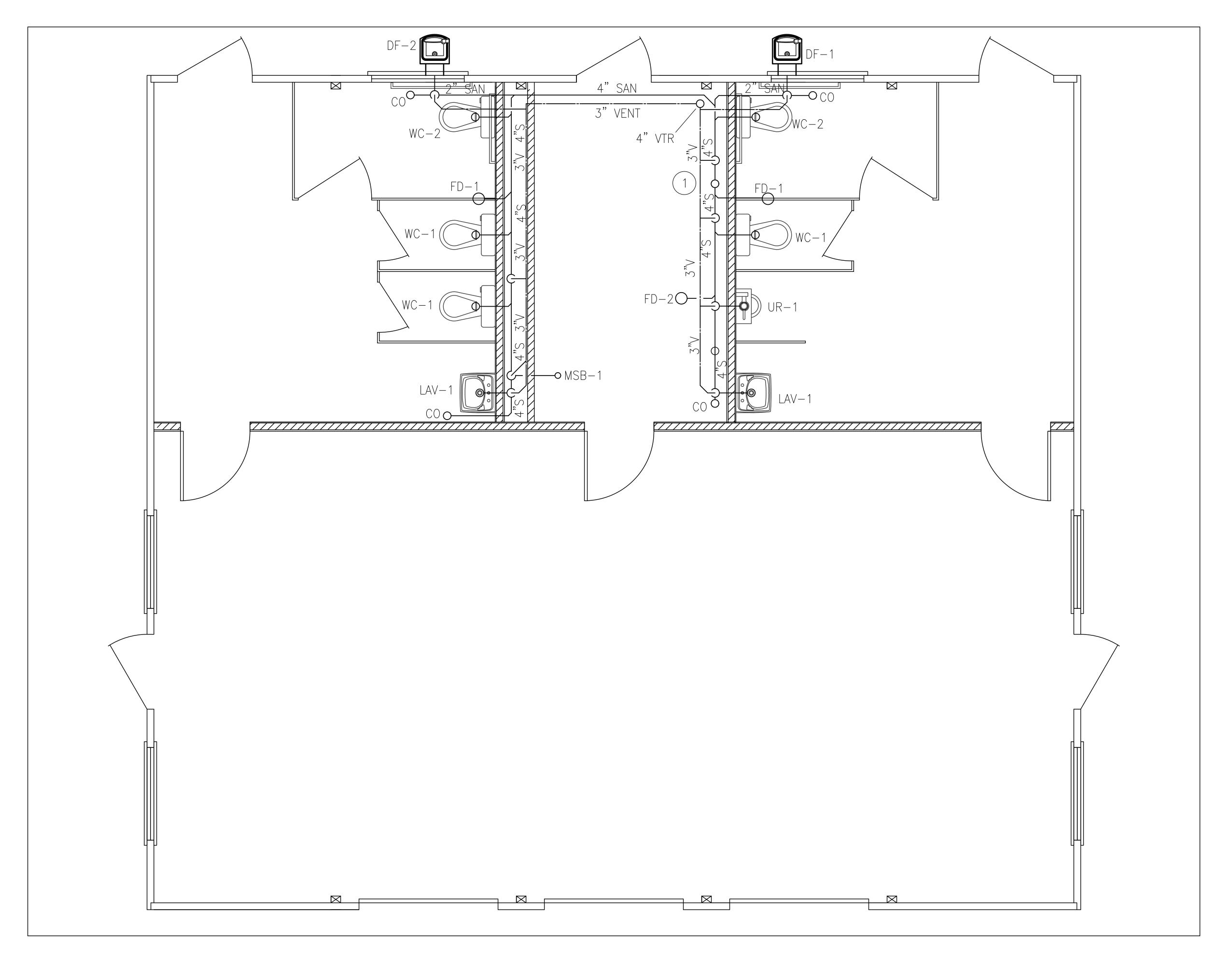
SHEET NAME

ISSUE DATE 04.17.2024

> MECHANICAL SCHEDULES AND

> > **DETAILS**

SHEET NUMBER



REFERENCE NOTES:

1) RISER CONNECTION TO SITE SANITATION SOURCE LINE. COORDINATE EXACT LOCATION AND CONNECTION WORK WITH OTHER TRADES.





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CLIENT / OWNER

CITY OF TERRE HAUTE

PROJECT NAME

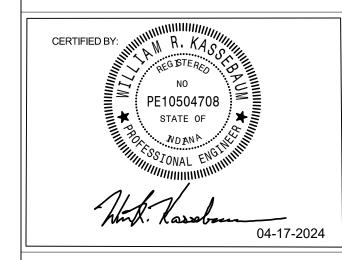
HERZ ROSE PARK

PROJECT LOCATION

1515 Locust St.
Terre Haute, IN
47807

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SDA PROJECT NUMBER: 2023123



BID SET

NO.	REVISION	DATE
2	ADDENDUM #2	08.14.2024

KEYMAP:

ISSUE DATE 04.17.2024

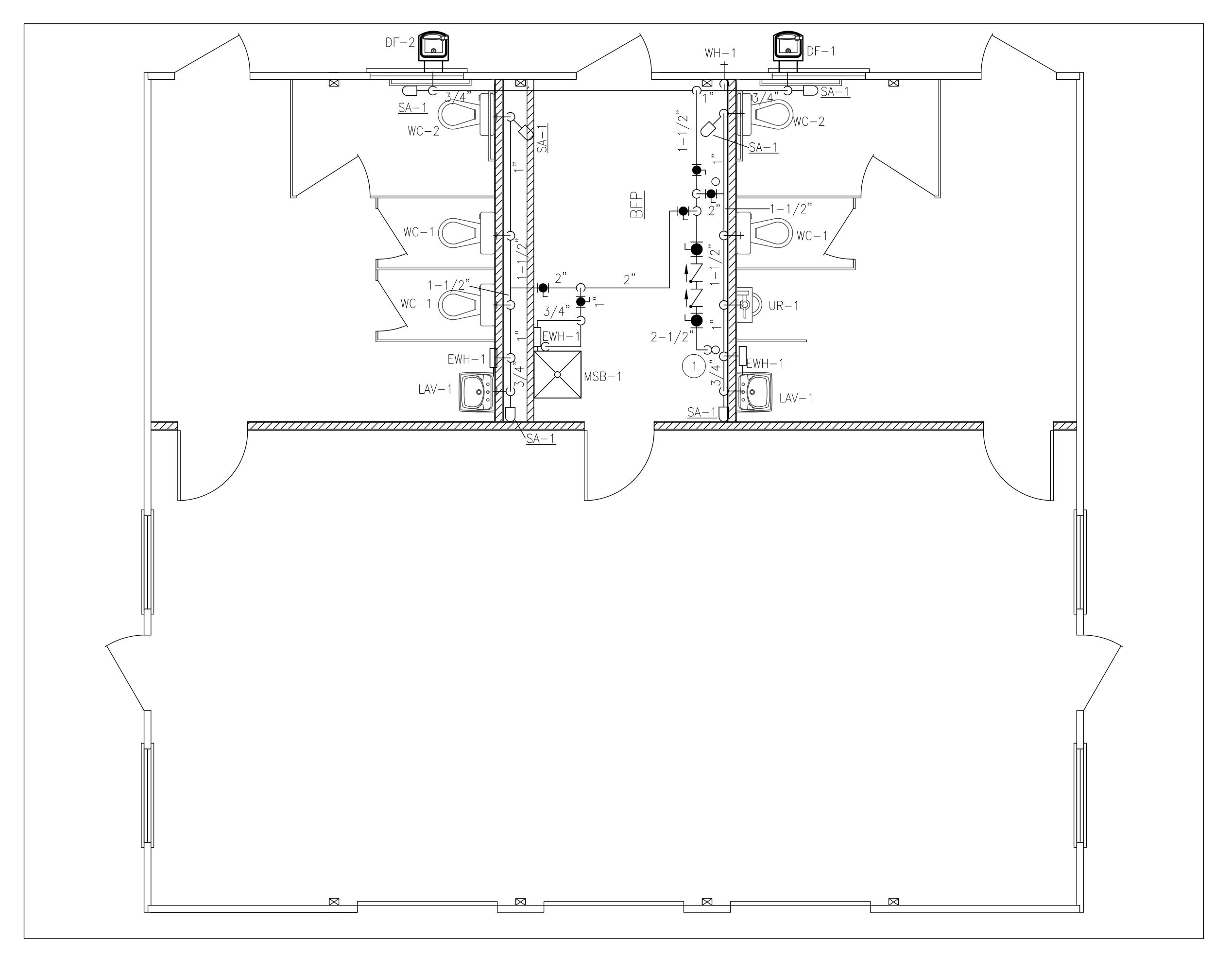
PROJECT NUMBER 23-005

SHEET NAME

RESTROOM WATER SANITATION SITE PLAN

SHEET NUMBER

PL.00



REFERENCE NOTES:

RISER CONNECTION TO SITE WATER SOURCE. COORDINATE EXACT LOCATION AND CONNECTION WORK WITH OTHER TRADES.





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CLIENT / OWNER

CITY OF TERRE HAUTE

PROJECT NAME

HERZ ROSE PARK

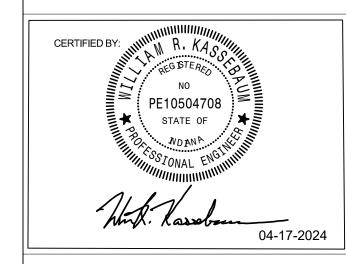
PROJECT LOCATION

1515 Locust St.
Terre Haute, IN
47807

SIMS-DURKIN ASSOCIATES

ENGINEERING COMPANY

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NO.	REVISION	DATE
2	ADDENDUM #2	08.14.2024

 ISSUE DATE
 PROJECT NUMBER

 04.17.2024
 23-005

SHEET NAME

KEYMAP:

RESTROOM WATER SUPPLY SITE PLAN

SHEET NUMBER

PL.01

PLUMBING GENERAL NOTES

- 1. PLUMBING DRAWINGS ARE DIAGRAMMATIC IN NATURE AND REPRESENT CONCEPTUAL ROUTING ONLY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS.
- 2. WORK INCLUDES FURNISHING ALL LABOR, MATERIALS, APPLIANCES, EQUIPMENT, TOOLS, TRANSPORTATION, SUPERINTENDENCE, CLEAN-UP, AND SERVICES REQUIRED TO CONSTRUCT AND INSTALL A COMPLETE AND FULLY OPERATIVE PLUMBING SYSTEM FOR THE PROJECT.
- 3. INSTALL ALL PLUMBING WORK IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, ALL ADA AND ACCESSIBILITY LAWS AND REGULATIONS, AND ALL AUTHORITIES HAVING JURISDICTION.
- 4. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF ALL FEES, PERMITS, TAP-INS, APPROVALS, AND INSPECTIONS.
- 5. UNLESS OTHERWISE SPECIFIED, ALL FAUCETS, SUPPLIES AND STOPS, TRAPS, WASTES, STRAINERS, AND ESCUTCHEONS, SHALL BE CHROME PLATED BRONZE, BRIGHT CHROME FINISH.
- 6. TEST ALL PIPING AS REQUIRED BY STATE AND LOCAL PLUMBING CODES. TEST ALL NEW WATER PIPING TO 150 PSI FOR A MINIMUM OF 24 HOURS.
- 7. DISINFECTION AND STERILIZATION OF THE SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH ALL RULES AND REGULATIONS OF THE STATE BOARD OF HEALTH.
- 8. FURNISH ALL CERTIFICATES OF APPROVALS BY THE PLUMBING INSPECTOR AND BOARD OF HEALTH.
- 9. INSULATE ALL WATER PIPING AND CONDENSATE DRAIN LINES WITH A MINIMUM OF 1" THICK GLASS FIBER INSULATION WITH VAPOR BARRIER JACKETS.
- 10. INSTALL UNIONS DOWNSTREAM OF VALVES AND AT ALL FIXTURES, EQUIPMENT, AND APPARATUS LOCATIONS FOR ALL PIPING FEEDS.
- 11. NOT USED.
- 12. ALL HOT WATER SUPPLY LINES SERVING ALL HAND WASHING FAUCETS AND/OR BODY WASHING SHOWER HEADS AND FITTING SETS SHALL BE ROUTED THROUGH AN APPROVED ANTI-SCALD DEVICE SET TO MAXIMUM TEMPERATURE SETTING OF 85 DEGREES FAHRENHEIT. SUBMIT ANTI-SCALD DEVICE AND VERIFICATION OF HEALTH DEPARTMENT APPROVAL TO ARCHITECT PRIOR TO INSTALLATION.
- 13. PROVIDE WATER HAMMER ARRESTORS EQUAL TO "SMITH" "HYDROTROL" AT ALL LAVATORIES, SINKS, TOILET & URINAL RUNS ETC. INSTALL COMPLETE WITH ACCESSIBLE ISOLATION VALVE ON HOT AND COLD WATER SUPPLY PIPING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 14. NO PVC ALLOWED WITHIN OPEN PLENUM SPACE. IF ANY PIPING OR RUN OF PIPING IS LOCATED WITHIN THE OPEN CEILING PLENUM, THAT PORTION OF PIPING IS TO BE CAST IRON, COPPER OR OTHER MATERIAL AS ALLOWED BY CODE, APPROPRIATE TO THE USE AND INSTALLATION, AND AS APPROVED BY THE ARCHITECT.
- 15. FIELD VERIFY ALL CONDITIONS TO COORDINATE ALL WORK AS SHOWN AND/OR INTENDED. FIELD VERIFY ALL INVERTS REQUIRED.
- 16. FINISH PAINT ANY/ALL EXPOSED PIPING ON THE INTERIOR OR EXTERIOR OF THE BUILDING TO MATCH ADJACENT SURFACES, WHETHER INDICATED OR NOT. VERIFY COLOR WITH ARCHITECT.
- 17. ALL SANITARY SEWER LINES SHALL BE INSTALLED WITH A MINIMUM OF 12" OF COVER AND MEET THE DEFLECTION STANDARDS OF ASTM D-3033
- 18. ALL WATER PIPING SHALL BE CPVC, SCHEDULE 80.

ABBREVIATIONS

AMERICAN NATIONAL STANDARDS MOP BASIN ANSI BACKFLOW PREVENTER BTU/HR X 1.000 NG NTS BTU BRITISH THERMAL UNIT NATURAL GAS FLOOR CLEANOUT NOT TO SCALE PLUMBING COLD WATER PVC POLYVINYL CHLORIDE DEGREE RD ROOF DRAIN DWG DRAWING SAN/S SANITARY DRAIN, WASTE, AND VENT EXTERNAL CLEAN—OUT WATER HAMMER ARRESTOR EYE WASH STATION STAINLESS STEEL EXTERIOR TEMPERED WATER FAHRENHEIT TWR TEMPERED WATER RETURN FLOOR DRAIN FINISHED FLOOR VTR VENT THROUGH THE ROOF NATURAL GAS HOSE BIBB WALL CLEAN OUT WCO HOT WATER WALL HYDRANT INCHES, WATER COLUMN INVERT INSTANTANEOUS WATER HEATER

NOTE SYMBOLS NEW WORK PLAN NOTE $\langle X \rangle$ KEY NOTE DESIGNATION VALVE DESIGNATION X WATER HAMMER DESIGNATION REVISION PLAN NOTE EQUIPMENT TAG DETAIL NOTE DESIGNATION \mathbb{A} -XXX POINT OF NEW CONNECTION

JANITOR'S MOP SINK

PIPING SYMBOLS & LINE TYPES BALL VALVE \longrightarrow PIPING TURN UP PIPING TURN DOWN **├** PRESSURE RELIEF VALVE PIPE CAP GAS COCK **├** BACK FLOW PREVENTER CHECK VALVE FLOOR DRAIN \leftarrow VALVE IN RISER FLOOR CLEANOUT GAS PRESSURE REGULATING VALVE **├** DOMESTIC COLD WATER SUPPLY THERMOSTATIC MIXING VALVE **├**──HWR──**├** DOMESTIC HOT WATER RETURN HOSE BIBB / WALL HYDRANT S DOMESTIC HOT WATER SUPPLY **├──** VALVE IN ROAD BOX SANITARY PIPING PIPING TEE DOWN S----- V -----S VENT PRESSURE REGULATING VALVE W/ FLOW DIRECTION

WATER HAMMER ARRESTER SCHEDULE

J.R. SMITH FIG. NO.	SYMBOL	FIXTURE UNIT RATING	PIPE SIZE
5005	5005 SA-1		3/4"
5010	SA-2	12-32	1"
5020	SA-3	33–60	1"
5030	SA-4	61–113	1"
5040	SA-5	114–154	1"
5050	SA-6	155-330	1"

		PLUMBING FIXTURE S	CHEDU	LE						
					ROUGH	I–IN				
MARK	MANUFACTURER / MODEL NUMBER	TRIM	CW	HW	WASTE	VENT	MOUNTING HEIGHT	REMARKS	MARK	
WC-1	AMERICAN STANDARD MADERA FLOWISE 2234.001 1.6 GPF, TOP SPUD ELONGATED BOWL FLOOR MOUNTED WATER CLOSET	SLOAN FLUSHOMETER 111, CODE 3780000 NON-HOLD-OPEN HANDLE 1.6 GPF FLUSH VALVE, BEMIS COMMERCIAL MODEL 2155CT/2155SSCT OPEN FRONT SEAT LESS COVER	1"		4"	2"	15" TO RIM	_	WC-1	
WC-2	AMERICAN STANDARD MADERA FLOWISE 3043.001 1.6 GPF, TOP SPUD ELONGATED BOWL FLOOR MOUNTED WATER CLOSET	SLOAN FLUSHOMETER 111, CODE 3780000 NON-HOLD-OPEN HANDLE 1.6 GPF FLUSH VALVE, BEMIS COMMERCIAL MODEL 2155CT/2155SSCT OPEN FRONT SEAT LESS COVER	1"		4"	2"	16-1/2" TO RIM	ADULT ADA WATER CLOSET	WC-2	
UR-1	AMERICAN STANDARD WASHBROOK FLOWISE UNIVERSAL URINAL MODEL 6590.001 0.5 GPF, TOP SPUD WALL MOUNTED URINAL. ELONGATED 14" RIM FROM WALL	SLOAN FLUSHOMETER 186-0.5, CODE 3782655 NON-HOLD-OPEN HANDLE 0.5 GPF FLUSH VALVE	3/4"		2"	1 1/2"	17" TO RIM	ADULT ADA URINAL.	UR-1	
LAV-1	AMERICAN STANDARD LUCERNE LAVATORY 0355.012 20-1/2" x 18-1/4" 4" CENTERS, WALL MOUNTED LAVATORY	SYMMONS SCOT S-60-H FAUCET SPRAY OUTLET, 0.5 GPM 2 PIECE ADJUSTABLE P-TRAP WITH CHROME GRID DRAIN ASSEMBLY, TAILPIECE AND ESCUTCHEON, 1/2"IPSx3/8"O.D. ANGLE SUPPLY STOPS WITH FLEXIBLE RISERS WITH 1/2"C.P. NIPPLES AND S.S. ESCUTCHEONS	1/2"	1/2"	1 1/2"	1 1/2"	SEE DETAIL SHEET	LAVATORY CARRIER CONCEALED ARM SUPPORT. PROVIDE INSULATION ON WATER AND DRAIN PIPE ADULT ADA LAVATORY.	LAV-1	
DF-1	MURDOCK GVC58 BARRIER FREE WALL MOUNTED DRINKING FOUNTAIN	SATIN STAINLESS FINISH WITH SELF-CLOSING BUTTONS.	1/2"		2"	1-1/2"	FOR ADULT ADA	PROVIDE AND INSTALL (2) CONCEALED SUPPORT CARRIER. PROVIDE FREEZE RESISTANT VALVE SYSTEM.	DF-1	
DF-2	MURDOCK GVC58 BARRIER FREE WALL MOUNTED DRINKING FOUNTAIN	SATIN STAINLESS FINISH WITH SELF-CLOSING BUTTONS.	1/2"		2"	1-1/2"	FOR CHILD	PROVIDE AND INSTALL (2) CONCEALED SUPPORT CARRIER. PROVIDE FREEZE RESISTANT VALVE SYSTEM.	DF-2	
MSB-1	MOP SERVICE BASIN, FIAT MODEL MSB 3624 24"x24" MOLDED STONE, RECEPTOR WITH BRASS DRAIN BODY STAINLESS STEEL STRAINER	CHICAGO #897 FAUCET W/ INTEGRAL VACUUM BREAKER, BUCKET HOOK, WALL BRACE AND 3/4" HOSE THREAD ON SPOUT. FIAT MODEL 832-AA HOSE 5/8"x30" LONG HEAVY-DUTY CLOTH REINFORCED RUBBER HOSE W/ STAINLESS STEEL HOSE BRACKET W/ 3/4" HOSE COUPLING, FIAT MODEL 899-CC STAINLESS STEEL MOP HANGER W/ 3 TOOL GRIPS. SILICONE SEALANT	3/4"	3/4"	3"	1-1/2"	36" TO FAUCET		MSB-1	

NOTES: 1. BASIS OF DESIGN IS SHOWN. SEE SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.

- 2. VISIBLE PARTS OF BRASS FIXTURES AND ACCESSORIES SHALL BE CHROME PLATED.
- 3. ALL P-TRAPS SHALL BE 17 GAUGE CHROME PLATED WITH CLEANOUT AND WITH DEEP FLANGE CHROME PLATED ESCUTCHEON.
- 4. SINK AND LAVATORY SUPPLIES SHALL BE 1/2" IPS x 3/8" O.D. LOOSE KEY QUARTER TURN BALL VALVE ANGLE STOPS EQUAL TO McGUIRE WITH CHROME PLATED NIPPLES AND ESCUTCHEONS. KEY STOPS AND STOP COCKS SHALL NOT BE COMPRESSION FIT DESIGN.
- 5. ALL VITREOUS CHINA FIXTURES SHALL BE WHITE.
- 6. SINK AND LAVATORY FAUCETS TO HAVE HOT & COLD WATER INDEX AND HAVE VANDAL RESISTANT FEATURE, UNLESS NOTED OTHERWISE.

PLUMBING SCHEDULES AND DETAILS

SCALE: NONE WHEN PRINTED AT 24x36

Planning Civil Landscape 5022 ROCKVILLE ROAD INDIANAPOLIS, IN 46224 LANDSTEWARDSDG.COM

CLIENT / OWNER

CITY OF TERRE HAUTE

PROJECT NAME

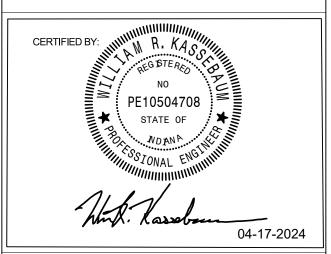
HERZ ROSE PARK

PROJECT LOCATION

1515 Locust St. Terre Haute, IN 47807

SIMS-DURKIN ASSOCIATES ENGINEERING COMPANY

5755 WEST 74TH STREET INDIANAPOLIS, INDIANA 46278 PHONE: 317-209-4035 FAX: 317-222-4120 WEB: WWW.SIMS-DURKIN.COM SDA PROJECT NUMBER: 2023123



BID SET

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2	ADDENDUM #2	08.14.2024
KEYMAI	P;	

ISSUE DATE

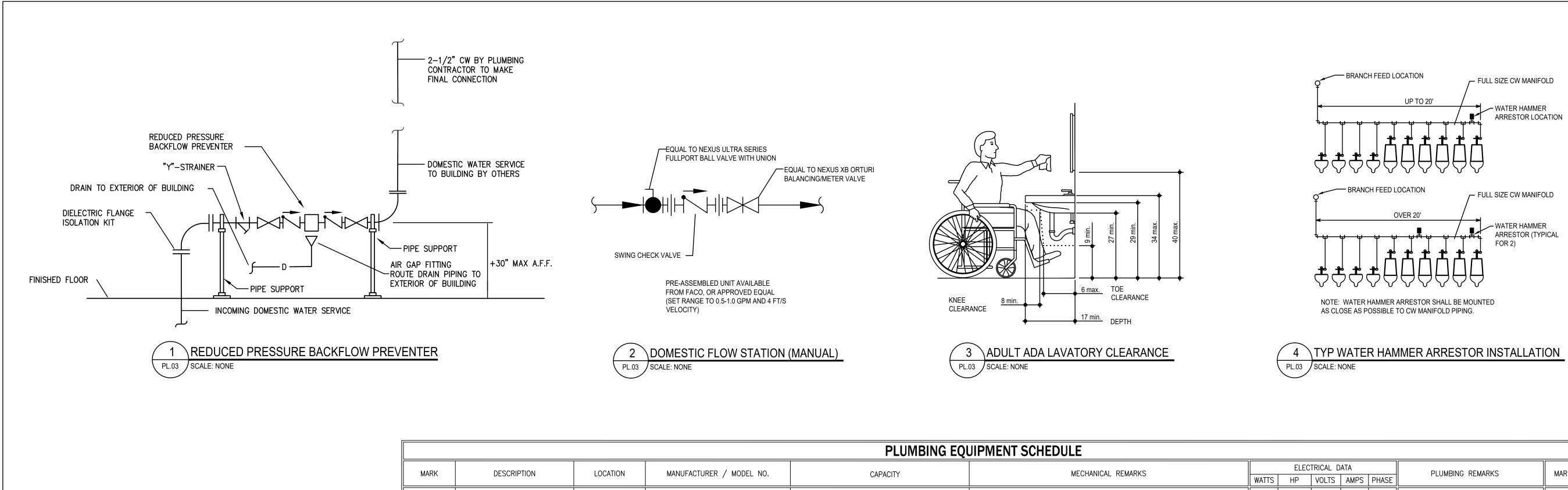
PROJECT NUMBER 23-005

SHEET NAME

04.17.2024

PLUMBING SCHEDULES AND DETAILS

SHEET NUMBER



	PLUMBING EQUIPMENT SCHEDULE										
MARK	DESCRIPTION	LOCATION	MANUFACTURER / MODEL NO.	CAPACITY MECHANICAL REMARKS		NO. CAPACITY MECHANICAL REMARKS ELECTRICAL DATA			IIII PLUMBING REMA	PLUMBING REMARKS	MARK
			,			WATTS	l HP	VOLTS	AMPS PHASE		
						1					
BFP-1	REDUCED PRESSURE ZONE BACKFLOW PREVENTER	MECHANICAL ROOM	ZURN WILKENS MODEL SERIES 009QT	80 GPM FLOW AT 12 PSI PRESSURE LOSS	2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AIR GAP AND LEAD FREE						BFP-1
					EPOXY COATED WYE TYPE STRAINER. PIPE DRAIN LINE TO FLOOR DRAIN.	-					

	DRAIN AND MISCELLANEOUS SCHEDULE					
MARK	MANUFACTURER / MODEL NUMBER	DESCRIPTION	REMARKS	MARK		
FD-1	ZURN ZS415-6SS-VP	CAST-IRON BODY, FLASHING COLLAR, 6"x6" STAINLESS STEEL SQUARE ADJUSTABLE STRAINER HEAD WITH SECURED SQUARE HOLE GRATE AND VANDAL PROOF FEATURE, DEEP SEAL P-TRAP.	TOILET AREAS ON GRADE. SIZE AS SHOWN ON DRAWINGS. INSTALL SURE—SEAL TRAP SEAL DEVICE.	FD-1		
FD-2	ZURN Z566	12" SQUARE OPEN TOP DRAIN WITH CAST—IRON BODY, BOTTOM OUTLET AND LOOSE SET CAST—IRON SECONDARY STRAINER.	"HIGH—FLOW" FLOOR DRAIN. INSTALL TRAP SEAL DEVICE EQUAL TO "SURESEAL". INSTALL UNDER BACKFLOW PREVENTER.	FD-2		
WH-1	WOODFORD MODEL 65	FREEZELESS WALL HYDRANT NIDEL 34HA 3/4" HOSE THREAD	LOCATE WHERE SHOWN ON DRAWINGS. APPROXIMATELY 30" ABOVE GRADE.	WH-1		
СО	ZURN ZN1400-BZ	ADJUSTABLE ON-GRADE CLEANOUT WITH CAST-IRON BODY. ROUND SCORIATED TOP WITH ADDITIONAL LEVELING ADJUSTMENT TO FINISH FLOOR. FRAME AND COVER FINISH: NICKEL BRONZE.	FOR CLEANOUTS ON FINISHED FLOOR.	СО		
EWH-1	FLOWCO SPEX2412	ON-DEMAND LOCAL ELECTRIC WATER HEATER	2.4 KW, 20 AMPS, 0.25 GPM MIN ACTIVATION	EWH-1		

PLUMBING SCHEDULES AND DETAILS CONT

SCALE: NONE WHEN PRINTED AT 24x36



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INDIANAPOLIS, IN 46224
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CLIENT / OWNER

CITY OF TERRE HAUTE

PROJECT NAME

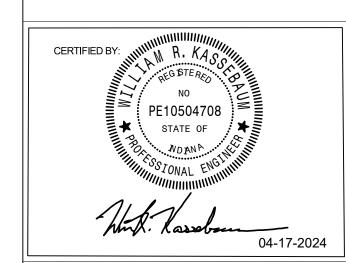
HERZ ROSE PARK

PROJECT LOCATION

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SHEET NAME

ISSUE DATE

04.17.2024

PLUMBING SCHEDULES AND DETAILS CONT

PROJECT NUMBER

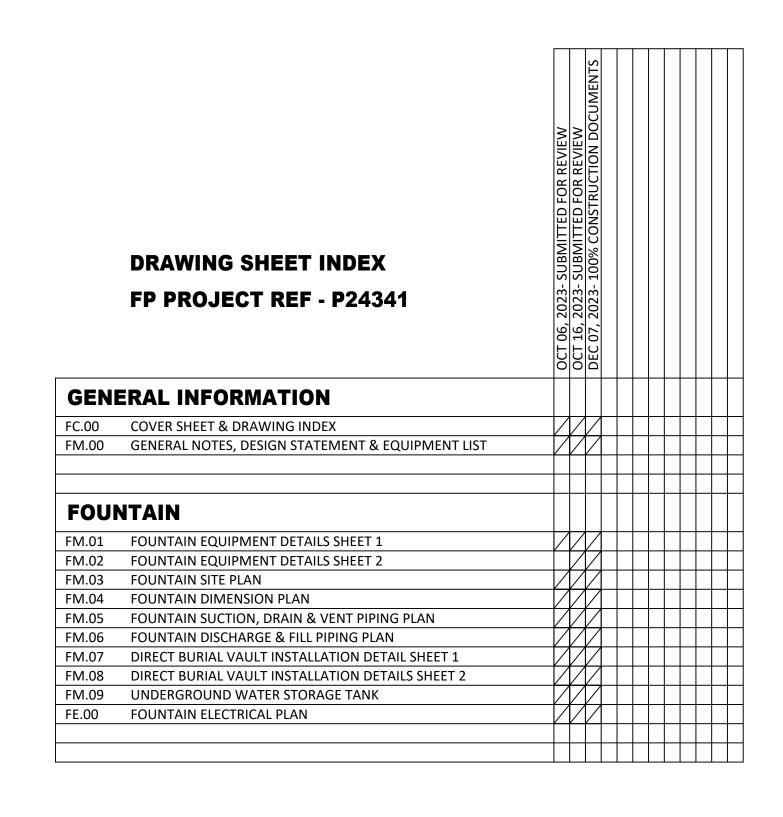
23-005

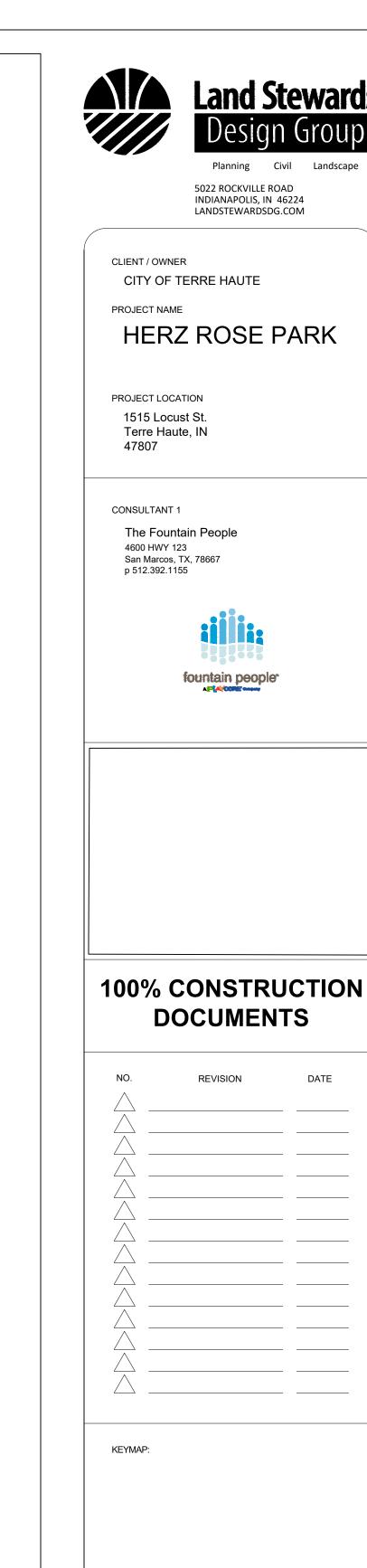
SHEET NUMBER

PL.03

HERZ ROSE PARK TERRE HAUTE, INDIANA USA







FOUNTAIN COVER SHEET

PROJECT NUMBER

FC.00

ISSUE DATE

Design Operation Statement & Specifications

The architectural fountain for the Herz Rose Park Splashpad is an exterior 'dry-deck' interactive style fountain with (19) jets inside a 32'-0" x 24'-0 zone. The water feature includes (6) Fountain-in-a-can assemblies with Adjustable Precision Jets, (4) Fountain-in-a-can assemblies with Shower Jets and (9) Fountain-in-a-can assemblies with Jet Cluster nozzles. Each of the (19) Fountain-in-a-can assemblies includes a grate, display jet, LED ring light fixture, water connection, drain connection and conduit connection. All jets are designed to operate at a maximum operating spray height of 6'-0". The spray height of each jet can rise and fall and be programmed as a group or individually. A wind anemometer and wind panel are included to reduce the spray heights in moderate winds and turn the fountain display off in high winds in order to reduce overspray. Water from the display jet falls back into each fountain can and drains to an underground storage tank. There are also four flush mounted channel sump drains located in the center of the plaza to collect additional water from flush mount nozzles. The pumps pull water from the storage tank for filtration and recirculation. The water level of the underground storage tank is controlled by a water level control sensor. The fountain equipment will be in an underground equipment vault. The direct burial equipment vault is factory engineered, assembled and pressure tested prior to shipment. This vault contains (1) 5 -HP self-priming display pump with integral basket strainer, (1) discharge strainer with stainless-steel screen, (1) variable frequency drive, a 1-HP self-priming filter pump, valve assemblies, sand filter, NSF UV Sterilizer, BECS3 water treatment system to meet code, fill manifold, sump pump, vent fan, LED light panel, and UL Listed Control Panel. Lighting is provided in

Approximate calculations as field conditions may vary:

Reservoir	1,500 Gallons (1,750 Gallons maximum, overflow restricted)		
Operating Water Volume:	1,500 Ganons (1,750 Ganons maximum), overmow restricted)		
Reservoir Shut Down Gain:	200 Gallons (Approximately)		
	Qty (6) FIAC-2000-APJ, 6'-0" spray height, 7 GPM @ 8 Feet of Head		
	42 GPM @ 8 Feet of Head		
Disales Bensinensenter	Qty (4) FIAC-2000-SJ, 6'-0" spray height, 14.5 GPM @ 16 Feet of Head		
Display Requirements:	58 GPM @ 16 Feet of Head		
	Qty (9) FIAC-2000-JC, 6'-0" spray height, 7 GPM @ 10 Feet of Head		
	63 GPM @ 10 Feet of Head		
Display Requirement Total:	163 GPM @ 50 Feet of Head		
Display Pump Capacity:	5-HP WFP3-500 pump, 225 GPM @ 50 Feet of Head		
Filter Pump Capacity:	1-HP WFK-100 pump, 75 GPM @ 50 Feet of Head		
Filtration Requirement:	50 GPM @ 50 Feet of Head (30-minute turnover rate)		
Filtration Type:	TR100 Sand Filter, 74 GPM max		
Actual Filtration Rate:	70 GPM		
Rate of Filtration Turnover:	22 minutes		

Herz Rose Park Equipment List 1 of 2 Fountain People - 10/16/23

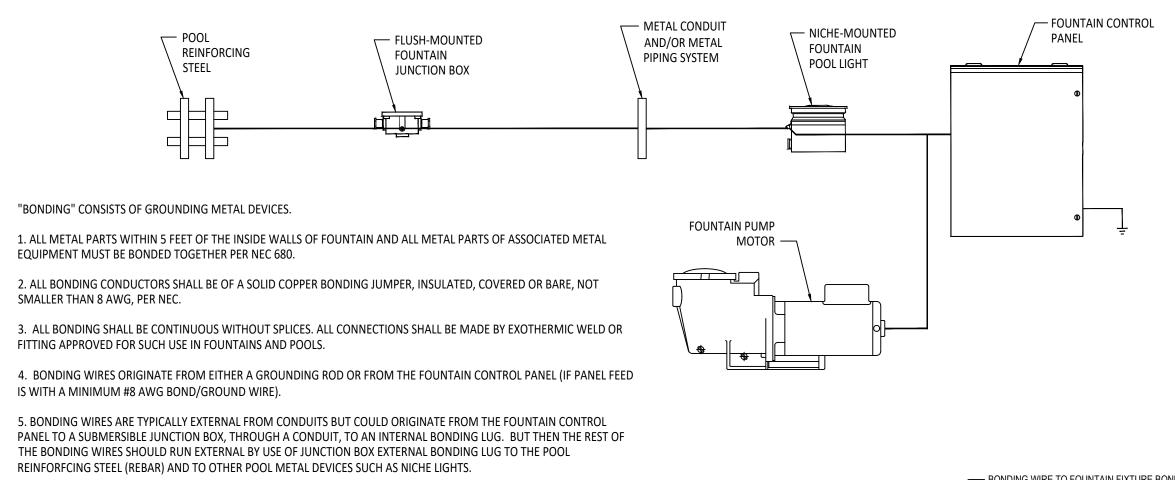
Item #	Qty	Component Number	Description
^01	6	FIAC-2000- APJ	Fountain-In-A-Can with Hydro-Valve and Adjustable Precision Jet Nozzle, a "pour in place" flush mount spray effect with instant switching HydroValve, and 360-degree light fixture. The assembly includes a stainless-steel canister with 1/4" thick stainless-steel grate and contains (1) jet cluster interchangeable fountain nozzle, 360-degree 24V, 36-Watt, LED ring light with colored RGB diodes, fast acting Hydro-Valve, manual adjustment valve, junction box, bonding lug, 1-1/2" inlet connection, 2" drain connection, and (2) 3/4" conduit connections for valve & light. Assembly is shipped with (3) anchor bolts, leveling nut & washers.
^02	9	FIAC-2000-JC	Fountain-In-A-Can with Hydro-Valve and Jet Cluster Nozzle, a "pour in place" flush mount spray effect with instant switching HydroValve, and 360-degree light fixture. The assembly includes a stainless-steel canister with 1/4" thick stainless-steel grate and contains (1) jet cluster interchangeable fountain nozzle, 360-degree 24V, 36-Watt, LED ring light with colored RGB diodes, fast acting Hydro-Valve, manual adjustment valve, junction box, bonding lug, 1-1/2" inlet connection, 2" drain connection, and (2) 3/4" conduit connections for valve & light. Assembly is shipped with (3) anchor bolts, leveling nut & washers.
^03	4	FIAC-2000-SJ	Fountain-In-A-Can with Hydro-Valve and Shower Jet Nozzle, a "pour in place" flush mount spray effect with instant switching HydroValve, and 360-degree light fixture. The assembly includes a stainless-steel canister with 1/4" thick stainless-steel grate and contains (1) jet cluster interchangeable fountain nozzle, 360-degree 24V, 36-Watt, LED ring light with colored RGB diodes, fast acting Hydro-Valve, manual adjustment valve, junction box, bonding lug, 1-1/2" inlet connection, 2" drain connection, and (2) 3/4" conduit connections for valve & light. Assembly is shipped with (3) anchor bolts, leveling nut & washers.
^04	2	JB8-3-100	Junction Box, flush mount, UL listed, underwater cast bronze junction box with internal grounding lug, neoprene gasket, 1" power connection, and three (3) 3/4"side connections for lights. Includes brass cord seals and plugs.
^05	8	JB8-4-100	Junction Box, flush mount, UL listed, underwater cast bronze junction box with internal grounding lug, neoprene gasket, 1" power connection, and four (4) 3/4"side connections for lights. Includes brass cord seals and plugs.
06	20	PC-8882-D	Potting compound for use in underwater junction boxes, 21 oz. package, meets NEC article 680 as an approved potting compound.
07	1	AN-1D	Wind Speed Sensor, polycarbonate constructed 3-cup anemometer with UV inhibitors, beryllium copper shaft and Teflon bearings. Requires 18/3 cable by installer.

Herz Rose Park Equipment List 2 of 2 Fountain People - 10/16/23

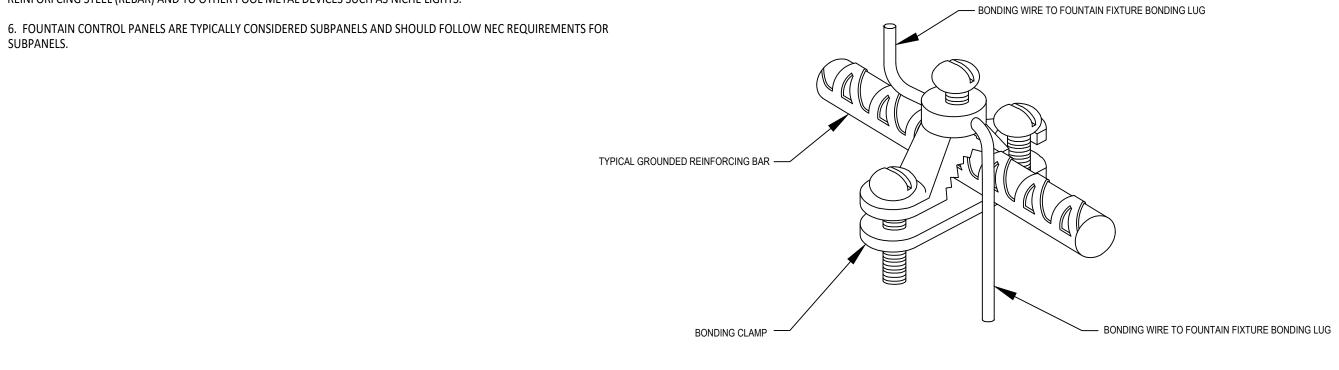
Item #	Qty	Component Number	Description
08	1	WLS-CLH3	Water level control sensor; compact and flexible with 3 electrodes and a control unit, polypropylene housing, 1-1/2" NPT connection.
^09	4	PCS-32-W	32" VGB Plastic Channel Sump Assembly, dimensions: 33" x 4-9/32" x 5-9/16", three bottom ports: 2-2/2" spigot x 2" socket x 2" NPT, two 2" threaded plugs, #316 Stainless Steel fasteners, VGB Grate has 38.79 sq. in open area for water flow. IAPMO Listed and complies with ANSI/APSP-16-2011 & CPSC Requirements. White in color.
10	1	PWA-30	Double wall 30-gallon acid storage tank with fittings 3" supply piping, 2" capped drain, 3/4" incoming conduit fitting and metering chemical feed pump 120V,60Hz/1Ø, 1.4 Amps (Acid Tank)
11	1	PWC-30	Double wall 30-gallon acid storage tank with fittings 3" supply piping, 2" capped drain, 3/4" incoming conduit fitting and metering chemical feed pump 120V,60Hz/1Ø, 1.4 Amps (Chlorine Tank)
12	1	LPST-2000- P24341	Underground Water Storage Tank, high density polyethylene construction, using FDA and NSF resins, monolithic ribbed design for superior top load strength, and repeated filling and emptying cycles. Low profile design for shallower excavations, flats located to accept bulkhead fittings (tank adapters), and ventilation piping. Tie-down manhole cover with 16" hatchway riser, stabilization 'lugs' at corners to aid in transportation, handling, lifting and tie-down. Internally, tank includes floating surface skimmer. Tank material conforms to 21 CFR 111.1520 standards.
13	1	FPV-G- P24341	Direct Burial Vault, heavy duty FRP enclosure measuring 9'-7" x 7'-9" x 8'-11" deep, that is structurally engineered and certified for in-ground installation. Furnished with 36" x 36" lockable landscape access hatch (green) and ladder up extension pole. The vault includes (1) 5-HP fountain display pump with integral basket strainer, discharge strainer with stainless-steel screen, includes throttling valves and (1) variable frequency drive and 1-HP filter pump with integral basket strainer, sand filter with multi-port valve assembly, NSF UV Sterilizer, BECS3 PH/ORP Water Treatment System with ethernet connection, suction & discharge isolation & throttling valves, 3/4" water fill manifold, sump pump assembly, forced air ventilation system, LED Lighting Panel with controller, and internal power supplies, wind control panel, a UL electrical control panel with pump starters and motor protectors, digital timeclocks, HOA switches, water level control relays, sequencing controller, and main disconnect switch. Unit is factory engineered, assembled, and tested prior to shipment. Power requirement: 120/208 Volt, 3-phase, 4-wire feeder + GND.
14	1	VCA-300-P	Vent Cap Assembly, PVC construction, 3" connection
15	2	VCA-600	Vent Cap Assembly, cast iron construction, 6" connection

[^] ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR

^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR.



SUBPANELS.



i) THIS DETAIL IS FOR GUIDANCE ONLY. ii) THE DESIGN, SPECIFICATION, SUPPLY & INSTALL OF ALL BONDING FITTINGS & CONDUCTORS

ij) EACH FOUNTAIN FIXTURE ASSEMBLY REQUIRES A BONDING #8-AWG PIG TAIL LOOP 36" LONG ABOVE THE BASIN FINISHES WITHIN 24" OF ITS LOCATION.

WATER FEATURE SPECIFICATION NOTES

THE INSTALLER SHALL BE RESPONSIBLE FOR PURCHASING WATER FEATURE COMPONENTS, AS WELL AS PROVIDING LABOR AND MATERIALS REQUIRED EFFECTING THE INSTALLATION OF THE OPERATIONAL SYSTEMS AS DETAILED IN THE PLANS AND SPECIFICATIONS.

THE PRIME WATER FEATURE INSTALLER SHALL FURNISH FOUNTAIN ELECTRICAL COMPONENTS TO THE ELECTRICAL INSTALLER FOR INSTALLATION AND CONNECTION.

A SINGLE MANUFACTURER SHALL SUPPLY ELECTRICAL AND MECHANICAL WATER FEATURE COMPONENTS IN ORDER TO ENSURE THE INTEGRITY OF THE WATER FEATURE DESIGN. THE WATER FEATURE EQUIPMENT SHALL BE AS DESIGNED AND MANUFACTURED BY FOUNTAIN PEOPLE, INC., P.O. BOX 807, 4600 HWY 123 EAST, SAN MARCOS, TX 78666. (512) 392-1155. SUBSTITUTION OF WATER FEATURE MATERIALS SHALL REQUIRE WRITTEN APPROVAL BY THE PROJECT ARCHITECT OR LANDSCAPE ARCHITECT.

INSTALLERS OFFERING SUBSTITUTIONS SHALL SUBMIT THREE COPIES OF THE FOLLOWING DATA AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE FOR REVIEW AND APPROVAL:

- 1. COMPLETE WATER FEATURE SYSTEM FLOW DIAGRAM.
- 2. COMPLETE WATER FEATURE ELECTRICAL CONTROL PANEL LADDER LOGIC DIAGRAMS.
- 3. A COMPLETE BILL OF MATERIALS ALONG WITH SPECIFICATION CUTS OF PROPOSED SUBSTITUTE ITEMS.
- 4. A WRITTEN DESCRIPTION OF THE WATER FEATURE'S OPERATIONAL CYCLE.
- 5. A WRITTEN PERFORMANCE GUARANTEE BY THE ALTERNATE SYSTEM MANUFACTURER CERTIFYING THAT THE ALTERNATE SYSTEM WILL MEET THE SPECIFIED DESIGN CONCEPT AND PERFORMANCE REQUIREMENTS. FAILURE TO SUBMIT FOR PRIOR APPROVAL OF SUBSTITUTIONS WILL BE GROUNDS FOR REJECTION. WITHIN TEN WORKING DAYS OF AWARD OF CONTRACT, INSTALLER SHALL SUBMIT FIVE COPIES OF MANUFACTURERS' DETAILED DATA SHEETS AND SUBMITTAL DRAWINGS OF WATER FEATURE COMPONENTS FOR APPROVAL PRIOR TO INSTALLATION. UPON COMPLETION OF THE PROJECT, INSTALLER SHALL PROVIDE THREE COPIES OF OWNER'S OPERATION AND MAINTENANCE MANUALS. MANUALS SHALL BE PROVIDED ON COMPACT DISCS WITH ALL PORTIONS IN A PRINTABLE FORMAT, AND SHALL INCLUDE OPERATING AND MAINTENANCE PROCEDURES ALONG WITH MANUFACTURERS' DATA SHEETS AND SYSTEM DRAWINGS.

THE WATER FEATURE MECHANICAL AND ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, INTENDED TO INDICATE THE SCOPE OF THE WORK TO BE DONE. EQUIPMENT AND MATERIAL LOCATIONS MAY BE DISTORTED FOR CLARITY IN PRESENTATION.

QUESTIONS PERTAINING TO WORK THAT DOES NOT APPEAR TO BE SUFFICIENTLY DETAILED OR EXPLAINED, OR PERTAINING TO THE TRUE MEANING OF A PART OF THE DRAWINGS OR SPECIFICATIONS, OR DISCREPANCIES FOUND EXISTING IN OR BETWEEN THE SPECIFICATIONS AND DRAWINGS, SHALL BE REFERRED TO THE ARCHITECT OR LANDSCAPE ARCHITECT FOR CLARIFICATION.

ITEM NUMBERS CORRESPOND TO THE BILL OF MATERIALS AND SHALL BE FURNISHED BY THE EQUIPMENT MANUFACTURER. THE INSTALLER SHALL FURNISH OTHER MATERIALS, LABOR, TOOLS, EQUIPMENT, APPARATUS, AND SERVICES, WHICH ARE REQUIRED TO COMPLETE THE INSTALLATION OF THE WATER FEATURE SYSTEM.

MECHANICAL NOTES

1. THIS INSTALLATION SHALL COMPLY WITH LOCAL PLUMBING CODES.

MINIMUM-SCHEDULE 40 PVC, STAINLESS STEEL OR FIBERGLASS.

- 2. PIPING LOCATED WITHIN A POOL BASIN, AND STUB-UPS THROUGH A POOL FLOOR OR WALLS OF A BASIN, SHALL BE OF BRASS PIPE, TYPE K COPPER TUBING OR STAINLESS STEEL.
- 3. INSTALLER SHALL SUPPLY WATERSTOP PROTECTION FOR PIPING PENETRATING POOL FLOOR OR WALLS AND FOR FITTINGS CAST THEREIN UNLESS OTHERWISE SPECIFIED WITHIN THESE DRAWINGS AND EQUIPMENT LISTS.
- 4. INTERCONNECTING PIPE AND FITTINGS BETWEEN THE POOL BASIN AND THE PUMP EQUIPMENT ROOM SHALL BE OF COPPER,
- 5. PRESSURIZED CITY WATER LINES SUPPLYING THE WATER FEATURE SYSTEM SHALL BE OF COPPER AND SHALL BE PROTECTED BY A
- BACKFLOW PREVENTION DEVICE AND PRESSURE REDUCTION VALVE SET AT 50 PSI MAXIMUM. 6. PIPING RUNS SHALL BE MADE AS DIRECT AS POSSIBLE USING THE MINIMUM NUMBER OF FITTINGS. PIPE SHALL SLOPE TO THE PUMP
- FOR DRAINAGE AND SHALL BE FREE OF TRAPS OR LOOPS THAT COULD TRAP WATER OR AIR. 7. IF PIPING CANNOT BE SLOPED TO PUMP, MAKE PROVISIONS FOR COMPLETE DRAINING OF EACH PIPE WITH A MINIMUM 1 1/2" LINE
- AND VALVE AT THE LOWEST POINT.
- 8. PUMP SUCTION INTAKE AND SUCTION PIPING SHALL BE ROUTED TO AN ELEVATION BELOW THE WATER LEVEL OF THE LOWEST BASIN SO THAT BOTH THE PUMP AND THE SUCTION PIPING ARE COMPLETELY FLOODED WHEN THE WATER FEATURE SYSTEM IS FILLED UNLESS OTHERWISE SPECIFIED HEREIN.
- 9. PIPING SHALL BE PRESSURE TESTED PRIOR TO BACK-FILLING AND SHALL BE PROPERLY SUPPORTED.
- 10. INSTALLER SHALL PROVIDE DRAINAGE AND VENTILATION IN AN EQUIPMENT PUMP ROOM IN ORDER TO PREVENT FLOODING, CONDENSATION, OR OVERHEATING OF EQUIPMENT.

- 1. UNDERWATER ELECTRICAL EQUIPMENT CAN CAUSE FATAL ELECTRICAL SHOCK IF NOT INSTALLED PROPERLY. THIS INSTALLATION HAS BEEN DESIGNED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, ARTICLE 680. INSTALLER SHALL INSTALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 680 AND LOCAL ELECTRICAL CODES.
- 2. A CLASS 'A' GROUND FAULT CIRCUIT INTERRUPTER (GFCI) SHALL BE INSTALLED ON CIRCUITS THAT HAVE AN OPERATING VOLTAGE GREATER THAN 15 VOLTS AND THAT SUPPLY WATER FEATURE EQUIPMENT LOCATED WITHIN BASINS. EQUIPMENT OPERATING AT LESS THAN 15 VOLTS SHALL BE PROTECTED BY A TRANSFORMER WHICH IS UL LISTED AND MARKED FOR THE APPLICATION.
- SUBMERGED WHEN IN OPERATION, SHALL BE PROTECTED BY A LENS GUARD IF POINTED UPWARD, AND SHALL BE PROTECTED BY AN INTEGRAL THERMAL CUTOFF DEVICE TO PREVENT OVERHEATING.

3. UNLESS UL LISTED FOR EITHER WET OR DRY OPERATION, UNDERWATER LIGHT FIXTURES SHALL BE INSTALLED SO THAT THEY ARE

- 4. UNDERWATER LIGHT FIXTURES SHALL BE INSTALLED WITH SUFFICIENT CORD LENGTH TO ALLOW REMOVAL FROM THE WATER FOR RELAMPING AND NORMAL MAINTENANCE WITHOUT LOWERING THE BASIN WATER LEVEL.
- 5. UNDERWATER JUNCTION BOXES SHALL BE EQUIPPED WITH THREADED CONDUIT ENTRIES AND STRAIN RELIEF SEALS FOR CORD ENTRY. STRAIN RELIEF SEALS SERVING NICHE MOUNTED FIXTURES SHALL MAKE PROVISION FOR BOTH THE FIXTURE CORD AND AN AWG # 8 COPPER BONDING WIRE WHEN REQUIRED BY LOCAL CODE.
- 6. UNDERWATER JUNCTION BOXES, OR JUNCTION BOXES MOUNTED OUTSIDE THE BASIN BUT BELOW THE WATER LEVEL, SHALL BE POTTED USING 3M "GELLA" 8882 RE-ENTERABLE POTTING COMPOUNDS. CONDUIT ENTRIES SHALL BE SEALED PRIOR TO POTTING THE JUNCTION BOX TO PREVENT POTTING COMPOUND FROM ENTERING THE CONDUIT SYSTEM.
- 7. STUB-UPS FOR CONDUIT MOUNTED UNDERWATER JUNCTION BOXES MUST BE OF RED BRASS PIPE OR STAINLESS STEEL. NON-METALLIC CONDUIT MAY NOT BE USED FOR SUPPORT OF JUNCTION BOXES
- 8. WIRE PULLED BETWEEN WATER FEATURE ELECTRICAL CONTROLS PANELS AND UNDERWATER JUNCTION BOXES SHALL BE OF STRANDED COPPER, WATER-RESISTANT TYPE SELECTED AND SIZED FOR THE APPLICATION.
- 9. CONDUIT SHALL BE SEALED TO PREVENT ENTRY OF MOISTURE AND TO PREVENT WATER FROM DRAINING INTO THE WATER FEATURE ELECTRICAL CONTROL PANELS.



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HERZ ROSE PARK

CLIENT / OWNER CITY OF TERRE HAUTE

PROJECT LOCATION 1515 Locust St. Terre Haute, IN

47807

CONSULTANT 1

The Fountain People 4600 HWY 123

San Marcos, TX, 78667 p 512.392.1155



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DESIGN STATEMENT & **EQUIPMENT LIST**

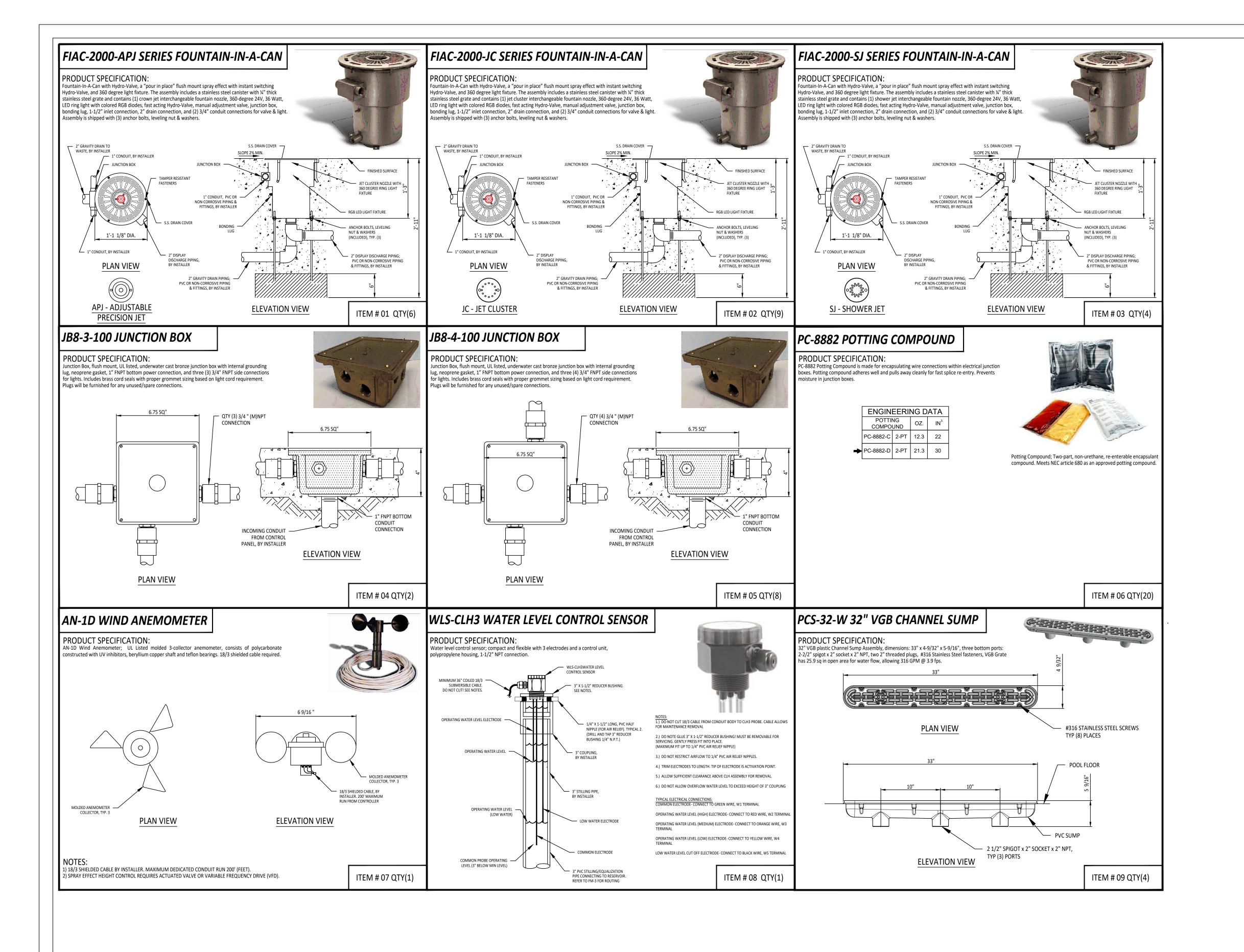
PROJECT NUMBER

23-005

SHEET NUMBER

ISSUE DATE

12.07.2023





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HERZ ROSE PARK

CLIENT / OWNER

CITY OF TERRE HAUTE

PROJECT NAME

PROJECT LOCATION
1515 Locust St.
Terre Haute, IN

47807

CONSULTANT 1

The Fountain People
4600 HWY 123
San Marcos TX 78667

San Marcos, TX, 78667 p 512.392.1155



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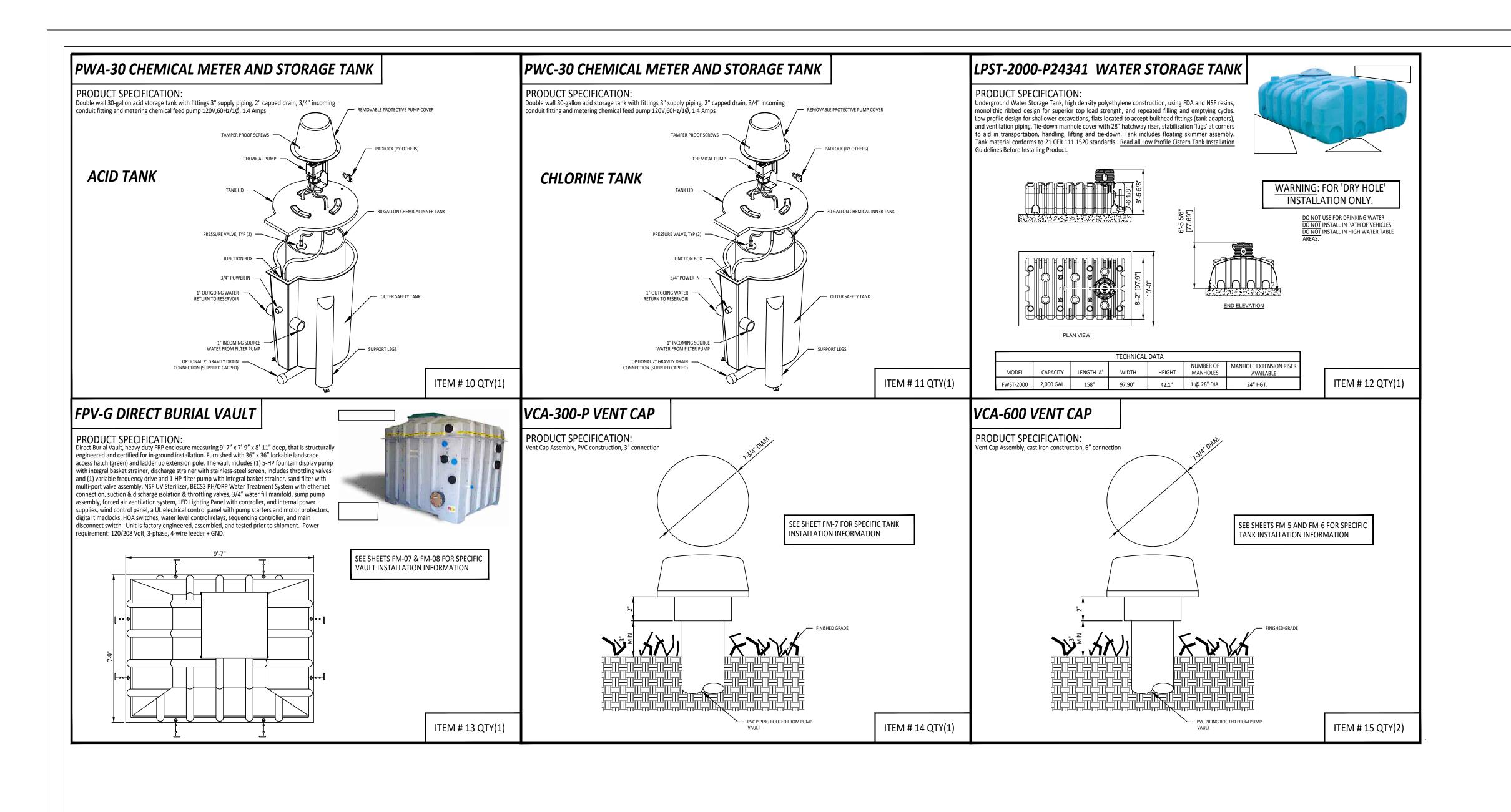
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23-005

PROJECT NUMBER

FOUNTAIN EQUIPMENT
DETAILS SHEET 1

SHEET NUMBER





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PROJECT NAME

HERZ ROSE PARK

PROJECT LOCATION

1515 Locust St.

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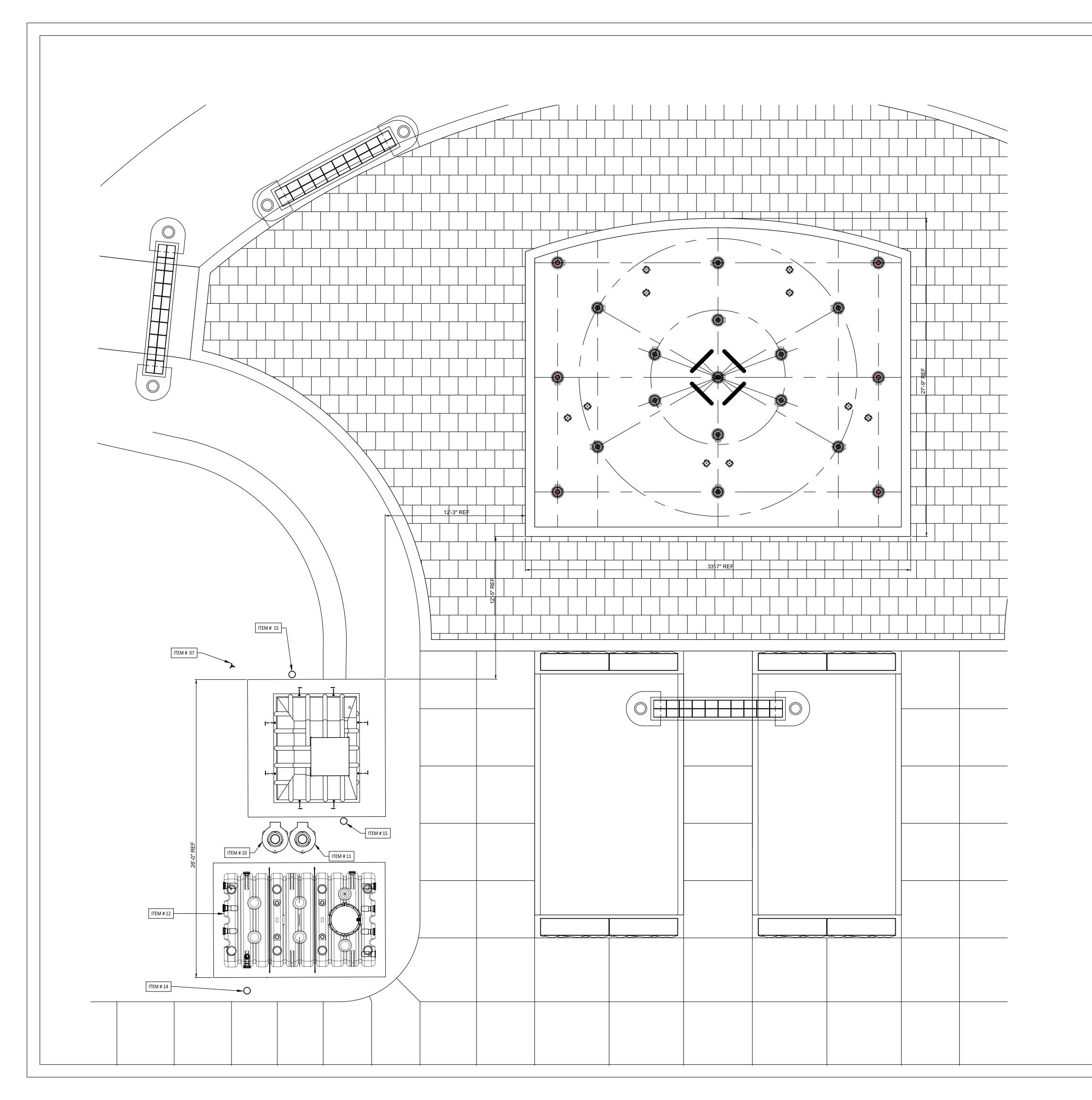
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23-005

PROJECT NUMBER

FOUNTAIN EQUIPMENT
DETAILS SHEET 2

SHEET NUMBER



Herz Rose Park Equipment List Fountain People 10/16/23

Item #	Qty	Component Number	Description	
^01	6	FIAC-2000-APJ	Fountain-in-a-Can	
^02	9	FIAC-2000-JC	Fountain-in-a-Can	
^03	4	FIAC-2000-SJ	Fountain-in-a-Can	
^04	2	JB8-3-100	Junction Box, flush mount	
^05	8	JB8-4-100	Junction Box, flush mount	
06	20	PC-8882-D	Potting compound, 21 oz.	
07	1	AN-1D	Wind Speed Sensor	
08	1	WLS-CLH3	Water level control sensor	
09	4	PCS-32-W	32" Channel Sump	
10	1	PWA-30	Double wall 30-gallon acid storage tank (Acid Tank)	
11	1	PWC-30	Double wall 30-gallon acid storage tank (Chlorine Tank)	
12	1	LPST-2000-	Underground Water Storage	
		P24341	Tank	
13	1	FPV-G-P24341	Direct Burial Vault	
14	1	VCA-300-P	Vent Cap Assembly, 3"	
15	2	VCA-600	Vent Cap Assembly, 6"	

^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR.

NOTICE TO INSTALLER

DIMENSIONS INDICATED ARE FOR REFERENCE ONLY! FINAL LAYOUT AND EXACT PLACEMENT OF NOZZLE ASSEMBLIES TO BE VERIFIED BY THE ARCHITECT, LANDSCAPE ARCHITECT AN/OR OWNER.

NOTE: ARCHITECTURAL DETAILING SHOWN FOR REFERENCE ONLY.



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CLIENT / OWNER

CITY OF TERRE HAUTE

PROJECT NAME

HERZ ROSE PARK

PROJECT LOCATION

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CONSULTANT 1

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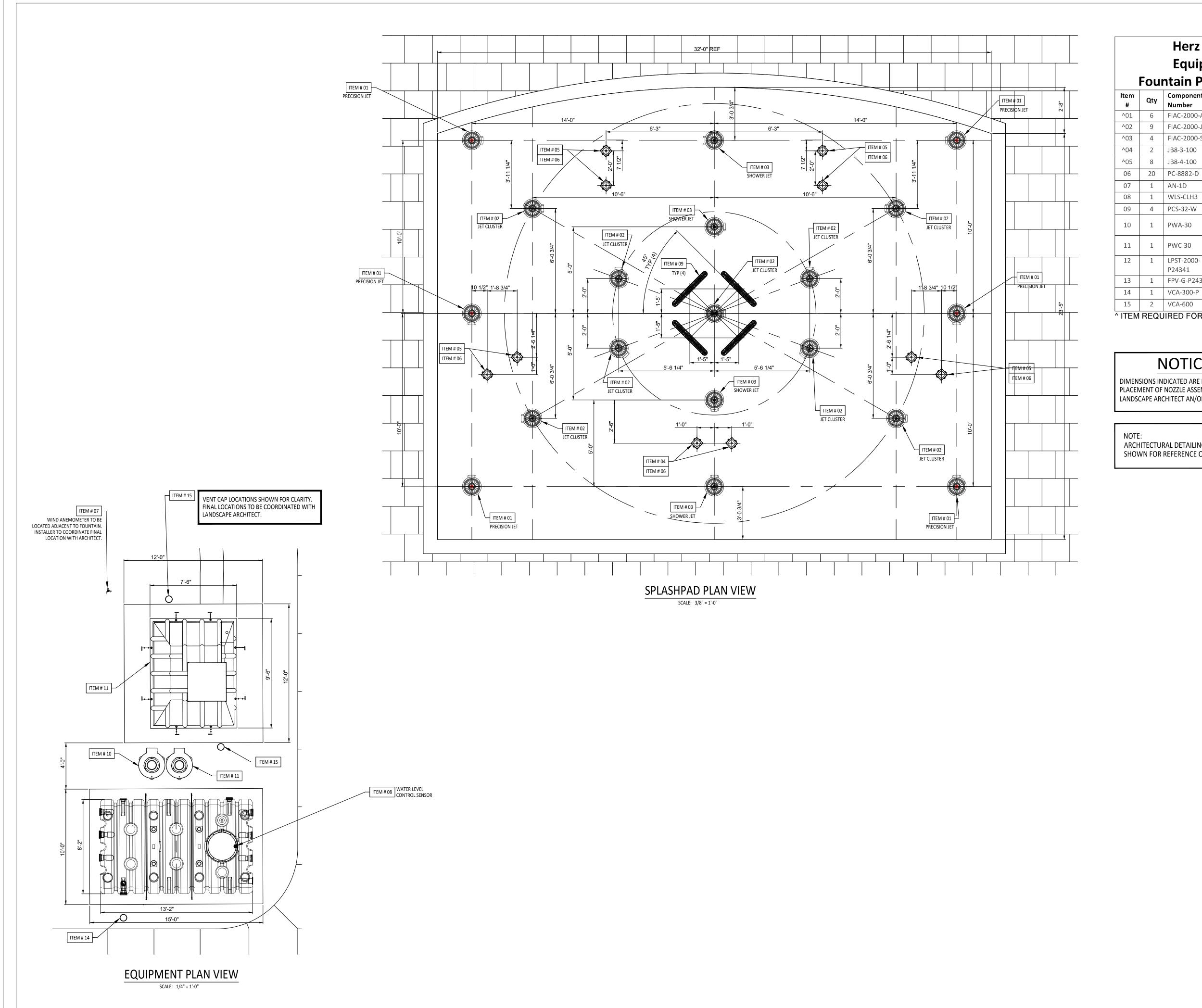
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PROJECT NUMBER 23-005

SHEET NAME FOUNTAIN SITE PLAN

SHEET NUMBER



Herz Rose Park Equipment List Fountain People 10/16/23

Fountain People 10/16/23				
Item #	Qty	Component Number	Description	
^01	6	FIAC-2000-APJ	Fountain-in-a-Can	
^02	9	FIAC-2000-JC	Fountain-in-a-Can	
^03	4	FIAC-2000-SJ	Fountain-in-a-Can	
^04	2	JB8-3-100	Junction Box, flush mount	
^05	8	JB8-4-100	Junction Box, flush mount	
06	20	PC-8882-D	Potting compound, 21 oz.	
07	1	AN-1D	N-1D Wind Speed Sensor	
08	1	WLS-CLH3	Water level control sensor	
09	4	PCS-32-W	32" Channel Sump	
10	1	PWA-30	Double wall 30-gallon acid storage tank (Acid Tank)	
11	1	PWC-30	Double wall 30-gallon acid storage tank (Chlorine Tank)	
12	1	LPST-2000- P24341	Underground Water Storage Tank	
13	1	FPV-G-P24341	Direct Burial Vault	

^ ITEM REQUIRED FOR FOUNTAIN CONCRETE POUR

VCA-600

NOTICE TO INSTALLER

Vent Cap Assembly, 3" Vent Cap Assembly, 6"

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CLIENT / OWNER

CITY OF TERRE HAUTE

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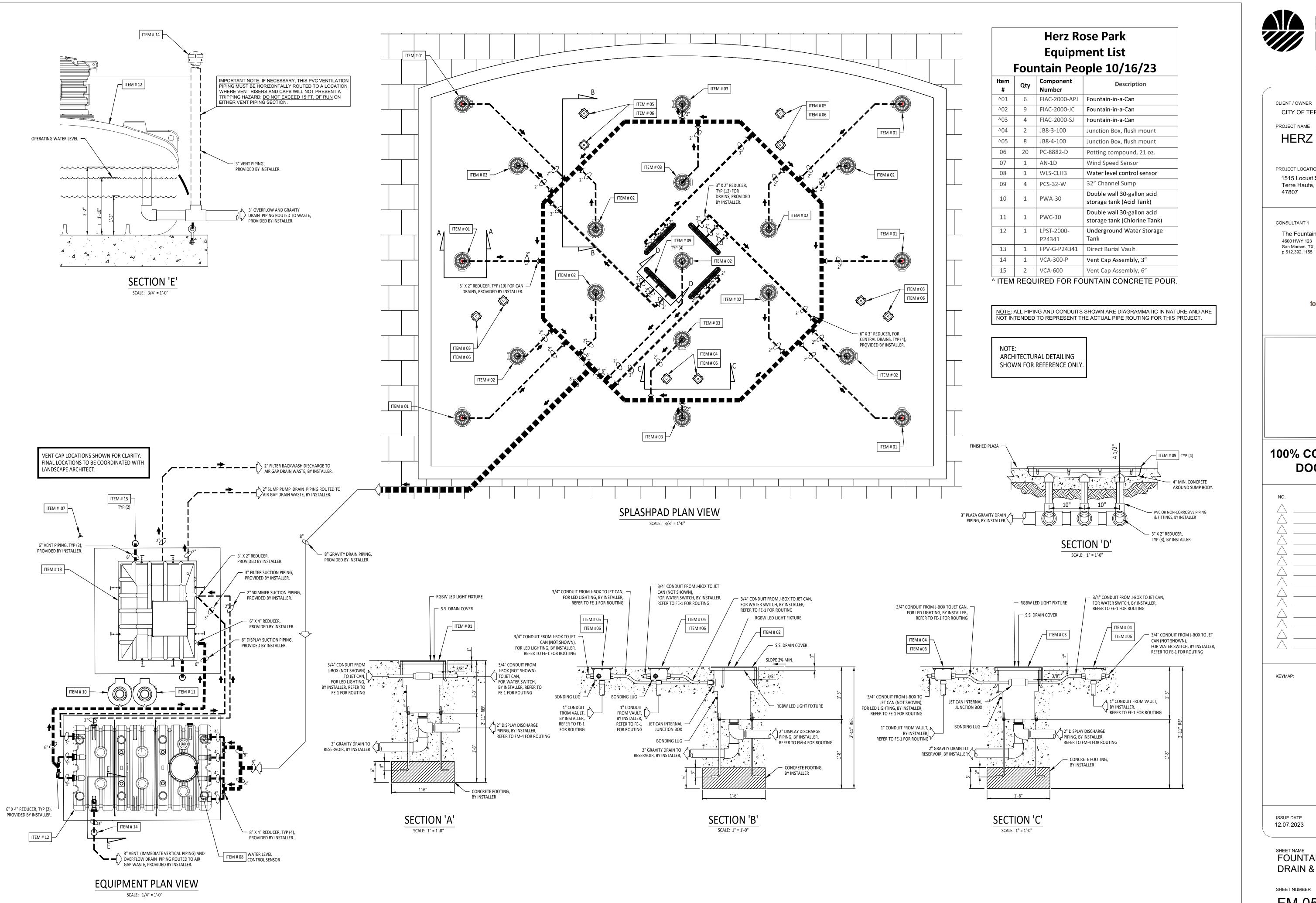
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PROJECT NUMBER 23-005

FOUNTAIN DIMENSION PLAN

SHEET NUMBER





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Terre Haute, IN 47807

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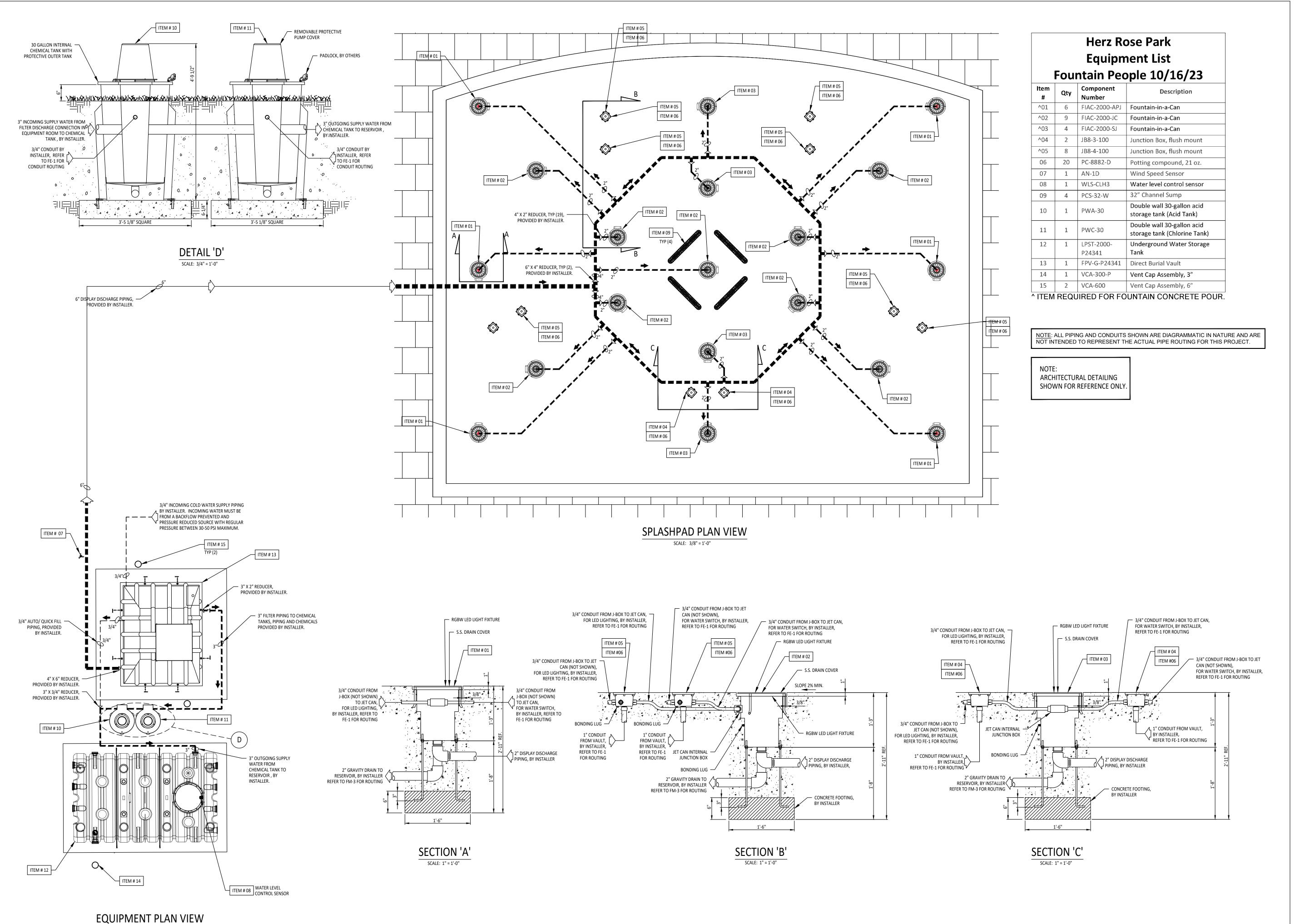
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ISSUE DATE PROJECT NUMBER 12.07.2023 23-005

FOUNTAIN SUCTION, DRAIN & VENT PIPING PLAN

SHEET NUMBER



SCALE: 1/4" = 1'-0"



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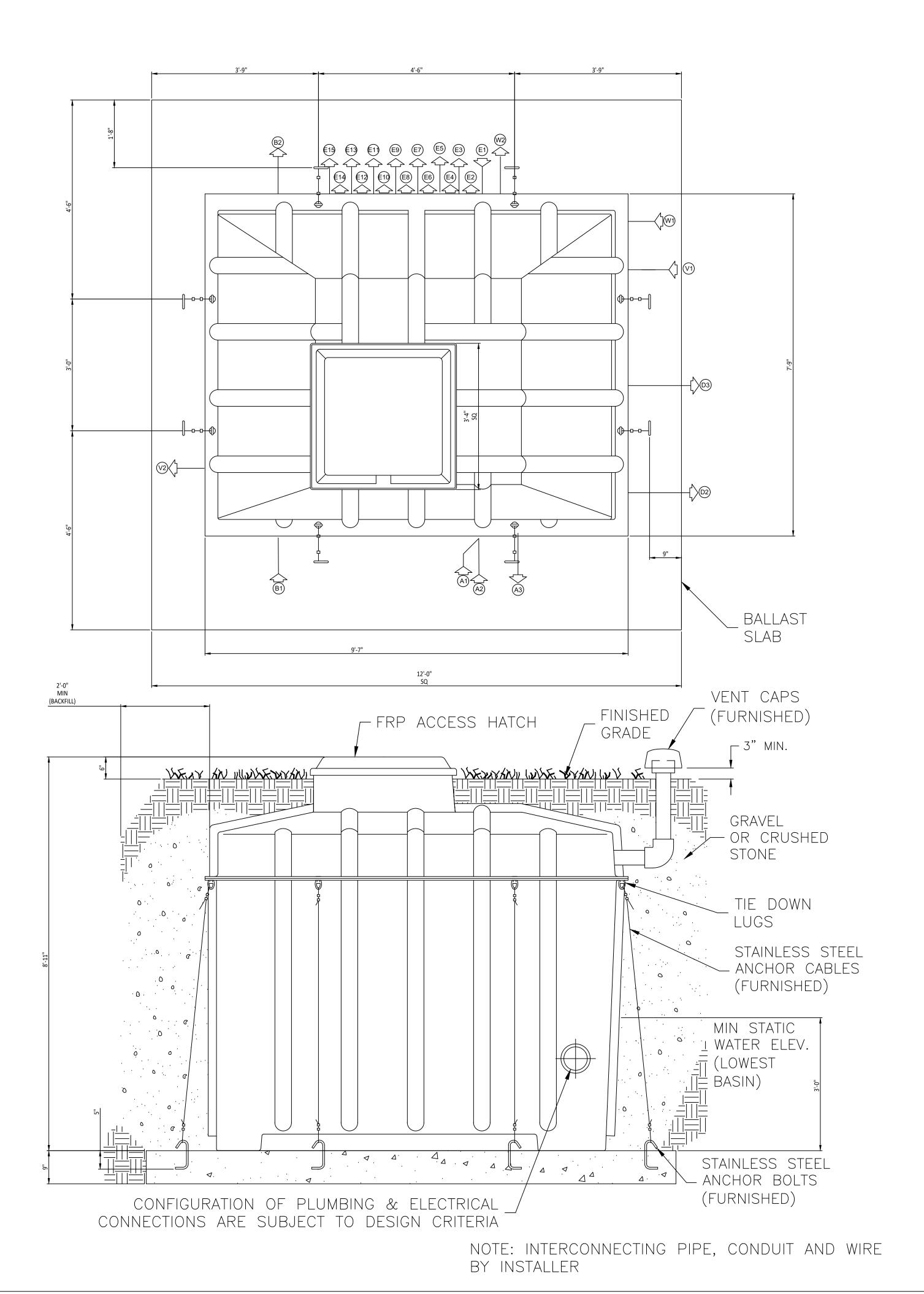
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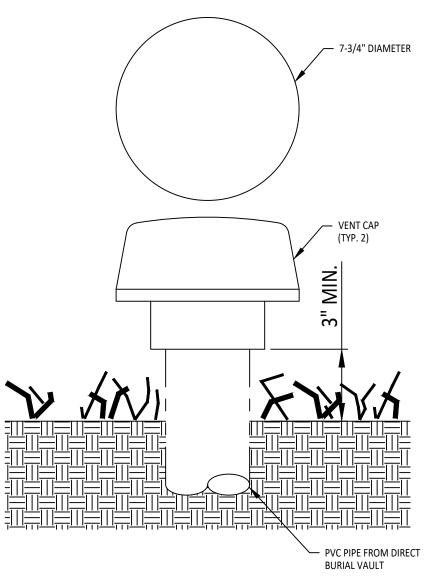
23-005

FOUNTAIN DISCHARGE &
FILL PIPING PLAN

SHEET NUMBER

12.07.2023





VENT CAP DETAIL

SCALE: AS SHOWN

SEE FM-4 FOR ADDITIONAL INSTALLATION INFORMATION

INSTALLER CONNECTION NOTIFICATION

DUE TO FINAL FABRICATION PROCESSES, THE LOCATIONS FOR ALL PENETRATIONS INDICATED ARE "APPROXIMATE".

IN THE EVENT SPECIFIC LOCATIONS ARE REQUIRED DUE TO FIELD CONDITIONS, AVOIDANCE OF OTHER TRADES, ETC, PLEASE CONTACT FOUNTAIN PEOPLE.

SYSTEM POWER REQUIREMENT:

120/208V, THREE PHASE, 4-WIRE FEEDER + GND. @ 60.0 AMPS CONTACT FACTORY IMMEDIATELY IF NOT AVAILABLE.

	PIPING/CONDUIT LEGEND
SIZE	DESCRIPTION
2"	FILTER SUCTION PIPING CONNECTION, INSTALLER TO IMMEDIATELY INCREASE TO 3"
2"	FILTER SKIMMER SUCTION PIPING CONNECTION
2"	FILTER DISCHARGE PIPING CONNECTION, INSTALLER TO IMMEDIATELY INCREASE TO 3"
4"	DISPLAY PUMP SUCTION PIPING CONNECTION, INSTALLER TO IMMEDIATELY INCREASE TO 6"
4"	DISPLAY PUMP DISCHARGE PIPING, INSTALLER TO IMMEDIATELY INCREASE TO 6"
2"	SUMP GRAVITY DRAIN CONNECTION (INSTALLER TO CAP IF NOT USED)
2"	SUMP PUMP DISCHARGE (TO AIR GAP WASTE, BY INSTALLER)
2"	SAND FILTER DISCHARGE (TO AIR GAP WASTE, BY INSTALLER)
1"C.	<u>120/208V., THREE-PHASE, 4-WIRE</u> , FEEDER + GND. @ <u>60.0</u> AMPS
3/4"C.	WATER LEVEL SENSOR CONDUIT FROM VAULT TO RESERVOIR TANK
3/4"C.	CONDUIT FROM PWA-30 CHEMICAL TREATMENT METER JUNCTION BOX (ACID)
3/4"C.	CONDUIT FROM PWC-30 CHEMICAL TREATMENT METER JUNCTION BOX (CHLORINE)
1/2"C.	CONDUIT FROM VAULT TO WIND ANEMOMETER
	2" 2" 4" 4" 2" 2" 1"C. 3/4"C.

		DIDING/CONDUIT LECEND
SYM	SIZE	PIPING/CONDUIT LEGEND DESCRIPTION
(E6)	1"C.	CONDUIT FROM VAULT TO JUNCTION BOX (FOR LED LIGHTS)
E7	1"C.	CONDUIT FROM VAULT TO JUNCTION BOX (FOR LED LIGHTS)
E8	1"C.	CONDUIT FROM VAULT TO JUNCTION BOX (FOR LED LIGHTS)
E9	1"C.	CONDUIT FROM VAULT TO JUNCTION BOX (FOR LED LIGHTS)
€10	1"C.	CONDUIT FROM VAULT TO JUNCTION BOX (FOR LED LIGHTS)
E 1	1"C.	CONDUIT FROM VAULT TO JUNCTION BOX (FOR WATER SWITCH)
€12	1"C.	CONDUIT FROM VAULT TO JUNCTION BOX (FOR WATER SWITCH)
€13	1"C.	CONDUIT FROM VAULT TO JUNCTION BOX (FOR WATER SWITCH)
€ 14)	1"C.	CONDUIT FROM VAULT TO JUNCTION BOX (FOR WATER SWITCH)
€15	1"C.	CONDUIT FROM VAULT TO JUNCTION BOX (FOR WATER SWITCH)
V1)	6"	PVC 'SOCKET' INTAKE VENT
(V2)	6"	PVC 'SOCKET' EXHAUST VENT
W1)	3/4"	C.W.S. IN FROM CODE COMPLIANT, BACKFLOW PROTECTED SOURCE; REGULATE WATER PRESSURE DOWN TO 50 PSI MAX. / 30 PSI MIN.; BY INSTALLER
W2	3/4"	WATER FILL/MAKE-UP TO 2" FILTER RETURN PIPING, OUTSIDE VAULT; BY INSTALLER

ADVISORY

THE CONSTRUCTION OF THE DBV-SERIES DIRECT-BURIALVAULT IS INTENDED FOR "DRY" INSTALLATION ONLY!

ANY PROLONGED OR TEMPORARY EXCESS GROUND WATER SURROUNDING THE VAULT MAY CAUSE INTERNAL LEAKS. THIS INCLUDES, BUT IS NOT LIMITED TOO; INSTALLED GROUND IRRIGATION, RAIN, STORM RUNOFF, FLOODING OR OTHER WATER INTRODUCING EVENT.

IN THE EVENT THESE CONDITIONS MAY BE PRESENT AT ANYTIME, IT IS
"NOT THE RESPONSIBILITY" OF THE FOUNTAIN PEOPLE TO MAKE ANY
RECOMMENDATIONS BEYOND THE SCOPE OF THIS DRAWING
PACKAGE. THE OWNER, LANDSCAPE ARCHITECT, ARCHITECT,
SPECIFICATION WRITER AND/OR THE INSTALLER WILL COORDINATE
AS NEEDED WITH THE PROPER SITE CIVIL ENGINEER TO CREATE A
SUITABLE, PERMANENT INSTALLATION ENVIRONMENT FOR THE
VAULT. ANY ADDITIONAL COSTS ASSOCIATED WITH OBTAINING
THESE SERVICES ARE NOT THE RESPONSIBILITY OF THE FOUNTAIN
PEOPLE.



Planning Civil Lands
5022 ROCKVILLE ROAD
INDIANAPOLIS, IN 46224

LANDSTEWARDSDG.COM

CLIENT / OWNER

CITY OF TERRE HAUTE

PROJECT NAME

HERZ ROSE PARK

PROJECT LOCATION

1515 Locust St. Terre Haute, IN 47807

CONSULTANT 1

The Fountain People 4600 HWY 123

4600 HWY 123 San Marcos, TX, 78667 p 512.392.1155



fountain people

100% CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE

KEYMAP:

ISSUE DATE

12.07.2023

PROJECT NUMBER 23-005

DIRECT BURIAL VAULT
INSTALLATION DETAILS
SHEET 1
SHEET NUMBER

INSTALLATION INSTRUCTIONS

Receiving the Vault

Upon arrival of vault, check both interior and exterior for shipping damage. Report any damage found to the freight carrier and Fountain People, Inc. immediately. If vault is free of damage, proceed with installation. If equipment vault is not to be installed immediately, store in a covered area safe from flooding. If a sand filter is used, filtration sand must be provided and installed by others.

Excavation

Excavate as required and pour a flat ballast slab of size indicated on the drawing. Ballast slab should be reinforced with grid using #4 re—bar on 12" centers. Stainless steel anchor hooks should be tied to the reinforcing grid and located as detailed.

Installing the Vault in the Excavation

Rig vault with straps, taking care not to damage housing or piping connections. Do not use chains or cables to rig vault. Lower vault onto the ballast slab and secure using the stainless steel hardware provided. If the vault is to be secured with cables, loop the stainless steel anchor cables (provided) around slab anchor hooks and through the tie—down lugs on vault. Secure cables with the connection hardware provided. Remove slack from the cables then tighten the cable clamps to the torque rating indicated on the thimble tag provided. Do not over—tighten the cables.

Safeguarding the Vault

If the vault is equipped with forced air ventilation, sump pumps, or gravity drains, these must be connected and made operational immediately. Do not allow excavation to fill with water prior to backfilling as the vault may flood through an opening or attempt to float and damage fittings or anchoring hardware.

Connecting the Vault

Connect all piping and conduit, as required, to connections provided on vault exterior. Do not externally load the vault connections or allow the connections to support the weight of the connected piping. If the piping is not supported properly, soil settling can result in excessive loading on the piping. This can result in broken piping and misaligned connections in the vault.

Wiring the Vault

Conduit wiring must be sealed to prevent water from entering the vault through the conduit.

Pressure Testing the Connections

Pressure test all piping connected to vault to insure there are no leaks. All equipment and piping within vault has been factory pressure tested. Do not exceed 30 PSI in pressure testing any piping connected to vault.

Ventilation Connections

If external vent piping is required, route it with as few bends as possible to a location safe from flooding. Length of vent piping should be as short as possible and should not exceed 20'-0''. If a longer piping length is necessary, contact The Fountain People, Inc. Vent caps, if used, should be installed on ends of vent piping immediately to prevent rain or debris from entering the vent piping.

Backfillin

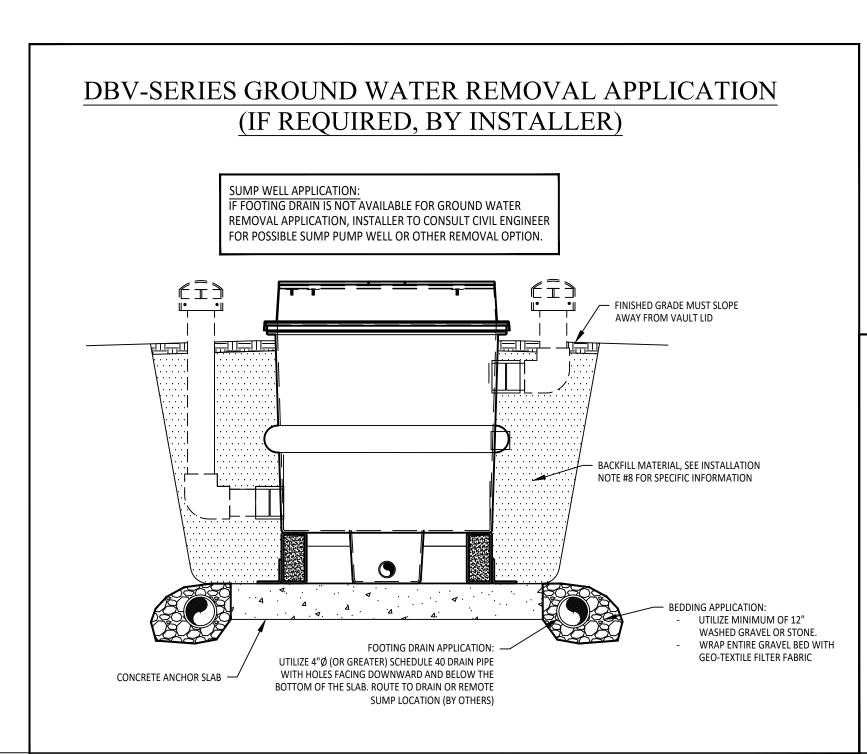
When backfilling, protect open ends of all piping to prevent backfill material from entering the piping system. Backfill material should be a rounded gravel or crushed stone (1/4" to 3/4" Max. and less than 5% fines). There should be at least 2'-0" of backfill material on all sides of vault between the vault and the surrounding earth. The top of the access hatch should be above finished grade (as indicated on the drawing) and located in an area that is safe from flooding. DO NOT USE SAND OR DIRT FOR BACKFILL. If the surrounding earth has poor drainage provide some means for water to drain away from the vault.

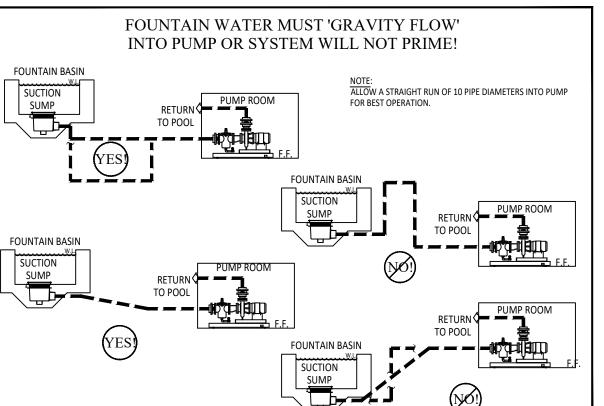
FAILURE TO FOLLOW ALL THE ABOVE PROCEDURES COULD RESULT IN SERIOUS DAMAGE TO THE EQUIPMENT AND WILL VOID THE WARRANTY ON THIS PRODUCT.

For any questions concerning these installation instructions or the installation of the vault system please contact Fountain People, Inc. at (512) 392—1155.

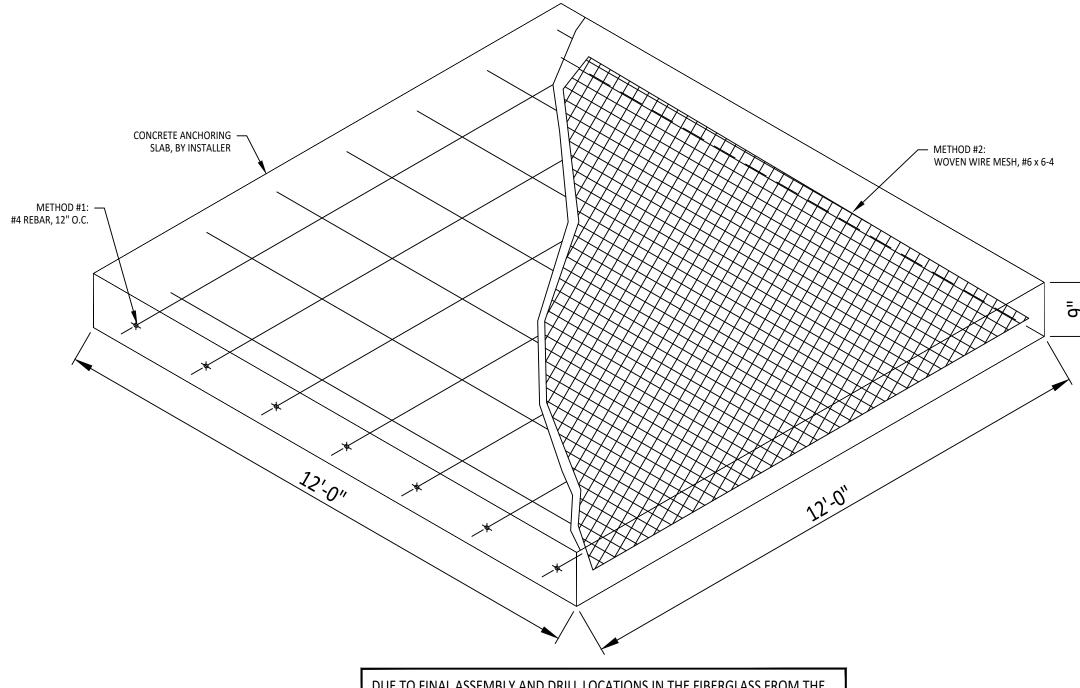
NOTICE TO INSTALLER

ALL GENERAL VAULT INSTALLATION, SITE PREPARATION AND "MEP" WORK SHOWN ARE PRESENTED AS MINIMUM REQUIREMENTS. STATE, COUNTY AND LOCAL CODES MAY REQUIRE ADDITIONAL CONSTRUCTION AND INSTALLATION METHODS TO COMPLY WITH LOCAL ORDINANCES. INSTALLER TO COORDINATE WITH GENERAL CONTRACTOR ON ANY SPECIFIC SITE INSTALLATION REQUIREMENTS.





SEE FM-.07 FOR ADDITIONAL INSTALLATION INFORMATION



DUE TO FINAL ASSEMBLY AND DRILL LOCATIONS IN THE FIBERGLASS FROM THE FACTORY, INSTALLER TO FIELD VERIFY FINAL ANCHOR HOLE POSITIONS PRIOR TO LOCATING AND INSTALLING ANCHORS IN THE CONCRETE SLAB.

CONCRETE ANCHOR SLAB

SCALE: NONE

ADVISORY

THE CONSTRUCTION OF THE G-SERIES DIRECT-BURIALVAULT IS INTENDED FOR "DRY" INSTALLATION ONLY!

ANY PROLONGED OR TEMPORARY EXCESS GROUND WATER SURROUNDING THE VAULT MAY CAUSE INTERNAL LEAKS. THIS INCLUDES, BUT IS NOT LIMITED TOO; INSTALLED GROUND IRRIGATION, RAIN, STORM RUNOFF, FLOODING OR OTHER WATER INTRODUCING EVENT.

IN THE EVENT THESE CONDITIONS MAY BE PRESENT AT ANYTIME, IT IS "NOT THE RESPONSIBILITY" OF THE FOUNTAIN PEOPLE TO MAKE ANY RECOMMENDATIONS BEYOND THE SCOPE OF THIS DRAWING PACKAGE. THE OWNER, LANDSCAPE ARCHITECT, ARCHITECT, SPECIFICATION WRITER AND/OR THE INSTALLER WILL COORDINATE AS NEEDED WITH THE PROPER SITE CIVIL ENGINEER TO CREATE A SUITABLE, PERMANENT INSTALLATION ENVIRONMENT FOR THE VAULT. ANY ADDITIONAL COSTS ASSOCIATED WITH OBTAINING THESE SERVICES ARE NOT THE RESPONSIBILITY OF THE FOUNTAIN PEOPLE.



5022 ROCKVILLE ROAD INDIANAPOLIS, IN 46224 LANDSTEWARDSDG.COM

CLIENT / OWNER

CITY OF TERRE HAUTE

PROJECT NAME

HERZ ROSE PARK

PROJECT LOCATION

1515 Locust St. Terre Haute, IN 47807

CONSULTANT 1

The Fountain People

4600 HWY 123 San Marcos, TX, 78667 p 512.392.1155



100% CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE
\triangle		
KEYMAP		

ISSUE DATE PROJECT NUMBER 12.07.2023 23-005

DIRECT BURIAL VAULT
INSTALLATION DETAILS
SHEET NUMBER

LOW PROFILE CISTERN TANK INSTALLATION GUIDELINES

General Information

a) Check with the governing agency in your county or city for specific installation requirements for cistern tank systems. These codes may specify different installation details than presented in this guideline and as a result will have precedence.

b) Never install this product in an area with a high water table or in a water-saturated clay mix. Failure to heed may result in tank damage an/or contamination from leakage.

c) Never install this product beneath vehicular traffic. Tank is not designed for these traffic loads. Failure to heed may result in tank collapse and/or contamination from leakage.

d) Use of this product in areas with frost depths below 28" will require suitable submersible tank heaters be installed. Heaters must have UL rating for this application.

e) It is recommended that if tank is to be utilized for drinking water that suitable means of filtration and treatment be provided and that the water in the tank be checked regularly against your local drinking water standards.

f) Tanks that are equipped with above ground access must have the access cover securely locked. The riser option provides a locking ear so that access cover can be secured with a tamper proof lock.

2. Site Excavation

a) Surrounding site soil must be undisturbed soil or a well-compacted engineering fill.

b) Measure tank width, height and length to establish excavation profile.

c) Excavate and provide a well-compacted support layer of sand/gravel mixture so that Dimension "A" is a minimum of 6" for soil terrain and 12" for rocky terrain.

d) Allow Dimension "B" to be a maximum of 28".

e) Allow Dimension "C" to be a minimum of 18" and a maximum of 36".

f) Place and center tank in excavated hole using lifting ears provided. Do not lift tank with the lid opening.

3. Tank Plumbing

a) Tank features a variety of fitting installation options. Be certain all plumbing materials are rated for the intended application for tank.

b) Supply lines should have flexible couplings installed to accommodate soil expansion, contraction and

Site Backfilling

a) Backfill around tank using sand/gravel mixture.

4'-10 3/4"

b) Mound soil over tank to provide sufficient site drainage and to prevent pooling around tank lid and

c) Site should be periodically checked for soil settlement and maintenance provided as necessary for adequate drainage.

OSHA DEFINED "CONFINED SPACE" INFORMATION

Certain sites contain spaces that are considered to be "confined" because their configurations hinder the activities of any individual who must enter into, work in, and exit from them. In many instances, individuals who work in confined spaces also face increased risk of exposure to serious physical injury from hazards such as entrapment, engulfment, and hazardous atmospheric conditions. Confinement itself may pose entrapment hazards, and work in confined spaces may keep an individual closer to hazards, such as machinery components, than they would otherwise. For example, confinement, limited access, and restricted airflow can result in hazardous conditions that would not normally arise in an open workplace.

The term "PERMIT-REQUIRED CONFINED SPACE" (i.e. permit space) refers to those spaces that meet the definition of a "confined space" and contain health or safety hazards, thereby requiring a permit for entry.

A confined space has limited or restricted means of entry or exit, is large enough for an individual to enter and perform assigned work, and is not designed for continuous occupancy by the individual. These spaces may include, but are not limited to underground vaults, tanks, pits and containment vessels.

A "PERMIT-REQUIRED CONFINED SPACE" is one that meets the definition of a confined space and has one or more of these characteristics: (1) contains or has the potential to contain a hazardous atmosphere, (2) contains a material that has the potential for engulfing an entrant, (3) has an internal configuration that might cause and entrant to be trapped or asphyxiated by inwardly converging walls or by a floor that slopes downward and tapers to a smaller cross section, and/or (4) contains any other recognized serious safety or health hazards.

Owner assumes all responsibility & liability for ascertaining whether direct—burial pump stations meet the definition of "PERMIT-REQUIRED CONFINED SPACE" and implementing any/all 'OSHA' requirements for identification, notification, entry and, safety, including any additional safety equipment that may be required

. THE SUGGESTED MEANS FOR DRAINING WATER STORAGE TANK: INSTALLER TO PROVIDE PORTABLE 1/2 HP MANUAL SUMP PUMP. TETHER LINE (FOR LOWERING INTO TANK AND RETRIEVAL) EXTENSION CORD. MINIMUM 1 1/2" FLEX HOSE AND NECESSARY HOSE CLAMPS AND FITTINGS, AS REQUIRED.

2. TO SIMPLIFY THE DRAIN-DOWN PROCESS THE 4" PVC RISER FOR TANK GRAVITY OVERFLOW DRAIN, MAY BE USED FOR SUMP PUMP FLEX HOSE DISCHARGE (LOCAL CODES PERMITTING) AND REMOVED AFTER DRAINING. NEVER LEAVE ANY HOSE, FITTING, ETC., INSIDE THE TANK THAT MAY RESTRICT OVERFLOW DRAIN AND PREVENT NORMAL OVERFLOW OPERATION.

3. CAUTION: DO NOT LEAVE TANK EMPTY ANY LONGER THAN NECESSARY, TO AVOID HYDRO-STATIC 'LIFTING' POTENTIAL, SHOULD GROUND BECOME WATER SATURATED DURING SUDDEN STORM, ETC.

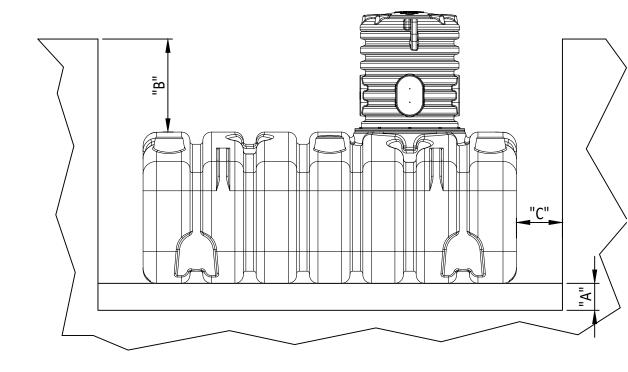
WATER LEVEL SYSTEM OPERATION LOGIC:

1. WHEN DISPLAY PUMP IS 'OFF' THE INITIAL FILL SIGNAL IS RECEIVED FROM THE 'HIGH' LEVEL ELECTRODE (BLACK LEAD).

2. WHEN DISPLAY PUMP IS 'ON' RELAY CR2 IS ENERGIZED AND THE FILL SIGNAL IS RECEIVED FROM THE INTERMEDIATE ('MID') LEVEL ELECTRODE (WHITE LEAD), TO MAINTAIN THE OPERATING WATER LEVEL.

3. IF MAKE-UP WATER FILL FUNCTION IS UNSUCCESSFUL AND TANK WATER LEVEL CONTINUES TO DROP, PUMP AND LIGHTING (WHEN APPLICABLE) CONTROL CIRCUITS WILL DE-ENERGIZE WHEN 'LOW' LEVEL ELECTRODE (RED LEAD) LOSES CONTACT WITH REMAINING TANK WATER LEVEL.

4. CONTROL SYSTEM WILL NOT RESET UNTIL WATER MAKE-UP FUNCTION HAS BEEN CORRECTED AND WATER LEVEL HAS BEEN RESTORED TO THE STATIC WATER LEVEL: ONCE ACCOMPLISHED, RE-ENERGIZE PUMP AND LIGHTING (WHEN APPLICABLE) CONTROL CIRCUITS.



	WATER STORAGE TANK CONNECTION LEGEND		
SYM.	SIZE	DESCRIPTION	
Â	3"	OVERFLOW/GRAVITY DRAIN TO WASTE & VENT RISER, MUST BE BACK FLOW PREVENTED; BY INSTALLER	
B	4"	GRAVITY DRAIN RETURN PIPING FROM FOUNTAIN DECK FITTINGS; BY INSTALLER	
<u>⟨</u> c	4"	GRAVITY DRAIN RETURN PIPING FROM FOUNTAIN DECK FITTINGS; BY INSTALLER	
\triangle	4"	GRAVITY DRAIN RETURN PIPING FROM FOUNTAIN DECK FITTINGS; BY INSTALLER	
E	4"	GRAVITY DRAIN RETURN PIPING FROM FOUNTAIN DECK FITTINGS; BY INSTALLER	
F	3"	FILTER PUMP RETURN; BY INSTALLER	
G	1/2"C.	18-3 SENSOR CABLE FROM W/L SENSOR HOUSING TO FOUNTAIN CONTROL PANEL	
H	2"	FILTER PUMP SKIMMER SUCTION; BY INSTALLER	
\triangle	3"	FILTER PUMP SUCTION; BY INSTALLER	
	4"	DISPLAY PUMP SUCTION; BY INSTALLER	
K	4"	DISPLAY PUMP SUCTION; BY INSTALLER	

PWST-SERIES, POLYETHYLENE WATER STORAGE TANK INSTALLATION NOTES, PLEASE READ CAREFULLY

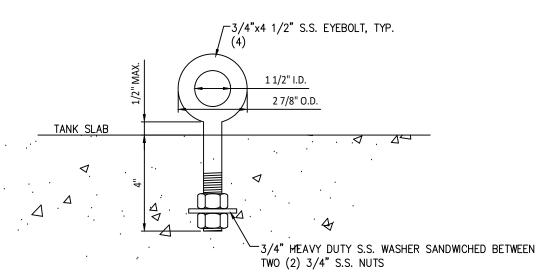
- In all cases finished grade around the tank must be sloped away from the access hatchway in all directions so no water flows into the tank (see installation details this sheet). Do not allow water to "pool" around tank under any OPERATING RESERVOIR WATER LEVEL
- Prior to tank installation, a level smooth, steel reinforced concrete pad, as sized on this drawing sheet, must be poured, and must include the four (4) installer provided 3/4" stainless steel "L"-bolts (see installation drawing).
- The tank must be lifted using a properly weighted and balanced fork lift with extended forks or a boom crane and girdle straps. The maximum tank weight for transportation and lifting purposes is 1,000 pounds unless otherwise indicated on the installation drawings or submittal data.
- Lower the tank into the excavation using a two part lifting sling with padded straps to insure a true vertical lift. DO NOT LIFT FROM TOP AND DO NOT USE CHAINS FOR LIFTING AS THEY MAY DAMAGE TANK. All off-loading and lifting equipment and labor is the responsibility of the installing contractor.
- Lower the tank into the excavation slowly and center it on the concrete pad. Insure the concrete pad is level and thoroughly broomed and brushed free of debris that could puncture the tank prior to placing the unit on the pad.
- Securely anchor the tank to the stainless steel anchor bolts previously installed into the concrete pad. Tank must be plumb and level prior to hook-up and backfill.
- After the tank is securely in position, outside piping and conduits must be aligned and connected to insure a true fit without excessive lateral force applied to piping, conduits or fittings.
- Pressure test all piping to be connected prior to backfill operations. HYDROSTATIC (WATER) TESTING SHALL BE THE ONLY APPROVED METHOD, DO NOT USE COMPRESSED AIR TO PERFORM ANY PRESSURE TESTS.

9. Once piping/conduits have all been installed and pressure tested, immediately fill tank with water to the point of overflow.

- 10. Backfill around the tank with 6" to 12" width of approved granular material free of trash, debris, roots, vegetation, or other deleterious material. Under no circumstances shall construction waste, large rocks, concrete waste, clay based soil or any other unsuitable backfill be used. A naturally rounded aggregate of 1/4" nominal size ranging from 1/8" to 3/4" diameter, or 1/8" to 1/2" diameter stone crushings, clean and free flowing, may be used. Insure that backfill fills all voids, especially under tank piping and fittings.
- 11. Spread backfill material in 6" to 8" lifts. Compact to at least 95% of maximum density as determined by ASTM 1557-70.
- 12. Use manual compaction equipment being careful not to damage the tank, piping or conduit due to excessive compaction. A single lift of backfill material around pump module with a final compaction to excessive loads shall not be
- 13. A second pressure test of piping should be made after backfilling to insure that piping has not been damaged during
- 14. CAUTION: Never allow installed tank to sit empty, as a down-pour, flood or other ground water condition may cause tank to rise out of the ground! Never drain tank if a known ground water condition exists and be sure to refill tank immediately when drained for maintenance purposes.
- 5. It is the responsibility of the installing contractor to insure the all electrical equipment is installed and wired by a QUALIFIED, LICENSED ELECTRICIAN, experienced in fountain/pool wiring. All electrical equipment must be installed in accordance with the NATIONAL ELECTRICAL CODE.



NOTE: TIE-DOWN KIT IS 'BY INSTALLER' PHOTO IS FOR ITEM REFERENCE ONLY



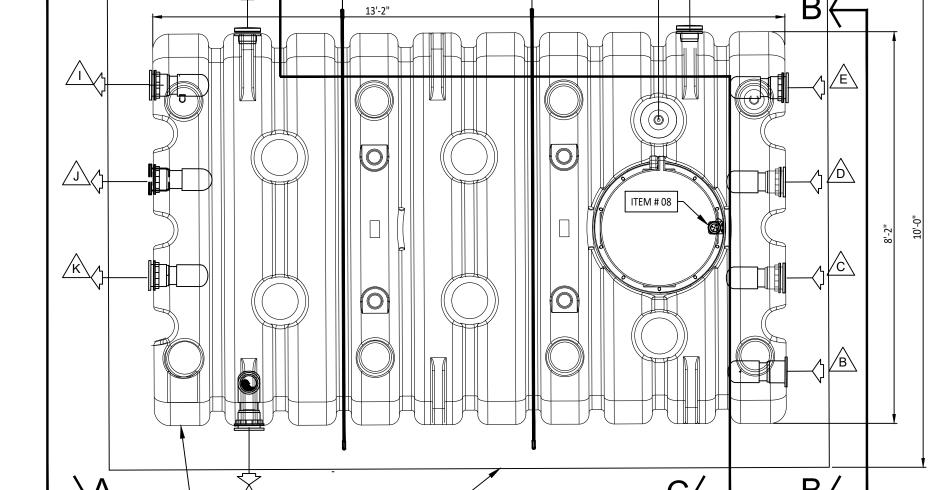
EYEBOLT ANCHOR DETAIL

ACT-RESERVOIR TANK REQUIRED 'HOLD-DOWN' HARDWARE, BY INSTALLER:

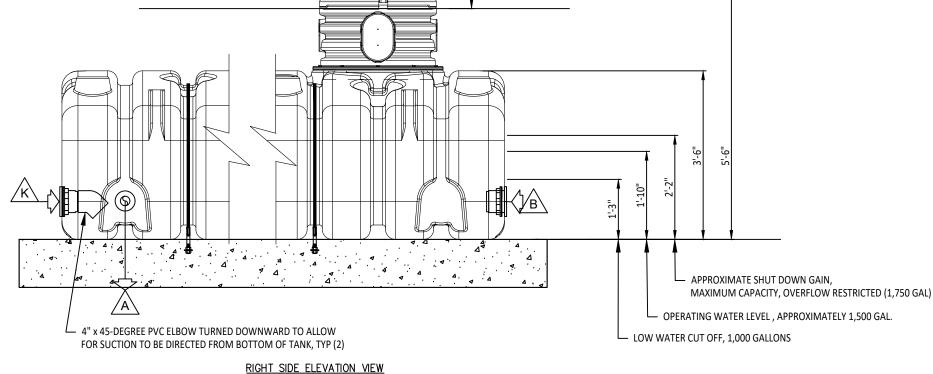
- (8) 3/4" 300 SERIES S.S. FLAT WASHER (2" O.D. x .177" THICKNESS)
- 50' 5/16" 304 S.S. 7x19 STRAND WIRE ROPE (8) 3/8" 316 S.S. U-BOLT WIRE CLIP
- 30' OF BRAIDED 'GARDEN WATER HOSE OR EQUAL. (TO CREATE A PROTECTIVE SLEEVE FOR VAULT AT CABLE CONTACT POINTS).
- CAUTION! DO NOT OVER-TIGHTEN THE S.S. 'TIE-DOWN' CABLES. SNUG TURNBUCKLES TO ALLOW A 3/4" CABLE DEFLECTION AT CENTER OF SPAN BETWEEN THE EMBEDDED EYE-BOLT AND THE POINT OF CONTACT ON



- (4) 3/4"-10 316 S.S. EXTENDED LENGTH EYEBOLT W/4-1/2" SHANK (8) 3/4"-10 NUT OF 18-8 S.S.
- (2) 3/4" 316 S.S. 'JAW & EYE' TURNBUCKLE
- THE VAULT REINFORCING RIDGE.



3'-11 3/8"



OVERFLOW PIPE

3" PVC TEE, BY INSTALLER. PROVIDE SIDE

WASTE AND TOP CONNECTION ROUTED TO

RESERVOIR TANK VENTILATION ELBOWS.

CONNECTION FOR DRAIN PIPING TO

BOTTOM OF TANK/TOP OF SLAB

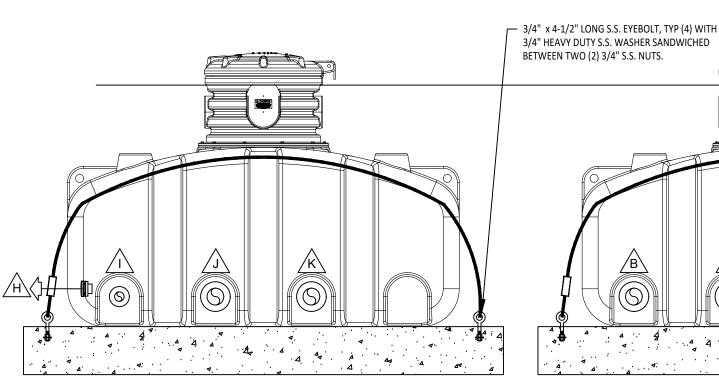
STORAGE TANK PLAN VIEW

10'-0" x 14'-11" x 12" -THICK STEEL REINFORCED

CONCRETE FOUNDATION,

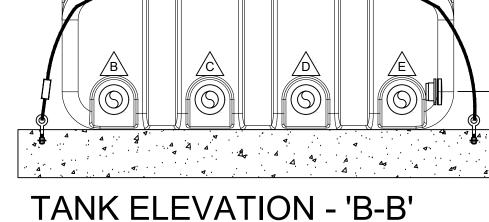
<u>DUE TO INTERNAL STRUCTURE AND FABRICATION OF THE TANK, THE WATER</u> <u>EVELS INDICATED ARE FOR REFERENCE ONLY. FINAL WATER LEVELS WILL B</u> REVIEWED AND SET AS NEEDED.

ITEM # 08



ITEM # 12 ☐

TANK ELEVATION - 'A-A' SCALE: 1/2"=1'-0"



SCALE: 1/2"=1'-0"

ITEM # 12

SURFACE SKIMMER APPROX.1,500 GALLONS

WATER LEVEL CONTROL SENSOR

TANK SECTION - 'C-C' SCALE: 1/2"=1'-0"

UNDERGROUND WATER STORAGE TANK

FM.09



CLIENT / OWNER

CITY OF TERRE HAUTE

PROJECT NAME HERZ ROSE PARK

1515 Locust St. Terre Haute, IN 47807

PROJECT LOCATION

CONSULTANT 1

The Fountain People 4600 HWY 123 San Marcos, TX, 78667

p 512.392.1155



100% CONSTRUCTION DOCUMENTS

NO.	REVISION	DATE
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KEYMAP:

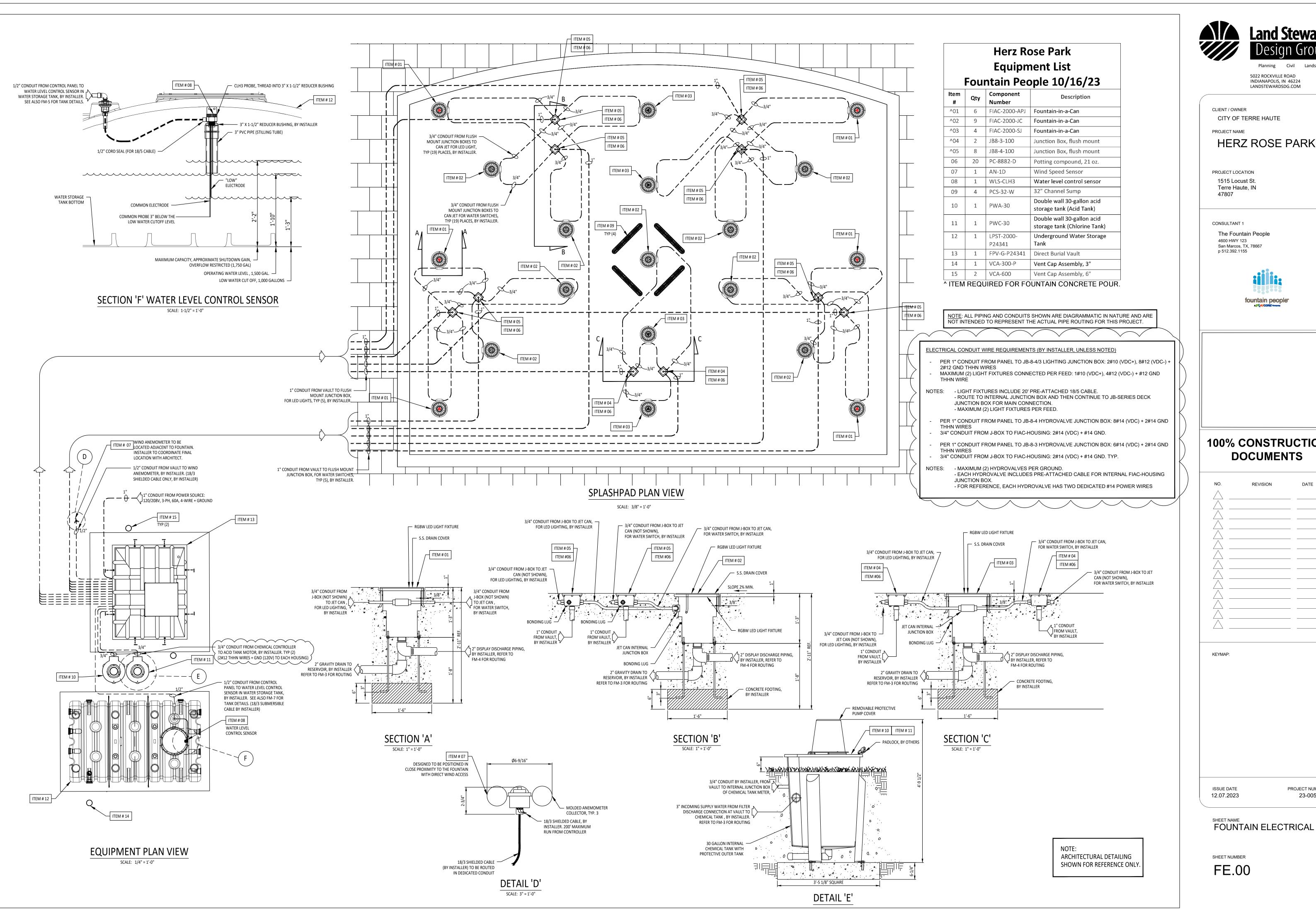
PROJECT NUMBER

23-005

SHEET NUMBER

ISSUE DATE

12.07.2023





5022 ROCKVILLE ROAD

fountain people

100% CONSTRUCTION

NO.	REVISION	DATE

FOUNTAIN ELECTRICAL PLAN

PROJECT NUMBER

23-005



5601-2





UPC Code: 07847751700

Country of Origin: United States - *Eligible for ARRA funded projects



*May include one or more globally sourced components.



AC Switches

Brand Features

Featuring a look and feel that qualify them as modern classics, Decora Designer Rocker Switches add so much at a modest cost that no home should be without them. Their sleek simplicity and smooth, quiet operation stem from quality materials fitted to tight tolerances and finished with great care, ensuring years of trouble-free service. Easy to wire, they work with tungsten, fluorescent and resistive loads. Legendary Decora® Designer Rocker Switches come in a variety of colors to harmonize with any décor. Their sturdy construction and dependable performance are everything you'd expect from the pre-eminent switch maker.

Item Description

15 Amp, 120/277 Volt, Decora Rocker Single-Pole AC Quiet Switch, Residential Grade, Grounding, Quickwire Push-In & Side Wired - Brown

Technical Information

Product Features

Grounding: Grounding **Amperage:** 15 Amp **Voltage:** 120/277 VAC **Voltage:** 120/277 Volt

HP Rating: 1/2HP-120V 2HP-240V-277V

Max. Amperage: 12 Amp

Termination: Quickwire Push-In & Side Actuator Material: Thermoplastic Body Material: Thermoplastic

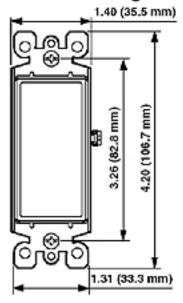
Strap Material: Steel

Color: Brown

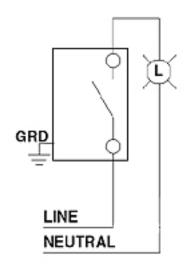
Standards and Certifications: UL/CSA

Warranty: 2 Year Limited

Dimensional Diagram



Wiring Diagram Single Pole



SPECIFICATION SUBMITTAL

JOB NAME:	CATALOG NUMBERS:
JOB NUMBER:	

Leviton Manufacturing Co., Inc.
201 North Service Road, Melville, NY 11747
Telephone: 1-800-323-8920 · FAX: 1-800-832-9538 · Tech Line (8:30AM-7:30PM E.S.T. Monday-Friday): 1-800-824-3005

Leviton Manufacturing of Canada, Ltd.165 Hymus Boulevard, Pointe Claire, Quebec H9R 1E9 · Telephone: 1-800-469-7890 ·

FAX: 1-800-824-3005 · www.leviton.com/canada

Leviton S. de R.L. de C.V.

Lago Tana 43, Mexico DF, Mexico CP 11290 · Tel.: (+52)55-5082-1040 · FAX: (+52)5386-1797 · www.leviton.com.mx

Visit our Website at: www.leviton.com

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Leviton has a global presence.

If you would like to know where your local Leviton office is located please go to: www.leviton.com/international/contacts/

*Buy American Compliant Logo -- The American Recovery And Reinvestment Act of 2009 ("ARRA") provides federal grants and loans for projects throughout the country. Section 1605 of the Act, named the "Buy American" provision, requires that certain materials and manufactured products used in projects funded by the Act be manufactured in the United States. The appearance of the Recovery Act Logo in relation to a Leviton product is only intended to reflect that such product may be used in an ARRA funded project. It does not mean that such product or Leviton is sponsored or endorsed by, or that Leviton receives funds from, the federal government or the Recovery Accountability and Transparency Board. Nothing in Leviton's use of the logo is intended to suggest anything regarding the requirements for funding under ARRA.







80401-N

Description

1-Gang Decora/GFCI Device Decora Wallplate, Standard Size, Thermoplastic Nylon, Device Mount, - Brown

Product Features

Type: Standard Size

Gang: 1

Material: Thermoplastic Nylon

Color: Brown

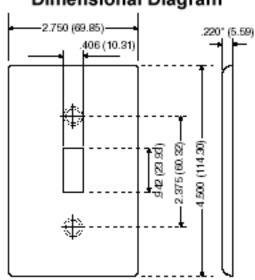
Mount: Device

Standards and Certifications: UL/CSA

Warranty: 10-Year Limited

Color: Brown

Dimensional Diagram



SPECIFICATION SUBMITTAL

JOB NAME:	CATALOG NUMBERS:		
JOB NUMBER:			

Leviton Manufacturing Co., Inc.

59-25 Little Neck Parkway, Little Neck, NY 11362-2591 Telephone: 1-800-323-8920 · FAX: 1-800-832-9538 · Tech Line (8:30AM-7:30PM E.S.T. Monday-Friday): 1-800-824-3005

Leviton Manufacturing of Canada, Ltd.165 Hymus Boulevard, Pointe Claire, Quebec H9R 1E9 · Telephone: 1-800-469-7890 · FAX: 1-800 -824-3005

Leviton S. de R.L. de C.V.Lago Tana 43, Mexico DF, Mexico CP 11290 · Tel.: (+52)55-5082-1040 · FAX: (+52)5386-1797 · www.leviton.com.mx

Visit our Website at: www.leviton.com

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CH 3/4-inch loadcenter

CH14B100B

UPC:782113097442

Dimensions:

Height: 3.88 INLength: 16.75 INWidth: 14.31 IN

Notes:Loadcenter can be overhead or underground fed by rotating the enclosure and trim 180 degrees.

Warranties:

· Limited lifetime

Specifications:

• Type: Main breaker

• Amperage Rating: 100A

• Box Size: B

• Bus Material: Copper

• Cover: Ch8bf-combination, ch8bs-surface, not

included

• Enclosure: NEMA 1

Enclosure Material: Metallic
 Interrupt Rating: 10 kAIC
 Main Circuit Breaker: CH
 Number Of Circuits: 14

• Number Of Wires: Three-wire

Phase: Single-phaseWire Size: #6-1/0 AWG

• Feed Type: Overhead or underground

Supporting documents:

- Cutler-Hammer Type CH and BR Loadcenters -Instructions
- Eatons Volume 1-Residential and Light Commercial
- Type CH Circuit Breakers and Loadcenters
- Eaton Specification Sheet CH14B100B
- Dimensional Drawing CH 3/4 LOADCENTER,



CH MAIN BREAKER, INDOOR NEMA 1, 120/240 VAC, 1 PHASE

Certifications:

• UL 50

• UL 67

Product compliance: No Data

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Eaton Type CHF 3/4-inch Standard Circuit Breaker

CHF130

UPC:786685361864

Dimensions:

Height: 3.5 INLength: 3.5 INWidth: 1.5 IN

Weight: 28 LB

Notes:HACR Rated, Single-Pole Requires One 2/4-Inch Space, With Trip Indication.

Warranties:

Limited lifetime residential, 1 year commercial

Specifications:

Amperage Rating: 30AInterrupt Rating: 10 kAIC

• Number Of Poles: Single-pole

Voltage Rating: 120/240V
Main Circuit Breaker: CH

• Wire Size: (1) #14-8 AWG, (2) #14-10 AWG

Cu/Al

• Used With: Type CH Loadcenters

Supporting documents:

- Type CH Circuit Breakers and Loadcenters
- Eatons Volume 1-Residential and Light Commercial
- Eatons CHF Circuit Breaker with Trip Flag
- Eaton Specification Sheet CHF130

Certifications:

UL 489

Product compliance: No Data



Product Bulletin for SmartlockPro® Self-Test GFCIs





New SmartlockPro® Self-Test GFCIs For Smarter Protection.

Industry-leading quality, professional grade lockout action, and the slimmest profile on the market make SmartlockPro Self-Test GFCIs a smart choice in ground fault circuit interrupter protection. Engineered to meet the latest UL standard for auto-monitoring (self-test), our complete line of self-test GFCIs periodically conduct an automatic internal test to confirm that protected power is available. If the GFCI detects a problem, one or more of the following will occur:

- Power will be denied (trip with the inability to reset)
- Trip with the ability to reset, subject to the next auto-monitoring test cycle or repeatedly trip
- Visual and/or audible indication

Faster and easier to install in any wallbox because the depth is reduced, our slim Self-Test GFCIs flush mount to the wall with minimal protrusion for a sleek, finished look.

Applications

 $\textbf{Residential} \ - \ \text{Kitchens}, \ bathrooms, \ garages, \ basements, \ laundry \ rooms, \ wet \ sink \ and \ other \ wet \ locations \ around \ the \ home$

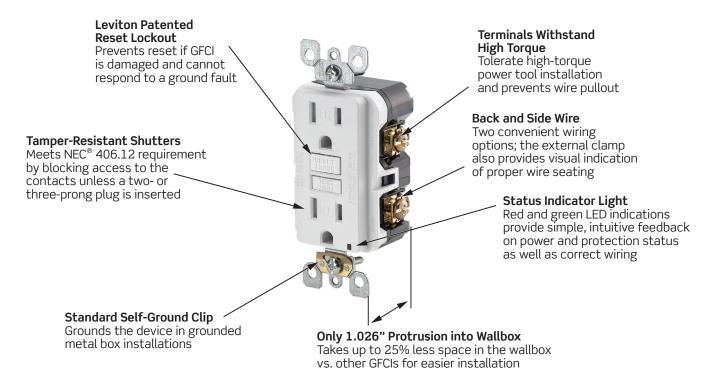
Educational Facilities - Classrooms, restrooms, laboratories, dormitories and kitchens **Airports** - Public bathrooms, general use and maintenance areas

Restaurants, Lodging and Retail Malls – Public bathrooms, general use and maintenance areas Commercial Offices – Bathrooms, basement areas, hallways and kitchen facilities

Public Areas – Wherever receptacles are located near wet or damp locations



Features and Benefits



Self-Test

- Provides continuous ground fault protection detects and trips on actual ground fault even when self-test is being conducted
- On initial power up, tests the GFCI within 3 seconds
- Auto-monitoring exceeds the UL requirement
- Auto adapts and shifts to more frequent testing if potential problem is detected
- Testing frequency regularly updates protection status
- Electronics are designed to minimize any false triggers

General Features

- Patented bridge contact provides individual sets of contacts for GFCI receptacle face and downstream receptacles; no power will be delivered to receptacle face if improperly wired (line-load reversed)
- Trip threshold meets or exceeds UL requirements for tripping time
- Improved immunity to high frequency noise reduces nuisance tripping
- Advanced electronics provides superior resistance to electrical surges and over-voltages
- Patented Lockout Action prevents reset if GFCI is damaged and cannot respond to a ground fault
- Status Indicator Light provides simple, intuitive feedback on power and protection status as well as indication of line/load reversal
- Silver alloy contacts
- Impact-resistant thermoplastic cover and body
- One-piece T-design trip latch mechanism provides efficient operation
- Available in 15A and 20A versions, all with Fed Spec rating
- TEST and RESET button colors match device face
- Compatible with all Decora[®] devices and wallplates; available in select Decora colors
- Limited Two-Year Product Warranty

Tamper-Resistant (TR) Models

- Complies with NEC® requirement mandating that all 15A and 20A receptacles installed in dwelling units be listed as tamper-resistant
- Shutter mechanism inside the receptacle blocks access to the contacts unless a two- or three-prong plug is inserted

Duplex Guide Light Models

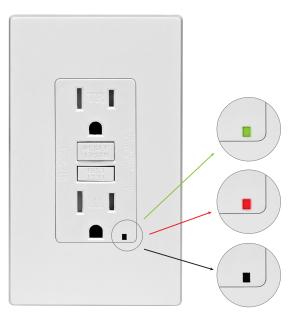
- Sensor provides automatic ON/OFF based on ambient lighting
- Dual lens provides visible light with a variety of plugs or transformers
- Custom designed lenses with edge-mounted LEDs improve light dispersion
- Energy-efficient (~1W of electricity). No bulbs to replace
- Saves space by eliminating the need to use an outlet for a plug-in night light

Weather-Resistant Models

- Designed for wet and damp locations to meet the requirements of NEC Section 406.8
- Stainless steel strap and screws
- Conformal coated PC board to protect critical components from moisture
- Cold impact resistant face and buttons
- UV stabilized plastics

Audible Models

- Audible alarm sounds when the GFCI trips, providing an alert that power has been disconnected from load(s) plugged into or fed from the GFCI
- Indicator light provides visual status



Status Indicator Light

Leviton GFCI devices feature an LED Status Indicator Light which provides a visual indication to the user of the status of GFCI protection. This is a convenient way to check the level of protection at-a-glance.

GREEN LED - NORMAL OPERATION

- GFCI has passed self-test and is providing power

RED LED - ALERT!

- Blinking Initial self-test upon first power up
- Solid or blinking Press TEST and RESET buttons to reset GFCI
- If GFCI will not reset OR solid or blinking red continues, replace device

NO LED - NO POWER

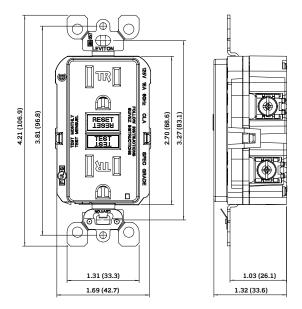
- GFCI in tripped state
- Press RESET button
- If GFCI will not reset, no power on the circuit

Agency Standards and Compliance

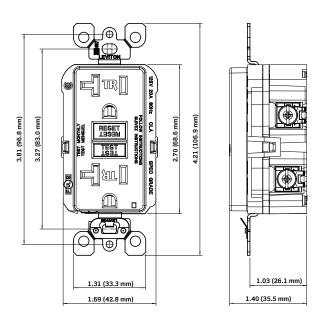
- Meets the latest UL requirements
- UL Standard 943 Class A (GFCI) and 498 (Receptacles)
- UL Listed (File #E-48380)
- CSA Certified (File #LR-57811)
- NOM Certified
- Meets Federal Specification W-C-596G (blank face exception)

Material Characteristics

- Environmental: Flammability UL-94 V2 Rating
- Operating Temperature: -35°C to 66°C
- Material: Face, Thermoplastic; Body, Polycarbonate



15A SmartlockPro® Self-Test GFCI



20A SmartlockPro® Self-Test GFCI

Ordering InformationCommercial Spec Grade - Back and Side Wired

Description	Color	Cat.	No.	Cat.	No.
NEMA		NEMA	5-15R	NEM <i>A</i>	A 5-20R
Rating		15A-125V @ Receptacle 20A-125V Feed-Through		20A-125V @ Receptacle 20A-125V Feed-Through	
		TR	Non-TR	TR	Non-TR
Duplex with LED Indicator	White	GFTR1-W	GFNT1-W	GFTR2-W	GFNT2-W
(with self-grounding clip)	lvory	GFTR1-I	GFNT1-I	GFTR2-I	GFNT2-I
	Light Almond	GFTR1-T	GFNT1-T	GFTR2-T	GFNT2-T
	Gray	GFTR1-GY	GFNT1-GY	GFTR2-GY	GFNT2-GY
	Black	GFTR1-E	GFNT1-E	GFTR2-E	GFNT2-E
	Brown	GFTR1	GFNT1	GFTR2	GFNT2
	Red	-	-	-	GFNT2-R
Duplex Weather-Resistant/	White	GFWT1-W	GFWR1-W	GFWT2-W	GFWR2-W
Outdoor Grade with LED Indicator	lvory	GFWT1-l	-	GFWT2-I	-
	Light Almond	GFWT1-T	-	GFWT2-T	-
	Gray	GFWT1-GY	-	GFWT2-GY	-
	Black	GFWT1-E	GFWR1-E	GFWT2-E	GFWR2-E
Duplex Guide Light	White	GFNL1-W	-	GFNL2-W	-
with LED Indicator (with self-grounding clip)	lvory	GFNL1-I	-	GFNL2-I	-
	Light Almond	GFNL1-T	-	GFNL2-T	-
	Black	GFNL1-E	-	-	-
Duplex with Audible Trip	White	GFTA1-W	-	GFTA2-W	-
Alert with LED Indicator (with self-grounding clip)	lvory	GFTA1-I	-	GFTA2-I	-
	Light Almond	GFTA1-T	-	GFTA2-T	-
Combination Switch	White	GFSW1-W	-	-	-
with LED Indicator (with self-grounding clip)	Ivory	GFSW1-I	-	-	-
(15 Amp @ 120 VAC Switch rating)	Light Almond	GFSW1-T	-	-	-
Blank Face with LED Indicator	White		GFR	RBF-W	•
(with self-grounding clip) (20A feedthrough rating only)	Ivory		GF	RBF-I	
	Light Almond		GFF	RBF-T	

Leviton Manufacturing Co., Inc. World Headquarters

201 North Service Road, Melville, NY 11747-3138 Telephone: 1-800-323-8920 FAX: 1-800-832-9538 Tech Line (8:30AM-7:00PM E.T. Monday-Friday): 1-800-824-3005



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UPC Code: 07847781544

Color:

Country Of Origin: United States

Gray



CR20-GY

Duplex Receptacle Outlet, Commercial Specification Grade, Indented Face, 20 Amp, 125 Volt, Back and Side Wire, NEMA 5-20R, 2-Pole, 3-Wire, Self-Grounding - Gray

Leviton's line of Heavy-Duty Specification Grade receptacles are designed and manufactured to withstand the most demanding environments. Available in a wide variety of configurations, including isolated ground, tamper-resistant, etc., these Commercial Grade devices are the electrical contractor's choice for use in hotels, schools, hospitals and commercial office buildings.

Technical Information

At Rated Voltage: 1 HP

Electrical Specifications

Amperage: 20 A

Current Limiting: Full Rated Current **Dielectric Voltage:** Withstands 2000V

per UL498

Grounding: Self-Grounding

Pole: 2

Temperature Rise: Max 30C after 100 cycles OL at 150 percent rated current

Voltage: 125 VAC

Wire: 3

Environmental Specifications

Operating Temperature: -40°C to 60°C

Material Specifications

Body Material: Thermoplastic **Face Material:** Thermoplastic

Ground Clips: Brass

Grounding Screw: Steel 8-32 **Line Contacts:** Brass .031 Thick

Strap Material: Zinc-Plated Steel Terminal Screws: Steel 8-32

Mechanical Specifications

Product ID: Ratings are permanently

marked on device

Terminal Accom.: 14-10 AWG

Terminal ID: Brass-Hot, Green-Ground,

Silver-Neutral

Termination: Back and Side Wire

Product Features
Color: Gray

Device Type: Duplex Receptacle Outlet **Grade:** Commercial Specification Grade

NEMA: 5-20R

Standards and Certifications

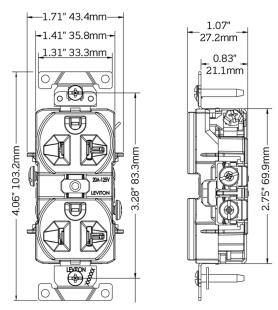
ANSI: C-73

CSA C22.2 No. 42: File 152105

NEMA: WD-1 & WD-6

NOM: 057

UL498: File E13399 **Warranty:** 10 Year Limited



Drawing Applies to 15 & 20A Devices

SPECIFICATION SUBMITTAL

JOB NAME:		CATALOG NUMBERS:
ı		
ı	JOB NUMBER:	

Leviton Manufacturing Co., Inc.

201 North Service Road, Melville, NY 11747
Telephone: +1-800-323-8920 · FAX: +1-800-832-9538 · Tech Line (8:30AM-7:30PM E.S.T. Monday-Friday): +1-800-824-3005

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Leviton S. de R.L. de C.V.

Lago Tana 43, Mexico DF, Mexico CP 11290 · Tel.: (+52)55-5082-1040 · FAX: (+52)5386-1797 · www.leviton.com.mx

Visit our Website at: www.leviton.com

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Leviton has a global presence.

If you would like to know where your local Leviton office is located please go to: www.leviton.com/international/contacts/



DESCRIPTION

The patented Lumark Crosstour™ LED Wall Pack Series of luminaries provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and medium design. The small housing is available in 12W, 18W and 26W. The medium housing is available in the 38W model. Patented secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three half-inch, NPT threaded conduit entry points. The universal back box supports both the small and medium forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. Onepiece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

Optical

cilicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Available in seven lumen packages; 5000K, 4000K and 3000K CCT.

Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 12W, 18W, 26W and 38W series operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Three half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized

electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

Finish

Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

Five-year warranty.

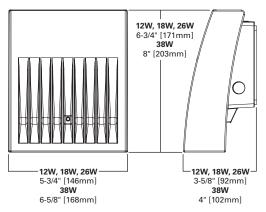


Lumark

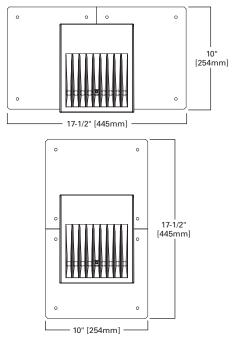
XTOR CROSSTOUR LED

APPLICATIONS: WALL / SURFACE POST / BOLLARD LOW LEVEL FLOODLIGHT INVERTED SITE LIGHTING

DIMENSIONS



ESCUTCHEON PLATES







CERTIFICATION DATA

UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
ADA Compliant
NOM Compliant Models
IP66 Ingressed Protection Rated
Title 24 Compliant
DesignLights Consortium® Qualified*

TECHNICAL DATA

40°C Maximum Ambient Temperature External Supply Wiring 90°C Minimum

EPA

Effective Projected Area (Sq. Ft.): XTOR1B, XT0R2B, XT0R3B=0.34 XTOR4B=0.45

SHIPPING DATA:

Approximate Net Weight: 3.7 – 5.25 lbs. [1.7 – 2.4 kgs.]



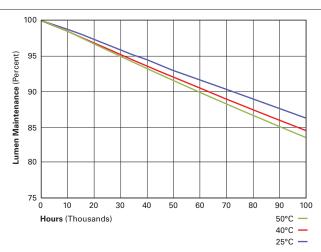
POWER AND LUMENS BY FIXTURE MODEL

LED Information	XTOR1B	XTOR1B-W	XTOR1B-Y	XTOR2B	XTOR2B-W	XTOR2B-Y	XTOR3B	XTOR3B-W	XTOR3B-Y	XTOR4B	XTOR4B-W	XTOR4B-Y
Delivered Lumens (Wall Mount)	1,418	1,396	1,327	2,135	2,103	1,997	2,751	2,710	2,575	4,269	4,205	3,995
Delivered Lumens (With Flood Accessory Kit) ¹	1,005	990	940	1,495	1,472	1,399	2,099	2,068	1,965	3,168	3,121	2,965
B.U.G. Rating ²	B1-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0								
CCT (Kelvin)	5,000	4,000	3,000	5,000	4,000	3,000	5,000	4,000	3,000	5,000	4,000	3,000
CRI (Color Rendering Index)	70	70	70	70	70	70	70	70	70	70	70	70
Power Consumption (Watts)	12W	12W	12W	18W	18W	18W	26W	26W	26W	38W	38W	38W

NOTES: 1 Includes shield and visor. 2 B.U.G. Rating does not apply to floodlighting.

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)					
XTOR1B Mode	XTOR1B Model						
25°C	> 90%	255,000					
40°C	> 89%	234,000					
50°C	> 88%	215,000					
XTOR2B Mode	I						
25°C	> 89%	240,000					
40°C	> 88%	212,000					
50°C	> 87%	196,000					
XTOR3B Mode	I						
25°C	> 89%	240,000					
40°C	> 88%	212,000					
50°C	> 87%	196,000					
XTOR4B Mode	XTOR4B Model						
25°C	> 89%	222,000					
40°C	> 87%	198,000					
50°C	> 87%	184,000					



CURRENT DRAW

Valtana	Model Series					
Voltage	XTOR1B	XTOR2B	XTOR3B	XTOR4B		
120V	0.103A	0.15A	0.22A	0.34A		
208V	0.060A	0.09A	0.13A	0.17A		
240V	0.053A	0.08A	0.11A	0.17A		
277V	0.048A	0.07A	0.10A	0.15A		
347V	0.039A	0.06A	0.082A	0.12A		

ORDERING INFORMATION

Sample Number: XTOR2B-W-WT-PC1

Series ¹	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately)
XTOR1B=Small Door, 12W XTOR2B=Small Door, 18W XTOR3B=Small Door, 26W XTOR4B=Medium Door, 38W	[Blank]=Bright White (Standard), 5000K W=Neutral White, 4000K Y=Warm White, 3000K	[Blank]=Carbon Bronze (Standard) WT=Summit White BK=Black BZ=Bronze AP=Grey GM=Graphite Metallic DP=Dark Platinum	PC1=Photocontrol 120V ² PC2=Photocontrol 208-277V ^{2.3} 347V=347V ⁴ HA=50°C High Ambient ⁴	WG/XTOR=Wire Guard ⁵ XTORFLD-KNC=Knuckle Floodlight Kit ⁶ XTORFLD-TRN=Trunnion Floodlight Kit ⁶ XTORFLD-KNC=WT=Knuckle Floodlight Kit, Summit White ⁶ XTORFLD-TRN-WT=Trunnion Floodlight Kit, Summit White ⁶ EWP/XTOR=Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT=Escutcheon Wall Plate, Summit White

- 1. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.

- 1. Design Lights Consortium Unailine and classified for both DLC Standard and DLC Fremium, refer to www.designingnts.org for details.
 2. Photocontrols are factory installed.
 3. Order PC2 for 347V models.
 4. Thru-branch wiring not available with HA option or with 347V. XTOR3B not available with HA and 347V or 120V combination.
 5. Wire guard for wall/Surface mount. Not for use with floodlight kit accessory.
 6. Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.

STOCK ORDERING INFORMATION

12W Series	18W Series	26W Series	38W Series
XTOR1B=12W, 5000K, Carbon Bronze	XTOR2B=18W, 5000K, Carbon Bronze	XTOR3B=26W, 5000K, Carbon Bronze	XTOR4B=38W, 5000K, Carbon Bronze
XTOR1B-WT=12W, 5000K, Summit White	XTOR2B-W=18W, 4000K, Carbon Bronze	XTOR3B-W=26W, 4000K, Carbon Bronze	XTOR4B-W=38W, 4000K, Carbon Bronze
XTOR1B-PC1=12W, 5000K, 120V PC, Carbon Bronze	XTOR2B-WT=18W, 5000K, Summit White	XTOR3B-WT=26W, 5000K, Summit White	XTOR4B-WT=38W, 5000K, Summit White
XTOR1B-W=12W, 4000K, Carbon Bronze	XTOR2B-PC1=18W, 5000K, 120V PC, Carbon Bronze	XTOR3B-PC1=26W, 5000K, 120V PC, Carbon Bronze	XTOR4B-PC1=38W, 5000K, 120V PC, Carbon Bronze
XTOR1B-W-PC1=12W, 4000K, 120V PC, Carbon Bronze	XTOR2B-W-PC1=18W, 4000K, 120V PC, Carbon Bronze		XTOR4B-W-PC1=38W, 4000K, 120V PC, Carbon Bronze





Passive Infrared Ceiling Occupancy Sensor



Description

The OSCxx-IOW is a Passive Infrared (PIR) ceiling mount, low voltage occupancy sensor that works in conjunction with the Leviton OSPxx Power Pack to control lighting. The sensor's main function is to turn the lights ON or maintain the lights ON while movement is detected within the sensor's range and to turn the lights OFF when the space is left unoccupied.

The sensor uses a dual element PIR heat detector that resides behind a multi-zone optical lens. This Fresnel lens establishes dozens of zones of detection. The sensor is sensitive to the heat emitted by the human body. In order to trigger the sensor, the source of heat must move from one zone of sensing to another. Non-moving hot objects will not cause the lights to turn ON (like incandescent lights).

Applications

- Classrooms Utility closets
 - Conference rooms
- Copy rooms Hallways
- Small offices
- Open areas Private restrooms Storage rooms
- Vending rooms Open warehouses Work spaces

Features

- Fast, simple installation: easy base mount, three wire connection (low voltage) and twist-and-lock
- Self-adjusting: internal microprocessor continually analyzes, evaluates and adjusts the infrared sensitivity and time delay. Performance is kept at a maximum and user complaints are eliminated.
- Flexible base mounting: supplied twist-and-lock base mount permits fast alignment. Supplied cover hides mounting hardware and wires. Can be used with raceways for hard surface installations.
- Range & coverage: 450 sq. feet and 1,500 sq. feet models available
- Maximum reliability, low cost: all digital circuitry uses a minimum of components
- Power base (OPB15) available for line voltage applications
- Ambient light recognition: a light sensor prevents lights from turning on when the room is adequately lit by natural light
- Non-volatile memory: learned and adjusted settings saved in protected memory are not lost during power outages
- Timer setting feature: automatic—30sec-30min. Test mode—6sec with auto exit programming.
- PIR masking: pre-scored masking disks are provided with the device for fine tuning the field-of-view
- Walk-through: provides increased energy savings by decreasing the time delay to 2.5min when someone momentarily walks through the monitored space
- High motion sensitivity: large lens area and multi-element lens design gives excellent range and sensitivity
- Custom off-white color matched for shaded ceilings and most common ceiling tiles
- Device: rugged, high-impact, injection molded plastic. Color coded leads are 6" long (16.24 cm).

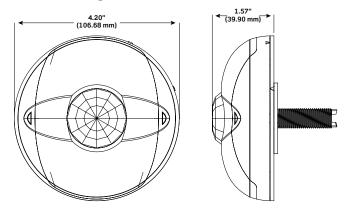
Condition	Example	Adaptive Reaction	
Timer left in text mode—the sensor remains in a 6 sec. test mode	An installer accidently leaves the sensor in the 6 sec. timer text mode and the lights may go on or off every 6 seconds	The sensor automatically resets the timer to 10 minutes after 15 minutes of test mode	
False ON—the sensor incorrectly turns the lights ON	The sensor detects movement in the corridor hallway and the room lights turn ON	After an initial movement is sensed, if another movement is not sensed within the timer setting, then the delayed OFF time setting is automatically reduced	
False OFF—the sensor incorrectly turns the lights OFF	The sensor does not detect movement because an occupant sits virtually motionless at a desk and the lights turn OFF	If motion is sensed within a short period after the lights go OFF, then the current delayed OFF time setting is increased	

DIP Switch Settings

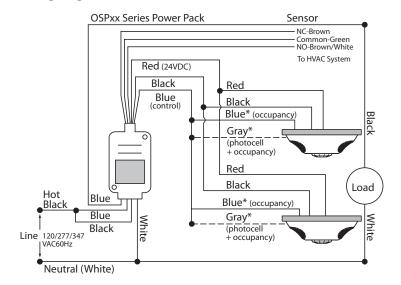
Switch		Switch Functions	Switch Settings
	Bank A	OFF	ON
A1	N/A		
A2	N/A		
АЗ	Manual Mode	Auto Adapting Enabled	Auto Adapting Disabled
A4	Walk-Thru Disabled	Walk-Thru Enabled	Walk-Thru Disabled
	Bank B		
B1	Override to ON	Auto Mode	Lights forced ON
B2	Override to OFF	Auto Mode	Lights forced OFF
B3	Test Mode	OFF ON OFF	Enter/Exit Test Mode
B4	LED Disabled	LEDs Enabled	LEDs Disabled

^{*}Bold items are factory defaults

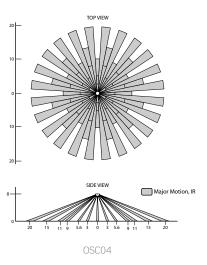
Dimensions Diagrams

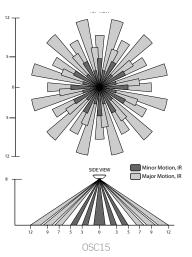


Wiring Diagram



Field-Of-View Diagrams





Product Data OSCxx-IOW



Specifications

Electrical	
Power Requirements	24 VDC, 10mA from OSPxx Power Pack or OPB15 Power Base
Power Consumption	10mA
Output	24 VDC active high logic control signal with short circuit protection
Controls	
Infrared Sensitivity	0 to 100%; red knob (factory setting: 75%)
Light Sensor	20 to 3,000 Lux; blue knob factory set at 100% (grey wire required)
Time Delay	30sec-30min; black knob (factory setting: 10min)
Indicators	
Red LED Lamp	Passive infrared motion technology
Environmental	
Operating Temperature Range	32-104°F (0-40°C)
Relative Humidity	0-95% non-condensing, for indoor use only
Other	
Mounting Height	8-10 feet
Energy Codes	Can be used to comply with IECc, ASHRAE 90.1 and 2019 Title 24, Part 6 occupancy sensing requirements
Listings	CUL/US Certified
Warranty	Limited 5-Year

Ordering Information

Header	
Cat. No.	Description
OSC04-IOW	Passive Infrared Ceiling Sensor, 450 sq. feet of coverage
OSC04-IAW	Passive Infrared Ceiling Sensor, 1500 sq feet of coverage, made in USA
OSC15-IOW	Passive Infrared Ceiling Sensor, 1500 sq. feet of coverage
OSC15-IAW	Passive Infrared Ceiling Sensor, 1500 sq. feet of coverage, made in USA

Product Data OSCxx-I0W



Leviton Manufacturing Co., Inc. Lighting & Controls20497 SW Teton Avenue, Tualatin, OR 97062 **tel** 800-736-6682 **tech line** (6:00AM-4:00PM PT Mon-Fri) 800-959-6004

Leviton Manufacturing Co., Inc. Global Headquarters201 North Service Road, Melville, NY 11747-3138 **tel** 800-323-8920 **tech line** (8:30AM-7:00PM ET Mon-Fri) 800-824-3005



Super Duty Power Pack Line

High performance line includes models for daylight harvesting, bi-level switching, plug load control, CA Title 24, occupancy sensing control and manual switching



DEFINITION

The OPP20 is the latest addition to the Leviton Power Pack family, delivering a wide array of switching solutions in a single unit. Submitted for stringent testing, this robust power pack line is designed to deliver unmatched performance. The OPP20 line features robust and reliable mechanical latching relays, exclusive fail-safe circuitry, daylight harvesting, bi-level switching and is configurable for energy code requirements. Exclusive Leviton High Inrush Stability (H.I.S.) circuitry is specifically designed to handle high inrush electronic ballast loads and offer unmatched durability and service.

APPLICATIONS

- Can be used to comply with NY LL48, IECC, ASHRAE 90.1 and Title 24, Part 6 daylight harvesting, demand response, bi-level switching and receptacle control requirements
- Auto-ON/auto-OFF with local switch
- Manual-ON/auto-OFF with local switch

OPP20 SOFTWARE FEATURES

• Fail-safe circuitry/return-to-closed capability

OPP20-OD1

Auto-ON occupancy sensor input

OPP20-OD2

- Exclusive patented self-detect configurable local switch input momentary or maintained
- Configurable for auto-ON and manual-ON occupancy sensor inputs

OPP20-RD3

- Auto-ON occupancy sensor input
- Photocell ready

OPP20-RD4

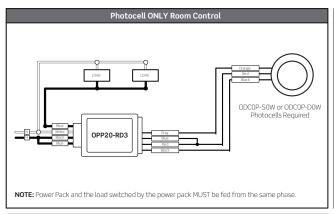
- Exclusive patented self-detect configurable local switch input - momentary or maintained
- Configurable for auto-ON and manual-ON occupancy sensor inputs
- Photocell ready

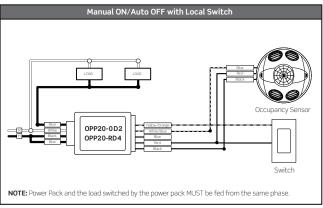
OPP20 HARDWARE FEATURES

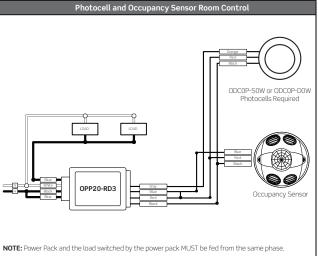
- Robust and reliable mechanically held latching relay provides dependability and robust performance for all load types and provides power savings over electrically held relay power packs
- Industry exclusive fail-safe circuitry in the event of product failure, return-to-closed capability causes relay to default to a closed position (ON) for safe operation and alleviates life safety concerns
- Industry exclusive H.I.S. circuit designed to handle high inrush electronic ballast loads
- Factory calibrated zero crossing for extended life of the relay
- Submitted and passed for stringent testing:
- Tested over 1,500,000 loaded cycles
- Passed NEMA 410 testing for Electronic Ballast Inrush Current
- UL/cUL 916 listed for Energy Management Equipment
- Power supply output short circuit protection
- Voltage regulated at 24VDC, 225mA
- Optimal installation flexibility
 - Class 2 wires are Teflon coated for UL2043 Plenum Rated applications
 - Mounts inside or outside fluorescent ballast cavity
- Mounts inside or outside junction box
- RoHS compliant

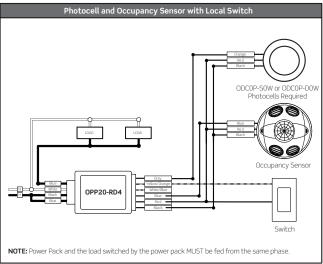


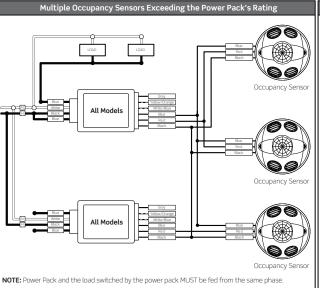
APPLICATION DIAGRAMS

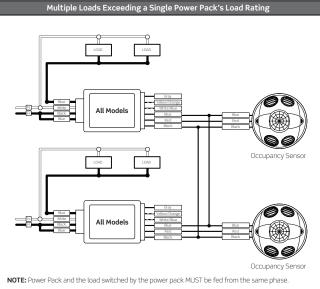






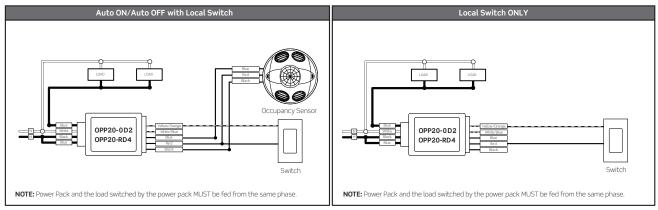


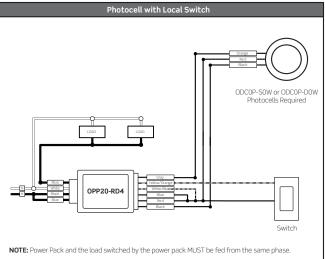


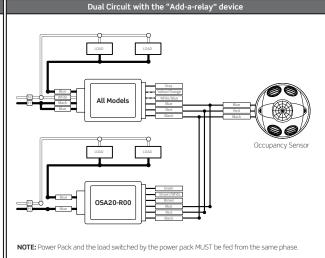


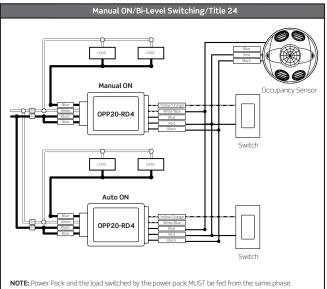


APPLICATION DIAGRAMS



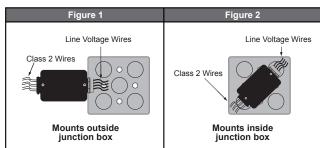




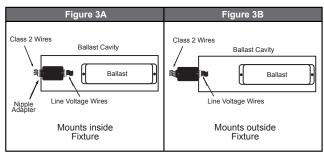


For additional wiring diagrams, see the Occupancy Sensors Application Cookbook at www.leviton.com/lesdrawings.

JUNCTION BOX INSTALLATION



FLUORESCENT BALLAST INSTALLATION



PRODUCT DATA



SPECIFICATIONS

ENVIRONMENTAL					
Operating Temperature Range	32 to 122°F (0 to 50°C)				
Relative Humidity	0 to 90% non-condensing, for indoor use only				
OTHER					
Case: high impact, UL rated plastic Relay: 60A rated magnetic latching relay; silver alloy contacts Wire: 6" leads, 18AWG input; 14AWG load; LV connections: 8" leads 22AWG					
Dimensions	2.40"H x 3.81"W x 1.43"D (60.96mm x 96.80mm x 36.37mm)				
Listings	UL/cUL Listed, FCC Certified, NOM Certified, can be used to comply with NY LL48, IECC, ASHRAE 90.1 and Title 24, Part 6 daylight harvesting, demand response, bi-level switching and receptacle control requirements, RoHs Compliant				
Color	Gray				
Warranty	Limited five-year warranty				

ORDERING INFORMATION*

DESCRIPTION	CAT. NO.	POWER INPUT	RELAY RATING	CONTROL INPUTS	POWER SUPPLY OUTPUT
Power Back, Basic with Auto-ON	OPP20-0D1		20A, 2400W @ 120V - Resistive 20A, 2400W @ 120V - General Purpose		
Power pack with auto-ON, manual- ON, and local switch inputs	OPP20-0D2		20A, 2400W @ 120V - Incandescent 20A, 2400W @ 120V - Fluorescent 16A, 1920VA @ 120V - Electronic Ballasts 16A, 1920W @ 120V - LED 20A, 5540W @ 277V - Resistive 20A, 5540W @ 277V - General Purpose	2mA, 24VDC	
Power pack with auto-ON and photocell input	OPP20-RD3	120-230-277VAC, 50/60 Hz	20A, 5540VA @ 277V - Fluorescent 16A, 4430VA @ 277V - Electronic Ballasts 16A, 4430W @ 277V - LED 1/2 HP @ 120V - Motor Load		225mA, 24VDC, 5.4W
Power pack with auto-ON, manual- ON, local switch, and photocell input	OPP20-RD4		2 HP @ 240/277V - Motor Load Suitable for general purpose plug load control - 20A, 2400W @120V - Can be used to comply with NY LL48, IECC, ASHRAE 90.1 and Title 24, Part 6 daylight harvesting, demand response, bi-level switching and receptacle control requirements		

^{*}For CE Compliant Lighting Control Module, see the OPPCE data sheet.

POWER PACK CAPACITY FORMULA

Leviton power packs can be used to provide power to one or more occupancy sensors. Since current consumptions of occupancy sensors may vary, the best way to ensure you order the correct number of power packs and add-a-relays is by using this formula:







<u><</u> 225mA

Power supply output per below chart



DESCRIPTION	CURRENT CONSUMPTION
OSCO4-I, OSC15-I, OSWHB-I, OSWLR-I, OSWWV-I	10-15mA
OSC05-M, OSC05-U, OSW12-M	25mA
OSC10-M, OSC10-U	35mA
OSC20-M, OSC20-U	30mA
OSA20-R Add-a-Relay	50mA
ODCOP-SOW Switching Photocell	10mA
ODCOP-DOW Dimming Photocell	10mA

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SYLVANIA

LEDVANCE Luminaires Vapor Tight



Product Features

The Vapor Tight luminaires are environmentally preferable LED alternatives to traditional HID or fluorescent luminaires, offering up to 67% in energy savings. Ideal in place of traditional luminaires, or as new installations, the Vapor Tight series is suitable for illuminating garages, stairwells, industrial areas, canopies, and outdoor walkways.

The Vapor Tight luminaires are IP65 rated and are offered with integrated sensor and emergency backup options. LEDVANCE luminaires assure optimum light engine performance for extended service and rated life (\geq 66,000 hours L₇₀).

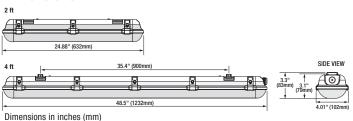
Wattage Comparison Chart

Vapor Tight

Traditional System	LED System	Energy
Wattage	Wattage	Savings
33	25	24%
27	25	7%
62	25	60%
92	25	67%
50	40	20%
54	40	26%
86	40	53%
91	40	56%
50	50	0%
54	50	7%
86	50	42%
91	50	45%
	Wattage 33 27 62 92 50 54 86 91 50 54 86	Wattage Wattage 33 25 27 25 62 25 92 25 50 40 54 40 86 40 91 40 50 50 54 50 86 50

Catalog #	Туре
Project	
Notes	
Date	
Prepared by	

Dimensions



Specifications

Weight: 2 ft: 2.5 lbs. (1.2 kg)

4 ft: 4.8 lbs (2.2 kg) Standard 5.5 lbs (2.5 kg) Emergency

5.1 lbs (2.3 kg) Sensor 5.8 lbs (2.6 kg) Sensor and Emergency

Construction: One-piece polycarbonate housing with one-piece polycarbonate lens and stainless steel clips. The standard color is gray.

LED System: LED system with a life rating of \geq 66,000 hours (UNV) and \geq 84,000 hours (HUV) at L₇₀ @25°C. Luminaire efficacy up to 140 LPW.

Electrical: Offered in 25, 40 and 50 Watts, the luminaire is designed to operate through the 120V-277Vac universal voltage and 347-480Vac high universal voltage range. The LED driver has a 2.5kV inherent surge suppression and is a constant current device, meeting UL1310 and UL48 Class 2 with built-in over temperature protection. The power factor is \geq 90% and THD is \leq 20%.

Dimming: The driver is 0-10V dimmable (down to 6%). Please reference the dimmer compatibility document (LEDLUM012).

Color Characteristics: CRI>80; CCT of 4000K or 5000K.

Optics: Type V distribution with a clear etched polycarbonate lens.

Installation: Luminaire mounts to recessed outlet box or can be surface or chain mounted (chain not included). Connector available for tandem wiring. External controls can be added through existing knockouts.

Operating Temperature: $-40^{\circ}F$ to $+104^{\circ}F$ ($-40^{\circ}C$ to $+40^{\circ}C$); EM: $+14^{\circ}F$ to $+104^{\circ}F$ ($-10^{\circ}C$ to $+40^{\circ}C$).

Listings: cULus listed to UL1598 standards for wet locations and IP65 rated.

Warranty: Standard 5-year luminaire warranty (LEDLUM001).

Note: Specifications subject to change without notice. IES files available online.











*DLC Premium only applicable to 25W and 40W versions with clear lens option

Ordering Guide

Item Number:

VAPOR	XX /	XXX	XXX	D	8	XX	1	XX	EC	/	GR	/	XX
Product	Generation	Wattage	Voltage	Dimming	CRI	Color Temp		Size	Optics		Color/Finish	1	Options
Name	1A	025 = 25 Watts	UNV = 120-277V	D = 0-10V	8≥80	(CCT)		24 = 24"	EC = Etched Lens		GR = Gray		Blank = No Option
VAPOR	1B	040 = 40 Watts	$HUV = 347-480V^*$			40 = 4000K		long	Type V Distribution				D = Motion/Daylighting Sensor**
		050 = 50 Watts				50 = 5000K		48 = 48"					E = Emergency**
								long					

^{*}HUV version only available in 50W
**Only available on 48" UNV versions



Photometric Data

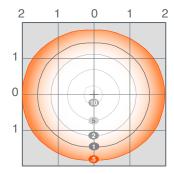
VAPOR1A/025UNVD8X0 Isofootcandle Lines at 15' Mounting Height



For other mounting heights apply the following multipliers:

Mounting Height	10'	12'	15'	18'	20'	
Multiplier	2.25	1.56	1.00	0.44	0.36	

VAPOR1A/040UNVD8X0 Isofootcandle Lines at 12' Mounting Height



For other mounting heights apply the following multipliers:

Mounting Height	8'	10'	12'	15'	16'	18'
Multiplier	2.25	1.44	1.00	0.73	0.56	0.44

Fixture Spacing Chart

	VAP0R1	IA/025UNVD840/4	8EC/GR	VAPOR1B/040UNVD840/48EC/GR						
	On C	enter Fixture Spa	icing	On Center Fixture Spacing						
	8'x10'	10'x10'	10'x12'	8'x10'	10'x10' 10'x1					
8'	39	29	23.2	65.6	51.2	40.2				
10'	37.9	28.1	22.5	63.6	49.9	39.2				
12'	35.2	27.3	21.9	63.4	48.3	38.1				
14'	34.2	26.6	21.3	61.7	47.3	37.2				
16'	33.2	25.6	20.7	55.5	46.3	36.2				
18'	32.3	24.9	20.1	53.9	44.7	35.3				

Average Illuminance (fc) at 0" AFF.

80/50/20 reflectances.

Ordering Information

						Color	Total Fi	xture Lumens	LPW*		DLC**		
Item	Ordering	Power	Input			Temp	Clear	Diffuse	Clear	Diffuse	Clear	Diffuse	
Number	Abbreviation	(W)	Voltage	Dimming	CRI	(CCT)	Lens	Lens	Lens	Lens	Lens	Lens	Options
74530	VAPOR1A/025UNVD840/24EC/GR	25	120-277V	0-10V	>80	4000K	3100	2800	135	121	Prm	Std	_
74531	VAPOR1A/025UNVD850/24EC/GR	25	120-277V	0-10V	>80	5000K	3100	2800	137	123	Prm	Std	_
74222	VAPOR1A/050UNVD840/48EC/GR	50	120-277V	0-10V	>80	4000K	5000	-	102	-	-	-	_
74223	VAPOR1A/050UNVD850/48EC/GR	50	120-277V	0-10V	>80	5000K	5000	-	103	-	-	-	_
74224	VAPOR1A/050UNVD840/48EC/GR/D	50	120-277V	0-10V	>80	5000K	4000	-	102	-	-	-	Sensor
74225	VAPOR1A/050UNVD850/48EC/GR/D	50	120-277V	0-10V	>80	5000K	5000	-	103	-	-	-	Sensor
74227	VAPOR1A/050UNVD850/48EC/GR/E	50	120-277V	0-10V	>80	5000K	5000	-	103	-	-	-	Emergency
74229	VAPOR1A/050UNVD850/48EC/GR/DE	50	120-277V	0-10V	>80	5000K	5000	_	103	-	-	-	Sensor, Emergency
74552	VAPOR1A/050HUVD840/48EC/GR	50	347-480V	0-10V	>80	4000K	5700	-	111	-	Std	-	_
74553	VAPOR1A/050HUVD850/48EC/GR	50	347-480V	0-10V	>80	5000K	5700	-	111	-	Std	-	_
74376	VAPOR1B/040UNVD840/48EC/GR	40	120-277V	0-10V	>80	4000K	5300	4600	139	120	Prm	Std	_
74377	VAPOR1B/040UNVD850/48EC/GR	40	120-277V	0-10V	>80	5000K	5300	4700	137	122	Prm	Std	_
74378	VAPOR1B/040UNVD840/48EC/GR/D	40	120-277V	0-10V	>80	4000K	5400	4500	140	116	Prm	Std	Sensor
74379	VAPOR1B/040UNVD850/48EC/GR/D	40	120-277V	0-10V	>80	5000K	5400	4600	137	119	Prm	Std	Sensor
74554	VAPOR1B/040UNVD840/48EC/GR/E	40	120-277V	0-10V	>80	4000K	5300	4600	139	120	Prm	Std	Emergency
74555	VAPOR1B/040UNVD850/48EC/GR/E	40	120-277V	0-10V	>80	5000K	5300	4700	137	122	Prm	Std	Emergency
74556	VAPOR1B/040UNVD840/48EC/GR/DE	40	120-277V	0-10V	>80	4000K	5400	4500	140	116	Prm	Std	Sensor, Emergency
74557	VAPOR1B/040UNVD850/48EC/GR/DE	40	120-277V	0-10V	>80	5000K	5400	4600	137	119	Prm	Std	Sensor, Emergency

*LPW per LM79 report.

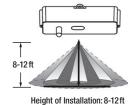
**Prm for DLC Premium; Std for DLC Standard
For further information and to learn more about utility rebates, contact your local SYLVANIA sales representative.

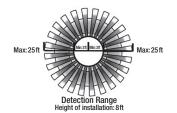
Options Information

Sensor: Motion and Daylight sensors are both available.

Motion Sensor (Default Setting):

Motion	100% lumen output			
≥5min with no motion	30% lumen output			
≥30min with no motion	Off			





Daylight (Default Setting): 5fc/24H

For customized settings: Purchase remote control separately and refer to the Vapor Tight Remote document LEDLUM015 for further instructions.

Emergency Battery Backup:

Activates when normal power supply to the fixture fails, providing a minimum of 500 lumens for at least 90 minutes.

Accessories and Replacement Parts

Item Number	Ordering Abbreviation	Item Description	
74310	VAPOR1A/REMOTE	Vapor Tight Sensor Remote compatible with VAPOR1A	
74541	VAPOR1B/REMOTE	Vapor Tight Sensor Remote compatible with VAPOR1B	
74744	VAPOR1X/LENS/24D5	2ft Diffused Lens	
74538	VAPOR1X/LENS/48D5	4ft Diffused Lens	
74448	VAPOR1A/LENS/48EC	4ft Replacement Lens	
74920	VAPOR1A/CONN/BL	Tandem Wiring Connector	

LEDVANCE LLC 200 Ballardvale Street Wilmington, MA 01887 USA Phone 1-800-LIGHTBULB (1-800-544-4828) www.sylvania.com

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All other trademarks are those of their respective owners.
Licensee of product trademark SYLVANIA in general lighting.
Specifications subject to change without notice.



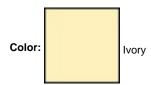






T5825-I





UPC Code: 07847745050 Country of Origin: China

Tamper-Resistant Receptacles

Brand Features

Leviton's Decora duplex receptacles are designed for a chic appearance, quick installation and durability. The impact-resistant thermoplastic design allows for a long service life and high performance in homes, offices, schools and other settings. It also coordinates beautifully with Leviton's complete line of Decora devices.

Item Description

Ultrasonically welded, 20A Tamper-Resistant, Decora duplex receptacle. Residential grade, NEMA 5-20R, side wired only, UL, CSA and NOM

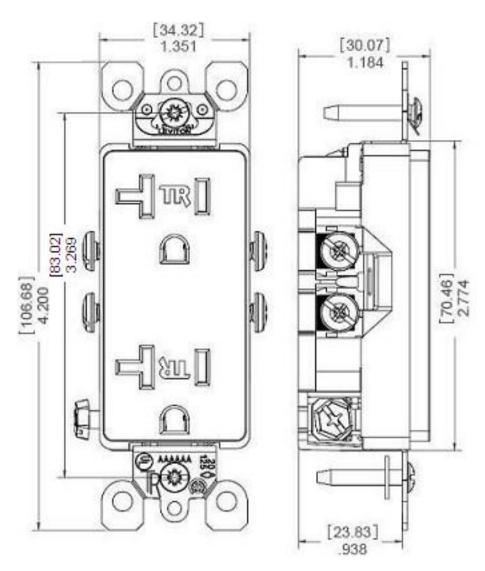
Technical Information

Product Features
Amperage: 20 Amp
Voltage: 125 Volt

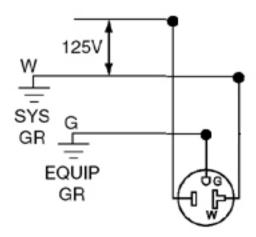
Device Type: Duplex Receptacle **Feature:** Tamper-Resistant

Ratings: 20A-125V Product Type: Decora

Color: Ivory



Wiring Diagram



5-20R

SPECIFICATION SUBMITTAL

JOB NAME:	CATALOG NUMBERS:	
JOB NUMBER:		

Leviton Manufacturing Co., Inc.
201 North Service Road, Melville, NY 11747
Telephone: 1-800-323-8920 · FAX: 1-800-832-9538 · Tech Line (8:30AM-7:30PM E.S.T. Monday-Friday): 1-800-824-3005

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Occupancy Sensor Protective Cages

Constructed from strong, durable coated steel wire, this rugged, easy to install device helps prevent damage without significantly affecting the sensor's range of detection, allowing the unit to be wall or ceiling mounted.

APPLICATIONS

- Gymnasiums Warehouses
- Auditoriums Correctional facilities
- Anywhere sensor protection is required

FEATURES AND BENEFITS

- Helps prevent vandalism or accidental damage
- Patented web-like octagon shape of g-gauge coated steel wire (ODCCG)
- Models to fit all Leviton ceiling and wall mount sensors are available
 - ODCCG for use with all ceiling sensors (OSCxx/ODCxx)
 - OSWCG for use with all low voltage wall mount sensors (OSWxx)
 - OSWWG for use with all wall switch sensors (ODSxx/OSSxx)
 - OSFCG for use with all fixture mount sensors (OSFxx)
- Corrosion-resistant polyester coating
- Fast and easy installation
- Simple removal for servicing occupancy sensor
- Lifetime guarantee against breakage from normal use
- May be spray-painted prior to installation to match decor
- UL Listed S3504 (ODCCG)
- NAFTA and ARRA Compliant (OSFCG, OSWCG, OSWWG)

DIMENSIONS

- ODCCG-ooW: 3" H x 7" W x 3.25" D (76mm > 178mm W x 83mm D)
- OSWCG-PoW: 12.735" H x 10.75" W x 7.375" D (314mm H x 273mm W x 187mm D)
- OSWWG-PoW: 6.375" H x 6.25" W x 2.0" D (162mm H x 158mm W x 51mm D)
- OSFCG-ooW: 6.75" H x 6.75" W x 8.0" D (171mm H x 171mm W x 203mm D)













OSFCG-ooW

ORDERING INFORMATION

CAT. NO.	DESCRIPTION
ODCCG-ooW	OSC/ODC Ceiling Mount Sensor Protective Cage
OSWCG-PoW	OSW Ceiling/Wall Mount Sensor Protective Cage, White
OSWWG-PoW	ODS/OSS Wall Switch Sensor Protective Cage, White
OSFCG-ooW	OSF High Bay Sensor Protective Cage, White

Leviton Mfg. Co., Inc. Lighting Management Systems



CNY LED LED Canopy/Ceiling Luminaire











Specifications

CNY LED P0/P1/P2

10" Width:

4.7" Height:

10" Depth:

6.5lbs Weight:

Introduction

Catalog Number

The CNY LED canopy luminaires are energy efficient and budget friendly, perfect for replacing up to 250W metal halide luminaires while saving up to 80% energy costs. Quick mount mechanism significantly reduces the installation time. An LED array and translucent lens create uniform and visually comfortable illumination. CNY LED luminaires are DLC Premium listed and deliver quick payback!

Ordering Information

EXAMPLE: CNY LED P1 50K MVOLT DDB

CNY LED					
Series	Performance Package		Voltage	Finish	
CNY LED	P0 3,500 lumens ¹ P1 4,500 lumens ¹ P2 6,600 lumens	40K 4000K ¹ 50K 5000K	MVOLT 120-277V ³	DDB Dark bronze WH White 1	

Accessories

CNYBCP 14 Inch x 14 Inch Beauty Cover Plate

NOTES

- 1. WH finish is only available in CNY P0 and P1 packages, and with 40K (4000K) color temperature only.
- 2. Correlated color temperature (CCT) shown is nominal per ANSI C78, 377-2008.
- 3. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).

FEATURES & SPECIFICATIONS

INTENDED USE

CNY LED luminaires are ideal, energy-efficient replacements for up to 250W MH canopy or ceiling luminaires. The CNY LED provides years of maintenance-free illumination for schools, malls, offices, parking areas, covered walkways and loading docks.

CONSTRUCTION

Cast-aluminum, corrosion-resistant housing with polyester powder paint for lasting durability. Castings are sealed with a one-piece gasket. Rated for outdoor installations, -40°C minimum ambient. Frosted lens is designed for uniform light distribution.

Includes an MVOLT (120-277V) driver. LEDs maintain 70% of light output at 50,000 or more hours of service life (L70/50,000 hours). CNY is CRI 80.

INSTALLATION

Mounts to a recessed junction box or surface mount with three conduit entry points. Can be pendant mounted with 34 NPT pendant stem provided by others. Quick mount mechanism significantly reduces installation time - no need to open the luminaire for installation.

LISTINGS

UL Listed to U.S. and Canadian safety standards for wet locations Tested in accordance with IESNA LM-79 and LM-80 standards. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. Can be used to comply with California Title 24 Part 6 High Efficacy LED light Source Requirements.

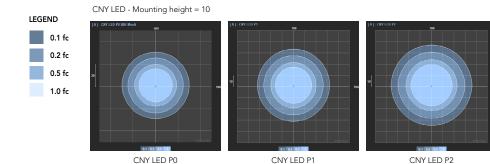
Five-year limited warranty. Complete warranty terms located at:

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



Photometric Diagrams

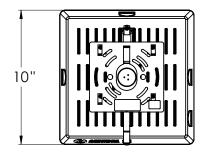
Full photometric data report available within 2 weeks from request. Contact Acuity Tech Support.

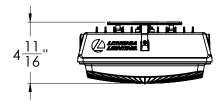


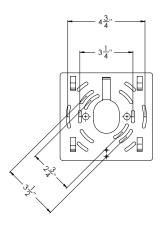
Performance Data

Performance Package	Lumens	Input Power	Lumens Per Watt
CNY LED PO	3,500	27W	130
CNY LED P1	4,500	35W	127
CNY LED P2	6,600	52W	128

Line Art











WP1100C, WP1200C, WP3100C Series

WP1100C, WP1200C, **WP3100C Series**

The WP1100C, WP1200C, and WP3100C Series Plastic While-In-Use Covers are easy to install and shipped with gasket, mounting screws, base, and cover assembly, and patented inserts for a variety of applications.

Features

- Complies with 2008 NEC Article 406.8(B)(1)
- 3 patented inserts for GFCI, duplex, toggle or round receptacles
- Two-gang models include 6 snap-together, rotating, inserts that create 70 combinations
- Single-gang covers mount vertically and horizontally
- Heavy-duty polycarbonate construction
- Pre-adhered gasket
- Meets requirements for cold impact testing: -60°F (-51°C)

Ratings

Cover: Clear (white on selected surfaces) UV

stabilized polycarbonate with two cord outlets 1/2" (12.7 mm) wide by 1/16" (14.2 mm) high. Models WP1150C and

WP1250C - one cord outlet 3/4"

(19.1 mm) wide by 1 5/16" (33.3 mm) high

Black UV stabilized polycarbonate Mounting Base and Inserts:

Neoprene – 1/8" (4.8 mm) thick with slits Gasket:

for mounting screws

Two 14 gauge AWG or One 12 gauge Maximum Cord Size:

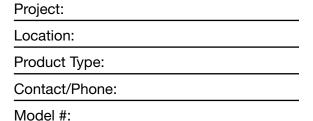
AWG WP1250C and WP1150C: Two 14 gauge AWG or One 10 gauge AWG

Shipping Weight: WP1110C - .41 lbs. (0.19 kg)

WP1150C/WP1230C - .75 lbs. (0.34 kg)

WP1220C - .72 lbs. (0.33 kg) WP1250C - .9 lbs. (0.41kg)

Warranty: Limited 1 year



















WP1100C, WP1200C, WP3100C Series



Model Number	Туре	Depth (in)	Color	Cord Diameter (in)	Exit Port Length (in)	Hidden Hinges	Lockable Hasp
WP1100WC	Single Gang, Horizontal or Vertical (WP17)	2 ¾	White	.5	.75	No	Yes
WP1110C	Single Gang, Horizontal or Vertical (WP17)	3 %	Clear	.5	.75	No	Yes
WP1150C	Single Gang, Horizontal or Vertical (WP17)	4 ¾	Clear	.8	1.27	No	Yes
WP1220C	Two Gang (WP217)	2 1/4	Clear	.5	.75	No	No
WP1230C	Two Gang (WP217)	3 1/8	Clear	.5	.75	No	No
WP1250C	Two Gang (WP217)	4 ¾	Clear	.8	1.27	No	Yes
WP3100C	Single Gang, Horizontal or Vertical (WP17)	2 ¾	Clear	.5	.97	Yes	Yes
WP3103C	3/0 Adapter Plate for 3" Round Box Applications, Single Gang, Horizontal or Vertical (WP17)	2 ¾	Clear	.5	.97	Yes	Yes

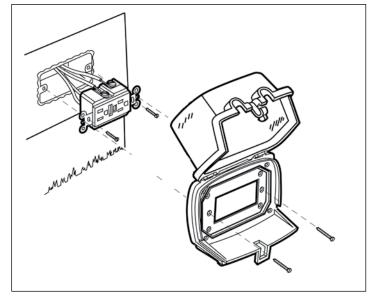
Specification

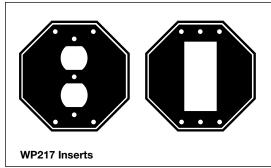
The weatherproof cover (WP1100C/WP3100C) shall be designed to mount on a single gang horizontal or vertical junction box to ensure weather protection for a standard receptacle. The cover shall mount on indoor or outdoor junction boxes and shall include a weatherproof cover/base assembly, a gasket, two universal inserts, and mounting hardware. The weatherproof cover shall include two inserts to provide flexibility in installation. The outlet cover shall meet UL requirements for wet locations. The weatherproof cover shall be designed to meet requirements of 2008 NEC Article 406.8(B)(1) and shall be NEMA 3R rated. The weatherproof cover shall be constructed entirely of UV stabilized high impact polycarbonate material. The cover, which encloses the cord set, shall be clear to allow visual inspection. The cover shall meet agency requirements for cold impact at -60°F (-51°C). The cover shall provide a useable inside depth of _______ (2 ½")(3 ½")(4 ½")). The weatherproof cover shall be Intermatic model _______ (See Model Numbers Listed).

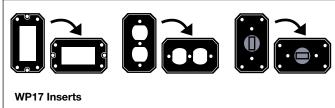
Specification

The weatherproof cover (WP1200C) shall be designed to mount on a two gang junction box to ensure weather protection for a standard receptacle. The cover shall mount on indoor or outdoor junction boxes and shall include a weatherproof cover/base assembly, a gasket, six universal inserts, and mounting hardware. The inserts must provide flexibility for mounting at any angle including: 90°, 180°, or 270°. The outlet cover shall meet UL requirements for wet locations. The weatherproof cover shall be designed to meet requirements of 2008 NEC Article 406.8(B)(1) and shall be NEMA 3R rated. The weatherproof cover and base shall be constructed entirely of UV stabilized polycarbonate material. The cover, which encloses the cord set, shall be clear to allow visual inspection. The cover shall meet agency requirements for cold impact at -60°F (-51°C). The cover shall provide a useable inside depth of ______(2 ½")(3 ½") (4 ½"). The Weatherproof cover shall be Intermatic model _______ (See Model Numbers Listed).

Diagrams







RLD Jackshaft

LIGHT-DUTY JACKSHAFT



The RLD Jackshaft is designed standard for Rolling Steel doors and for standard, high, and vertical-lift Sectional doors that have up to a 15-cycle/hour and less than a 30-cycle/day requirement. Designed for reliability with leading innovative features, the light-duty jackshaft sets a new standard in the industry.

RLD Jackshaft Advantages

- CodeDodger® 315/390 MHz receiver can store up to 255 standard and/or open/close/stop transmitters
- Soft start and stop reduces stress on the door and operator for improved life
- Safe-T-Pulse® Internal cable slack detection eliminates external cable monitoring devices and reverses door travel when cable tension isn't detected for safety
- Operator force profile detects irregularities in operation of the door to identify unsafe door operation. The force profile is updated every cycle to account for changes in weather and temperature
- Precision sealed roller bearings on output shaft for improved power transfer
- Interlock circuit with pre-installed jumper
- Output shaft coupler utilizes six set screws with threadlocker to reduce shaft slippage and screw back outs
- Output shaft coupler can be used on 1" hollow or solid door shafts with 1/4" keyway
- Optional LED worklight toggleable via stop button on Open Close/Stop control station
- Small operator profile of 12" length by 6.9" width allows for use in tight applications. Only requires 2.5" of headroom clearance and 7" of side room clearance to be used.

Construction

• Motor

Quiet, powerful 24 VDC with usage-based thermal shutdown

Drive

Primary — Integrated worm gear in motor Secondary — Internal chain and sprocket

• Emergency Disconnect

Drive shaft disconnection for emergency manual operation

- Pre-wired to accept:
 - Single or 3-button control stations
 - External interlock switch
 - Monitored photoeyes
- Amperage Rating 120 VAC at 4 A
- Power Cord

6 ft, three prong power cord

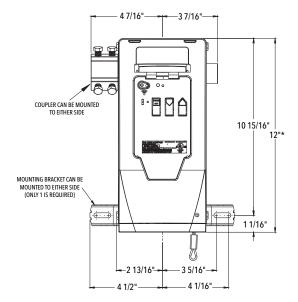
UL 325 Listed

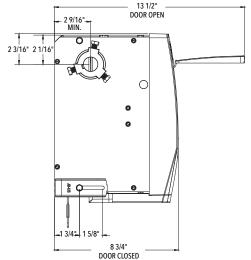
- Allows for monitored entrapment protection and momentary operation when used with select monitored entrapment devices
- See back for examples of monitored devices

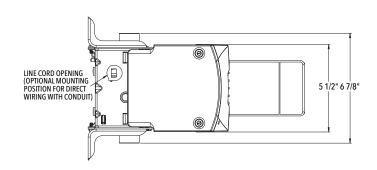


Standard features at a glance

- Easy push to set limits
- UL 325 Listed
- Automatic open and close door force settings
- Open/Close/Stop control station
- Programmable mid-stop
- Time-to-close can be set at pre-defined values between 0 seconds and 5 minutes
- Pull cord release for emergency manual operation.
- 2-year/20,000-cycle limited warranty
- Commercial photocells
- 7.5 in/sec door speed in both directions in most applications
- Operational on Sectional doors up to 14 ft. tall with up to 84" of high-lift, 18 ft. wide, 180 sq ft., and 850 lbs
- Operational on Rolling doors up to 16 ft. tall dead-shaft, up to 10 ft. tall live-shaft, and up to 12 ft. shutters























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