

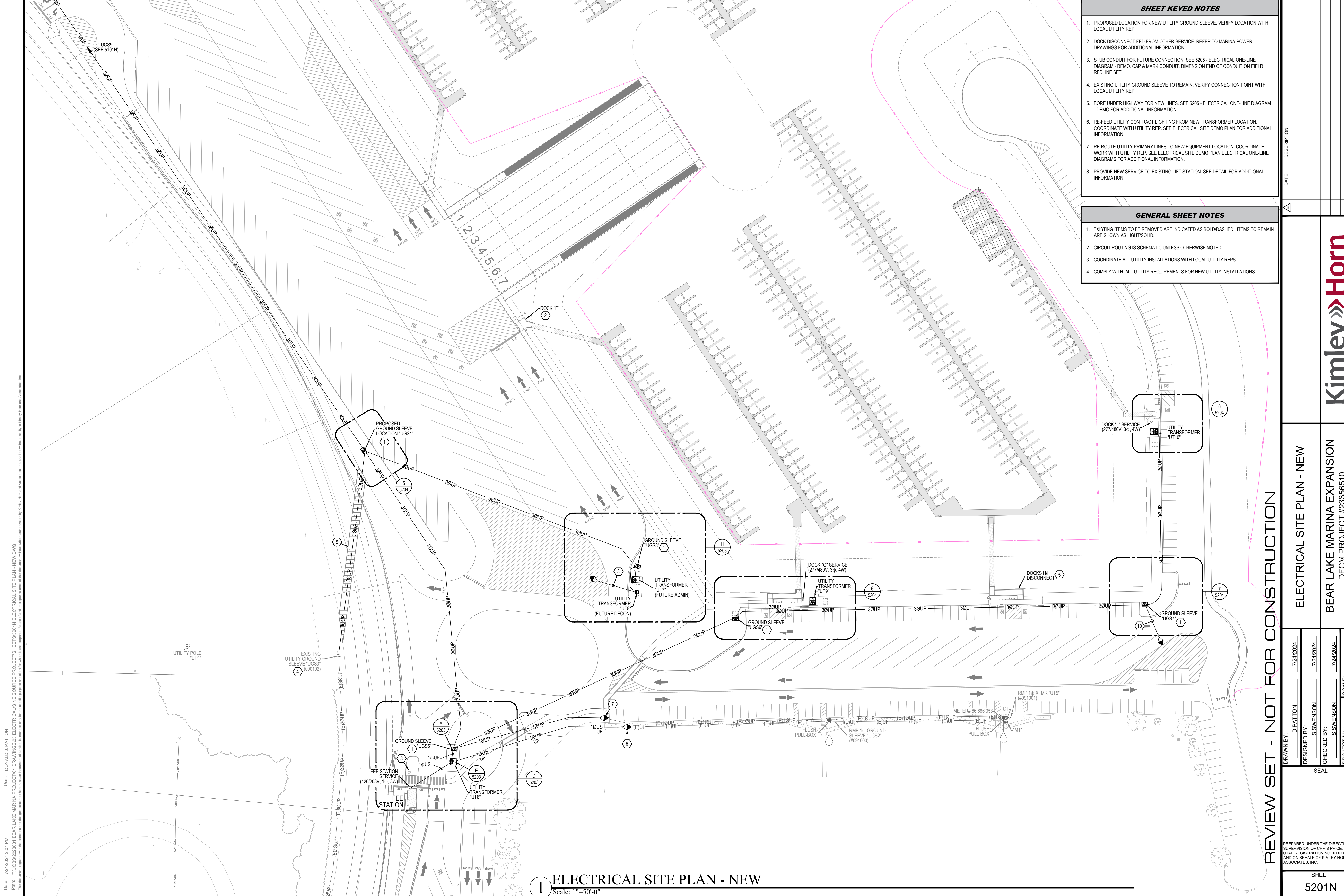
- SHEET KEYED NOTES**
1. EXISTING POWER POLE TO REMAIN.
  2. COORDINATE REMOVAL OF EXISTING POWER POLE WITH LOCAL UTILITY REP.
  3. COORDINATE REMOVAL OF OVERHEAD UTILITY POWER LINE WITH LOCAL UTILITY REP.
  4. COORDINATE REMOVAL OF UNDERGROUND UTILITY POWER LINE WITH LOCAL UTILITY REP.
  5. COORDINATE REMOVAL OF EXISTING UTILITY TRANSFORMER WITH LOCAL UTILITY REP.
  6. REMOVE EXISTING SERVICE LATERAL.
  7. REMOVE FEEDER TO SEPARATE BUILDING/STRUCTURE.
  8. INTERCEPT EXISTING POWER UTILITY LINE FEEDING EQUIPMENT TO REMAIN AND RE-ROUTE TO NEW LOCATION AS SHOWN ON NEW SITE ELECTRICAL PLAN. COORDINATE WITH LOCAL UTILITY REP AS REQUIRED.
  9. INTERCEPT EXISTING SITE LIGHTING FEED SERVING LIGHTING TO REMAIN AND RE-FEED FROM NEW LOCATION AS SHOWN ON NEW SITE ELECTRICAL PLAN.
  10. EXISTING POWER UTILITY EQUIPMENT TO REMAIN. RE-FEED AS SHOWN.
  11. EXISTING SITE LIGHTING TO REMAIN.
  12. EQUIPMENT TO BE REMOVED BY OTHERS. REMOVE ASSOCIATED POWER, COMMUNICATIONS, SECURITY, ETC.
  13. RE-FEED AS SHOWN ON NEW SITE ELECTRICAL PLAN AND ELECTRICAL ONE-LINE DIAGRAM.
  14. REMOVE EXISTING COMMUNICATIONS LINE TO BUILDING/EQUIPMENT BEING DEMOLISHED.
  15. ARRANGE WORK TO ROUGH-IN FOR NEW CONNECTIONS PRIOR TO DE-ENERGIZING TO MINIMIZE DOWNTIMES. PROVIDE TEMPORARY POWER TO SERVICE DURING SWITCH-OVERS.
  16. FISH CLEANING STATION TO BE RELOCATED(BY OTHERS). ELECTRICAL CONTRACTOR TO MOVE ALL EXISTING ELECTRICAL DISCONNECTS, OUTLETS, LIGHTING, ETC. AND RESTORE TO SERVICE AT NEW LOCATION. PROVIDE NEW SERVICE FEED TO RELOCATED STATION AS SHOWN ON NEW DRAWINGS.

- GENERAL SHEET NOTES**
1. EXISTING ITEMS TO BE REMOVED ARE INDICATED AS BOLD/DASHED. ITEMS TO REMAIN ARE SHOWN AS LIGHT/SOLID.
  2. CIRCUIT ROUTING IS SCHEMATIC UNLESS OTHERWISE NOTED.
  3. COORDINATE ALL UTILITY INSTALLATIONS WITH LOCAL UTILITY REPS.
  4. COMPLY WITH ALL UTILITY REQUIREMENTS FOR NEW UTILITY INSTALLATIONS.

**1 ELECTRICAL SITE PLAN - DEMOLITION**  
 Scale: 1"=50'-0"

**REVIEW SET - NOT FOR CONSTRUCTION**

	DRAWN BY: D.PALTON	DATE: 7/24/2024		DESCRIPTION
	DESIGNED BY: S.SWENSON	7/24/2024		
	CHECKED BY: S.SWENSON	7/24/2024		
	PROJECT No.: 23356510	SCALE: AS SHOWN		
SEAL			ELECTRICAL SITE PLAN - DEMOLITION	
PREPARED UNDER THE DIRECTION SUPERVISION OF CHRIS PRICE, P.E. UTAH REGISTRATION NO. XXXXX FOR AND ON BEHALF OF KIMLEY-HORN AND ASSOCIATES, INC.			BEAR LAKE MARINA EXPANSION DFCM PROJECT #23356510 GARDEN CITY, UT	
SHEET 5201D			<b>Kimley»Horn</b> <small>111 East Broadway, Suite 600 Salt Lake City, UT 84111 Tel. No. (385) 2133786</small>	



- SHEET KEYED NOTES**
1. PROPOSED LOCATION FOR NEW UTILITY GROUND SLEEVE. VERIFY LOCATION WITH LOCAL UTILITY REP.
  2. DOCK DISCONNECT FED FROM OTHER SERVICE. REFER TO MARINA POWER DRAWINGS FOR ADDITIONAL INFORMATION.
  3. STUB CONDUIT FOR FUTURE CONNECTION. SEE 5205 - ELECTRICAL ONE-LINE DIAGRAM - DEMO. CAP & MARK CONDUIT. DIMENSION END OF CONDUIT ON FIELD REDLINE SET.
  4. EXISTING UTILITY GROUND SLEEVE TO REMAIN. VERIFY CONNECTION POINT WITH LOCAL UTILITY REP.
  5. BORE UNDER HIGHWAY FOR NEW LINES. SEE 5205 - ELECTRICAL ONE-LINE DIAGRAM - DEMO FOR ADDITIONAL INFORMATION.
  6. RE-FEED UTILITY CONTRACT LIGHTING FROM NEW TRANSFORMER LOCATION. COORDINATE WITH UTILITY REP. SEE ELECTRICAL SITE DEMO PLAN FOR ADDITIONAL INFORMATION.
  7. RE-ROUTE UTILITY PRIMARY LINES TO NEW EQUIPMENT LOCATION. COORDINATE WORK WITH UTILITY REP. SEE ELECTRICAL SITE DEMO PLAN ELECTRICAL ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
  8. PROVIDE NEW SERVICE TO EXISTING LIFT STATION. SEE DETAIL FOR ADDITIONAL INFORMATION.

- GENERAL SHEET NOTES**
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  2. CIRCUIT ROUTING IS SCHEMATIC UNLESS OTHERWISE NOTED.
  3. COORDINATE ALL UTILITY INSTALLATIONS WITH LOCAL UTILITY REPS.
  4. COMPLY WITH ALL UTILITY REQUIREMENTS FOR NEW UTILITY INSTALLATIONS.

DATE	DESCRIPTION

**Kimley»Horn**  
 111 East Broadway, Suite 600 | Salt Lake City, UT 84111 | Tel. No. (385) 2133786

**ELECTRICAL SITE PLAN - NEW**  
**BEAR LAKE MARINA EXPANSION**  
 DFCM PROJECT #23356510  
 GARDEN CITY, UT

DRAWN BY:	D. PATTON	7/24/2024
DESIGNED BY:	S. SWENSON	7/24/2024
CHECKED BY:	S. SWENSON	7/24/2024
PROJECT No.:	23356510	SCALE: AS SHOWN

**REVIEW SET - NOT FOR CONSTRUCTION**

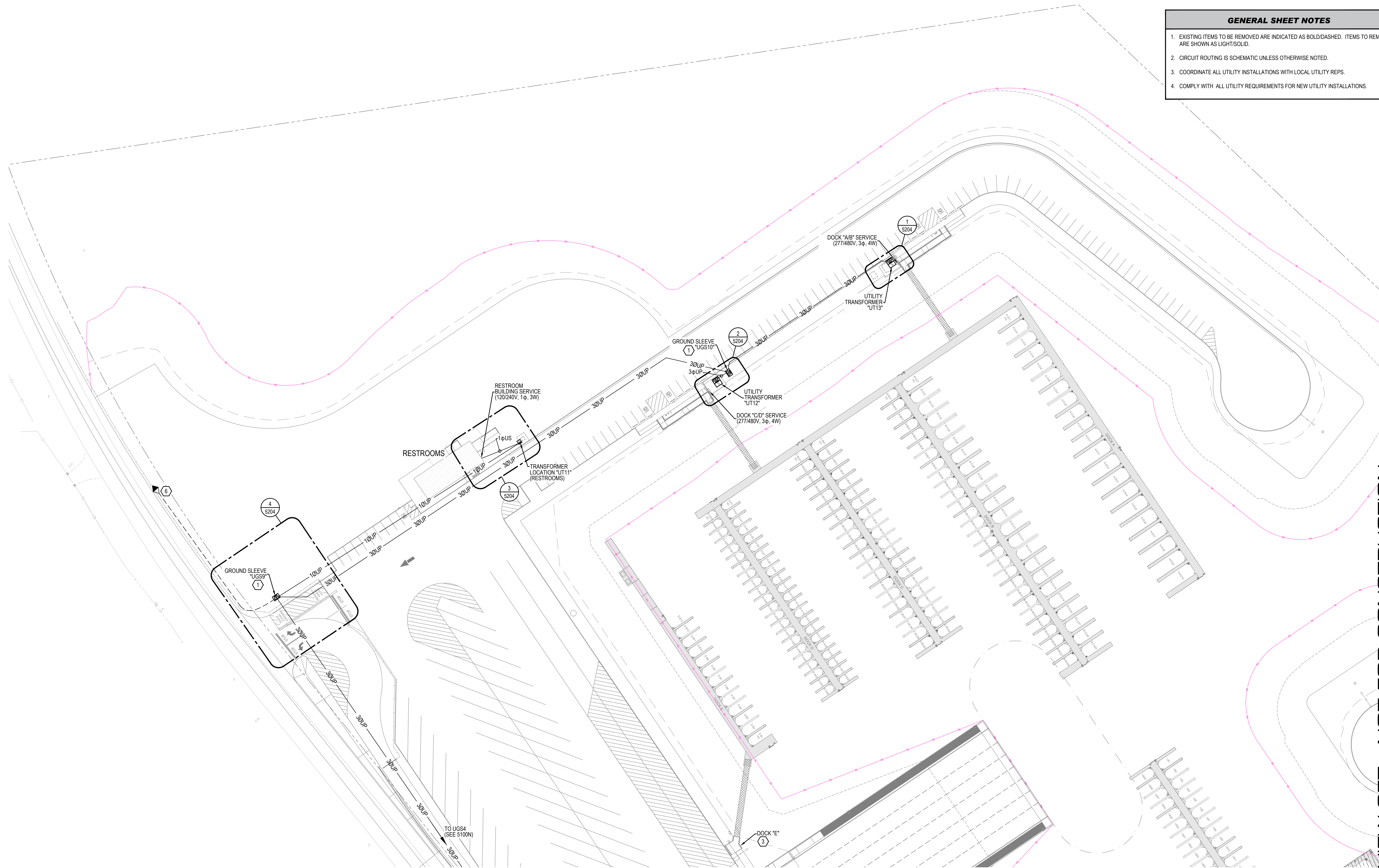
PREPARED UNDER THE DIRECTION  
 SUPERVISION OF CHRIS PRICE, P.E.  
 UTAH REGISTRATION NO. XXXXXX FOR  
 AND ON BEHALF OF KIMLEY-HORN AND  
 ASSOCIATES, INC.

SHEET  
**5201N**

Date: 7/24/2024 2:01 PM  
 User: DONALD J. PATTON  
 Path: T:\WORK\2023031 BEAR LAKE MARINA PROJECT\01 DRAWINGS\5205 ELECTRICAL\5201N ELECTRICAL SITE PLAN - NEW.DWG  
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**1 ELECTRICAL SITE PLAN - NEW**  
 Scale: 1"=50'-0"

Date: 7/24/2024 2:02 PM User: DONALD J PATTON  
 Path: T:\WORKS\2023031 BEAR LAKE MARINA PROJECT\DRAWINGS\05 ELECTRICAL\SOURCE PROJECTSHEET\05202N ELECTRICAL SITE PLAN - NEW.DWG  
 This document, together with the associated drawings, represents the design of the project as shown on the drawings and shall be used for construction purposes only. It is the responsibility of the client to verify the accuracy of the information provided on the drawings and to ensure that all applicable codes and regulations are followed. The information provided herein is for informational purposes only and does not constitute a contract. The information provided herein is for informational purposes only and does not constitute a contract.



- SHEET KEYED NOTES**
1. PROPOSED LOCATION FOR NEW UTILITY GROUND SLEEVE. VERIFY LOCATION WITH LOCAL UTILITY REP.
  2. DOCK DISCONNECT FED FROM OTHER SERVICE. REFER TO MARINA POWER DRAWINGS FOR ADDITIONAL INFORMATION.
  3. STUB CONDUIT FOR FUTURE CONNECTION. SEE 5205 - ELECTRICAL ONE-LINE DIAGRAM - DEMO. CAP & MARK CONDUIT. DIMENSION END OF CONDUIT ON FIELD REDLINE SET.

- GENERAL SHEET NOTES**
1. EXISTING ITEMS TO BE REMOVED ARE INDICATED AS BOLD/DASHED. ITEMS TO REMAIN ARE SHOWN AS LIGHT/SOLID.
  2. CIRCUIT ROUTING IS SCHEMATIC UNLESS OTHERWISE NOTED.
  3. COORDINATE ALL UTILITY INSTALLATIONS WITH LOCAL UTILITY REPS.
  4. COMPLY WITH ALL UTILITY REQUIREMENTS FOR NEW UTILITY INSTALLATIONS.

DATE	DESCRIPTION

**Kimley»Horn**  
 111 East Broadway, Suite 600 Salt Lake City, UT 84111 | Tel. No. (385) 2133178

**ELECTRICAL SITE PLAN - NEW**  
**BEAR LAKE MARINA EXPANSION**  
 DFCM PROJECT #23356510  
 GARDEN CITY, UT

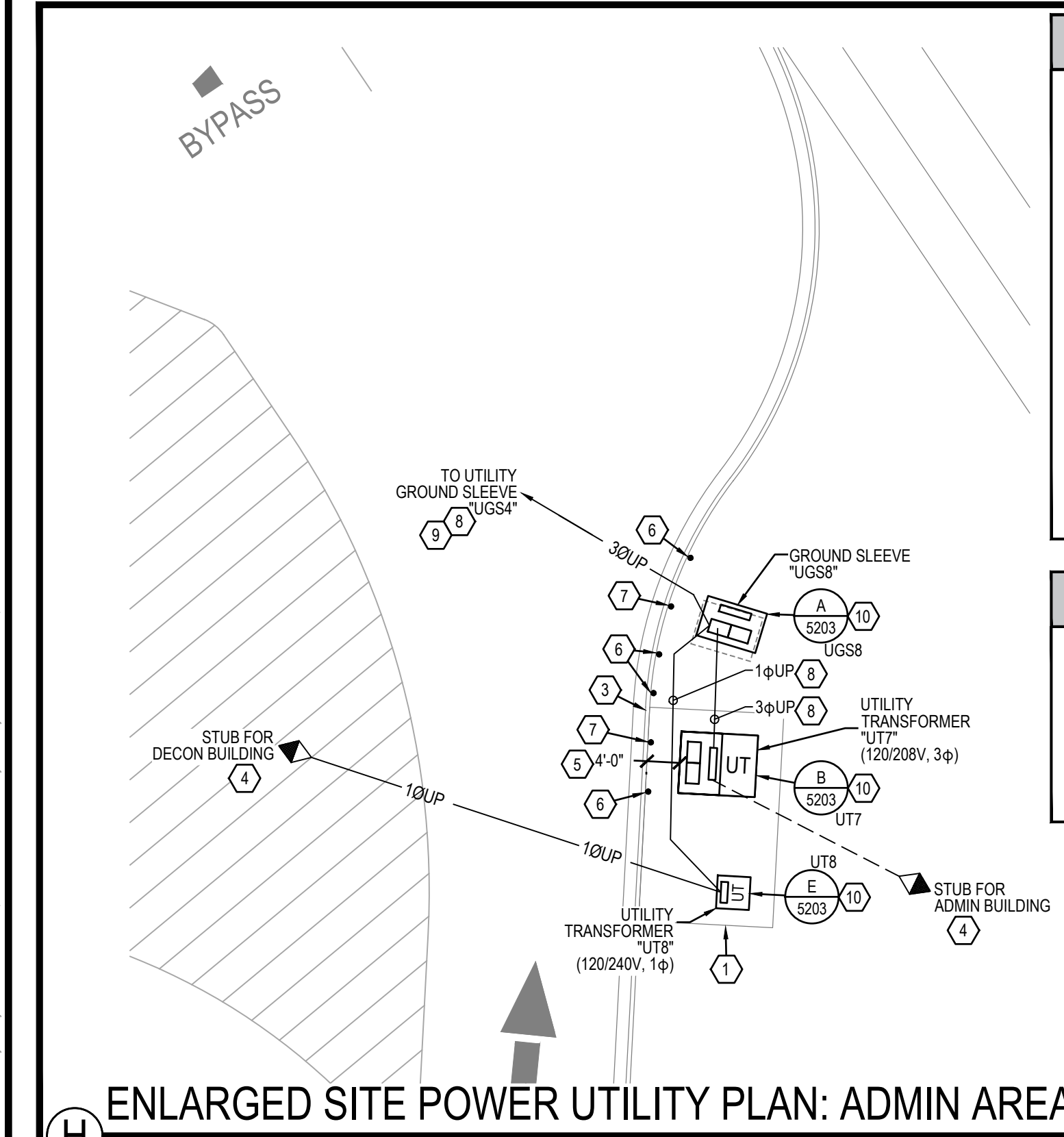
DRAWN BY: D. PATTON	DATE: 7/24/2024
DESIGNED BY: S. SWENSON	DATE: 7/24/2024
CHECKED BY: S. SWENSON	DATE: 7/24/2024
PROJECT No.: 23356510	SCALE: AS SHOWN

**REVIEW SET - NOT FOR CONSTRUCTION**

PREPARED UNDER THE DIRECTION  
 SUPERVISION OF CHRIS PRICE, P.E.  
 UTAH REGISTRATION NO. XXXXXX FOR  
 AND ON BEHALF OF KIMLEY-HORN AND  
 ASSOCIATES, INC.

SHEET  
**5202N**

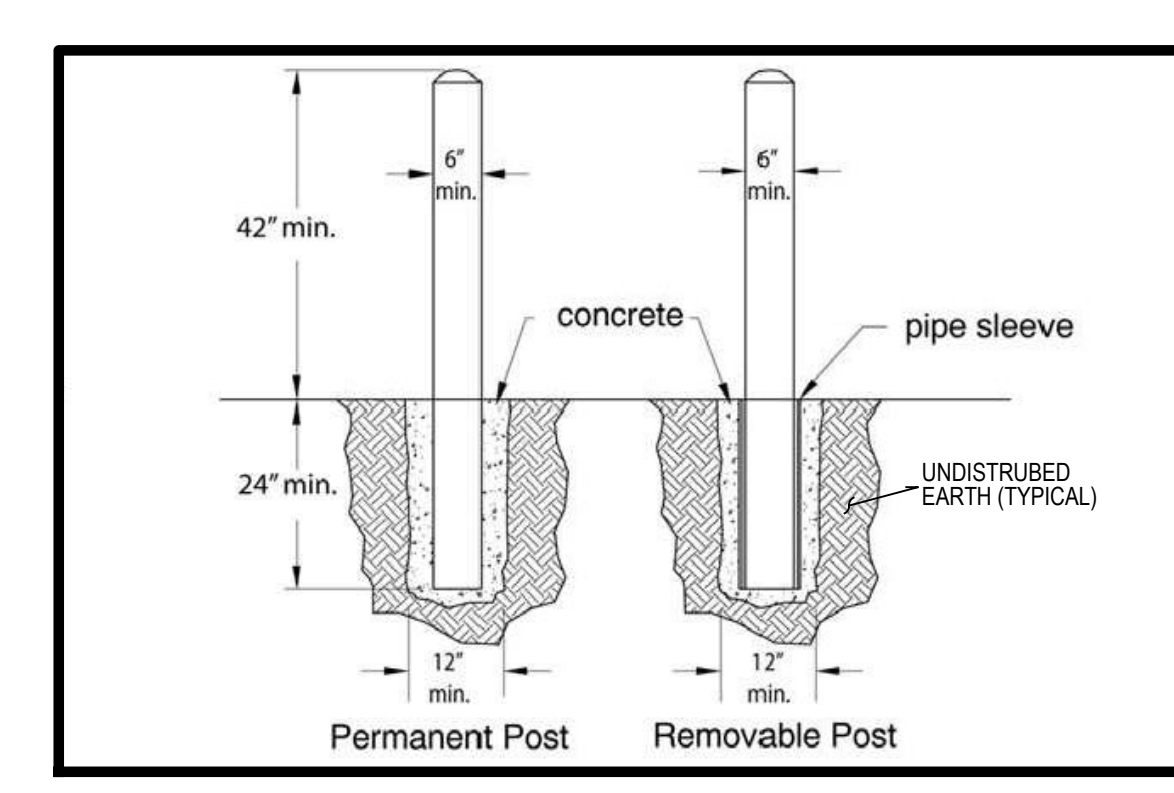
**1 ELECTRICAL SITE PLAN - NEW**  
 Scale: 1"=50'-0"



- DETAIL KEYED NOTES**
1. CONCRETE PAD BY OTHERS.
  2. RETAINING WALL BY OTHERS.
  3. CURB BY OTHERS.
  4. STUB FOR FUTURE SERVICE. SEE 5206 - ELECTRICAL ONE-LINE DIAGRAM - NEW FOR ADDITIONAL INFORMATION.
  5. REDUCED CLEARANCE FROM CURB HAS BEEN COORDINATED WITH LOCAL UTILITY REP AND APPROVED.
  6. PROVIDE FIXED PROTECTIVE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  7. PROVIDE REMOVABLE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  8. SEE 5206 - ELECTRICAL ONE-LINE DIAGRAM - NEW FOR ADDITIONAL INFORMATION.
  9. SEE SITE PLAN FOR EXTENSION.
  10. PROVIDE PAD-VAULT PER UTILITY STANDARDS.

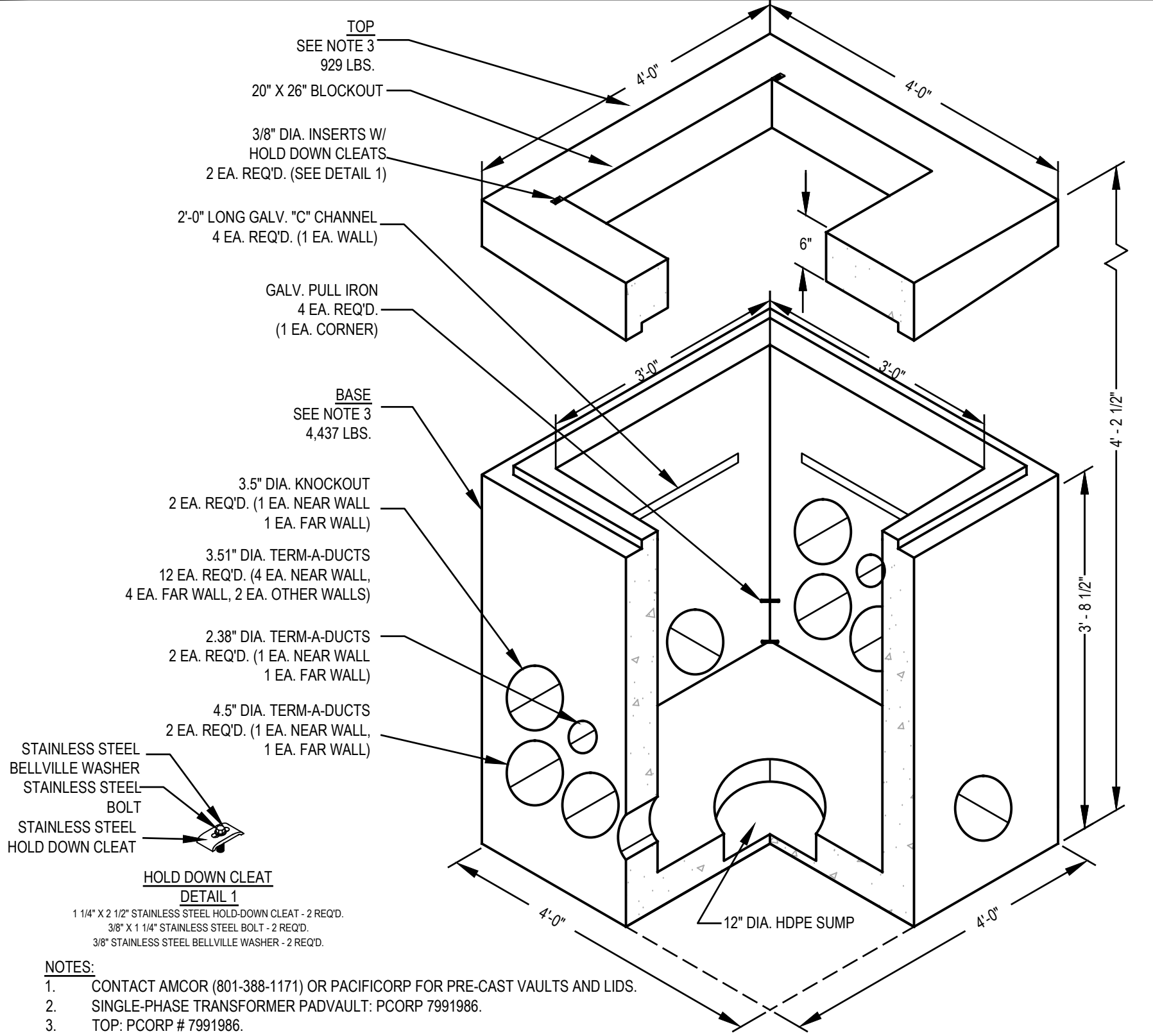
- DETAIL GENERAL NOTES**
1. COORDINATE MINIMUM UTILITY TRANSFORMER CLEARANCES WITH GENERAL CONTRACTOR PER UTILITY STANDARDS.
  2. COORDINATE ALL INSTALLATIONS WITH LOCAL UTILITY REP PRIOR TO ROUGH-IN.
  3. COMPLY WITH ALL UTILITY REQUIREMENTS FOR ALL UTILITY INSTALLATIONS.
  4. CIRCUIT ROUTING IS SCHEMATIC UNLESS OTHERWISE NOTED.

**H** ENLARGED SITE POWER UTILITY PLAN: ADMIN AREA  
 SCALE: 1/16" = 1'-0"

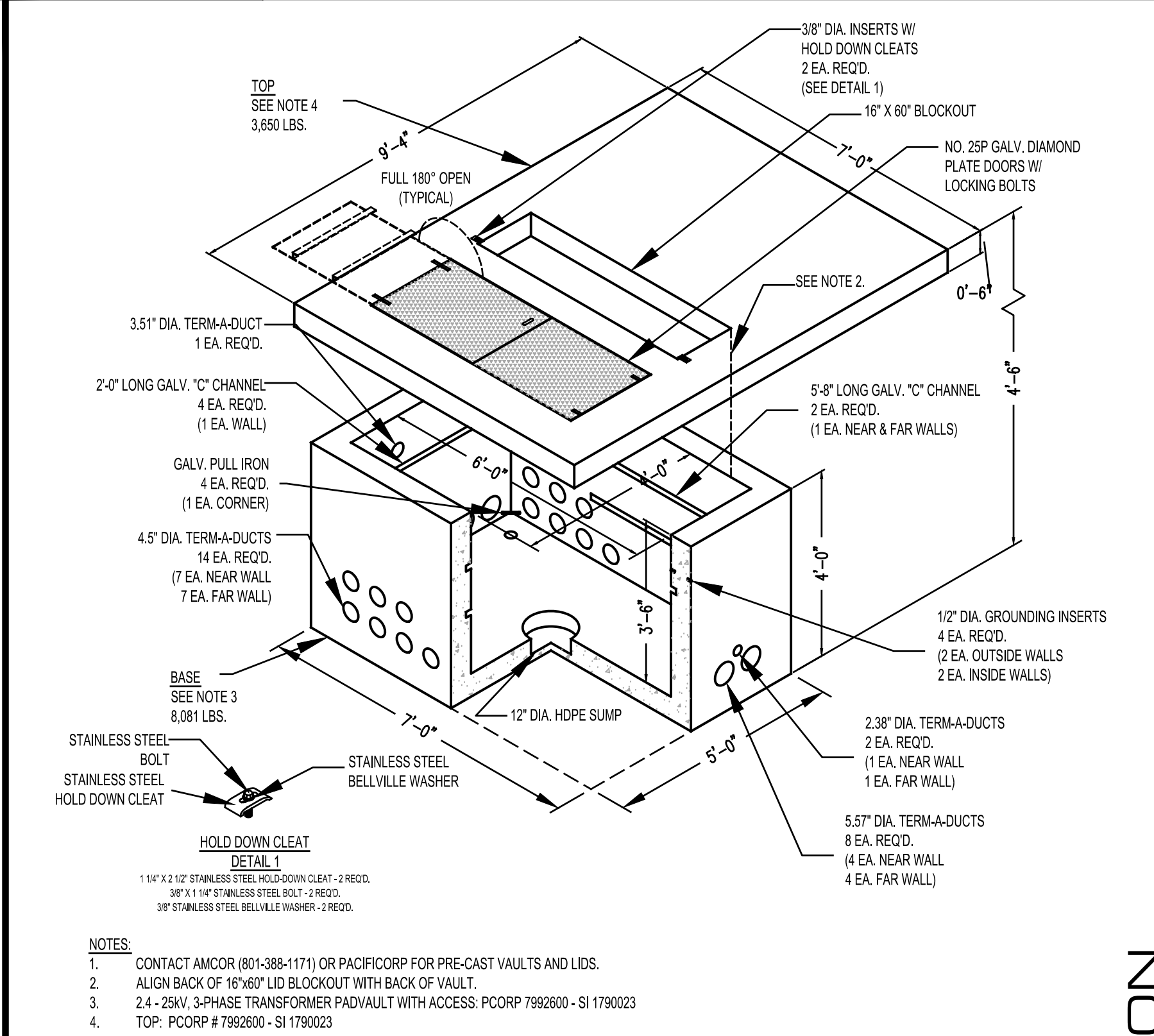


- GENERAL NOTES**
1. BARRIER POSTS SHALL BE 6-INCH-DIAMETER CONCRETE.
  2. POSTS SHALL HAVE A DOMED TOP, FREE OF BURRS AND SHARP EDGES.
  3. BARRIER POSTS SHALL BE PLACED SO AS NOT TO OBSTRUCT THE OPENING OF THE EQUIPMENT DOORS (DOORS SHALL OPEN LEAST 135 DEGREES), NOR TO IMPED THE OPERATION OF THE EQUIPMENT. IF SUCH POSITIONING IS NOT POSSIBLE, REMOVABLE POSTS SHALL BE USED IN THE OBSTRUCTIVE LOCATION(S).
  4. REMOVABLE POSTS SHALL BE PLACED IN A NON-CORROSIVE PIPE SLEEVE.
  5. EACH BARRIER POST SHALL BE SET IN A CONCRETE FOUNDATION AT LEAST 12 INCHES IN DIAMETER AND 24 INCHES IN DEPTH BELOW GRADE.

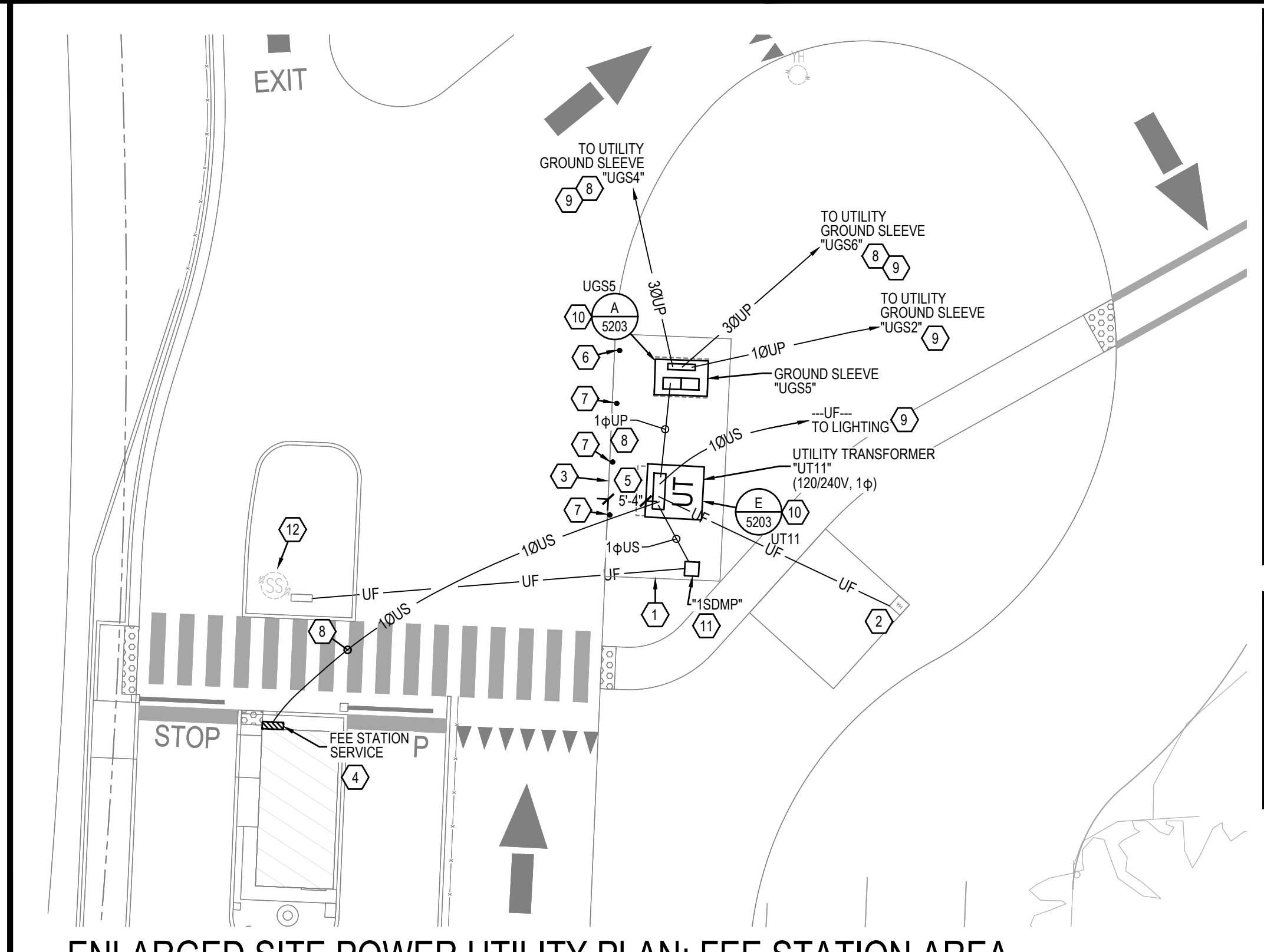
**F** BARRIER POST DETAIL  
 SCALE: NO SCALE



**E** 3X3 1φ TRANSFORMER PAD-VAULT DETAIL  
 SCALE: NO SCALE



**B** 4X6 3φ TRANSFORMER PAD-VAULT DETAIL  
 SCALE: NO SCALE

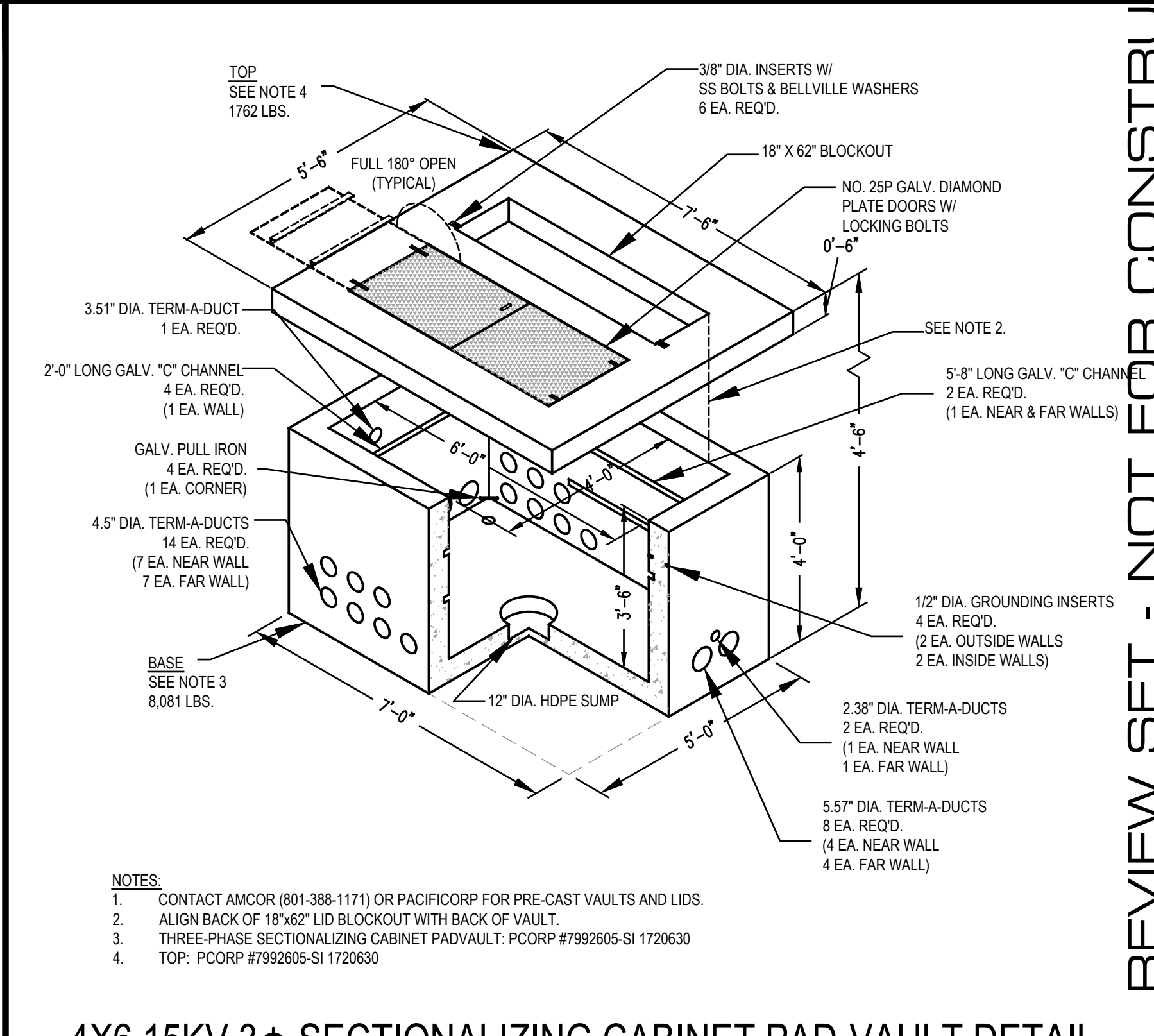


**D** ENLARGED SITE POWER UTILITY PLAN: FEE STATION AREA  
 SCALE: 1/16" = 1'-0"

- DETAIL KEYED NOTES**
1. CONCRETE PAD BY OTHERS.
  2. RE-FEED RELOCATED FISH CLEANING STATION, RELOCATE AND RE-ESTABLISH CONNECTION TO ALL OUTLETS, LIGHTING, ETC. AT STATION.
  3. CURB BY OTHERS.
  4. BUILDING SERVICE EQUIPMENT BY OTHERS.
  5. REDUCED CLEARANCE FROM CURB HAS BEEN COORDINATED WITH LOCAL UTILITY REP AND APPROVED.
  6. PROVIDE FIXED PROTECTIVE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  7. PROVIDE REMOVABLE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  8. SEE 5206 - ELECTRICAL ONE-LINE DIAGRAM - NEW FOR ADDITIONAL INFORMATION.
  9. SEE SITE PLAN FOR EXTENSION.
  10. PROVIDE PAD-VAULT PER UTILITY STANDARDS.
  11. PROVIDE DUAL METERING CABINET WITH DUAL MAIN DISCONNECTS (MYERS MEUG28-M280/M200 (MOD- NO PANELS) AND BASE MEUG28-BASE OR EQUIVALENT).
  12. RE-FEED EXISTING PUMP EQUIPMENT AS SHOWN ON 5205 - ELECTRICAL ONE-LINE DIAGRAM - DEMO & 5206 - ELECTRICAL ONE-LINE DIAGRAM - NEW.

- DETAIL GENERAL NOTES**
1. COORDINATE MINIMUM UTILITY TRANSFORMER CLEARANCES WITH GENERAL CONTRACTOR PER UTILITY STANDARDS.
  2. COORDINATE ALL INSTALLATIONS WITH LOCAL UTILITY REP PRIOR TO ROUGH-IN.
  3. COMPLY WITH ALL UTILITY REQUIREMENTS FOR ALL UTILITY INSTALLATIONS.
  4. CIRCUIT ROUTING IS SCHEMATIC UNLESS OTHERWISE NOTED.

**A** 4X6 15KV 3φ SECTIONALIZING CABINET PAD-VAULT DETAIL  
 SCALE: NO SCALE



**A** 4X6 15KV 3φ SECTIONALIZING CABINET PAD-VAULT DETAIL  
 SCALE: NO SCALE

**REVIEW SET - NOT FOR CONSTRUCTION**

**ELECTRICAL SITE DETAILS**

**BEAR LAKE MARINA EXPANSION**  
 DFCM PROJECT #23356510  
 GARDEN CITY, UT

**Kimley-Horn**  
 111 East Broadway, Suite 600 Salt Lake City, UT 84111 Tel. No. (385) 213-7178

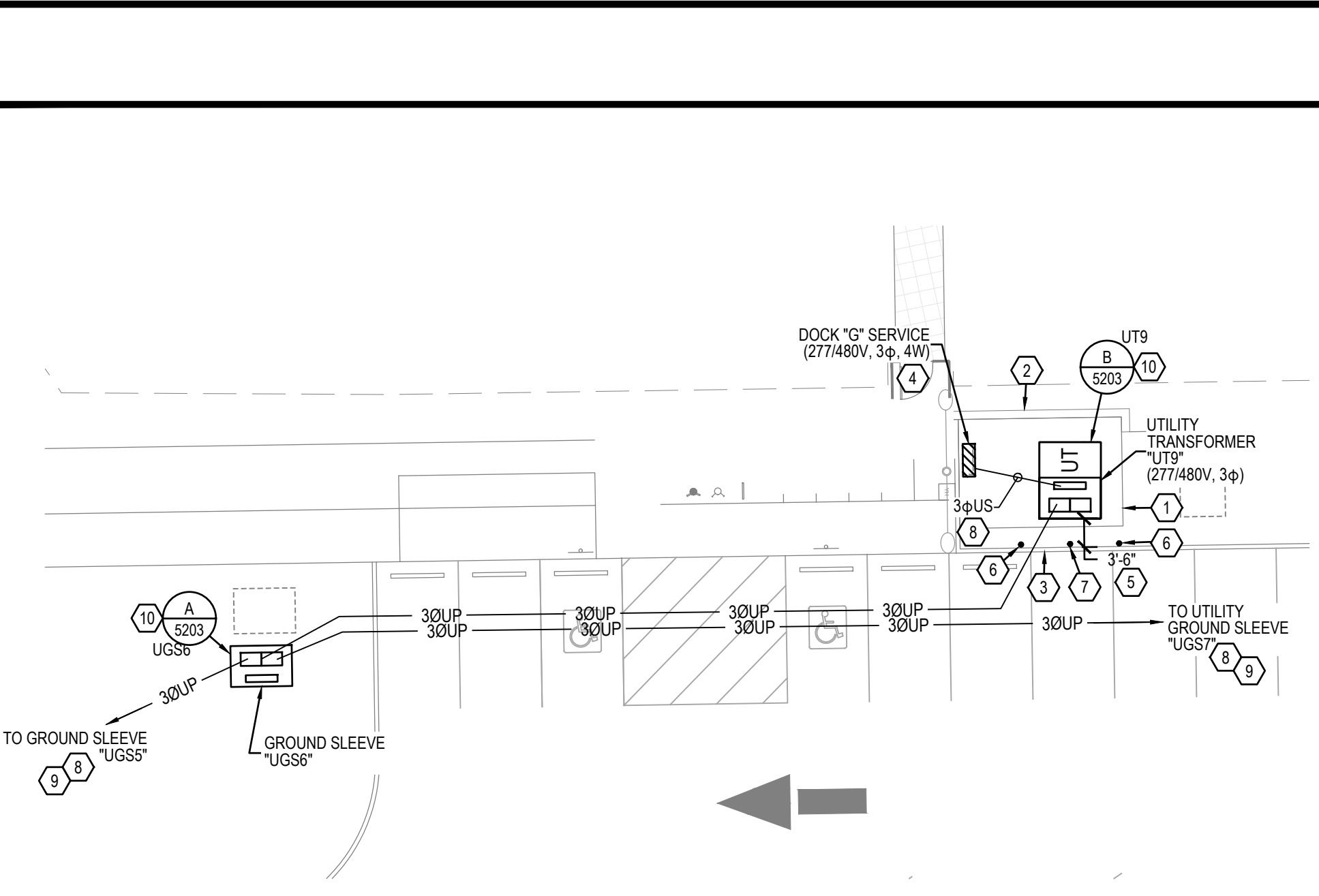
DESIGNED BY: D. DALTON	7/24/2024
CHECKED BY: S. SWENSON	7/24/2024
PROJECT No.: 23356510	SCALE: AS SHOWN

PREPARED UNDER THE DIRECTION SUPERVISION OF CHRIS PRICE, P.E. UTAH REGISTRATION NO. XXXXXX FOR AND ON BEHALF OF KIMLEY-HORN AND ASSOCIATES, INC.

SHEET 5203

- DETAIL KEYED NOTES**
1. CONCRETE PAD BY OTHERS.
  2. RETAINING WALL BY OTHERS.
  3. CURB BY OTHERS.
  4. MARINA SERVICE EQUIPMENT BY OTHERS.
  5. REDUCED CLEARANCE FROM CURB HAS BEEN COORDINATED WITH LOCAL UTILITY REP AND APPROVED.
  6. PROVIDE FIXED PROTECTIVE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  7. PROVIDE REMOVABLE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  8. SEE 5206 - ELECTRICAL ONE-LINE DIAGRAM - NEW FOR ADDITIONAL INFORMATION.
  9. SEE SITE PLAN FOR EXTENSION.
  10. PROVIDE PAD-VAULT PER UTILITY STANDARDS.

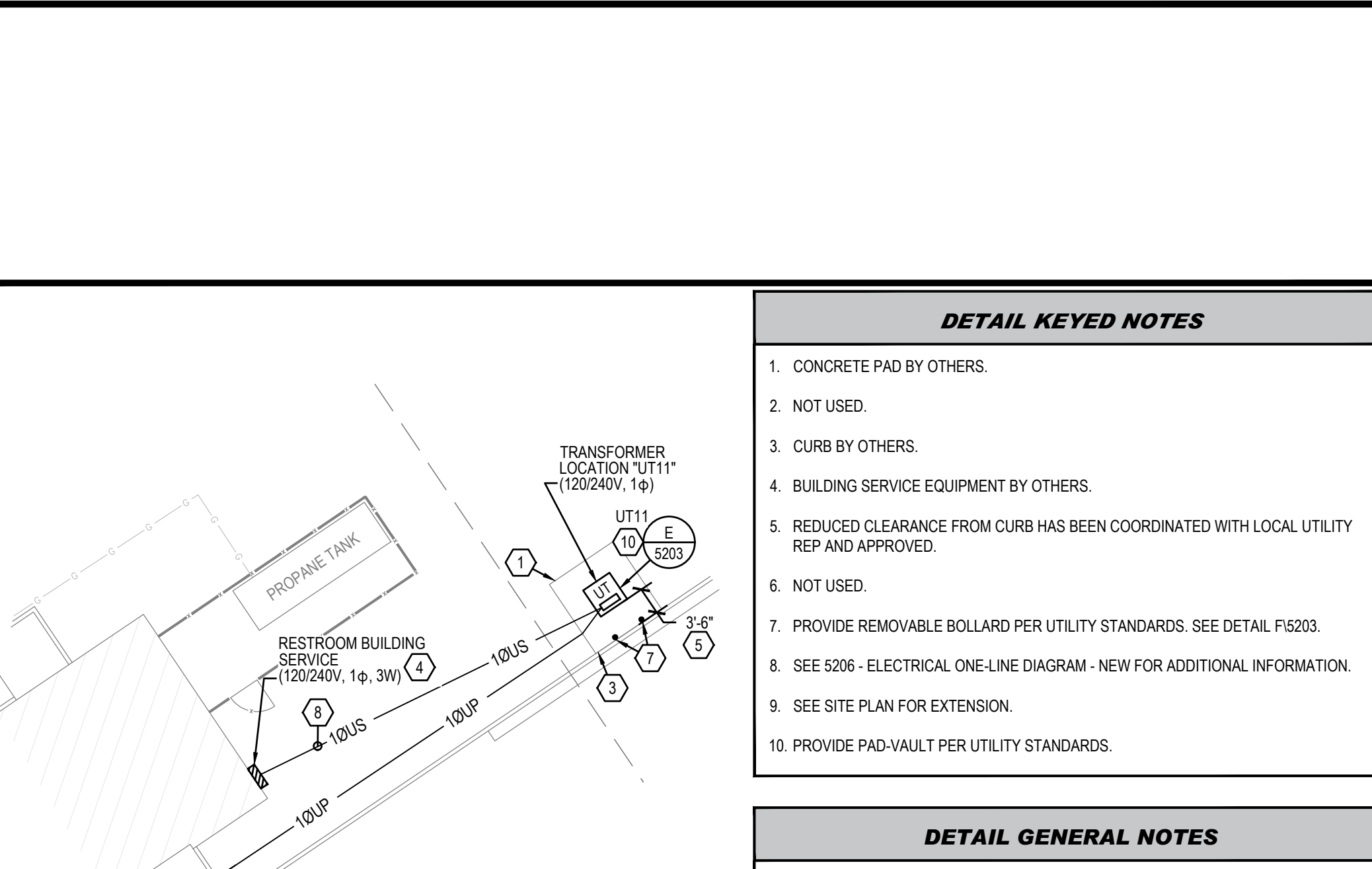
- DETAIL GENERAL NOTES**
1. COORDINATE MINIMUM UTILITY TRANSFORMER CLEARANCES WITH GENERAL CONTRACTOR PER UTILITY STANDARDS.
  2. COORDINATE ALL INSTALLATIONS WITH LOCAL UTILITY REP PRIOR TO ROUGH-IN.
  3. COMPLY WITH ALL UTILITY REQUIREMENTS FOR ALL UTILITY INSTALLATIONS.
  4. CIRCUIT ROUTING IS SCHEMATIC UNLESS OTHERWISE NOTED.



**6 ENLARGED SITE POWER UTILITY PLAN: DOCK G**  
SCALE: 1/16" = 1'-0"

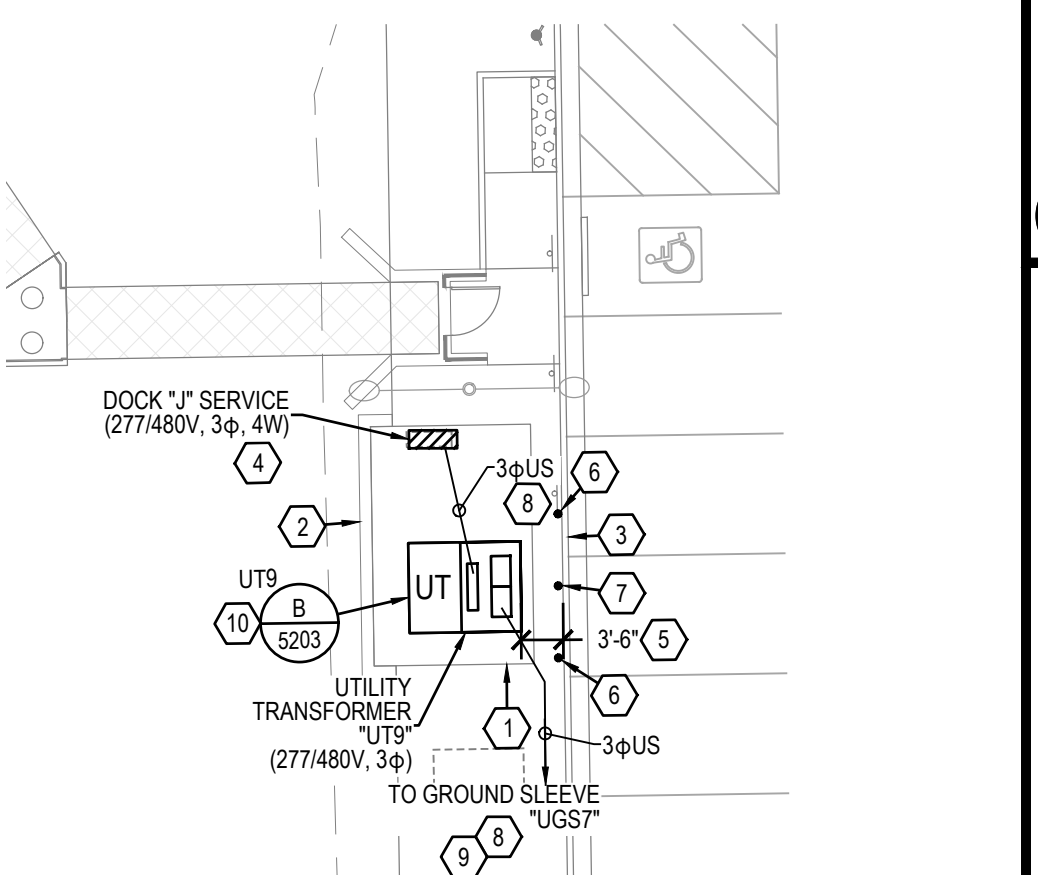
- DETAIL KEYED NOTES**
1. CONCRETE PAD BY OTHERS.
  2. RETAINING WALL BY OTHERS.
  3. CURB BY OTHERS.
  4. MARINA SERVICE EQUIPMENT BY OTHERS.
  5. REDUCED CLEARANCE FROM CURB HAS BEEN COORDINATED WITH LOCAL UTILITY REP AND APPROVED.
  6. PROVIDE FIXED PROTECTIVE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  7. PROVIDE REMOVABLE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  8. SEE 5206 - ELECTRICAL ONE-LINE DIAGRAM - NEW FOR ADDITIONAL INFORMATION.
  9. SEE SITE PLAN FOR EXTENSION.
  10. PROVIDE PAD-VAULT PER UTILITY STANDARDS.

- DETAIL GENERAL NOTES**
1. COORDINATE MINIMUM UTILITY TRANSFORMER CLEARANCES WITH GENERAL CONTRACTOR PER UTILITY STANDARDS.
  2. COORDINATE ALL INSTALLATIONS WITH LOCAL UTILITY REP PRIOR TO ROUGH-IN.
  3. COMPLY WITH ALL UTILITY REQUIREMENTS FOR ALL UTILITY INSTALLATIONS.
  4. CIRCUIT ROUTING IS SCHEMATIC UNLESS OTHERWISE NOTED.

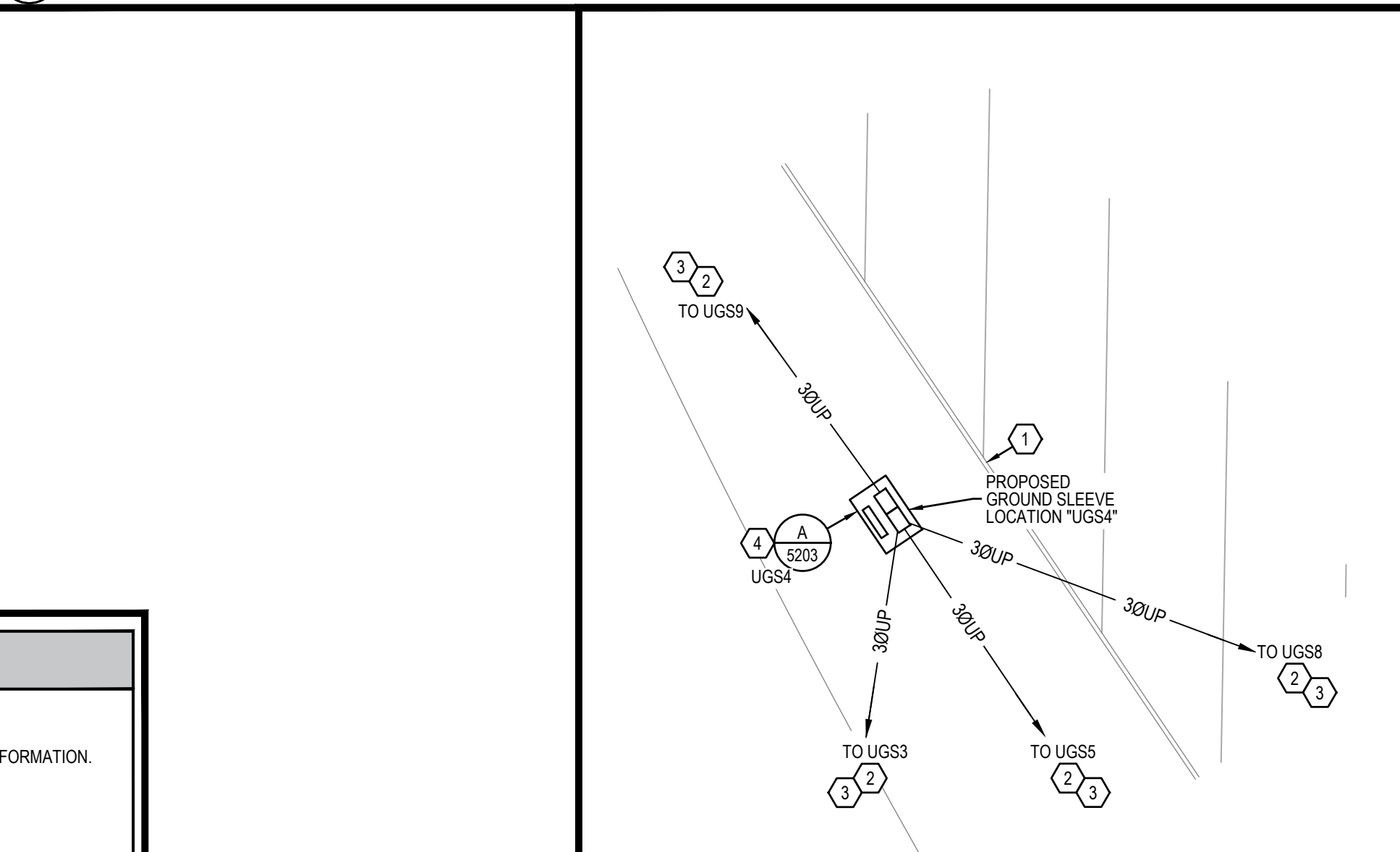


**3 ENLARGED SITE POWER UTILITY PLAN: RESTROOM BLDG**  
SCALE: 1/16" = 1'-0"

DATE	DESCRIPTION



**8 ENLARGED SITE POWER UTILITY PLAN: DOCK J**  
SCALE: 1/16" = 1'-0"



**5 ENLARGED SITE POWER UTILITY PLAN: PARKING AREA**  
SCALE: 1/16" = 1'-0"

- DETAIL KEYED NOTES**
1. CURB BY OTHERS.
  2. SEE 5206 - ELECTRICAL ONE-LINE DIAGRAM - NEW FOR ADDITIONAL INFORMATION.
  3. SEE SITE PLAN FOR EXTENSION.
  4. PROVIDE PAD-VAULT PER UTILITY STANDARDS.

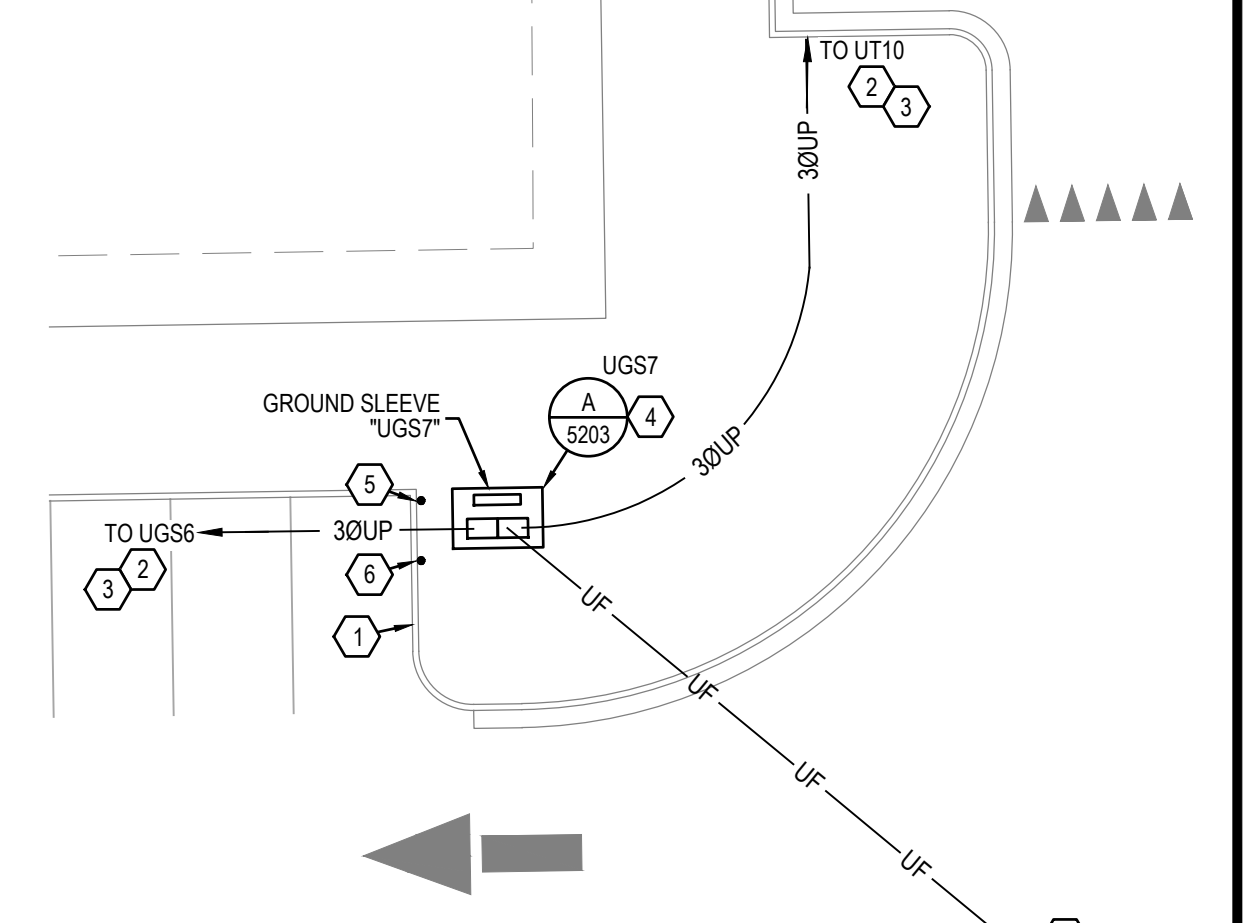
- DETAIL GENERAL NOTES**
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  2. COORDINATE ALL INSTALLATIONS WITH LOCAL UTILITY REP PRIOR TO ROUGH-IN.
  3. COMPLY WITH ALL UTILITY REQUIREMENTS FOR ALL UTILITY INSTALLATIONS.
  4. CIRCUIT ROUTING IS SCHEMATIC UNLESS OTHERWISE NOTED.

- DETAIL KEYED NOTES**
1. CONCRETE PAD BY OTHERS.
  2. NOT USED.
  3. CURB BY OTHERS.
  4. BUILDING SERVICE EQUIPMENT BY OTHERS.
  5. REDUCED CLEARANCE FROM CURB HAS BEEN COORDINATED WITH LOCAL UTILITY REP AND APPROVED.
  6. NOT USED.
  7. PROVIDE REMOVABLE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  8. SEE 5206 - ELECTRICAL ONE-LINE DIAGRAM - NEW FOR ADDITIONAL INFORMATION.
  9. SEE SITE PLAN FOR EXTENSION.
  10. PROVIDE PAD-VAULT PER UTILITY STANDARDS.

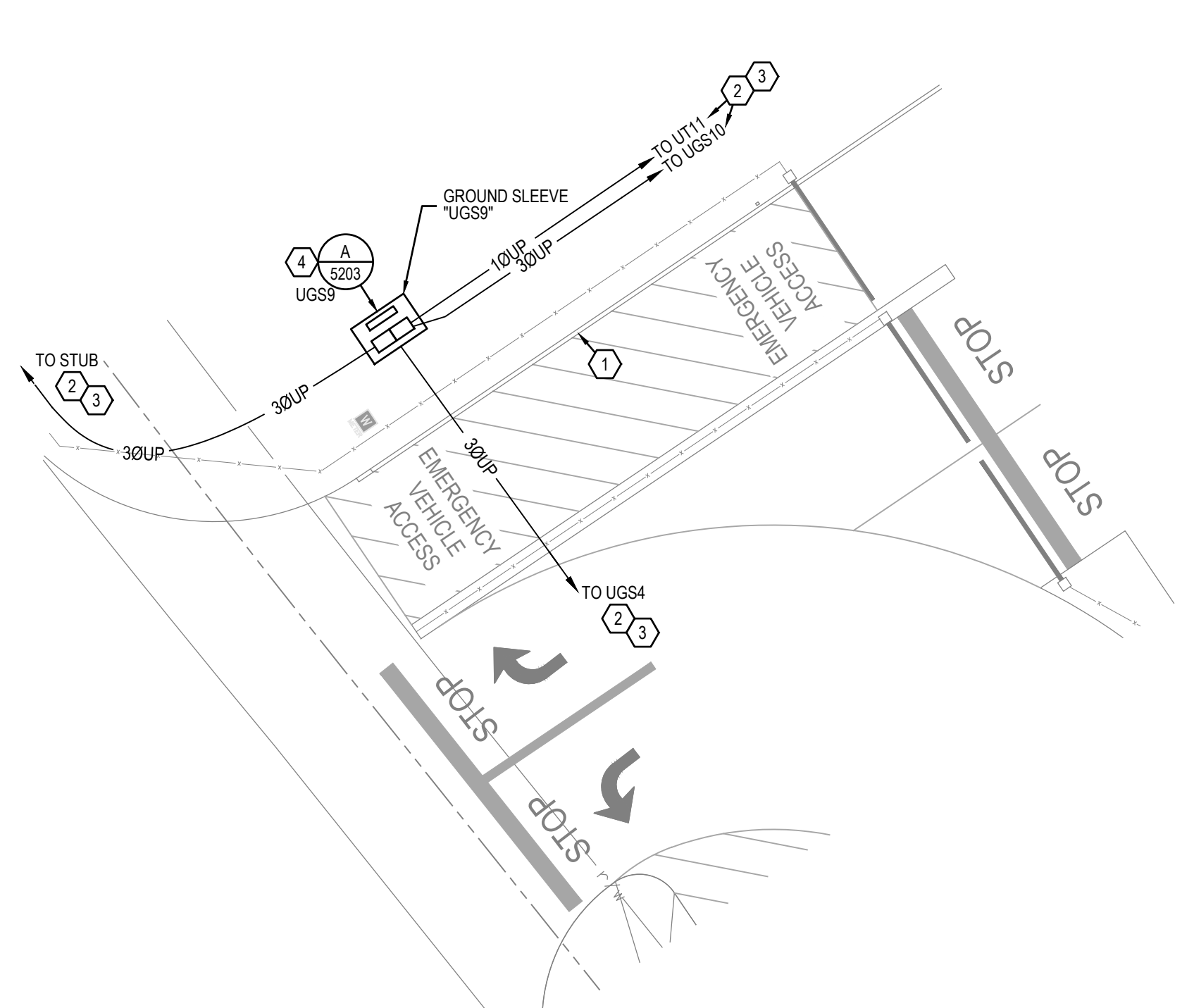
- DETAIL GENERAL NOTES**
1. COORDINATE MINIMUM UTILITY TRANSFORMER CLEARANCES WITH GENERAL CONTRACTOR PER UTILITY STANDARDS.
  2. COORDINATE ALL INSTALLATIONS WITH LOCAL UTILITY REP PRIOR TO ROUGH-IN.
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- DETAIL KEYED NOTES**
1. CURB BY OTHERS.
  2. SEE 5206 - ELECTRICAL ONE-LINE DIAGRAM - NEW FOR ADDITIONAL INFORMATION.
  3. SEE SITE PLAN FOR EXTENSION.
  4. PROVIDE PAD-VAULT PER UTILITY STANDARDS.
  5. PROVIDE FIXED PROTECTION BOLLARD PER UTILITY STANDARDS.
  6. PROVIDE REMOVABLE PROTECTION BOLLARD PER UTILITY STANDARDS.
  7. STUB FOR FUTURE EXTENSION.

- DETAIL GENERAL NOTES**
1. COORDINATE MINIMUM UTILITY TRANSFORMER CLEARANCES WITH GENERAL CONTRACTOR PER UTILITY STANDARDS.
  2. COORDINATE ALL INSTALLATIONS WITH LOCAL UTILITY REP PRIOR TO ROUGH-IN.
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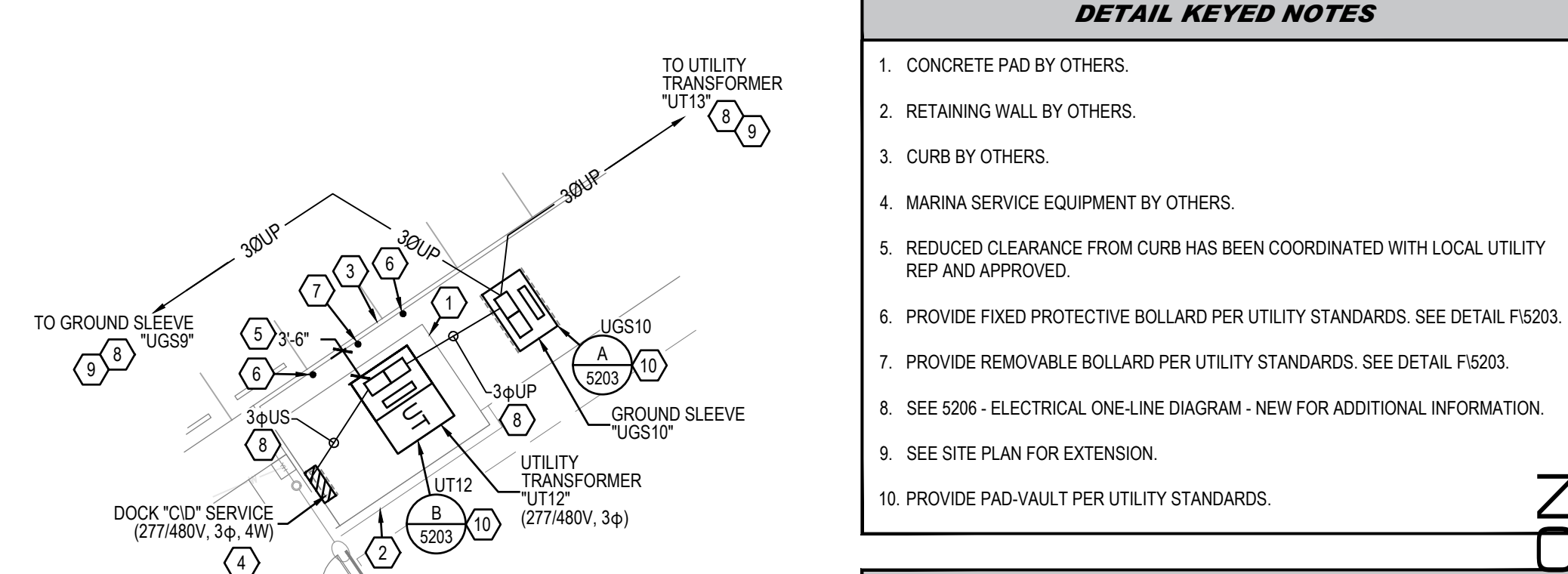
**7 ENLARGED SITE POWER UTILITY PLAN: CAUSEWAY CORNER**  
SCALE: 1/16" = 1'-0"



**4 ENLARGED SITE POWER UTILITY PLAN: MARINA EXIT**  
SCALE: 1/16" = 1'-0"

- DETAIL KEYED NOTES**
1. CURB BY OTHERS.
  2. SEE 5206 - ELECTRICAL ONE-LINE DIAGRAM - NEW FOR ADDITIONAL INFORMATION.
  3. SEE SITE PLAN FOR EXTENSION.
  4. PROVIDE PAD-VAULT PER UTILITY STANDARDS.

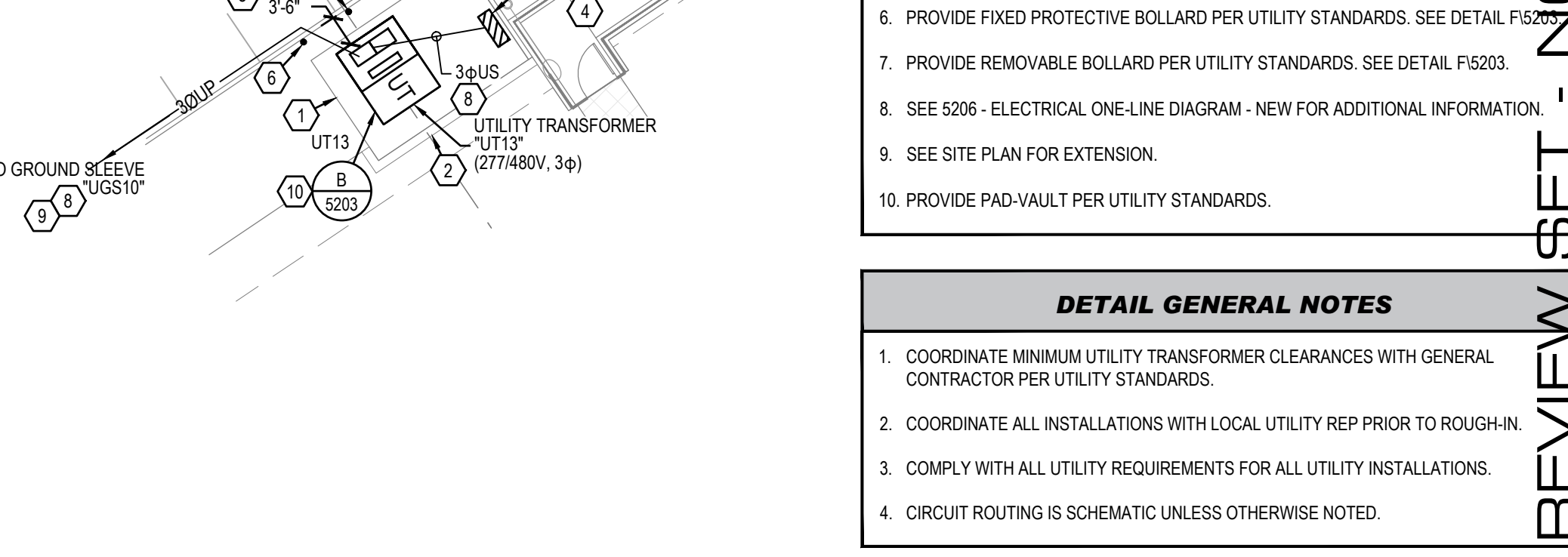
- DETAIL GENERAL NOTES**
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  3. COMPLY WITH ALL UTILITY REQUIREMENTS FOR ALL UTILITY INSTALLATIONS.
  4. CIRCUIT ROUTING IS SCHEMATIC UNLESS OTHERWISE NOTED.



**2 ENLARGED SITE POWER UTILITY PLAN: DOCK C/D**  
SCALE: 1/16" = 1'-0"

- DETAIL KEYED NOTES**
1. CONCRETE PAD BY OTHERS.
  2. RETAINING WALL BY OTHERS.
  3. CURB BY OTHERS.
  4. MARINA SERVICE EQUIPMENT BY OTHERS.
  5. REDUCED CLEARANCE FROM CURB HAS BEEN COORDINATED WITH LOCAL UTILITY REP AND APPROVED.
  6. PROVIDE FIXED PROTECTIVE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  7. PROVIDE REMOVABLE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  8. SEE 5206 - ELECTRICAL ONE-LINE DIAGRAM - NEW FOR ADDITIONAL INFORMATION.
  9. SEE SITE PLAN FOR EXTENSION.
  10. PROVIDE PAD-VAULT PER UTILITY STANDARDS.

- DETAIL GENERAL NOTES**
1. COORDINATE MINIMUM UTILITY TRANSFORMER CLEARANCES WITH GENERAL CONTRACTOR PER UTILITY STANDARDS.
  2. COORDINATE ALL INSTALLATIONS WITH LOCAL UTILITY REP PRIOR TO ROUGH-IN.
  3. COMPLY WITH ALL UTILITY REQUIREMENTS FOR ALL UTILITY INSTALLATIONS.
  4. CIRCUIT ROUTING IS SCHEMATIC UNLESS OTHERWISE NOTED.



**1 ENLARGED SITE POWER UTILITY PLAN: DOCK A/B**  
SCALE: 1/16" = 1'-0"

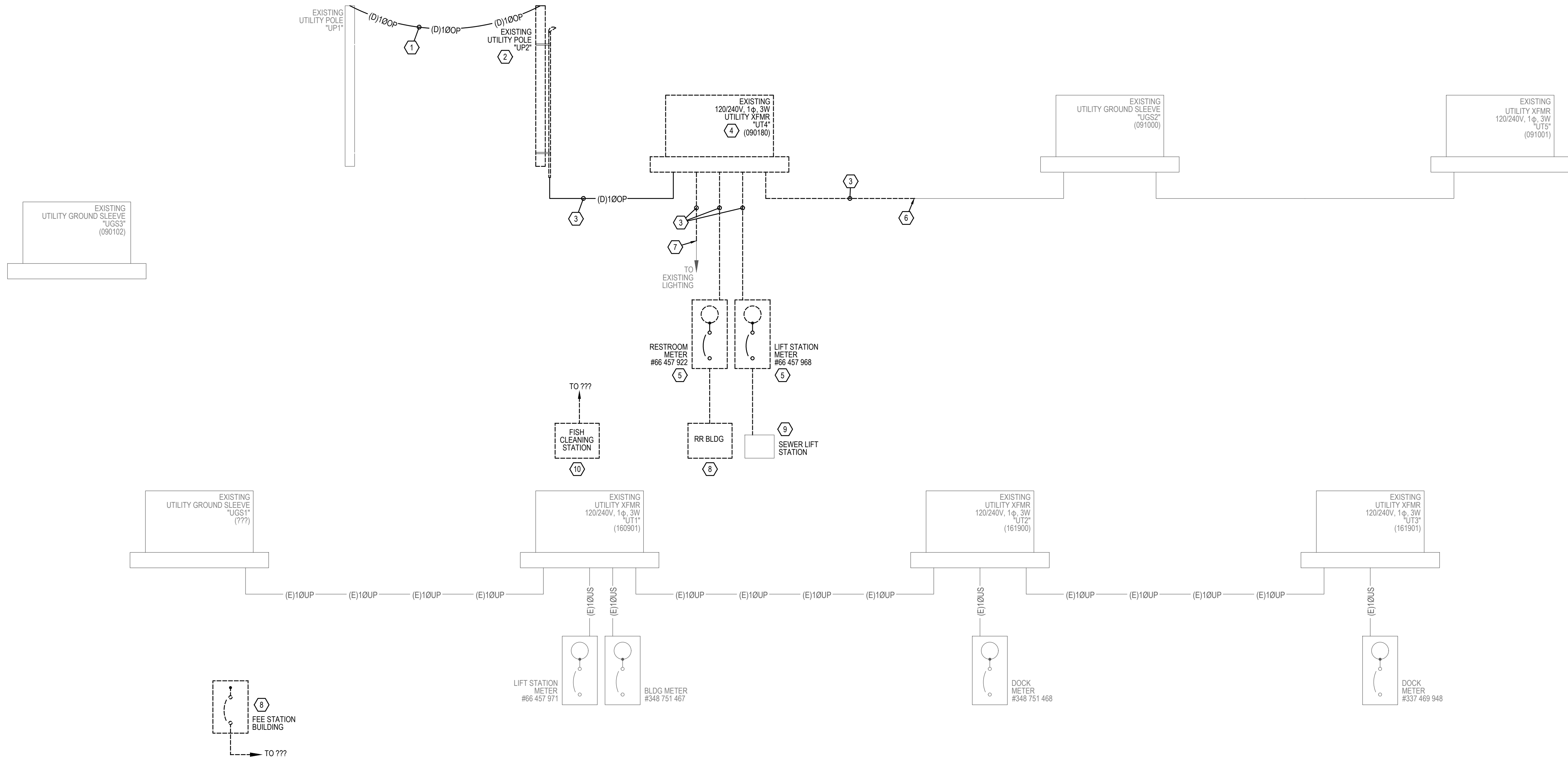
- DETAIL KEYED NOTES**
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  2. RETAINING WALL BY OTHERS.
  3. CURB BY OTHERS.
  4. MARINA SERVICE EQUIPMENT BY OTHERS.
  5. REDUCED CLEARANCE FROM CURB HAS BEEN COORDINATED WITH LOCAL UTILITY REP AND APPROVED.
  6. PROVIDE FIXED PROTECTIVE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  7. PROVIDE REMOVABLE BOLLARD PER UTILITY STANDARDS. SEE DETAIL F15203.
  8. SEE 5206 - ELECTRICAL ONE-LINE DIAGRAM - NEW FOR ADDITIONAL INFORMATION.
  9. SEE SITE PLAN FOR EXTENSION.
  10. PROVIDE PAD-VAULT PER UTILITY STANDARDS.

- DETAIL GENERAL NOTES**
1. COORDINATE MINIMUM UTILITY TRANSFORMER CLEARANCES WITH GENERAL CONTRACTOR PER UTILITY STANDARDS.
  2. COORDINATE ALL INSTALLATIONS WITH LOCAL UTILITY REP PRIOR TO ROUGH-IN.
  3. COMPLY WITH ALL UTILITY REQUIREMENTS FOR ALL UTILITY INSTALLATIONS.
  4. CIRCUIT ROUTING IS SCHEMATIC UNLESS OTHERWISE NOTED.

**REVIEW SET - NOT FOR CONSTRUCTION**

ENLARGED ELECTRICAL SITE PLANS	DESIGNED BY: S. SWENSON
BEAR LAKE MARINA EXPANSION	CHECKED BY: S. SWENSON
DFCM PROJECT #23356510	PROJECT No.: 23356510
GARDEN CITY, UT	SCALE: AS SHOWN

DRAWN BY: D. PATTON  
 SEAL: [Signature]  
 PREPARED UNDER THE DIRECTION SUPERVISION OF CHRIS PRICE, P.E. UTAH REGISTRATION NO. XXXXX FOR AND ON BEHALF OF KIMLEY-HORN AND ASSOCIATES, INC.



**SHEET KEYED NOTES**

- COORDINATE REMOVAL OF OVERHEAD LINES WITH LOCAL UTILITY REP.
- COORDINATE REMOVAL OF EXISTING POLE WITH LOCAL UTILITY REP.
- COORDINATE REMOVAL OF UNDERGROUND POWER LINES WITH LOCAL UTILITY REP.
- COORDINATE REMOVAL OF UTILITY TRANSFORMER WITH LOCAL UTILITY REP.
- REMOVE EXISTING SERVICE INDICATED.
- RE-ROUTE EXISTING PRIMARY CONNECTION TO NEW EQUIPMENT. SEE NEW SITE PLANS & NEW ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- RE-FEED EXISTING LIGHTING FROM NEW EQUIPMENT. SEE NEW SITE PLAN FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING ELECTRICAL AND FEEDERS FROM BUILDING TO BE REMOVED. FIELD VERIFY CONNECTION LOCATION.
- RE-FEED EXISTING EQUIPMENT TO REMAIN. SEE NEW SITE PLANS & NEW ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- EXISTING POWER UTILITY EQUIPMENT TO REMAIN. RE-FEED AS SHOWN.

**GENERAL SHEET NOTES**

- COORDINATE ALL UTILITY INSTALLATIONS WITH LOCAL UTILITY REPS.
- COMPLY WITH ALL UTILITY REQUIREMENTS FOR NEW UTILITY INSTALLATIONS.
- DEMOLITION PLAN IS ENGINEER'S ATTEMPT TO ASSIST BIDDERS IN ESTIMATING REMOVAL COSTS OF EXISTING EQUIPMENT. PLAN IS NOT INTENDED TO BE ALL-INCLUSIVE, AND IT IS THE BIDDERS RESPONSIBILITY TO VERIFY ALL EXISTING EQUIPMENT AND DEVICES TO BE REMOVED PRIOR TO BIDDING.
- EXISTING ITEMS TO BE REMOVED ARE INDICATED AS BOLD/DASHED. ITEMS TO REMAIN ARE SHOWN AS LIGHT/SOLID.
- MAINTAIN CIRCUIT CONTINUITY FOR DEVICES DOWNSTREAM OF ITEMS TO BE REMOVED.

REVIEW SET - NOT FOR CONSTRUCTION

ELECTRICAL ONE-LINE DIAGRAM - DEMO

BEAR LAKE MARINA EXPANSION  
 DFCM PROJECT #23356510  
 GARDEN CITY, UT

DRAWN BY: D. PATTON 7/24/2024  
 DESIGNED BY: S. SWENSON 7/24/2024  
 CHECKED BY: S. SWENSON 7/24/2024  
 PROJECT No.: 23356510 SCALE: AS SHOWN

SEAL

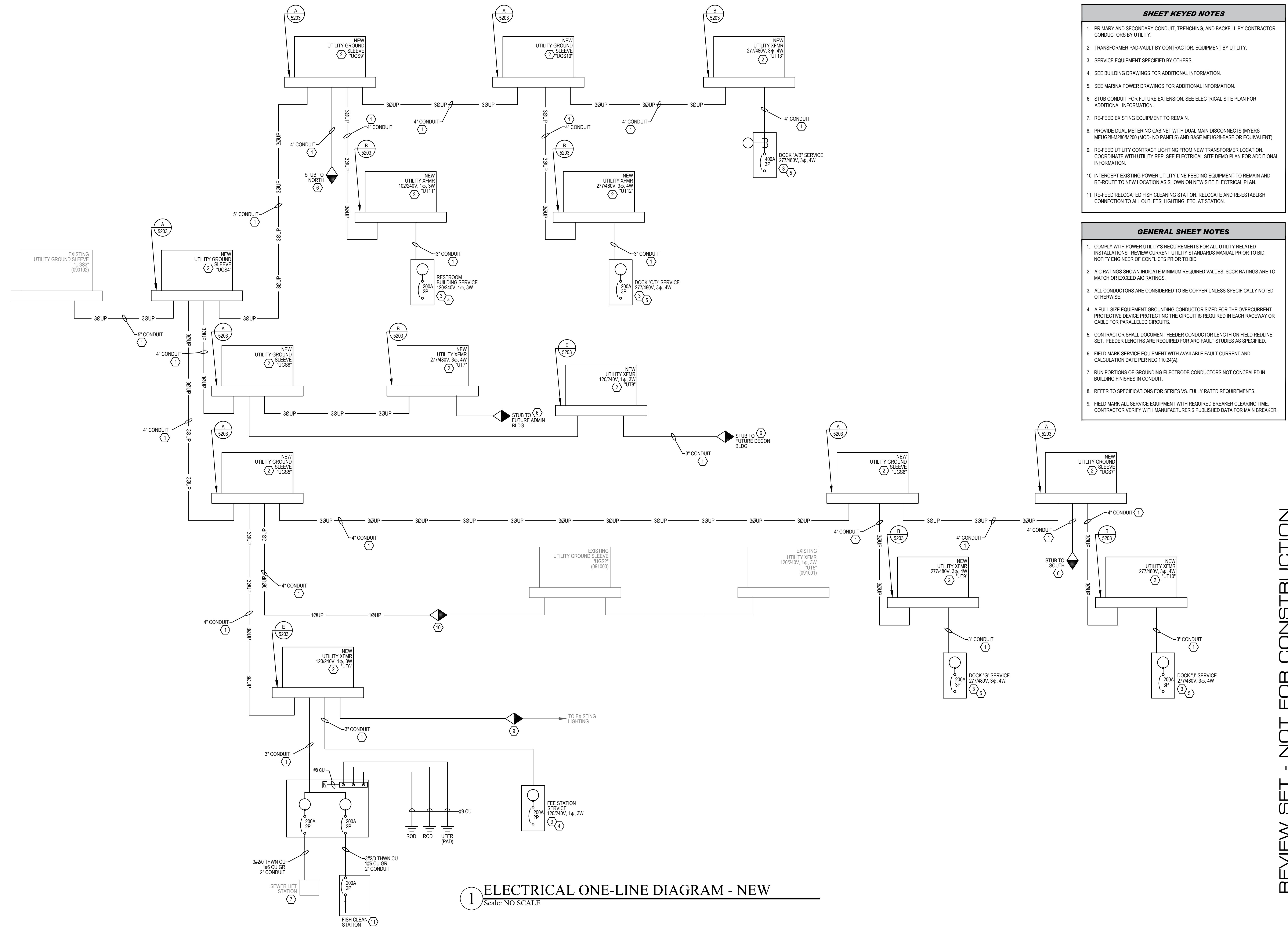
PREPARED UNDER THE DIRECTION  
 SUPERVISION OF CHRIS PRICE, P.E.  
 UTAH REGISTRATION NO. XXXXXX FOR  
 AND ON BEHALF OF KIMLEY-HORN AND  
 ASSOCIATES, INC.

SHEET  
 5205

DATE	DESCRIPTION

**Kimley-Horn**  
 111 East Broadway, Suite 600 Salt Lake City, UT 84111 Tel. No. (385) 213378

Date: 7/24/2024 2:05 PM User: DONALD J. PATTON  
 Path: T:\WORK\20230301 BEAR LAKE MARINA PROJECT\01 DRAWINGS\05 ELECTRICAL\ONE-LINE DIAGRAM - NEW.DWG  
 This document, together with the associated design documents, drawings, and specifications, shall be read in conjunction with the contract documents and shall be subject to the terms and conditions of the contract documents.



- SHEET KEYED NOTES**
1. PRIMARY AND SECONDARY CONDUIT, TRENCHING, AND BACKFILL BY CONTRACTOR. CONDUCTORS BY UTILITY.
  2. TRANSFORMER PAD-VAULT BY CONTRACTOR. EQUIPMENT BY UTILITY.
  3. SERVICE EQUIPMENT SPECIFIED BY OTHERS.
  4. SEE BUILDING DRAWINGS FOR ADDITIONAL INFORMATION.
  5. SEE MARINA POWER DRAWINGS FOR ADDITIONAL INFORMATION.
  6. STUB CONDUIT FOR FUTURE EXTENSION. SEE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
  7. RE-FEED EXISTING EQUIPMENT TO REMAIN.
  8. PROVIDE DUAL METERING CABINET WITH DUAL MAIN DISCONNECTS (MYERS MEUG28-M280M200 (MOD- NO PANELS) AND BASE MEUG28-BASE OR EQUIVALENT).
  9. RE-FEED UTILITY CONTRACT LIGHTING FROM NEW TRANSFORMER LOCATION. COORDINATE WITH UTILITY REP. SEE ELECTRICAL SITE DEMO PLAN FOR ADDITIONAL INFORMATION.
  10. INTERCEPT EXISTING POWER UTILITY LINE FEEDING EQUIPMENT TO REMAIN AND RE-ROUTE TO NEW LOCATION AS SHOWN ON NEW SITE ELECTRICAL PLAN.
  11. RE-FEED RELOCATED FISH CLEANING STATION. RELOCATE AND RE-ESTABLISH CONNECTION TO ALL OUTLETS, LIGHTING, ETC. AT STATION.

- GENERAL SHEET NOTES**
1. COMPLY WITH POWER UTILITY'S REQUIREMENTS FOR ALL UTILITY RELATED INSTALLATIONS. REVIEW CURRENT UTILITY STANDARDS MANUAL PRIOR TO BID. NOTIFY ENGINEER OF CONFLICTS PRIOR TO BID.
  2. AIC RATINGS SHOWN INDICATE MINIMUM REQUIRED VALUES. SCCR RATINGS ARE TO MATCH OR EXCEED AIC RATINGS.
  3. ALL CONDUCTORS ARE CONSIDERED TO BE COPPER UNLESS SPECIFICALLY NOTED OTHERWISE.
  4. A FULL SIZE EQUIPMENT GROUNDING CONDUCTOR SIZED FOR THE OVERCURRENT PROTECTIVE DEVICE PROTECTING THE CIRCUIT IS REQUIRED IN EACH RACEWAY OR CABLE FOR PARALLELED CIRCUITS.
  5. CONTRACTOR SHALL DOCUMENT FEEDER CONDUCTOR LENGTH ON FIELD REDLINE SET. FEEDER LENGTHS ARE REQUIRED FOR ARC FAULT STUDIES AS SPECIFIED.
  6. FIELD MARK SERVICE EQUIPMENT WITH AVAILABLE FAULT CURRENT AND CALCULATION DATE PER NEC 110.24(A).
  7. RUN PORTIONS OF GROUNDING ELECTRODE CONDUCTORS NOT CONCEALED IN BUILDING FINISHES IN CONDUIT.
  8. REFER TO SPECIFICATIONS FOR SERIES VS. FULLY RATED REQUIREMENTS.
  9. FIELD MARK ALL SERVICE EQUIPMENT WITH REQUIRED BREAKER CLEARING TIME. CONTRACTOR VERIFY WITH MANUFACTURER'S PUBLISHED DATA FOR MAIN BREAKER.

**1 ELECTRICAL ONE-LINE DIAGRAM - NEW**  
 Scale: NO SCALE

REVIEW SET - NOT FOR CONSTRUCTION

DESCRIPTION	
DATE	
<b>ELECTRICAL ONE-LINE DIAGRAM - NEW</b>	
<b>BEAR LAKE MARINA EXPANSION</b> DFCM PROJECT #23356510 GARDEN CITY, UT	
DRAWN BY: D. PATTON	7/24/2024
DESIGNED BY: S. SWENSON	7/24/2024
CHECKED BY: S. SWENSON	7/24/2024
PROJECT No.: 23356510	SCALE: AS SHOWN
PREPARED UNDER THE DIRECTION SUPERVISION OF CHRIS PRICE, P.E. UTAH REGISTRATION NO. XXXXX FOR AND ON BEHALF OF KIMLEY-HORN AND ASSOCIATES, INC.	
<b>SHEET</b> <b>5206</b>	



Plotted By: Storing, Seth - Sheet Set: kha - Layout: E0000 - July 25, 2024 - 06:53:08pm - K:\REEN\_Mechanical\0939000002\_Bear Lake Marina\Revit-AutoCAD\Sheets\Electrical\_Site Plan\_2-1.dwg - This document, together with the concepts and designs presented herein, is an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

ELECTRICAL GENERAL NOTES

- 1. THE SUBMISSION OF A BID BY THE CONTRACTOR IS NOTIFICATION THAT THE CONTRACTOR HAS TOTALLY FAMILIARIZED HIMSELF WITH THE CONTRACT DOCUMENTS AND EXISTING SITE CONDITIONS AND HAS AGREED TO PROVIDE THE NECESSARY LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF EACH SYSTEM IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
2. THESE DRAWINGS ARE PRESENTED TO THE CONTRACTOR WITH THE UNDERSTANDING THAT THE CONTRACTOR IS AN EXPERT AND COMPETENT IN THE PREPARATION OF CONTRACT BID PRICES ON THE BASIS OF INFORMATION SUCH AS IS CONTAINED IN THESE DOCUMENTS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION AND IN COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES, AND REGULATIONS. MINOR ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK AND IN THE PROPOSAL THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO DEPARTURES SHALL BE MADE WITHOUT PRIOR APPROVAL.
3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
4. THE DRAWINGS INDICATE ARRANGEMENTS AND APPROXIMATE SIZES AND RELATIVE LOCATIONS OF PRINCIPAL APPARATUS, EQUIPMENT, DEVICES, AND SERVICES TO BE PROVIDED. DRAWINGS ARE DIAGRAMMATIC AND ARE A GRAPHIC REPRESENTATION OF CONTRACT REQUIREMENTS BASED ON THE INFORMATION PROVIDED BY THE MANUFACTURER IDENTIFIED IN THE EQUIPMENT SCHEDULE AT THE SCALE INDICATED.
5. LAYOUT OF EQUIPMENT INDICATED ON THE DRAWINGS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND EXACT LOCATIONS DETERMINED USING APPROVED SHOP DRAWINGS OF SUCH EQUIPMENT. WHERE PHYSICAL INTERFERENCES OCCUR, CONSULT WITH THE OWNER AND PREPARE DATED, DIMENSIONED DRAWINGS COORDINATED WITH ALL OTHER TRADES WORKING IN THIS AREA AND CORRECTING SUCH INTERFERENCE.
6. THE CONTRACTOR SHALL SCHEDULE THEIR WORK IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE SO THAT ALL OF THEIR WORK CAN BE INSTALLED WITHOUT DELAYING THE PROJECT. ALL WORK RELATED TO SHUTDOWN OF EXISTING SERVICES SHALL BE PERFORMED AT THE HOURS DESIGNATED BY THE OWNER WITH ALL ASSOCIATED COSTS BORN BY THE CONTRACTOR AT NO COST TO THE OWNER. PROVIDE ANY TEMPORARY FACILITIES REQUIRED TO PERMIT OWNER'S USE OF EXISTING FACILITIES AND SYSTEMS TO REMAIN UNDISTURBED. COORDINATE ALL WORK, INCLUDING ALL SHUTDOWNS THAT AFFECT SYSTEMS AND/OR PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION, WITH OWNER.
7. THE CONTRACTOR SHALL SECURE AND PAY ALL FEES, LICENSES, INSPECTIONS, AND PERMITS PERTAINING TO THE CONTRACT. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM APPROVED INSPECTION AGENCY.
8. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMENS IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
11. THE CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION FOR ALL FURNISHED ITEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS AND EQUIPMENT PRIOR TO FINAL ACCEPTANCE. ANY DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB OPENINGS, BEAM PENETRATIONS, AND CORING AS IT RELATES TO THEIR WORK. THE CONTRACTOR SHALL SUBMIT SIZE AND LOCATION FOR REVIEW AND APPROVAL.
13. THE CONTRACTOR SHALL SUBMIT SCHEDULE OF SUBMITTALS PRIOR TO SUBMITTING ANY SHOP DRAWINGS, ETC. TO BE SUBMITTED FOR THIS PROJECT, INCLUDING THE ANTICIPATED DATE OF EACH SUBMISSION. CONTRACTORS SHALL SUBMIT AN ELECTRONIC COPY OF THE COMPLETE SHOP DRAWINGS AND CATALOG CUTS, WIRING DIAGRAMS AND ASSOCIATED DATA TO THE OWNER FOR APPROVAL PRIOR TO PURCHASING EQUIPMENT OR STARTING ANY WORK. ANY WORK INSTALLED OR EQUIPMENT PURCHASED PRIOR TO RECEIPT OF OWNER APPROVED SUBMITTALS SHOP DRAWINGS THAT REQUIRES CHANGES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
14. SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE CONTRACTOR. THE CONTRACTOR SHALL CHECK AND VERIFY ALL FIELD MEASUREMENTS.
15. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUPPLY THE OWNER WITH (1) COMPLETE BOUND COPY OF ALL OWNER APPROVED SUBMITTALS AND ALL OPERATION AND MAINTENANCE MANUALS
16. ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION, UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS, AND ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIATED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.
17. INSTALLED SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT SOUND OR VIBRATION THAT IS OBJECTABLE TO THE OWNER. OBJECTABLE SOUND OR VIBRATION CONDITIONS DUE TO WORKMANSHIP SHALL BE CORRECTED IN APPROVED MANNER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
18. THE CONTRACTOR SHALL SIMILARLY NOTIFY OWNER OF COMPLETION OF ALL WORK, INDICATING THE CONTRACTOR IS READY FOR THE OWNER TO PERFORM THE FINAL PUNCHLIST INSPECTION.
19. UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN THE OWNER'S FINAL PUNCH LIST, THE CONTRACTOR SHALL SUBMIT TO THE OWNER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILTS, MANUALS, ETC. HAVE BEEN SUBMITTED.
20. SHOULD A CONTRACTOR REQUIRE REMOVAL, RELOCATION, OR REROUTING OF ANOTHER TRADE'S WORK THAT IS NOT INDICATED ON DRAWINGS, THE CONTRACTOR REQUIRING SUCH WORK SHALL BE RESPONSIBLE FOR THAT WORK, AND PAY ALL REQUIRED COSTS.
21. ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEMS, EQUIPMENT, AND MATERIALS SHALL BE REVIEWED WITH THE OWNER BEFORE BEGINNING WORK.
22. DEFINITION: UNLESS OTHERWISE NOTED, ALL WORK SPECIFIED HEREIN OR NOTED ON DRAWINGS, SHALL BE BY THE CONTRACTOR. THE TERM "PROVIDE" WHENEVER ENCOUNTERED ON DRAWINGS OR IN THESE SPECIFICATIONS, SHALL MEAN "FURNISH AND INSTALL."
23. CODES AND STANDARDS: ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS AND FIRE INSURANCE CARRIER'S REQUIREMENTS.
24. MATERIALS: ALL MATERIALS FURNISHED BY THIS CONTRACTOR, SHALL BE NEW AND BEAR THE LABEL OR LISTING OF A NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY.
25. OUTLET AND SWITCH BOXES: PROVIDE AND INSTALL OUTLET BOXES OF PROPER TYPE AND SIZE AS REQUIRED AT ALL OUTLETS WHERE SHOWN. DEVICES SHALL BE SECURED FIRMLY IN PLACE AND SET TRUE AND SQUARE AND FLUSH WITH THE FINISHED SURFACE.
26. WIRING: WIRES SHALL BE COPPER AND RATED FOR THE LOCATIONS IN WHICH THEY ARE INSTALLED. ALL RACEWAYS ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION TO BE DETERMINED ON THE JOB. CONTRACTOR SHALL ARRANGE ALL NEW CIRCUITS IN PANELS SO AS TO BALANCE THE LOAD ON ALL PHASES. ALL WIRES SHALL BE RATED FOR A MINIMUM OF 600V.
27. A TYPED DIRECTORY CARD SHALL BE PROVIDED IN EACH PANEL WITH ADDED CIRCUITS TO INDICATE THE LOADS ACTUALLY SERVED.
28. GROUNDING: SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250. PROVIDE GROUND WIRES AS REQUIRED AND RESIZE CONDUIT IF NECESSARY.
29. DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS: UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL OBTAIN A CERTIFICATE OF APPROVAL FROM THE RESPECTIVE INSPECTION AGENCIES. CONTRACTOR SHALL NOTIFY AND MAKE ALL THE NECESSARY ARRANGEMENTS WITH THE INSPECTING AGENCY AND LOCAL AUTHORITIES SO THAT INSPECTION MAY BE CARRIED OUT AT THE PROPER TIME.
30. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
31. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
32. THE PLANS SHOW THE GENERAL PATH AND LOCATION OF CONDUIT AND PULL BOXES IN RELATION TO MAJOR PHYSICAL FEATURES. THE CONTRACTOR SHALL NOTE THAT ELEMENT LOCATIONS ARE APPROXIMATE AND MAY CHANGE DURING CONSTRUCTION. THESE CHANGES MAY RESULT IN CHANGES TO CONDUIT LENGTHS ALONG WITH MINOR QUANTITY CHANGES.
33. HOLES, CAVITIES, TRENCHES, AND DEPRESSIONS RESULTING FROM THE REMOVAL OF STRUCTURES OR OBSTRUCTIONS, EXCEPT IN AREAS TO BE EXCAVATED, SHALL BE BACKFILLED WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698, D-2922 AND D-3017. SURPLUS EXCAVATION MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
34. ALL CONDUCTORS SHALL BE IDENTIFIED AT ALL PULL BOXES, LOAD CENTERS AND FIXTURES. ALL WIRING DEVICES SHALL HAVE A TAG ON BACK OF THE COVERPLATE IDENTIFYING THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
35. FOR MATERIAL INSTALLED AND/OR WORK PERFORMED PRIOR TO APPROVAL, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST IF IN THE OPINION OF THE ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE PLANS AND/OR SPECIFICATIONS.
36. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS AND EQUIPMENT PRIOR TO FINAL ACCEPTANCE. ANY DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
37. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL ENERGIZE AND OPERATE THE ENTIRE LIGHTING SYSTEM, FROM SUNSET TO SUNRISE FOR TWO (2) CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF ANY EQUIPMENT OR MATERIAL SHOULD FAIL, IT SHALL BE REPLACED IMMEDIATELY AND RETESTED.
38. "AS-BUILT" DRAWING REQUIREMENTS SHALL CONSIST OF RECORDING, BY THE CONTRACTOR, ANY CHANGE OR DEVIATION ON A SET OF APPROVED PLANS. PLANS SHALL BE FURNISHED TO THE INSPECTOR AT THE COMPLETION OF THE PROJECT. CONTRACTOR SHALL COORDINATE INSPECTION WITH ENGINEER OF RECORD. FINAL PAYMENT SHALL NOT BE MADE UNTIL THE AS-BUILT PRINTS ARE ACCEPTED BY THE ENGINEER OF RECORD.
39. CIRCUIT CONDUCTORS #2 AWG OR SMALLER TO BE COPPER TYPE "XHHW" FOR BELOW GRADE INSTALLATION OR COPPER TYPE THHN/THWN FOR ABOVE GRADE INSTALLATIONS. #1 AWG OR LARGER SHALL BE COPPER TYPE "XHHW-2" STRANDED COPPER.
40. OUTDOOR CONDUITS TO BE RIGID GALVANIZED STEEL (RGS), MINIMUM SIZE 1", UNLESS OTHERWISE NOTED ON THE PLANS. RGS CONDUIT SHALL EXTEND BELOW GRADE TO THE FIRST ELBOW. ALL RGS CONDUIT EXPOSED TO EARTH SHALL BE PVC COATED. EXTEND TO A HEIGHT OF 12" ABOVE GRADE. INDOOR CONDUITS SHALL BE IMC OR EMT UNLESS OTHERWISE SHOWN ON PLAN.
41. ALL UNDERGROUND CONDUIT SHALL BE WRAPPED RIGID STEEL WITH THREADED COUPLINGS AND CONNECTORS, AND/OR PVC SCHEDULE 40. ALL ELBOWS AND EXPOSED RISERS SHALL BE WRAPPED RIGID STEEL CONDUIT.

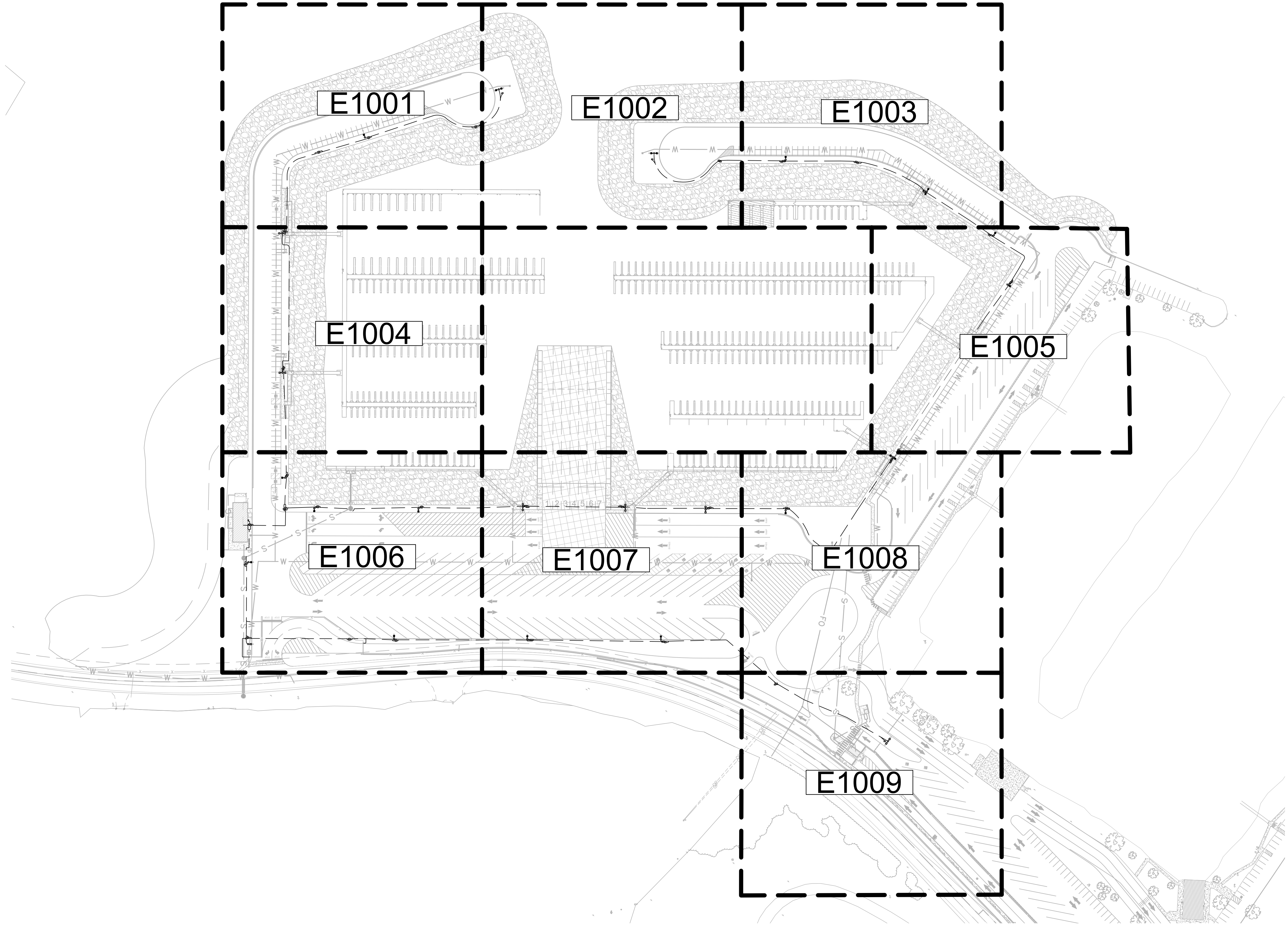
LIGHTING FIXTURE SCHEDULE table with columns: SYM, LAMPS, VOLTS, DESCRIPTION, MANUFACTURER, QTY. Rows include pole mounted light fixtures in single and dual configurations for parking lots/driveways.

ABBREVIATIONS table listing symbols and their corresponding meanings for electrical components like AFG (Above Finished Grade), PLC (Programmable Logic Controller), etc.

LEGEND table defining symbols for communication or electrical pull boxes, junction boxes, conduit runs, and existing conduits.

Project metadata and branding including: ELECTRICAL SYMBOL AND GENERAL NOTES, BEAR LAKE MARINA EXPANSION DFCM PROJECT #23356510, RICH COUNTY, UT, Kimley-Horn logo, and drawing/revision dates.

Plotted By: Storing, Seth Sheet Set: kha\_Layout:E1000 July 25, 2024 06:53:13pm K:\REN\_Mechanical\093900005\_Bear\_Lake\_Marina\_Revit-AutoCAD\_Sheets\Electrical\_Site Plan\_2-1.dwg  
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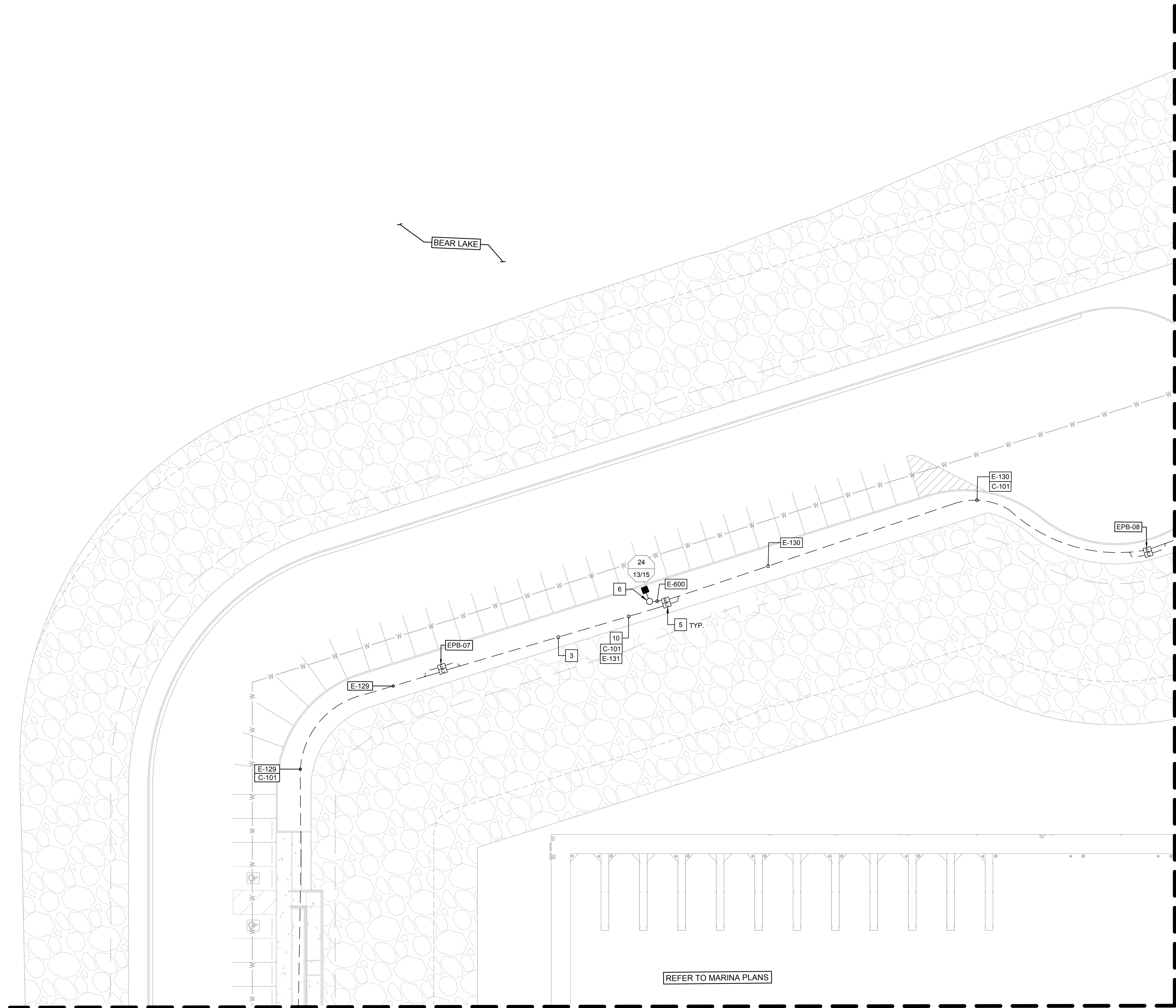


DRAWN BY: STS 7/29/2024 DESIGNED BY: YSH 7/29/2024 CHECKED BY: YSH 7/29/2024 PROJECT NO.: 23356510 7/29/2024		DATE DESCRIPTION
ELECTRICAL SITE LIGHTING PLAN REFERENCE		
BEAR LAKE MARINA EXPANSION DFCM PROJECT #23356510 RICH COUNTY, UT		
SEAL		
PREPARED UNDER THE DIRECTION SUPERVISION OF CHRIS PRICE, P.E. UTAH REGISTRATION NO. XXXXX FOR AND ON BEHALF OF KIMLEY-HORN AND ASSOCIATES, INC.		
SHEET <b>E1000</b>		



111 East Broadway, Suite 600 | Salt Lake City, UT 84111 | Tel. No. (801) 215-3176

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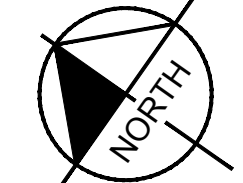
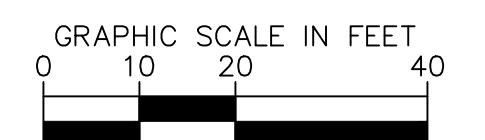
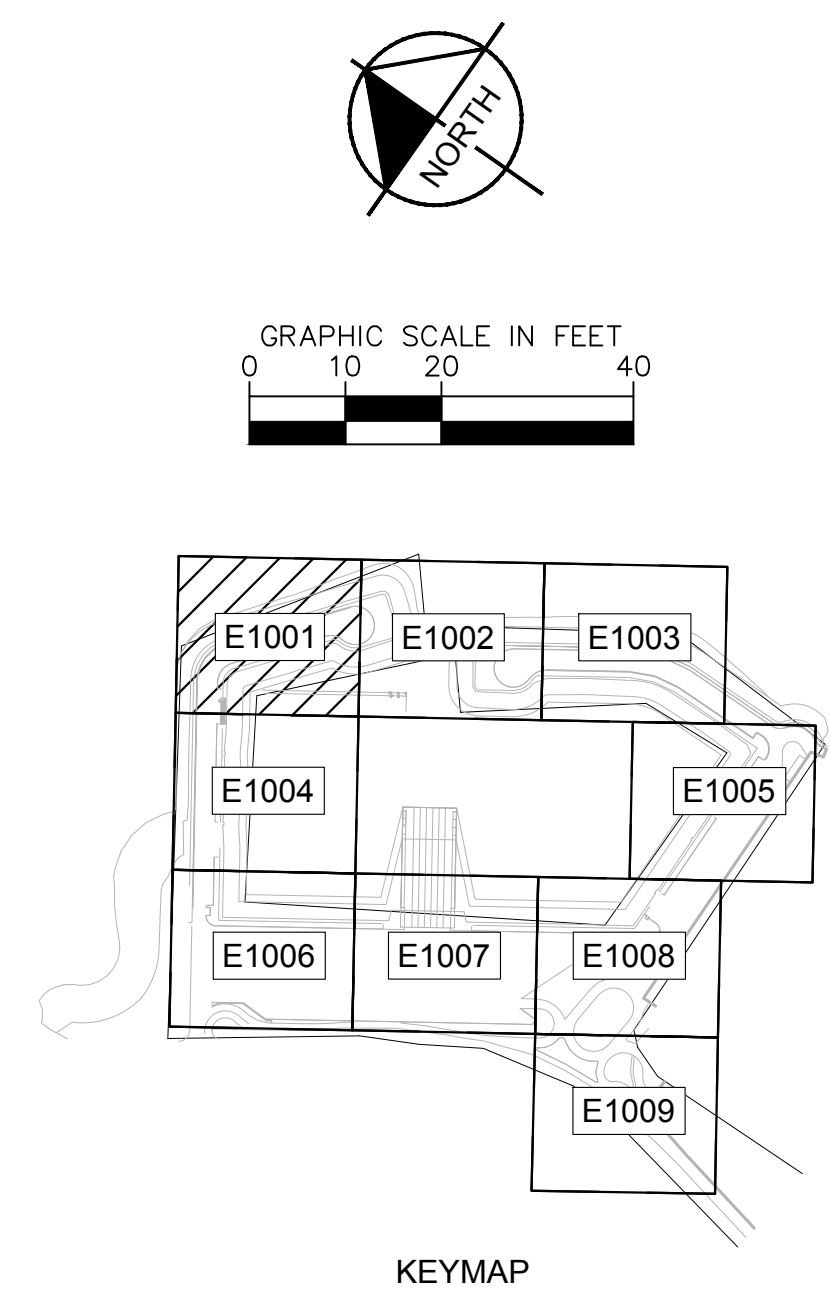


- ELECTRICAL NOTES**
- 3 PROPOSED LOCATION OF ELECTRICAL CONDUIT TRENCH. REFER TO TRENCH DETAIL D ON SHEET E2000 FOR FURTHER INFORMATION.
  - 5 PROVIDE PULLBOX PER DETAIL B ON SHEET E2000.
  - 6 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-III-M-80LED-700mA-30K-1 SINGLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
  - 10 INSTALL SPARE CONDUIT FOR FUTURE COMMUNICATIONS INTERCONNECTIONS. CONTRACTOR TO INSTALL STRING IN EACH SPARE CONDUIT.

MATCHLINE - SEE SHEET E1002

MATCHLINE - SEE SHEET E1004

REFER TO MARINA PLANS



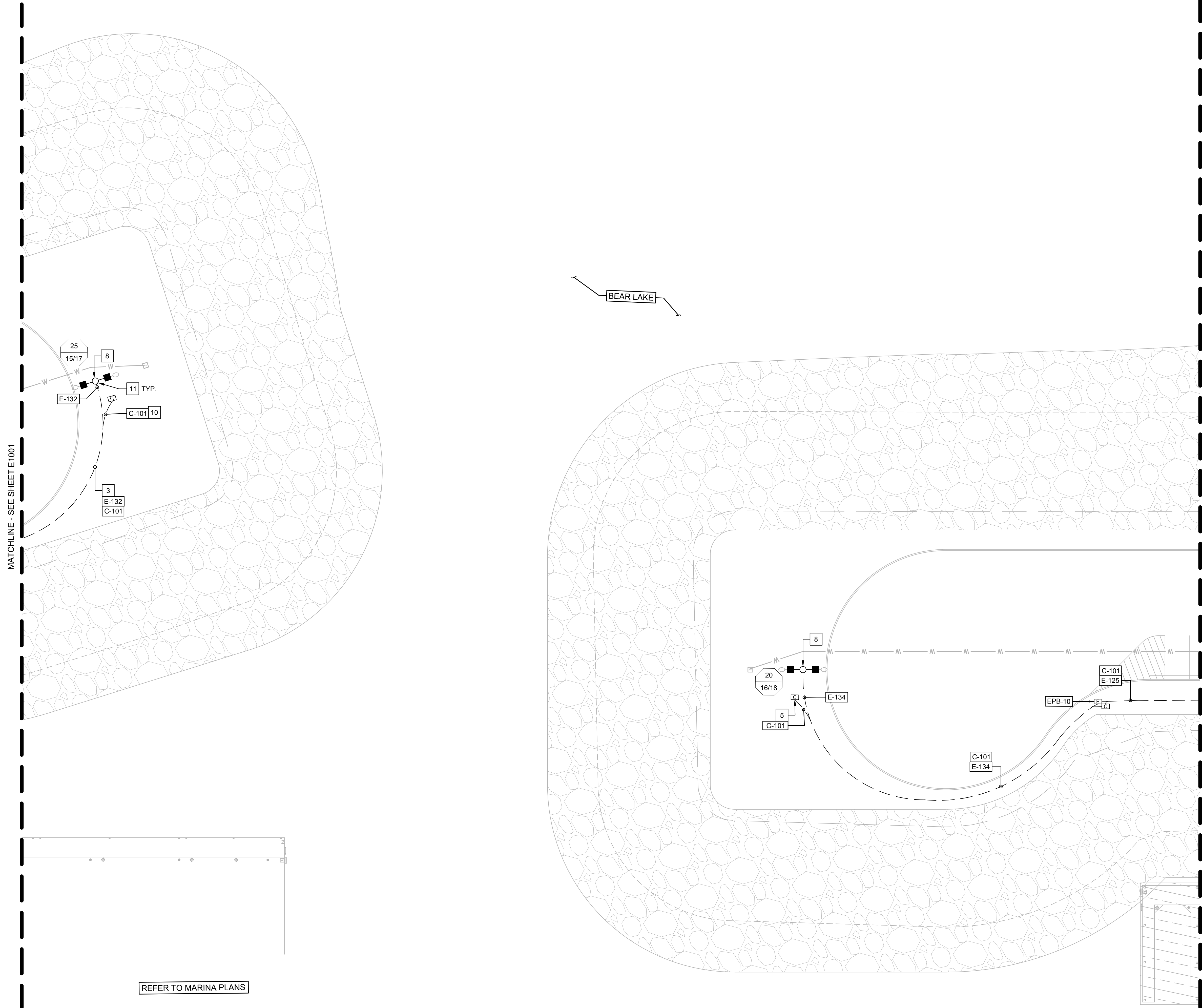
DATE	DESCRIPTION

<b>ELECTRICAL SITE LIGHTING PLAN REFERENCE</b>	
BEAR LAKE MARINA EXPANSION DFCM PROJECT #23356510 RICH COUNTY, UT	
DRAWN BY: STS	7/29/2024
DESIGNED BY: YSH	7/29/2024
CHECKED BY: YSH	7/29/2024
PROJECT NO.: 23356510	7/29/2024
SEAL	
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SHEET <b>E1001</b>	



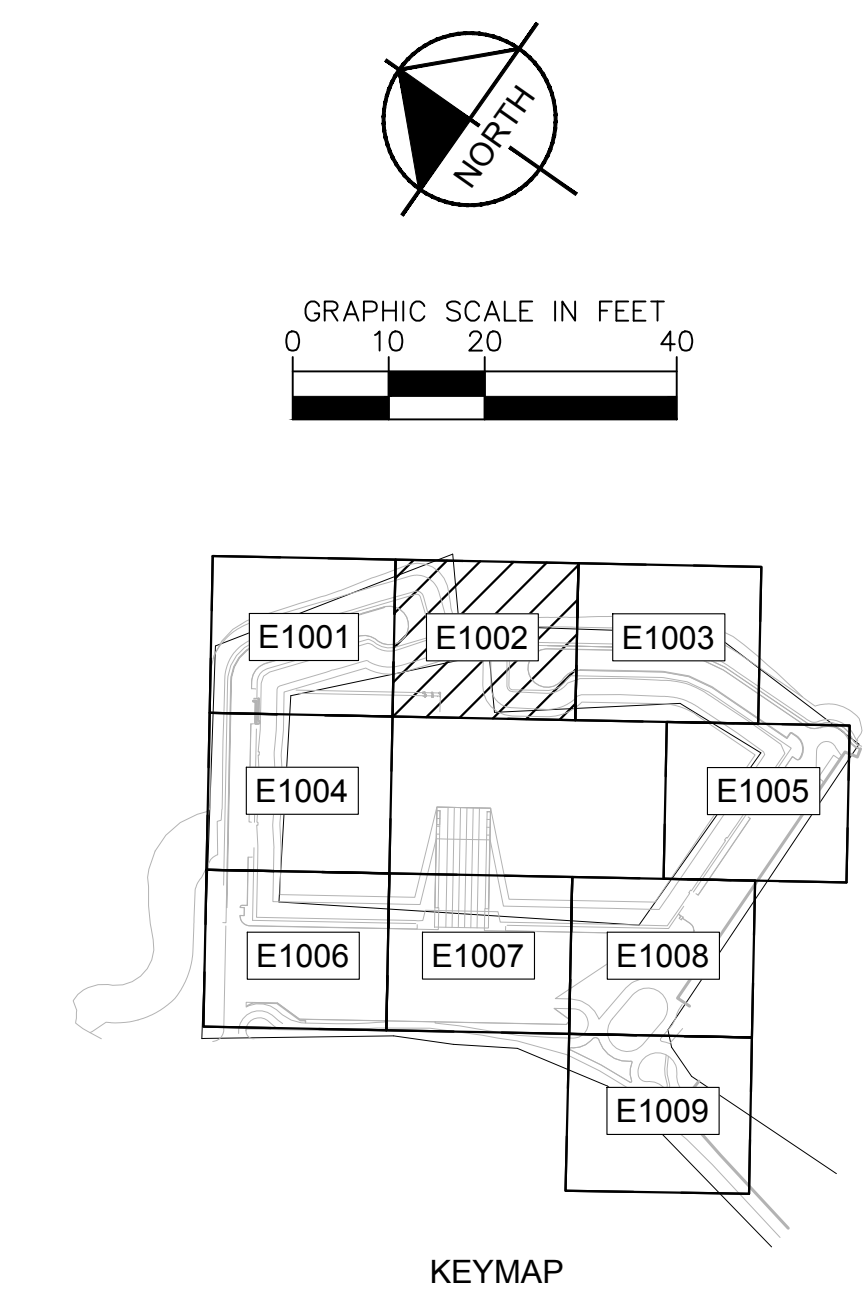
Plotted By: Storing, Seth Sheet Set: kha Layout: E1002 July 25, 2024 06:53:22pm K:\REN\_Mechanical\0939000008\_Bear Lake Marina\Revit-AutoCAD\Sheets\Electrical Site Plan-2-1.dwg  
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REFER TO MARINA PLANS

**ELECTRICAL NOTES**

- 3 PROPOSED LOCATION OF ELECTRICAL CONDUIT TRENCH. REFER TO TRENCH DETAIL D ON SHEET E2000 FOR FURTHER INFORMATION.
- 5 PROVIDE PULLBOX PER DETAIL B ON SHEET E2000.
- 8 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-VSQ-W-80LED-700mA-30K-2-180 DOUBLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 10 INSTALL SPARE CONDUIT FOR FUTURE COMMUNICATIONS INTERCONNECTIONS. CONTRACTOR TO INSTALL STRING IN EACH SPARE CONDUIT.
- 11 INSTALL PULLBOX AND CONDUIT BY LIGHT POLE AS SHOWN ON SHEET E2000 DETAIL E AND F.



DATE	DESCRIPTION

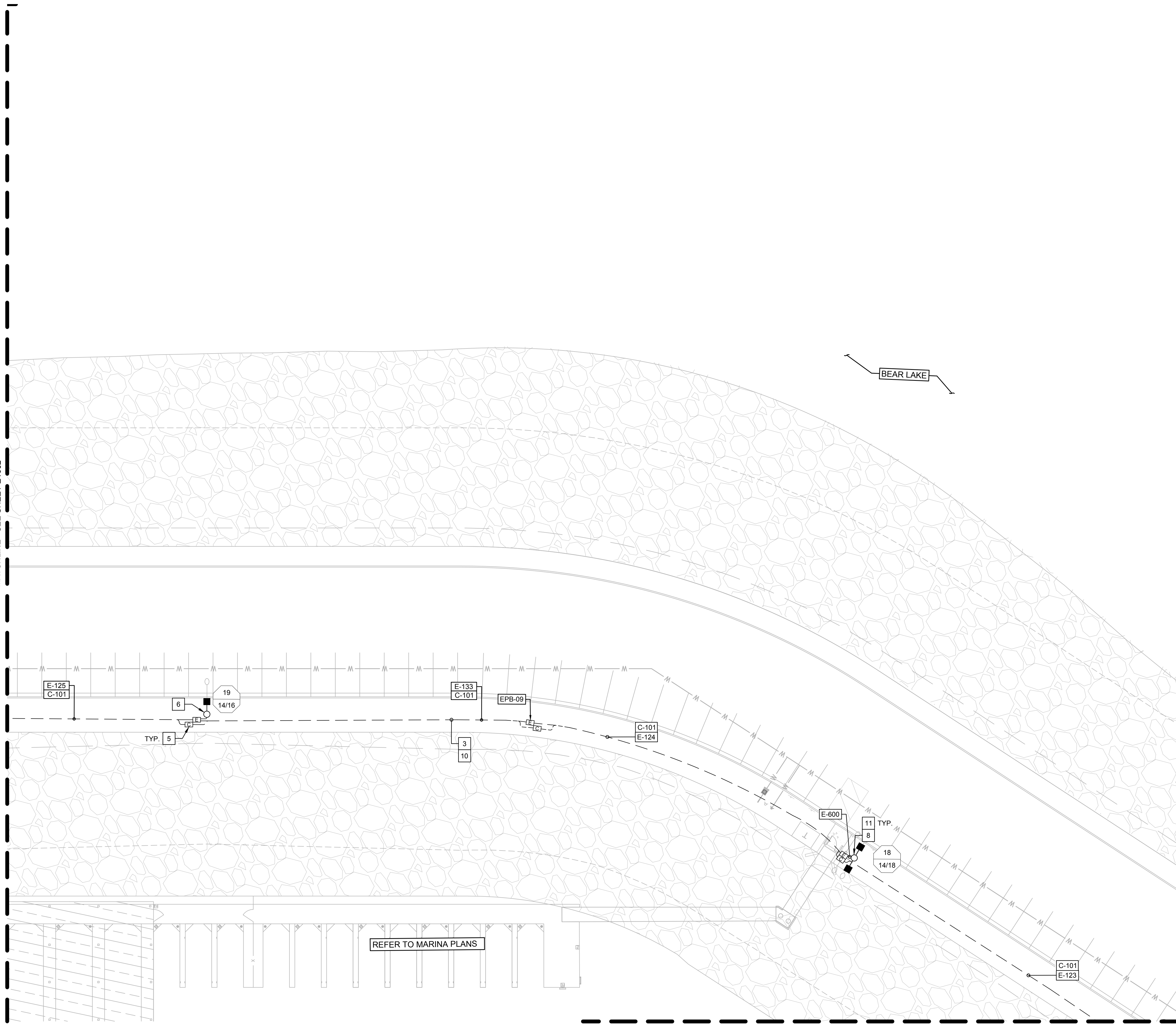
<b>ELECTRICAL SITE LIGHTING PLAN</b>
<b>BEAR LAKE MARINA EXPANSION</b> DFCM PROJECT #23356510 RICH COUNTY, UT
DRAWN BY: STS 7/29/2024 DESIGNED BY: YSH 7/29/2024 CHECKED BY: 7/29/2024 PROJECT NO.: 23356510 7/29/2024
SEAL
PREPARED UNDER THE DIRECTION SUPERVISION OF CHRIS PRICE, P.E. UTAH REGISTRATION NO. XXXXX FOR AND ON BEHALF OF KIMLEY-HORN AND ASSOCIATES, INC.
SHEET <b>E1002</b>



111 East Broadway, Suite 600 | Salt Lake City, UT 84111 | Tel. No. (801) 219-3176

Plotted By: Storing, Seth Sheet Set: Kna Layout: E1003 July 25, 2024 06:53:25pm K:\REN\_Mechanical\0939000008\_Bear Lake Marina\Revit\AutoCAD\Sheets\Electrical\Site Plan\_2-2-1.dwg  
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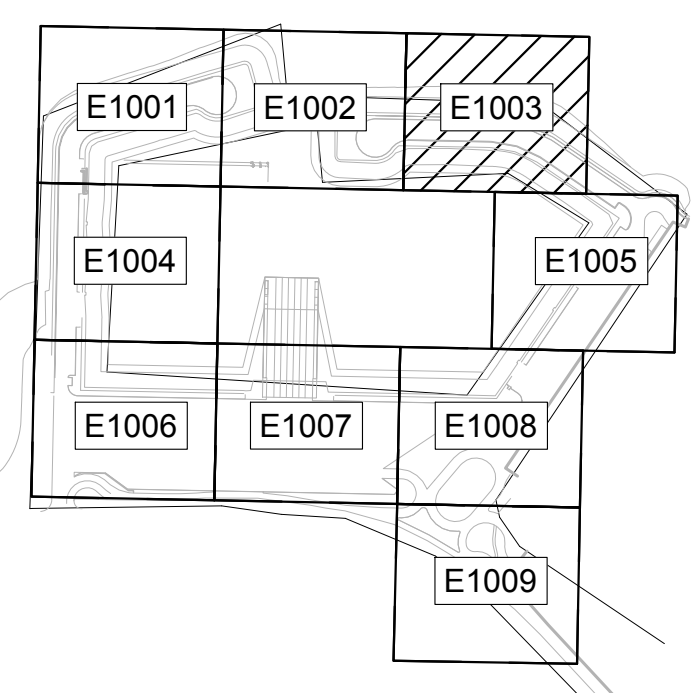
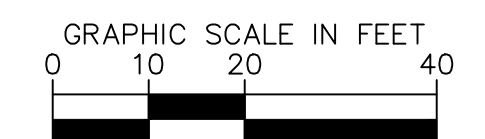
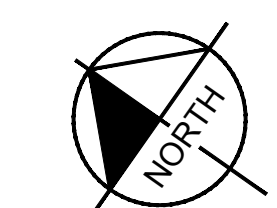
MATCHLINE - SEE SHEET E1002



MATCHLINE - SEE SHEET E1005

**ELECTRICAL NOTES**

- 3 PROPOSED LOCATION OF ELECTRICAL CONDUIT TRENCH. REFER TO TRENCH DETAIL D ON SHEET E2000 FOR FURTHER INFORMATION.
- 5 PROVIDE PULLBOX PER DETAIL B ON SHEET E2000.
- 6 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-III-M-80LED-700mA-30K-1 SINGLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 8 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-VSQ-W-80LED-700mA-30K-2-180 DOUBLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 10 INSTALL SPARE CONDUIT FOR FUTURE COMMUNICATIONS INTERCONNECTIONS. CONTRACTOR TO INSTALL STRING IN EACH SPARE CONDUIT.
- 11 INSTALL PULLBOX AND CONDUIT BY LIGHT POLE AS SHOWN ON SHEET E2000 DETAIL E AND F.



KEYMAP

DATE	DESCRIPTION

**ELECTRICAL SITE LIGHTING PLAN**  
 BEAR LAKE MARINA EXPANSION  
 DFCM PROJECT #23356510  
 RICH COUNTY, UT

DESIGNED BY: YSH  
 CHECKED BY: YSH  
 PROJECT NO.: 23356510

DRAWN BY: STS  
 DATE: 7/29/2024

SEAL

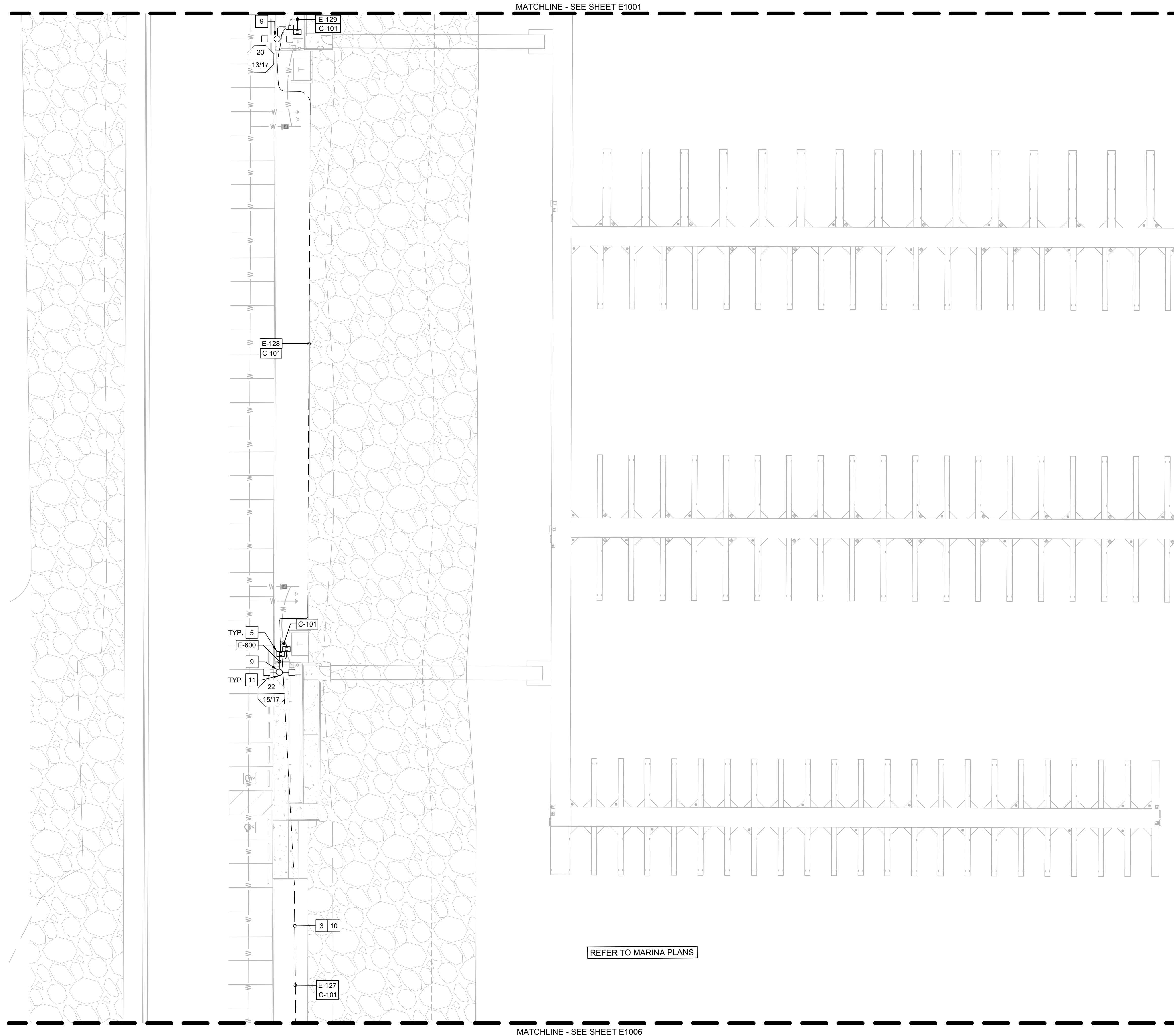
PREPARED UNDER THE DIRECTION  
 SUPERVISION OF CHRIS PRICE, P.E.  
 UTAH REGISTRATION NO. XXXXX FOR  
 AND ON BEHALF OF KIMLEY-HORN AND  
 ASSOCIATES, INC.

SHEET  
**E1003**



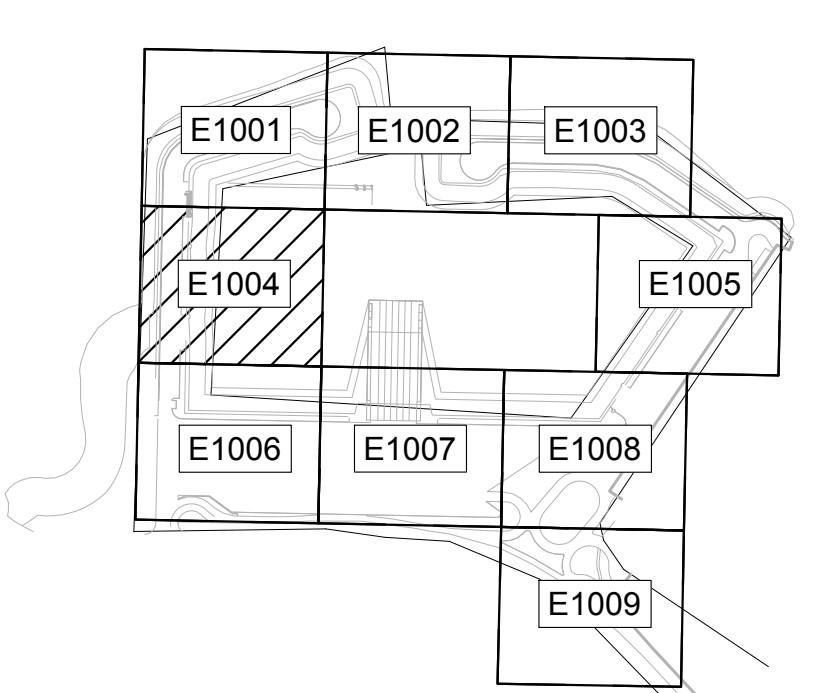
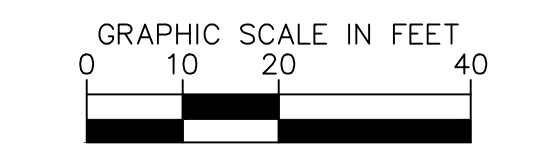
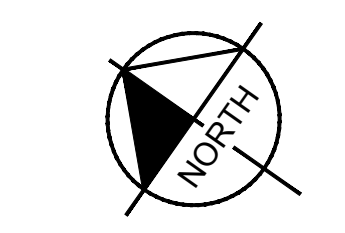
111 East Broadway, Suite 600 | Salt Lake City, UT 84111 | Tel. No. (801) 212-3176

Plotted By: Storing, Seth Sheet Set: Kna Layout: E1004 July 25, 2024 06:53:30pm K:\REN\_Mechanical\093900008\_Bear Lake Marina\Revit-AutoCAD\Sheets\Electrical\Site Plan-2-1.dwg  
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**ELECTRICAL NOTES**

- 3 PROPOSED LOCATION OF ELECTRICAL CONDUIT TRENCH. REFER TO TRENCH DETAIL D ON SHEET E2000 FOR FURTHER INFORMATION.
- 5 PROVIDE PULLBOX PER DETAIL B ON SHEET E2000.
- 9 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-III-M-80LED-700mA-30K-2-180 DOUBLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 10 INSTALL SPARE CONDUIT FOR FUTURE COMMUNICATIONS INTERCONNECTIONS. CONTRACTOR TO INSTALL STRING IN EACH SPARE CONDUIT.
- 11 INSTALL PULLBOX AND CONDUIT BY LIGHT POLE AS SHOWN ON SHEET E2000 DETAIL E AND F.



KEYMAP

DATE	DESCRIPTION

**ELECTRICAL SITE LIGHTING PLAN**

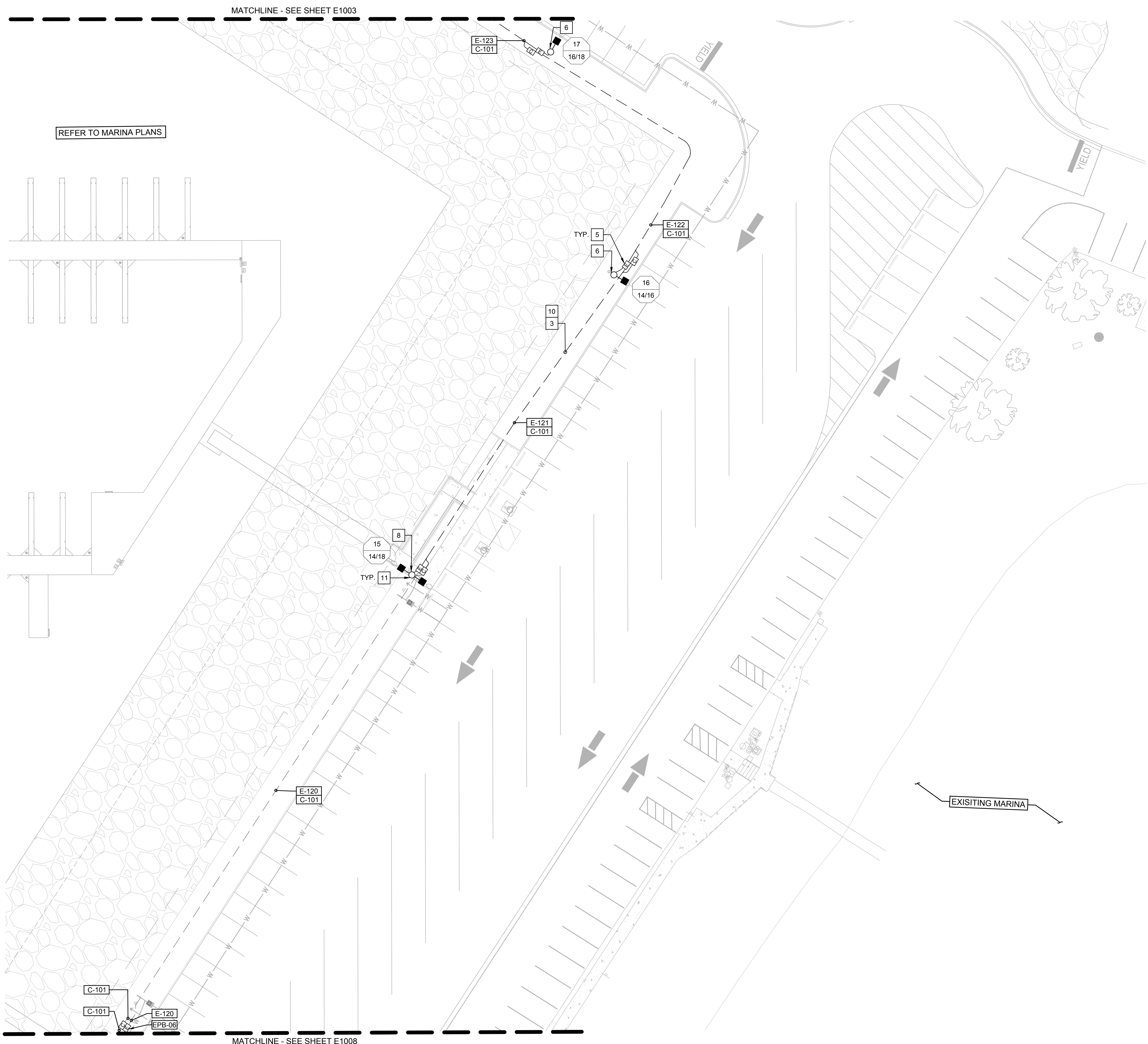
**Bear Lake Marina Expansion**  
DFCM PROJECT #23356510  
RICH COUNTY, UT

DRAWN BY:	STS	7/29/2024
DESIGNED BY:	YSH	7/29/2024
CHECKED BY:		7/29/2024
PROJECT NO.:	23356510	7/29/2024

SEAL

PREPARED UNDER THE DIRECTION  
SUPERVISION OF CHRIS PRICE, P.E.  
UTAH REGISTRATION NO. XXXXX FOR  
AND ON BEHALF OF KIMLEY-HORN AND  
ASSOCIATES, INC.

Plotted By: Storing, Seth Sheet Set: kha Layout: E1005 July 25, 2024 06:53:35pm K:\REN\_Mechanical\0939000008\_Bear Lake Marina\Revit\AutoCAD\Sheets\Electrical\Site Plan-2-1.dwg  
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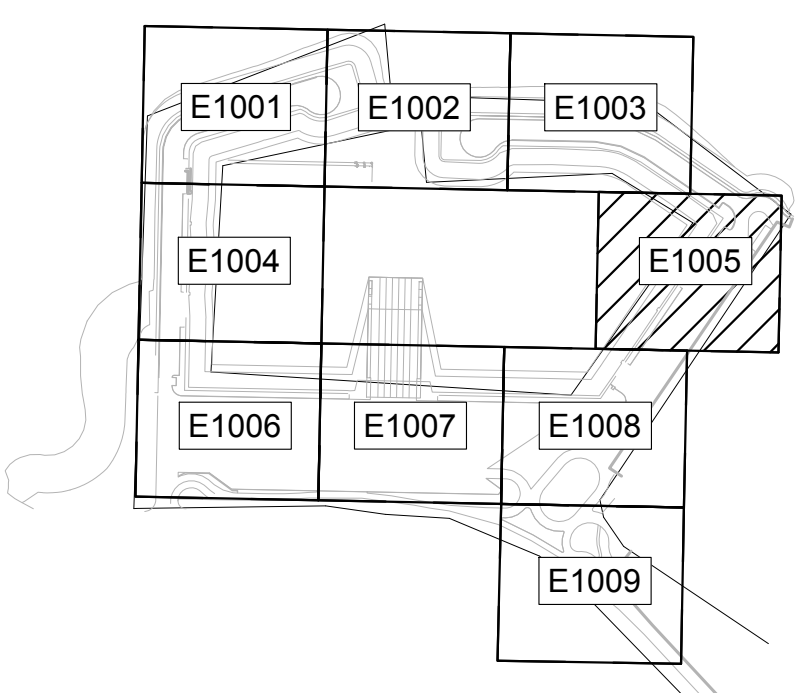
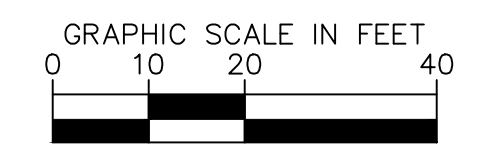
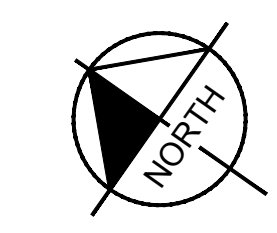
REFER TO MARINA PLANS

MATCHLINE - SEE SHEET E1003

MATCHLINE - SEE SHEET E1008

**ELECTRICAL NOTES**

- 3 PROPOSED LOCATION OF ELECTRICAL CONDUIT TRENCH. REFER TO TRENCH DETAIL D ON SHEET E2000 FOR FURTHER INFORMATION.
- 5 PROVIDE PULLBOX PER DETAIL B ON SHEET E2000.
- 6 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-III-M-80LED-700mA-30K-1 SINGLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 8 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-VSQ-W-80LED-700mA-30K-2-180 DOUBLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 10 INSTALL SPARE CONDUIT FOR FUTURE COMMUNICATIONS INTERCONNECTIONS. CONTRACTOR TO INSTALL STRING IN EACH SPARE CONDUIT.
- 11 INSTALL PULLBOX AND CONDUIT BY LIGHT POLE AS SHOWN ON SHEET E2000 DETAIL E AND F.



KEYMAP

DATE	DESCRIPTION

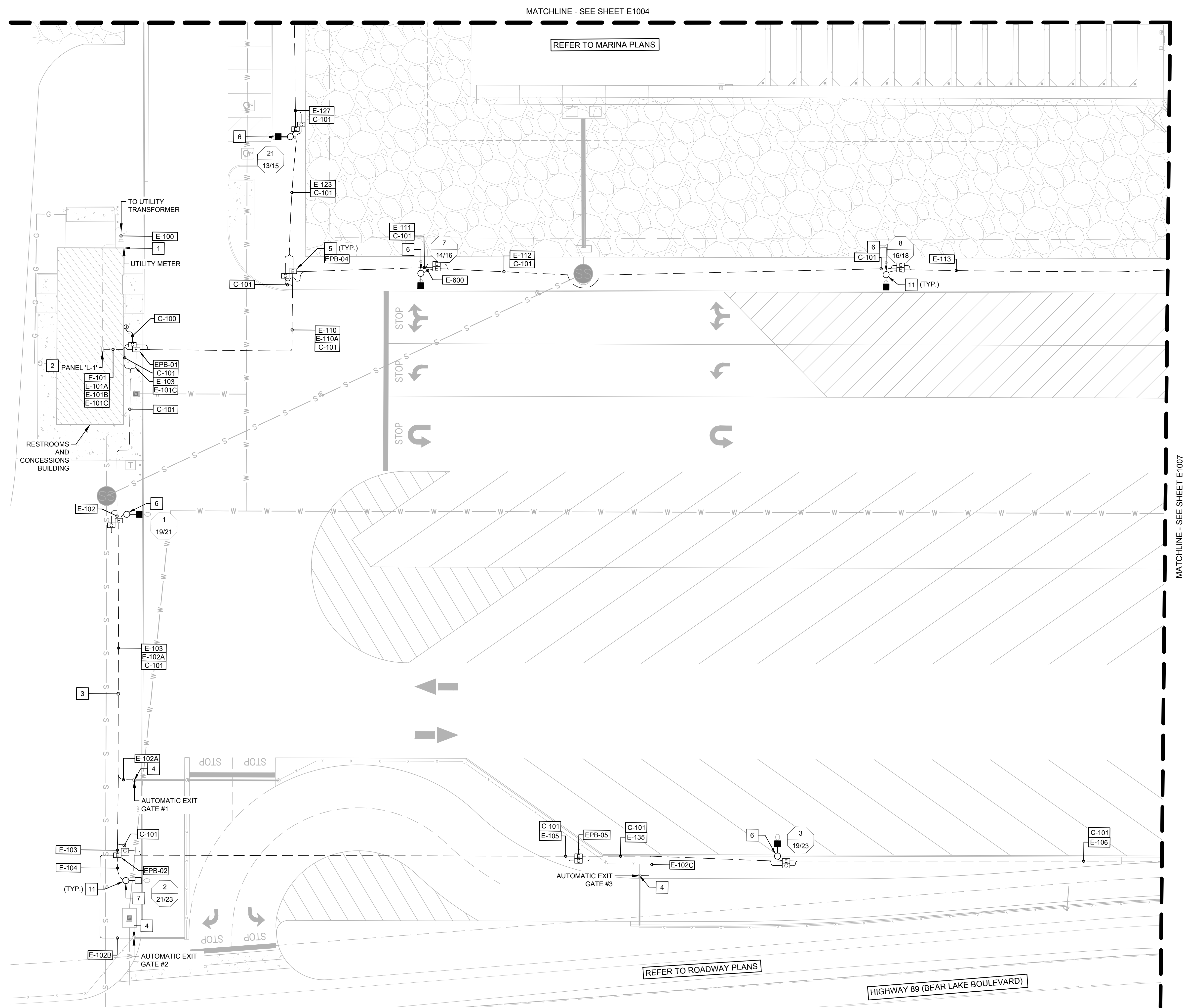
  

<b>ELECTRICAL SITE LIGHTING PLAN</b>	<b>Kimley»Horn</b> <small>111 East Broadway, Suite 600   Salt Lake City, UT 84111   Tel. No. (801) 212-3176</small>
BEAR LAKE MARINA EXPANSION DFCM PROJECT #23356510 RICH COUNTY, UT	PROJECT NO.: 23356510
DRAWN BY: STS	DESIGNED BY: YSH
7/29/2024	7/29/2024
CHECKED BY:	PROJECT NO.:
7/29/2024	23356510
7/29/2024	7/29/2024

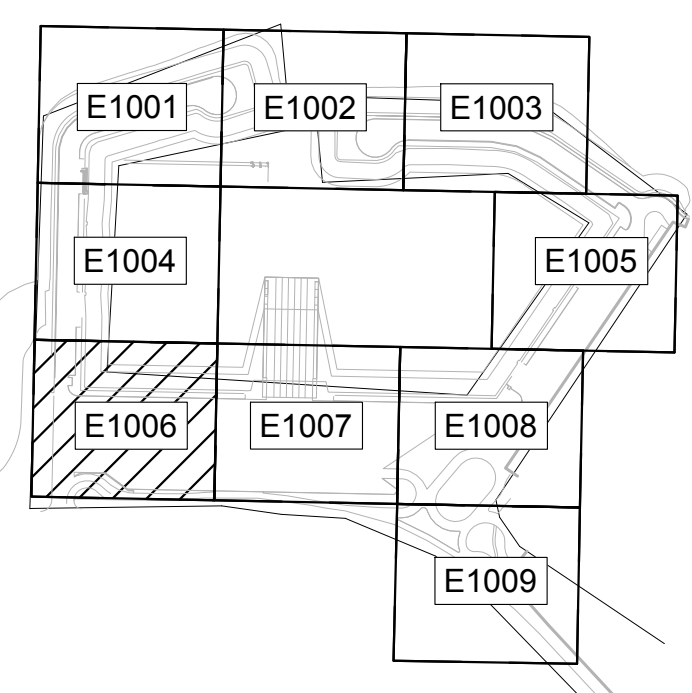
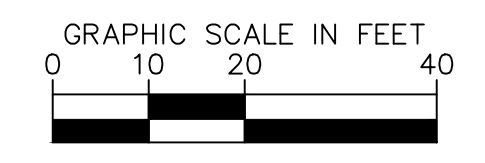
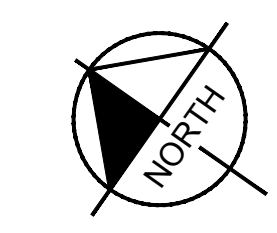
SEAL	SHEET
PREPARED UNDER THE DIRECTION SUPERVISION OF CHRIS PRICE, P.E. UTAH REGISTRATION NO. XXXXXX FOR AND ON BEHALF OF KIMLEY-HORN AND ASSOCIATES, INC.	<b>E1005</b>

Plotted By: Storing, Seth Sheet Set: K:\Projects\2024\07\25\2024\_06:53:39pm K:\REN\_Mechanical\0939000008\_Bear Lake Marina\Revit-AutoCAD\Sheets\Electrical\Site Plan-2-1.dwg  
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**ELECTRICAL NOTES**

- 1 SEE RESTROOM BUILDING PLAN SHEET E100-B FOR UTILITY POWER SERVICE INTERCONNECTION AND TRANSFORMER DETAILS.
- 2 SEE RESTROOM BUILDING PLAN SHEET E600-B FOR PANEL SCHEDULE AND ELECTRICAL EQUIPMENT INFORMATION.
- 3 PROPOSED LOCATION OF ELECTRICAL CONDUIT TRENCH. REFER TO TRENCH DETAIL D ON SHEET E2000 FOR FURTHER INFORMATION.
- 4 PROVIDE AND INSTALL A GATE MOUNTED 24" X 24" X 12" NEMA 3R ENCLOSURE FOR THE MOTOR CONTROLS AND GATE MOTOR. GATE SUPPLIER SHALL PROVIDE ALL REQUIRED CONTROLS, LOOP DETECTOR AND WIRING FOR CARD READER AND ELECTRIC GATE.
- 5 PROVIDE PULLBOX PER DETAIL B ON SHEET E2000.
- 6 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-III-M-80LED-700mA-30K-1 SINGLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 7 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-IV-FT-80LED-700mA-30K-1 SINGLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 11 INSTALL PULLBOX AND CONDUIT BY LIGHT POLE AS SHOWN ON SHEET E2000 DETAIL E AND F.



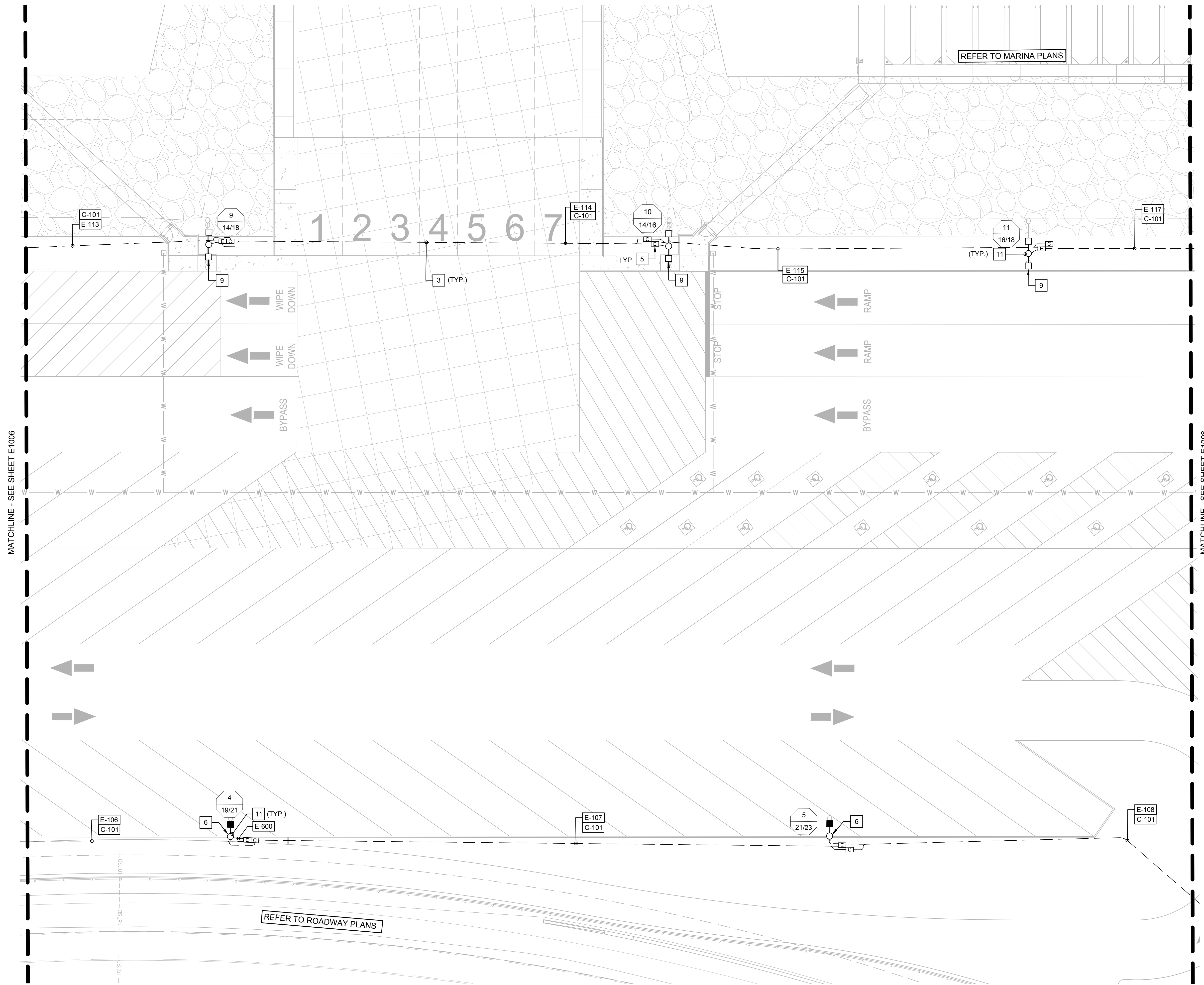
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DATE	DESCRIPTION					
DRAWN BY:	DESIGNED BY:	CHECKED BY:	PROJECT NO.:	DATE	DATE	DATE
STS	YSH	YSH	23356510	7/29/2024	7/29/2024	7/29/2024
<b>ELECTRICAL SITE LIGHTING PLAN</b>						
<b>BEAR LAKE MARINA EXPANSION</b>						
DFCM PROJECT #23356510						
RICH COUNTY, UT						
SEAL						
PREPARED UNDER THE DIRECTION SUPERVISION OF CHRIS PRICE, P.E. UTAH REGISTRATION NO. XXXXXX FOR AND ON BEHALF OF KIMLEY-HORN AND ASSOCIATES, INC.						
<b>SHEET E1006</b>						



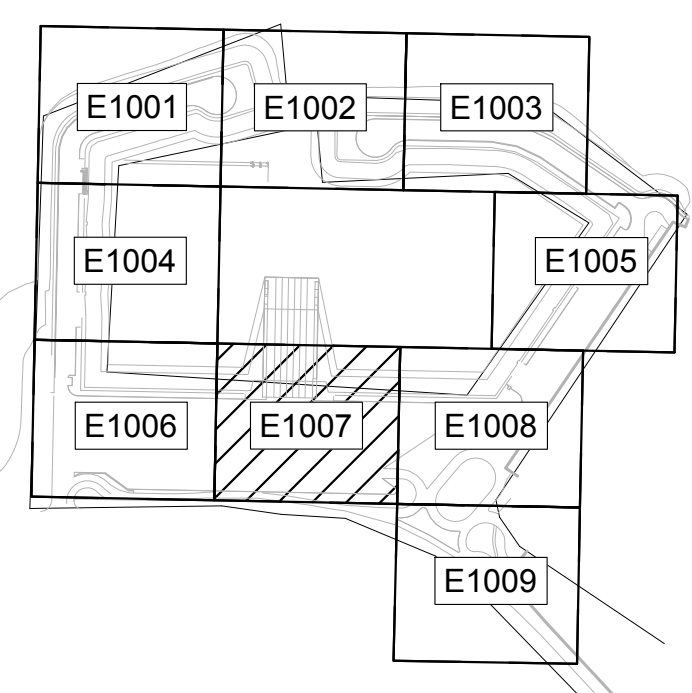
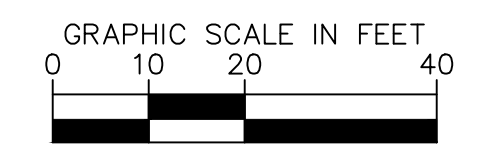
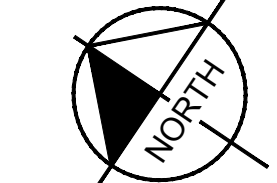


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**ELECTRICAL NOTES**

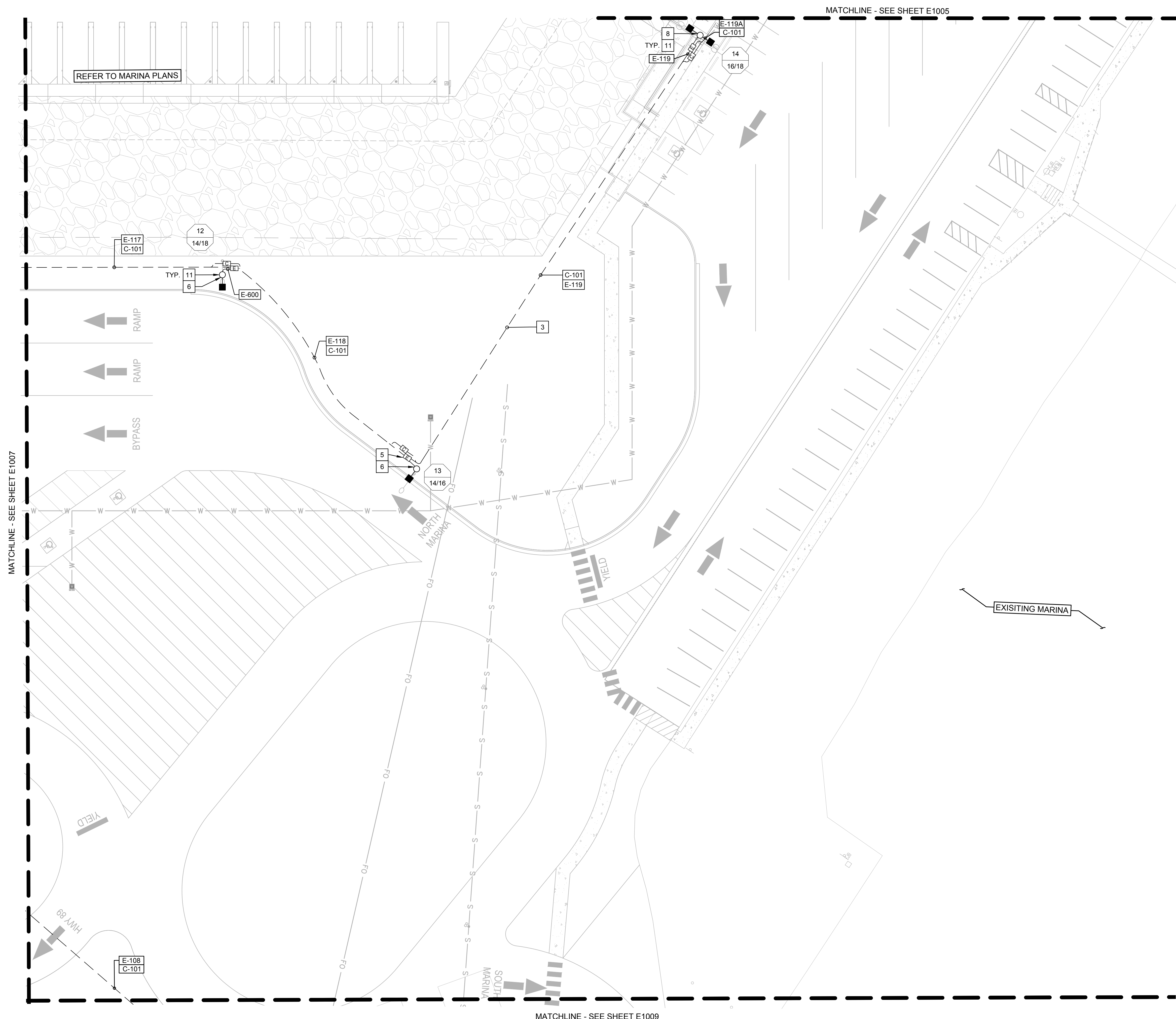
- 3 PROPOSED LOCATION OF ELECTRICAL CONDUIT TRENCH. REFER TO TRENCH DETAIL D ON SHEET E2000 FOR FURTHER INFORMATION.
- 5 PROVIDE PULLBOX PER DETAIL B ON SHEET E2000.
- 6 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-III-M-80LED-700mA-30K-1 SINGLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 9 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-III-M-80LED-700mA-30K-2-180 DOUBLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 11 INSTALL PULLBOX AND CONDUIT BY LIGHT POLE AS SHOWN ON SHEET E2000 DETAIL E AND F.



KEYMAP

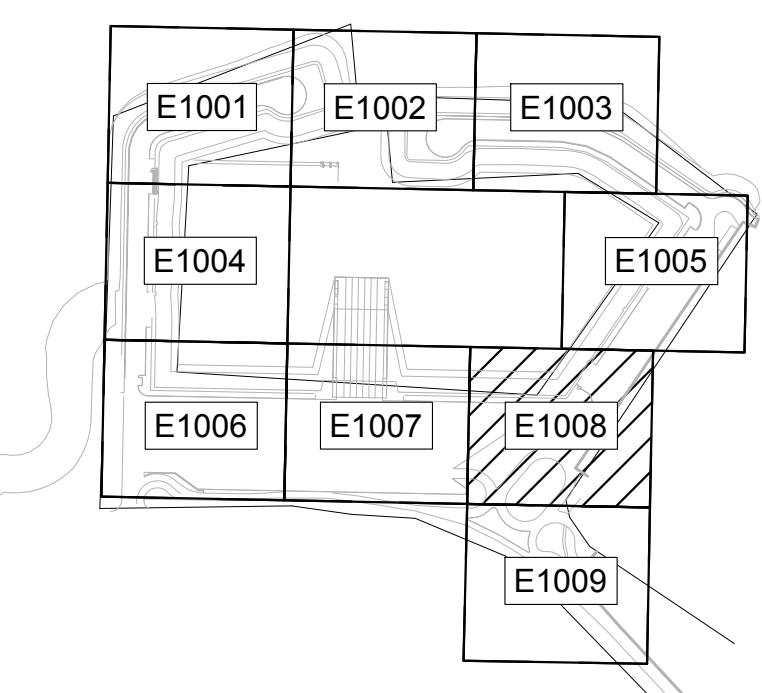
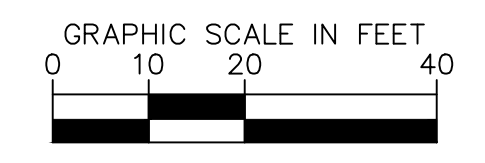
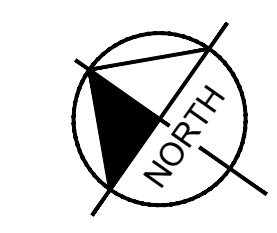
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<b>ELECTRICAL SITE LIGHTING PLAN</b>		<b>Kimley &gt;&gt;&gt; Horn</b>				
BEAR LAKE MARINA EXPANSION DFCM PROJECT #23356510 RICH COUNTY, UT		111 East Broadway, Suite 600   Salt Lake City, UT 84111   Tel. No. (801) 212-3176				
DRAWN BY:	STS	7/29/2024				
DESIGNED BY:	YSH	7/29/2024				
CHECKED BY:		7/29/2024				
PROJECT NO.:	23356510	7/29/2024				
SEAL						
PREPARED UNDER THE DIRECTION SUPERVISION OF CHRIS PRICE, P.E. UTAH REGISTRATION NO. XXXXX FOR AND ON BEHALF OF KIMLEY-HORN AND ASSOCIATES, INC.						
SHEET <b>E1007</b>						

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**ELECTRICAL NOTES**

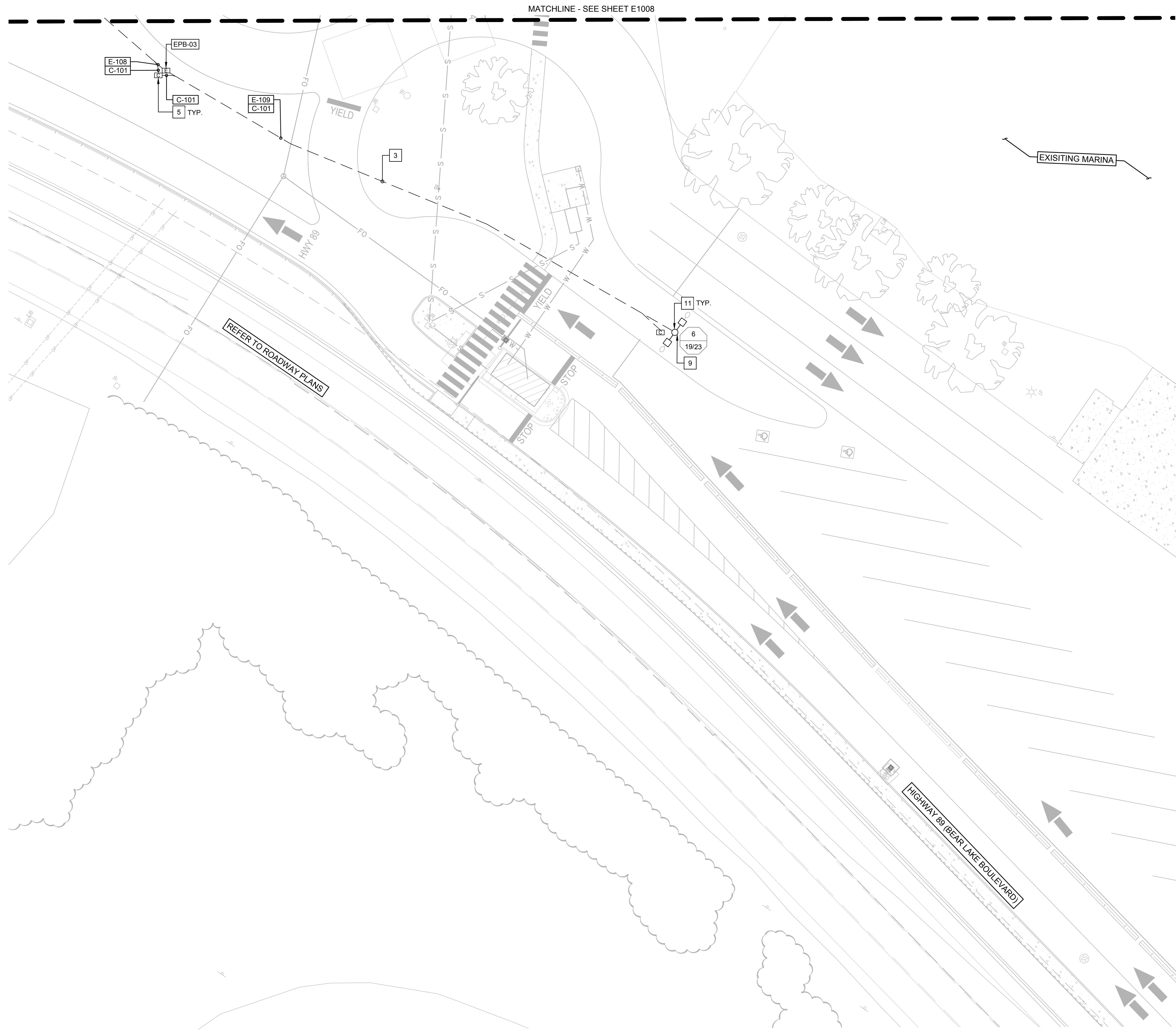
- 3 PROPOSED LOCATION OF ELECTRICAL CONDUIT TRENCH. REFER TO TRENCH DETAIL D ON SHEET E2000 FOR FURTHER INFORMATION.
- 5 PROVIDE PULLBOX PER DETAIL B ON SHEET E2000.
- 6 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-III-M-80LED-700mA-30K-1 SINGLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 8 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-VSQ-W-80LED-700mA-30K-2-180 DOUBLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 11 INSTALL PULLBOX AND CONDUIT BY LIGHT POLE AS SHOWN ON SHEET E2000 DETAIL E AND F.



KEYMAP

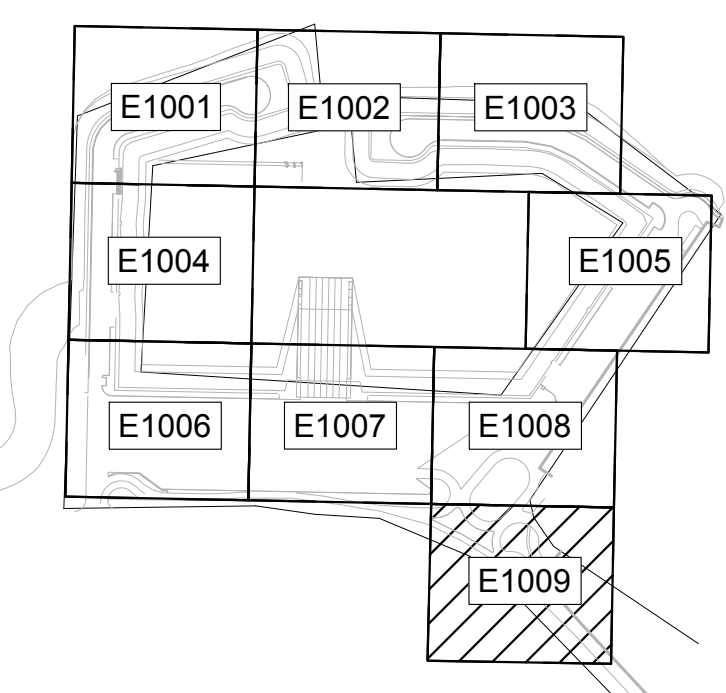
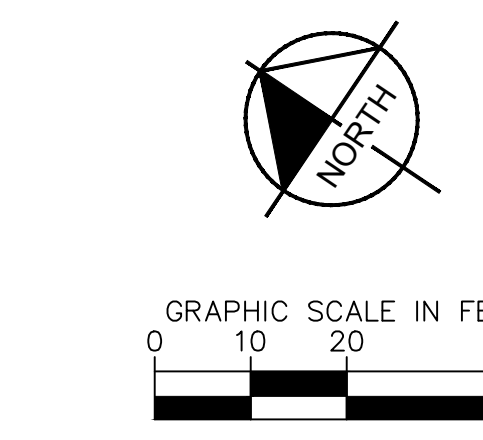
DATE	DESCRIPTION				
▲					
<b>ELECTRICAL SITE LIGHTING PLAN</b>			<b>Kimley &gt;&gt;&gt; Horn</b>		
BEAR LAKE MARINA EXPANSION DFCM PROJECT #23356510 RICH COUNTY, UT			11 East Broadway, Suite 600   Salt Lake City, UT 84111   Tel. No. (801) 212-3176		
DRAWN BY:	STS	7/29/2024			
DESIGNED BY:	YSH	7/29/2024			
CHECKED BY:		7/29/2024			
PROJECT NO.:	23356510	7/29/2024			
SEAL					
<small>PREPARED UNDER THE DIRECTION SUPERVISION OF CHRIS PRICE, P.E. UTAH REGISTRATION NO. XXXXX FOR AND ON BEHALF OF KIMLEY-HORN AND ASSOCIATES, INC.</small>					
SHEET <b>E1008</b>					

Plotted By: Storing, Seth Sheet Set: Kna Layout: E1009 July 25, 2024 06:53:50pm K:\REN\_Mechanical\0939000008\_Bear Lake Marina\Revit-AutoCAD\Sheets\Electrical\Site Plan-2-1.dwg  
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**ELECTRICAL NOTES**

- 3 PROPOSED LOCATION OF ELECTRICAL CONDUIT TRENCH. REFER TO TRENCH DETAIL D ON SHEET E2000 FOR FURTHER INFORMATION.
- 5 PROVIDE PULLBOX PER DETAIL B ON SHEET E2000.
- 9 PROVIDE AND INSTALL NEW PHOTOCELL CONTROLLED POLE-MOUNTED LIGHT FIXTURE MODEL RZR-PLD-III-M-80LED-700mA-30K-2-180 DOUBLE-HEADED FIXTURE AND MOUNT TO NEW POLE AND FOUNDATION PER DETAIL A ON SHEET E2000.
- 11 INSTALL PULLBOX AND CONDUIT BY LIGHT POLE AS SHOWN ON SHEET E2000 DETAIL E AND F.



DATE	DESCRIPTION

**ELECTRICAL SITE LIGHTING PLAN**

**Bear Lake Marina Expansion**  
 DFCM PROJECT #23356510  
 RICH COUNTY, UT

111 East Broadway, Suite 600 | Salt Lake City, UT 84111 | Tel. No. (801) 212-3176

DRAWN BY:	STS	7/29/2024
DESIGNED BY:	YSH	7/29/2024
CHECKED BY:		7/29/2024
PROJECT No.:	23356510	7/29/2024

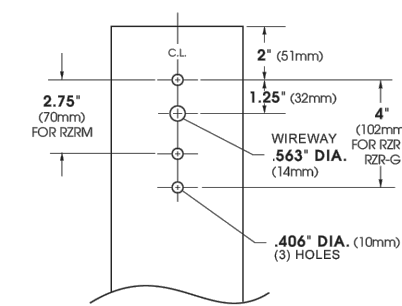
SEAL

PREPARED UNDER THE DIRECTION  
 SUPERVISION OF CHRIS PRICE, P.E.  
 UTAH REGISTRATION NO. XXXXX FOR  
 AND ON BEHALF OF KIMLEY-HORN AND  
 ASSOCIATES, INC.

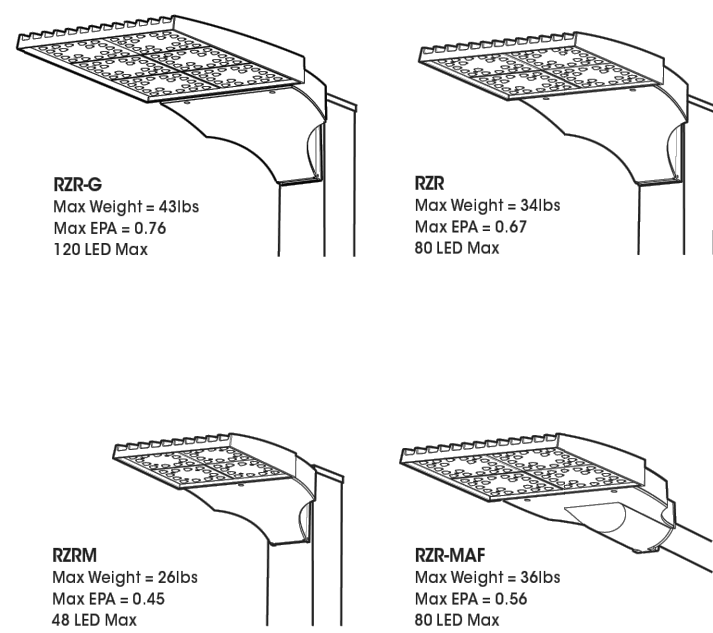
**RZR SERIES - LED**

**SPECIFICATIONS**

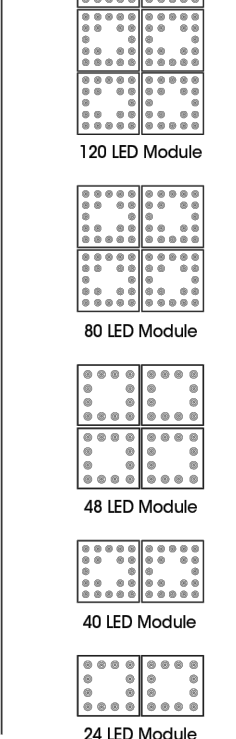
**POLE DRILLING TEMPLATE**



**EPA & WEIGHT**



**PLED® MODULES**



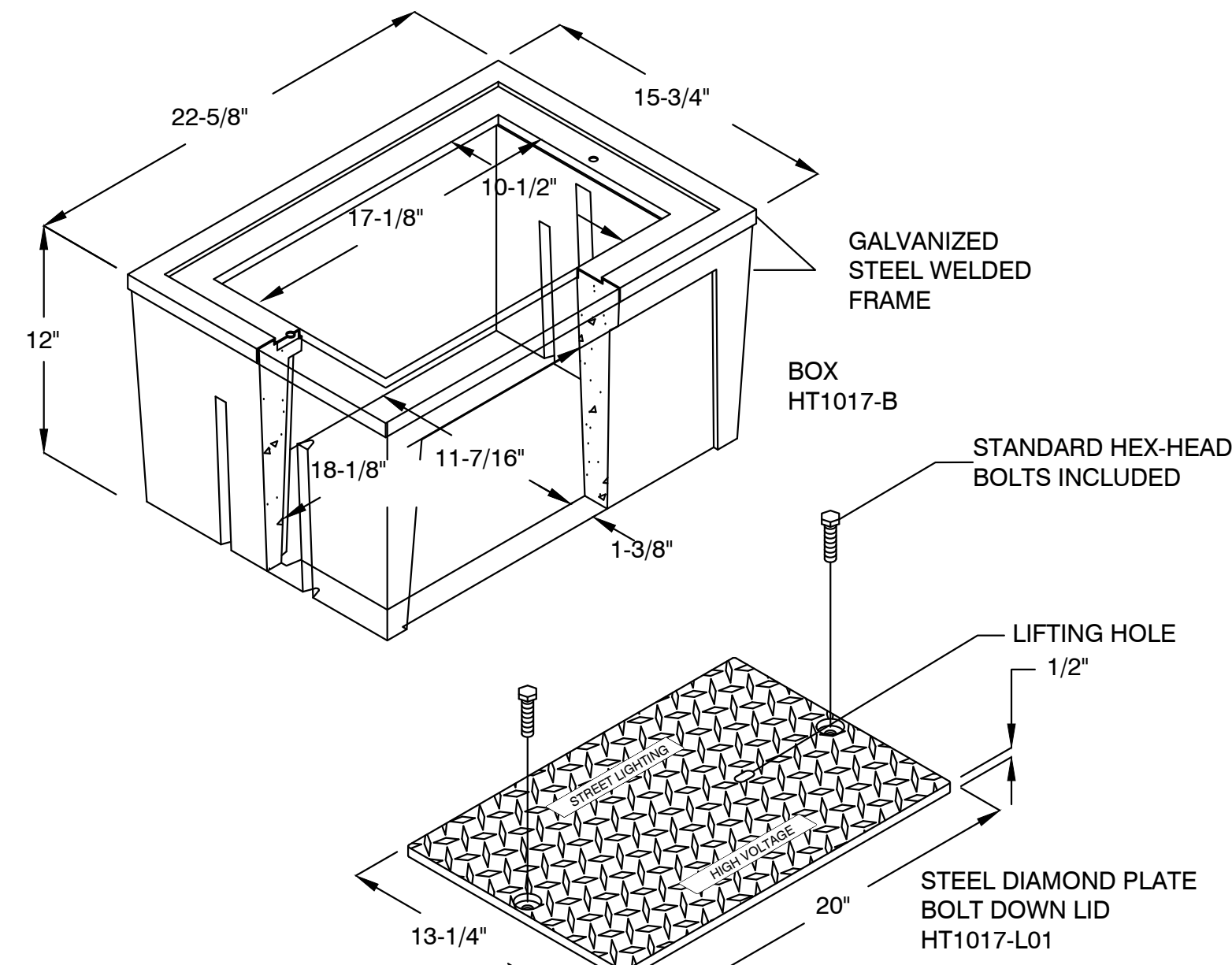
**ORDERING INFORMATION**

Luminaire	Optics	LED Mode	Voltage	Mounting	Finish	Options
RZR-G	PLED <sup>®</sup> Distribution type	120LED	120V	1	Black RAL-9005-T	Internal House Side Shield no LED Cover (Example: HS-PLD)
	Type I PLED-H	80LED	240V	2-180	White RAL-9003-T	External Glass Shield (Example: EG-S)
RZR	Type II Med. Rotor PLED-M	80LED	240V	2-90	Dark Bronze RAL-8019-T	Tilt Lock Receptacle Only (Example: TL-R)
RZR-MAF	Type III Wide PLED-W	40LED	480V	3-120	Green RAL-6005-T	High/Low Dimming for Switch by Other Select (Example: HL-D)
RZR-M	Type IV PLED-V	48LED	240V	4-90	Patina Copper PC	Photo Cell + Voltage (Example: PC-V)

Spec/Order Example: RZR/PLED-IV/80LED-700mA/CW/271/RAL-8019-S

U.S. Pole Company Inc. 400 West Avenue 03, Pomona, CA 92861 (909) 865-1000 www.uspc.com

**A SITE LIGHTING CUTSHEET**  
N.T.S.



**B HT1017-B TRAFFIC RATED PULLBOX**  
N.T.S.

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity	Load (A)	Distance	Voltage	Phase	Isc	Vdrop
1	120 / 208 3ph 4S	13879	13,879	NM	Copper	1 Set of 1		70.1	208	3	13,879	0.56%
2	L1	1	13,879									

CKT 14/16/18

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity	Load (A)	Distance	Voltage	Phase	Isc	Vdrop
1	L1	7957	7,957								7,957	
2			#N/A	NM	Copper	Set of					#DIV/OI	#N/A
3	LGT. POLE 8	1	7,957	NM	Copper	1 Set of 4	6.274038	350	208	1	1,768	0.61%
4	LGT. POLE 9	3	1,768	NM	Copper	1 Set of 4	5.855769	200	208	1	1,224	0.94%
5	LGT. POLE 11	4	1,224	NM	Copper	1 Set of 4	5.019231	353	208	1	793	1.43%
6	LGT. POLE 12	5	793	NM	Copper	1 Set of 4	4.182692	160	208	1	684	1.62%
7	LGT. POLE 14	6	684	NM	Copper	1 Set of 4	3.764423	340	208	1	529	1.98%
8	LGT. POLE 15	7	529	NM	Copper	1 Set of 6	2.927885	240	208	1	423	2.27%
9	LGT. POLE 17	8	423	NM	Copper	1 Set of 6	2.091346	300	208	1	338	2.54%
10	LGT. POLE 18	9	338	NM	Copper	1 Set of 6	1.673077	160	208	1	305	2.65%
11	LGT. POLE 20	10	305	NM	Copper	1 Set of 6	0.836538	520	208	1	232	2.84%

CKT 13/15/17

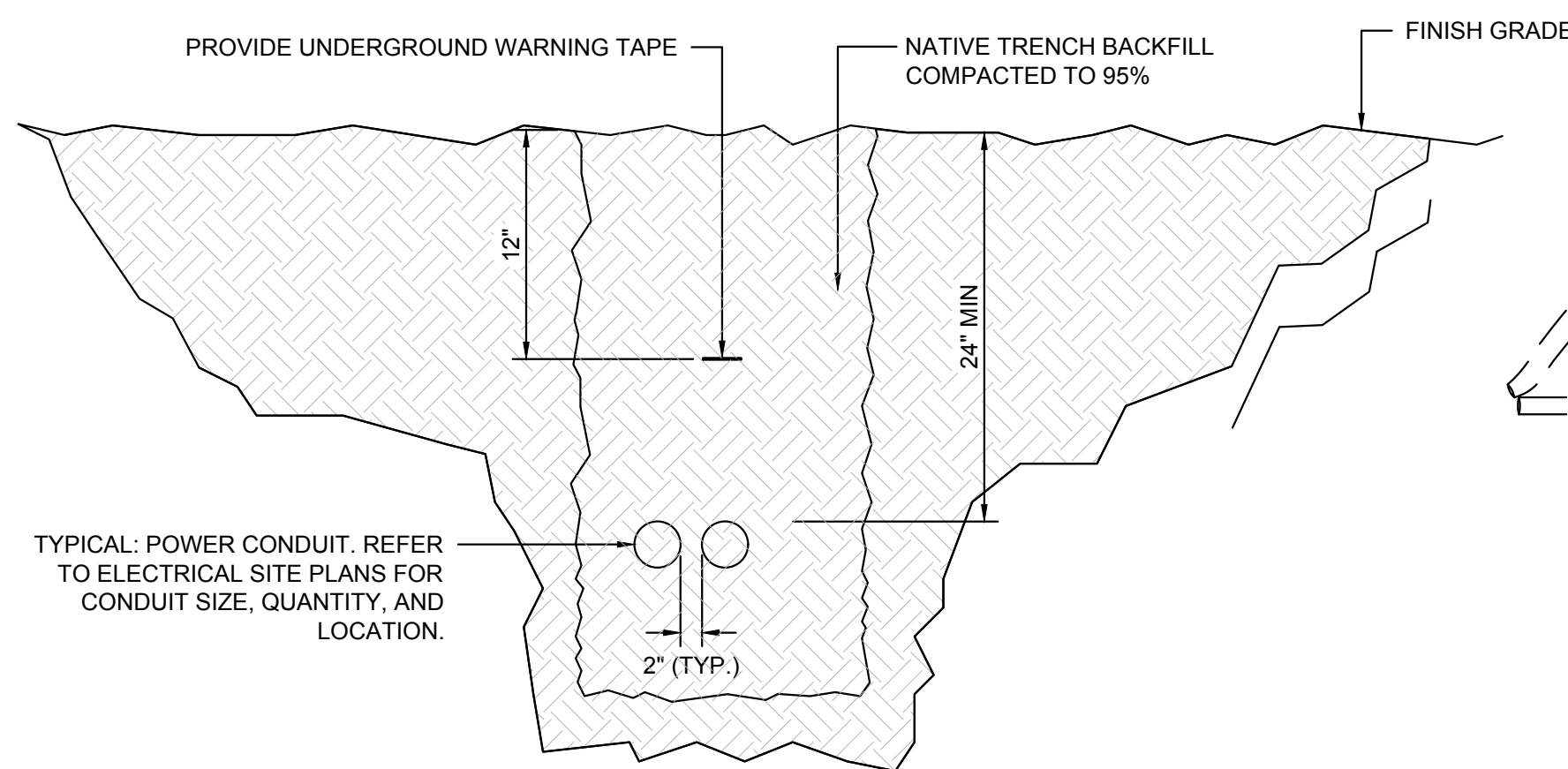
Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity	Load (A)	Distance	Voltage	Phase	Isc	Vdrop
1	L1	7957	7,957								7,957	
2			#N/A	NM	Copper	Set of					#DIV/OI	#N/A
3	LGT. POLE 21	1	7,957	NM	Copper	1 Set of 10	2.509615	176	208	1	1,012	0.47%
4	LGT. POLE 22	3	1,012	NM	Copper	1 Set of 12	2.091346	210	208	1	381	1.19%
5	LGT. POLE 24	4	381	NM	Copper	1 Set of 12	1.254808	574	208	1	141	2.36%
6	LGT. POLE 25	5	141	NM	Copper	1 Set of 12	0.836538	326	208	1	104	2.81%

CKT 19/21/23

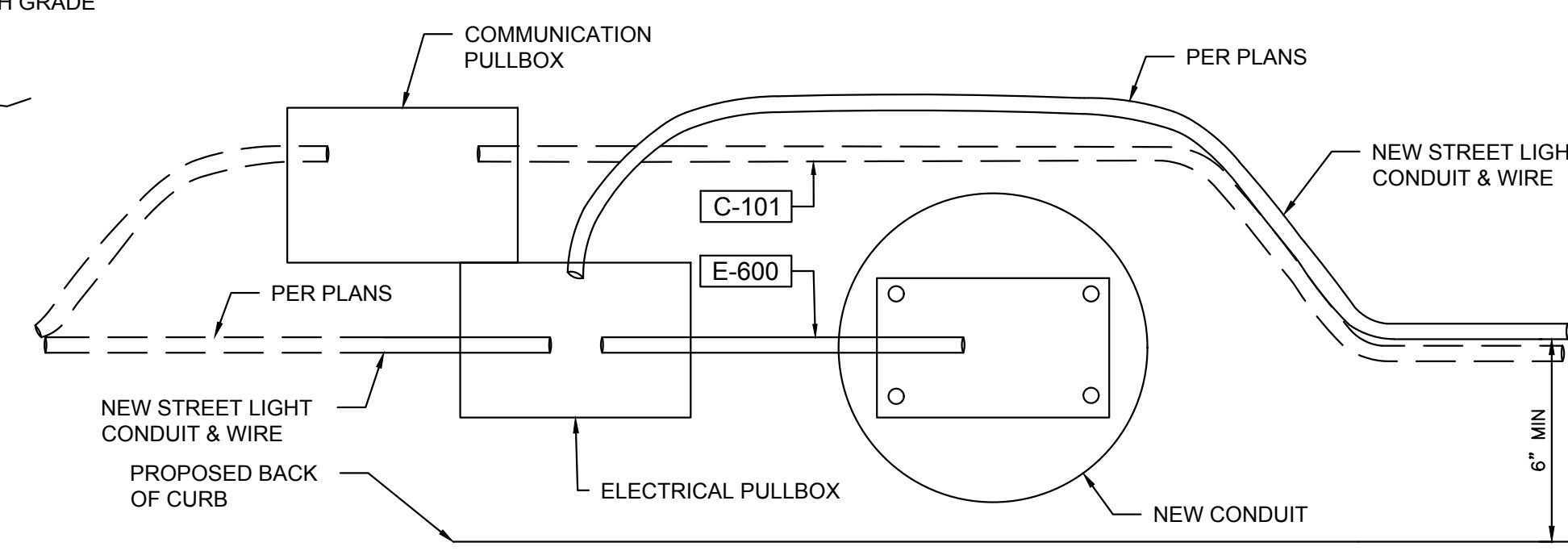
Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity	Load (A)	Distance	Voltage	Phase	Isc	Vdrop
1	L1	7957	7,957								7,957	
2			#N/A	NM	Copper	Set of					#DIV/OI	#N/A
3	LGT. POLE 1	1	7,957	NM	Copper	1 Set of 10	2.091346	110	208	1	1,504	0.24%
4	LGT. POLE 3	3	1,504	NM	Copper	1 Set of 12	1.673077	430	208	1	249	1.42%
5	LGT. POLE 4	4	249	NM	Copper	1 Set of 12	1.254808	260	208	1	166	1.95%
6	LGT. POLE 6	5	166	NM	Copper	1 Set of 12	0.836538	740	208	1	85	2.96%

\*CONDUCTORS FROM THE BASE OF THE POLE TO THE LIGHT SHALL NOT BE LARGER THAN #10 AWG.

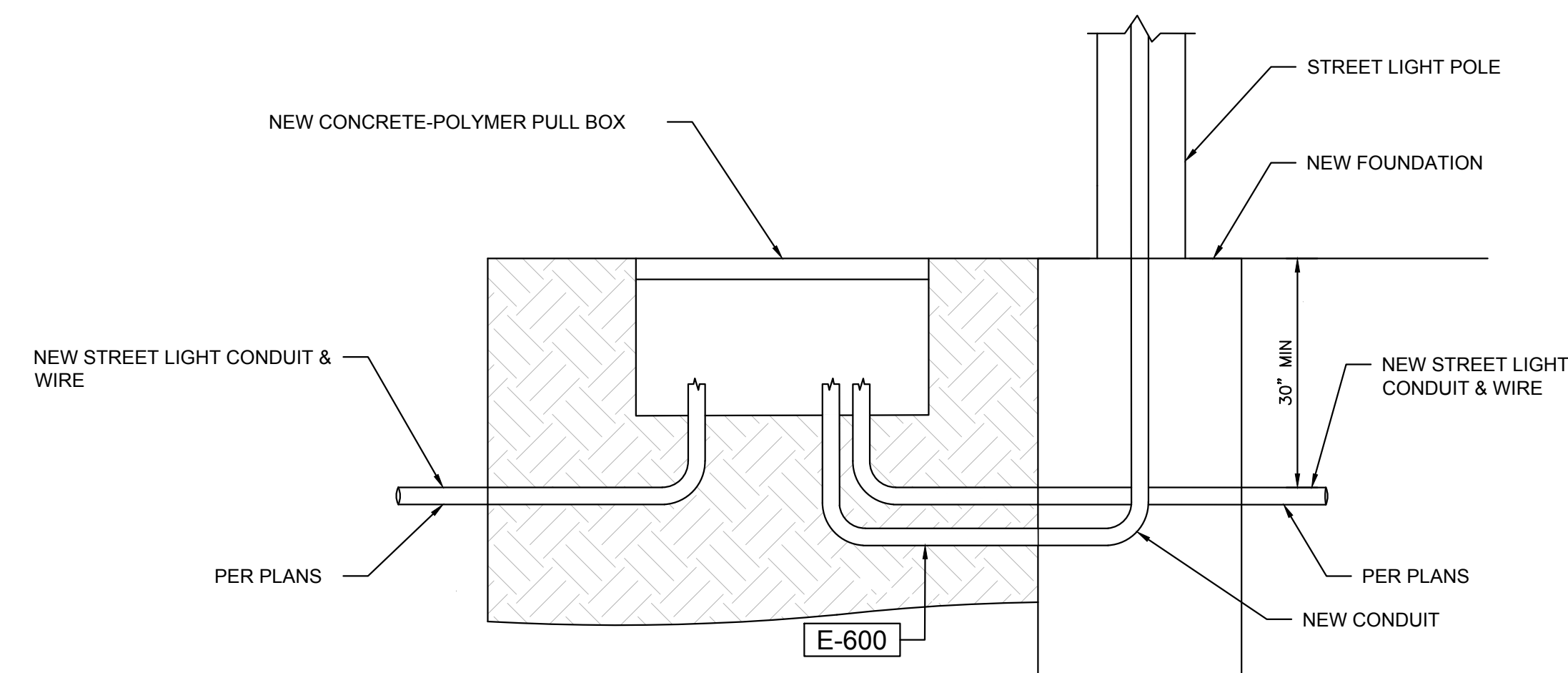
**C VOLTAGE DROP CALCULATION**  
N.T.S.



**D SITE LIGHTING TRENCH DETAIL**  
N.T.S.



**F ELECTRIC & COMMUNICATION PULL BOX DETAIL**  
N.T.S.



**E ELECTRIC PULL BOX & CONDUIT DETAIL - GROUND VIEW**  
N.T.S.

DATE	DESCRIPTION

**Kimley»Horn**  
111 East Broadway, Suite 600 | Salt Lake City, UT 84111 | Tel. No. (801) 212-3776

**ELECTRICAL DETAILS I**  
BEAR LAKE MARINA EXPANSION  
DFCM PROJECT #23356510  
RICH COUNTY, UT

DRAWN BY:	STS	7/29/2024
DESIGNED BY:	YSH	7/29/2024
CHECKED BY:		7/29/2024
PROJECT NO.:	23356510	7/29/2024

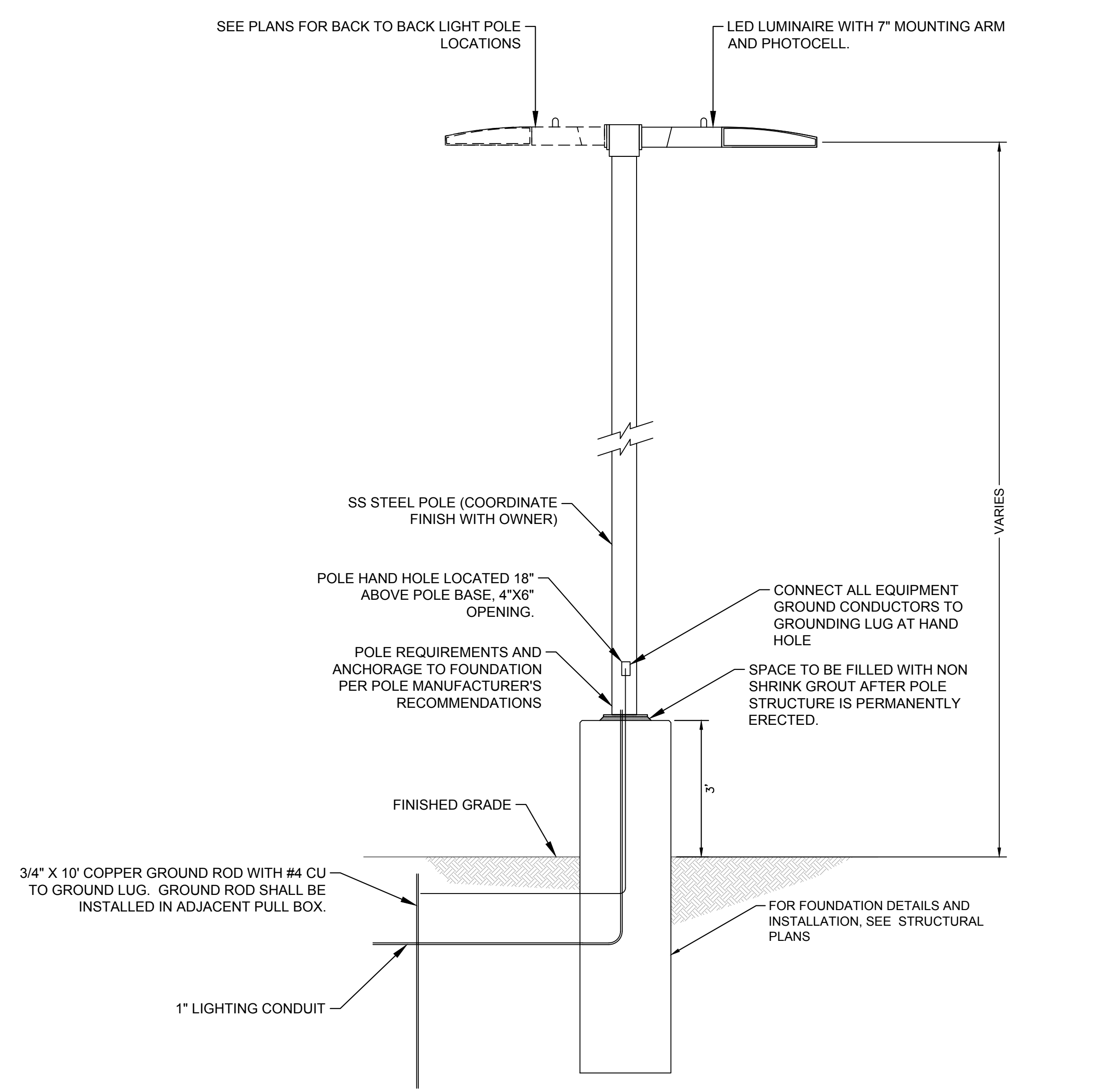
SEAL

PREPARED UNDER THE DIRECTION SUPERVISION OF CHRIS PRICE, P.E. UTAH REGISTRATION NO. XXXXX FOR AND ON BEHALF OF KIMLEY-HORN AND ASSOCIATES, INC.

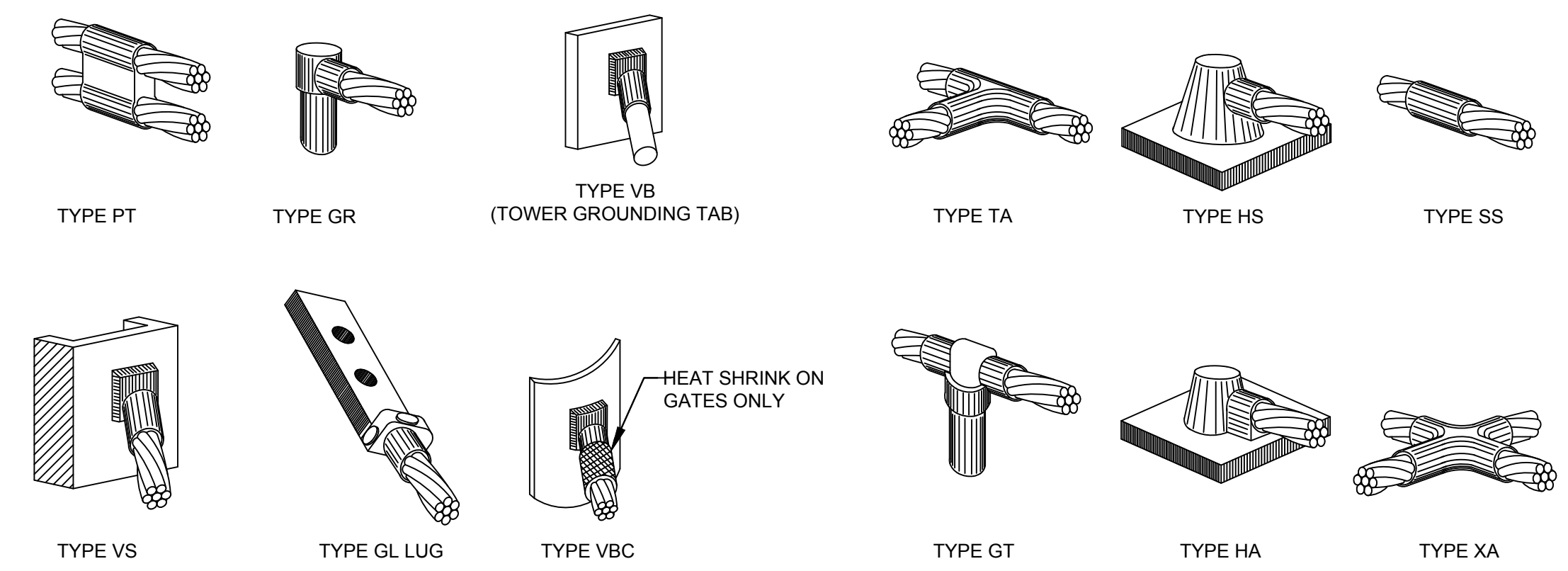
SHEET  
**E2000**

Plotted By: Storing, Seth. Sheet Set: K:\REN\_Mechanical\0938000005\_Bear Lake Marina Revit-AutoCAD\_Sheets\Electrical Details-2-1.dwg  
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Plotted By: Storing, Seth Sheet Set: Kna Layout: Electrical Details II July 25, 2024 06:54:00pm k:\REN-Mechanical\093800005-Bear Lake Marina Revit-AutoCAD Sheets\Electrical Details-2-1.dwg  
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



**A** PARKING LOT LIGHT POLE DETAIL  
N.T.S.



NOTES:  
1. CADWELD "TYPES" SHOWN ABOVE ARE EXAMPLES. PROVIDE APPROPRIATE TYPES AS REQUIRED.

**B** TYPICAL CAD WELDS  
N.T.S.

CONDUIT SCHEDULE						
CONDUIT TAG	CONDUIT TYPE	CONDUIT SIZE	FROM	TO	CONDUCTOR (EACH CONDUIT)	COMMENTS
E-101	RGS/SCHED 40 UG	2"	PANEL 'L-1'	ELECTRICAL PULLBOX (EPB-01)	(3) #8 AWG + (1) #8 GND	SITE POWER DISTRIBUTION (CKT: 13/15/17)
E-101A	RGS/SCHED 40 UG	2"	PANEL 'L-1'	ELECTRICAL PULLBOX (EPB-01)	(3) #4 AWG + (1) #4 GND	SITE POWER DISTRIBUTION (CKT: 14/16/18)
E-101B	RGS/SCHED 40 UG	2"	PANEL 'L-1'	ELECTRICAL PULLBOX (EPB-01)	(3) #8 AWG + (1) #8 GND	SITE POWER DISTRIBUTION (CKT: 19/21/23)
E-101C	SCHED 40 UG	0.75"	PANEL 'L-1'	ELECTRICAL PULLBOX (EPB-01)	(6) #12 AWG + (1) #12 GND	POWER DISTRIBUTION TO AUTOMATIC EXIT GATE POWER (CKT: 25)
E-101D	SCHED 40 UG	0.75"	ELECTRICAL PULLBOX (EPB-01)	ELECTRICAL PULLBOX (EPB-02)	(4) #12 AWG + (1) #12 GND	POWER DISTRIBUTION TO AUTOMATIC EXIT GATE POWER
E-102	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-01)	LIGHT POLE #1 PULLBOX	(3) #10 AWG + (1) #10 GND	SINGLE-HEADED SITE LIGHT (CKT: 19/21)
E-102A	SCHED 40 UG	0.75"	ELECTRICAL PULLBOX (EPB-01)	AUTOMATIC EXIT GATE #1	(2) #12 AWG + (1) #12 GND	AUTOMATIC EXIT GATE POWER (CKT: 25)
E-102B	SCHED 40 UG	0.75"	ELECTRICAL PULLBOX (EPB-02)	AUTOMATIC EXIT GATE #2	(2) #12 AWG + (1) #12 GND	AUTOMATIC EXIT GATE POWER (CKT: 26)
E-102C	SCHED 40 UG	0.75"	ELECTRICAL PULLBOX (EPB-02)	AUTOMATIC EXIT GATE #3	(2) #12 AWG + (1) #12 GND	AUTOMATIC EXIT GATE POWER (CKT: 27)
E-103	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-01)	ELECTRICAL PULLBOX (EPB-02)	(3) #8 AWG + (1) #8 GND	POWER
E-104	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-02)	LIGHT POLE #2 PULLBOX	(3) #10 AWG + (1) #10 GND	SINGLE-HEADED SITE LIGHT (CKT: 21/23)
E-105	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-02)	ELECTRICAL PULLBOX (EPB-05)	(3) #12 AWG + (1) #12 GND	POWER
E-106	SCHED 40 UG	1"	LIGHT POLE #3 PULLBOX	LIGHT POLE #4 PULLBOX	(3) #12 AWG + (1) #12 GND	SINGLE-HEADED SITE LIGHT (CKT: 19/21)
E-107	SCHED 40 UG	1"	LIGHT POLE #4 PULLBOX	LIGHT POLE #5 PULLBOX	(3) #12 AWG + (1) #12 GND	DUAL-HEADED SITE LIGHT (CKT: 21/23)
E-108	SCHED 40 UG	1"	LIGHT POLE #5 PULLBOX	ELECTRICAL PULLBOX (EPB-03)	(3) #12 AWG + (1) #12 GND	POWER
E-109	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-03)	LIGHT POLE #6 PULLBOX	(3) #12 AWG + (1) #12 GND	DUAL-HEADED SITE LIGHT (CKT: 19/23)
E-110	SCHED 40 UG	1.25"	ELECTRICAL PULLBOX (EPB-01)	ELECTRICAL PULLBOX (EPB-04)	(3) #4 AWG + (1) #4 GND	POWER (CKT: 14/16/18)
E-110A	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-01)	ELECTRICAL PULLBOX (EPB-04)	(3) #10 AWG + (1) #10 GND	POWER (CKT: 13/15/17)
E-111	SCHED 40 UG	1.25"	ELECTRICAL PULLBOX (EPB-04)	LIGHT POLE #7 PULLBOX	(3) #4 AWG + (1) #4 GND	SINGLE-HEADED SITE LIGHT (CKT: 14/16)
E-112	SCHED 40 UG	1.25"	LIGHT POLE #7 PULLBOX	LIGHT POLE #8 PULLBOX	(3) #4 AWG + (1) #4 GND	SINGLE-HEADED SITE LIGHT (CKT: 16/18)
E-113	SCHED 40 UG	1.25"	LIGHT POLE #8 PULLBOX	LIGHT POLE #9 PULLBOX	(3) #4 AWG + (1) #4 GND	DUAL-HEADED SITE LIGHT (CKT: 14/18)
E-114	SCHED 40 UG	1.25"	LIGHT POLE #9 PULLBOX	LIGHT POLE #10 PULLBOX	(3) #4 AWG + (1) #4 GND	DUAL-HEADED SITE LIGHT (CKT: 14/16)
E-115	SCHED 40 UG	1"	LIGHT POLE #10 PULLBOX	LIGHT POLE #11 PULLBOX	(3) #8 AWG + (1) #8 GND	DUAL-HEADED SITE LIGHT (CKT: 16/18)
E-116	NOT USED					
E-117	SCHED 40 UG	1.25"	LIGHT POLE #11 PULLBOX	LIGHT POLE #12 PULLBOX	(3) #4 AWG + (1) #4 GND	SINGLE-HEADED SITE LIGHT (CKT: 14/18)
E-118	SCHED 40 UG	1.25"	LIGHT POLE #12 PULLBOX	LIGHT POLE #13 PULLBOX	(3) #4 AWG + (1) #4 GND	SINGLE-HEADED SITE LIGHT (CKT: 14/16)
E-119	SCHED 40 UG	1.25"	LIGHT POLE #13 PULLBOX	LIGHT POLE #14 PULLBOX	(3) #4 AWG + (1) #4 GND	DUAL-HEADED SITE LIGHT (CKT: 16/18)
E-119A	SCHED 40 UG	1"	LIGHT POLE #14 PULLBOX	ELECTRICAL PULLBOX (EPB-06)	(3) #6 AWG + (1) #6 GND	POWER
E-120	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-06)	LIGHT POLE #15 PULLBOX	(3) #6 AWG + (1) #6 GND	DUAL-HEADED SITE LIGHT (CKT: 14/18)
E-121	SCHED 40 UG	1"	LIGHT POLE #15 PULLBOX	LIGHT POLE #16 PULLBOX	(3) #6 AWG + (1) #6 GND	SINGLE-HEADED SITE LIGHT (CKT: 14/16)
E-122	SCHED 40 UG	1"	LIGHT POLE #16 PULLBOX	LIGHT POLE #17 PULLBOX	(3) #6 AWG + (1) #6 GND	SINGLE-HEADED SITE LIGHT (CKT: 16/18)
E-123	SCHED 40 UG	1"	LIGHT POLE #17 PULLBOX	LIGHT POLE #18 PULLBOX	(3) #6 AWG + (1) #6 GND	DUAL-HEADED SITE LIGHT (CKT: 14/18)
E-124	SCHED 40 UG	1"	LIGHT POLE #18 PULLBOX	ELECTRICAL PULLBOX (EPB-09)	(3) #6 AWG + (1) #6 GND	POWER
E-125	SCHED 40 UG	1"	LIGHT POLE #19 PULLBOX	ELECTRICAL PULLBOX (EPB-10)	(3) #6 AWG + (1) #6 GND	POWER
E-126	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-04)	LIGHT POLE #21 PULLBOX	(3) #10 AWG + (1) #10 GND	SINGLE-HEADED SITE LIGHT (CKT: 13/15)
E-127	SCHED 40 UG	1"	LIGHT POLE #21 PULLBOX	LIGHT POLE #22 PULLBOX	(3) #10 AWG + (1) #10 GND	DUAL-HEADED SITE LIGHT (CKT: 15/17)
E-128	SCHED 40 UG	1"	LIGHT POLE #22 PULLBOX	LIGHT POLE #23 PULLBOX	(3) #10 AWG + (1) #10 GND	DUAL-HEADED SITE LIGHT (CKT: 13/17)
E-129	SCHED 40 UG	1"	LIGHT POLE #23 PULLBOX	ELECTRICAL PULLBOX (EPB-07)	(3) #12 AWG + (1) #12 GND	POWER
E-130	SCHED 40 UG	1"	LIGHT POLE #24 PULLBOX	ELECTRICAL PULLBOX (EPB-08)	(3) #12 AWG + (1) #12 GND	POWER
E-131	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-07)	LIGHT POLE #24 PULLBOX	(3) #12 AWG + (1) #12 GND	SINGLE-HEADED SITE LIGHT (CKT: 13/15)
E-132	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-08)	LIGHT POLE #25 PULLBOX	(3) #12 AWG + (1) #12 GND	DUAL-HEADED SITE LIGHT (CKT: 15/17)
E-133	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-09)	LIGHT POLE #19 PULLBOX	(3) #6 AWG + (1) #6 GND	SINGLE-HEADED SITE LIGHT (CKT: 14/16)
E-134	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-10)	LIGHT POLE #20 PULLBOX	(3) #6 AWG + (1) #6 GND	DUAL-HEADED SITE LIGHT (CKT: 16/18)
E-135	SCHED 40 UG	1"	ELECTRICAL PULLBOX (EPB-05)	LIGHT POLE #3 PULLBOX	(3) #12 AWG + (1) #12 GND	SINGLE-HEADED SITE LIGHT (CKT: 19/23)
E-600	SCHED 40 UG	1"	ELECTRICAL PULLBOX	LIGHT POLE	(2) #12 AWG + (1) #12 GND	TYPICAL OF ALL PARKING LIGHT POLES

CONDUIT TAG	CONDUIT TYPE	CONDUIT SIZE	FROM	TO	CONDUCTOR (EACH CONDUIT)	COMMENTS
C-100	RGS/SCHED 40 AG	1.5"	JUNCTION BOX	COMMUNICATION PULLBOX	MULE TAPE	MULE TAPE
C-101	SCHED 40 UG	1.5"	COMMUNICATION PULLBOX	COMMUNICATION PULLBOX	MULE TAPE	MULE TAPE

**C** CONDUIT AND CONDUCTOR SCHEDULE  
N.T.S.

DATE	DESCRIPTION

**ELECTRICAL DETAILS II**

BEAR LAKE MARINA EXPANSION  
DFCM PROJECT #23356510  
RICH COUNTY, UT

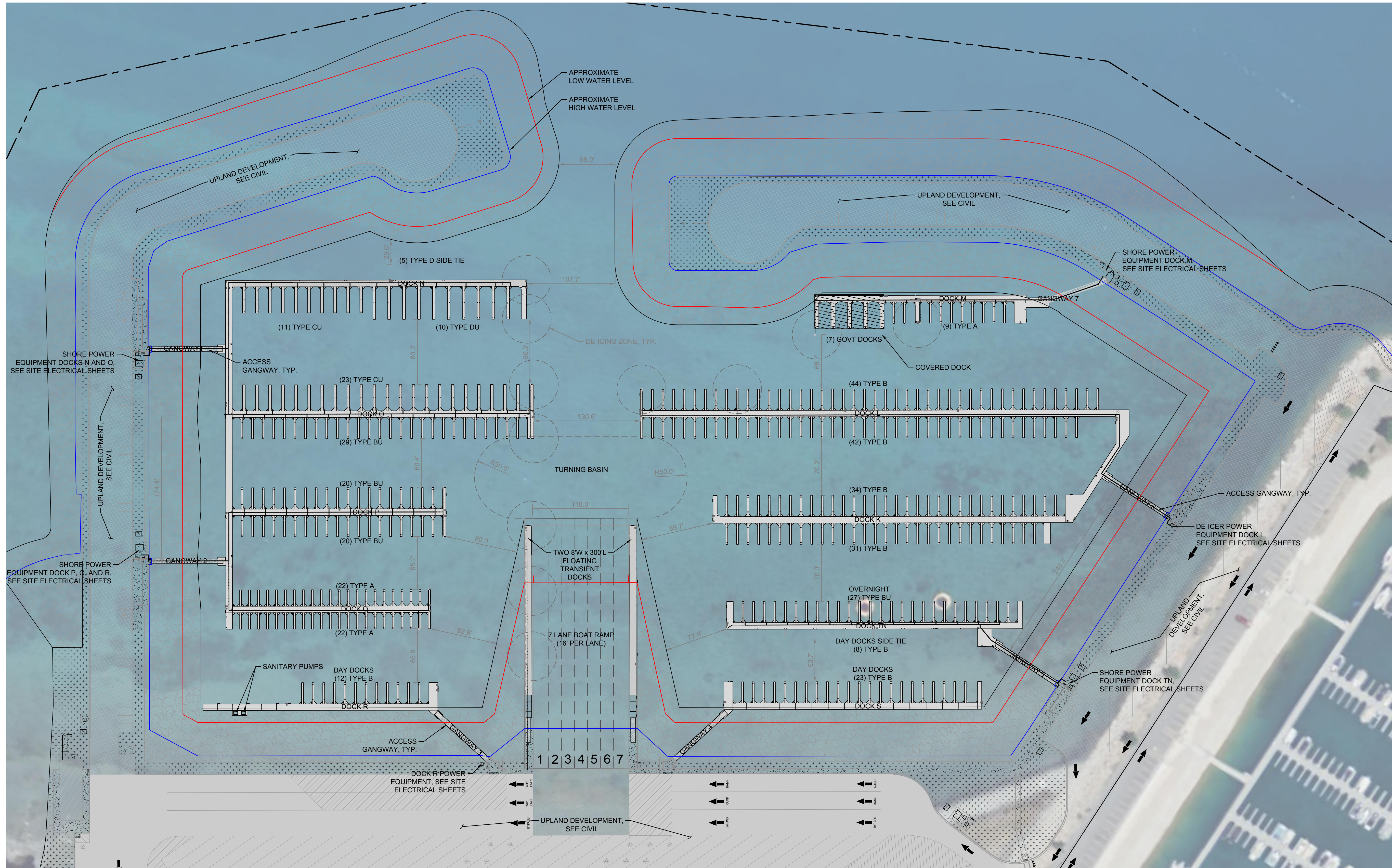
DRAWN BY: STS	7/29/2024
DESIGNED BY: YSH	7/29/2024
CHECKED BY: YSH	7/29/2024
PROJECT NO.: 23356510	7/29/2024

SEAL

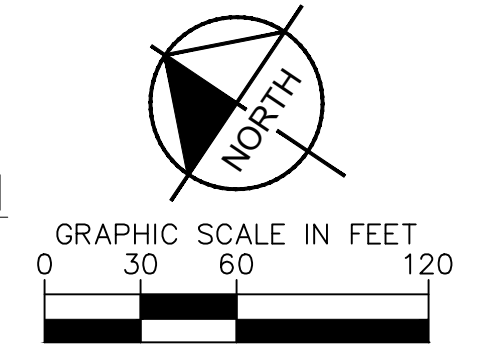
PREPARED UNDER THE DIRECTION  
SUPERVISION OF CHRIS PRICE, P.E.  
UTAH REGISTRATION NO. XXXXX FOR  
AND ON BEHALF OF KIMLEY-HORN AND  
ASSOCIATES, INC.

Date: 7/26/2024 12:09 PM  
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**A** MARINA - OVERALL ELECTRICAL PLAN  
 M6100 SCALE: 1" = 60'-0"



DATE	DESCRIPTION

**Kimley»Horn**  
 111 East Broadway, Suite 600 Salt Lake City, UT 84111 | Tel. No. (385) 242-3178

**MARINA**  
**OVERALL ELECTRICAL PLAN**  
**BEAR LAKE MARINA EXPANSION**  
 DFCM PROJECT #23356510  
 GARDEN CITY, UT

DRAWN BY:	AG	7/26/2024
DESIGNED BY:	AG	7/26/2024
CHECKED BY:	CL	7/26/2024
PROJECT No.:	23356510	7/26/2024

SEAL

###

PREPARED UNDER THE DIRECTION  
 SUPERVISION OF J. CASEY LONG, P.E.  
 UTAH REGISTRATION NO.  
 13378404-2202 FOR AND ON BEHALF OF  
 KIMLEY-HORN AND ASSOCIATES, INC.

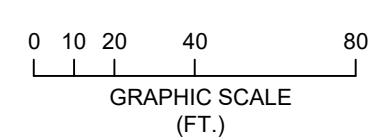
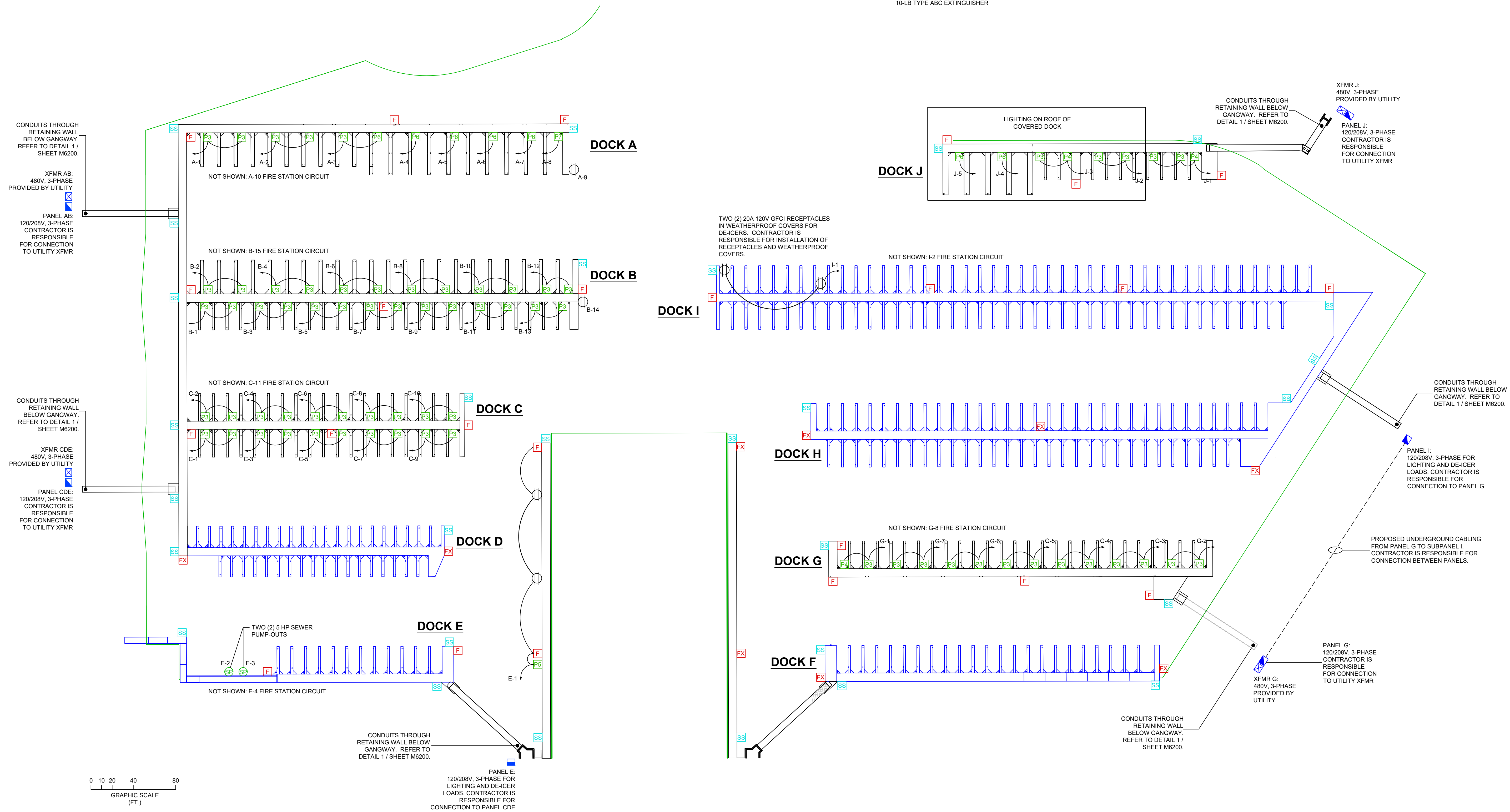
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**LEGEND**

- P3 HARBOR LIGHT  
SIDE 1: 30A 125V - 20A 125V GFCI, 3/4" WATER  
SIDE 2: 30A 125V - 20A 125V GFCI, 3/4" WATER
- P4 HARBOR LIGHT  
SIDE 1: 30A 125V - 20A 125V GFCI, 3/4" WATER  
SIDE 2: BLANK
- P5 MARINA MATE SS  
SIDE 1: 20A 125V GFCI  
SIDE 2: EXTRA BREAKER FOR DE-ICING GEAR
- P6 HARBOR LIGHT  
SIDE 1: 30A 125V - 20A 125V GFCI - 50A 125/250V, 3/4" WATER  
SIDE 2: 30A 125V - 20A 125V GFCI - 50A 125/250V, 3/4" WATER
- P7 HARBOR LIGHT  
SIDE 1: 30A 125V - 20A 125V GFCI - 50A 125/250V, 3/4" WATER  
SIDE 2: BLANK
- F FIRE STATION  
24" LIFE RING  
10-LB TYPE ABC EXTINGUISHER
- FX FIRE STATION - CABINET ONLY / NO ELECTRICAL  
24" LIFE RING  
10-LB TYPE ABC EXTINGUISHER
- PB PANELBOARD
- D DISCONNECT (ECB OR FUSIBLE)
- UT UTILITY TRANSFORMER
- SS SAFETY SIGNAGE PER NEC 555.25 & 110.21(B)(1). SHALL COMPLY WITH ANSI Z535.4-2011 PRODUCT SAFETY SIGNS AND LABELS. LOCATE AND MOUNT PER PROJECT MANAGER AND / OR DOCKMASTER PERSONNEL. REFER TO DETAIL 2 / SHEET E-2.

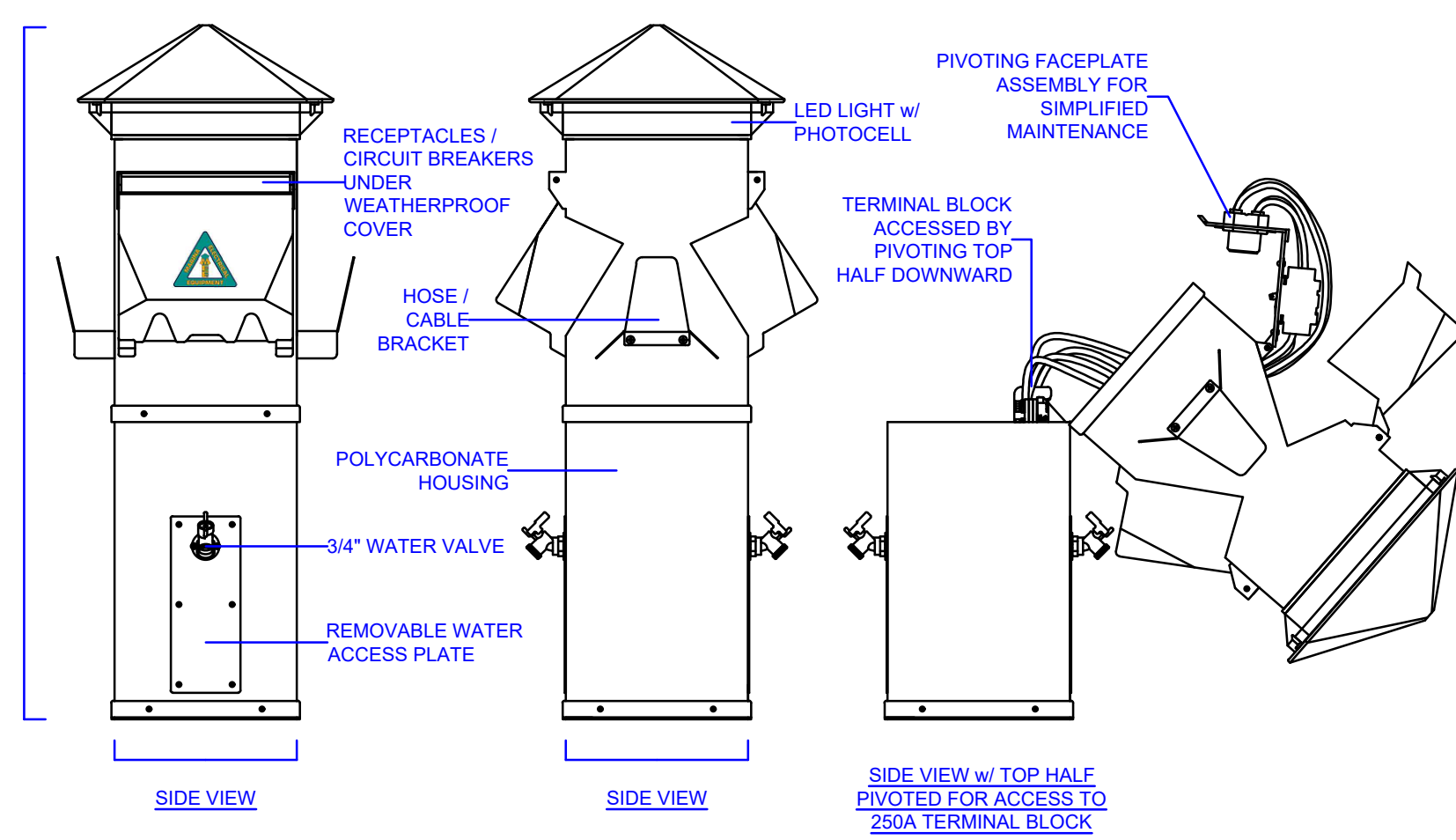


**ALL PANELS AND EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE. VERIFY WITH PROJECT MANAGER AND ENGINEER OF RECORD REGARDING FINAL LOCATION PRIOR TO INSTALLATION.**

DATE		DESCRIPTION					
<b>Marina Electrical Equipment, Inc.</b> 1715 Merimac Trail - Williamsburg, VA 23185 (855) 258-3939 - www.marinae.com							
<b>MARINA ELECTRICAL SITE PLAN</b> <b>BEAR LAKE MARINA EXPANSION</b> DFCM PROJECT #23356510 GARDEN CITY, UT							
DRAWN BY:	AG	7/12/2024					
DESIGNED BY:	AG	7/12/2024					
CHECKED BY:	CL	7/12/2024					
PROJECT No.:	23356510	7/12/2024					
SEAL							
####							
PREPARED UNDER THE DIRECTION AND SUPERVISION OF J. CASEY LONG, P.E. REGISTRATION NO. 13378404-2202 FOR AND ON BEHALF OF KIMLEY-HORN AND ASSOCIATES, INC.							
SHEET							
<b>M6101</b>							

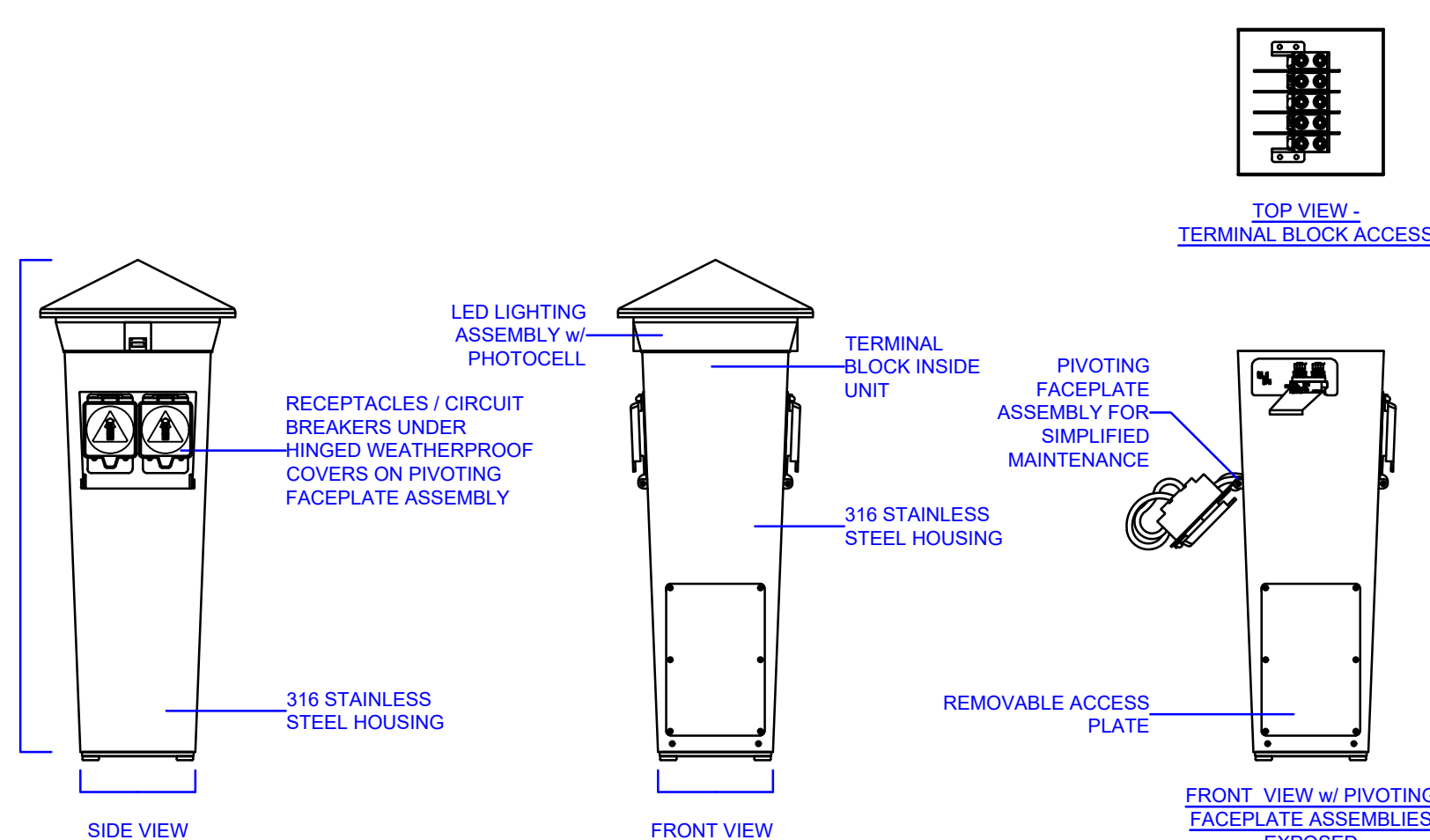
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BY MARINA ELECTRICAL EQUIPMENT (# HL30100)  
OR APPROVED EQUAL

P3 P4 P6 P7



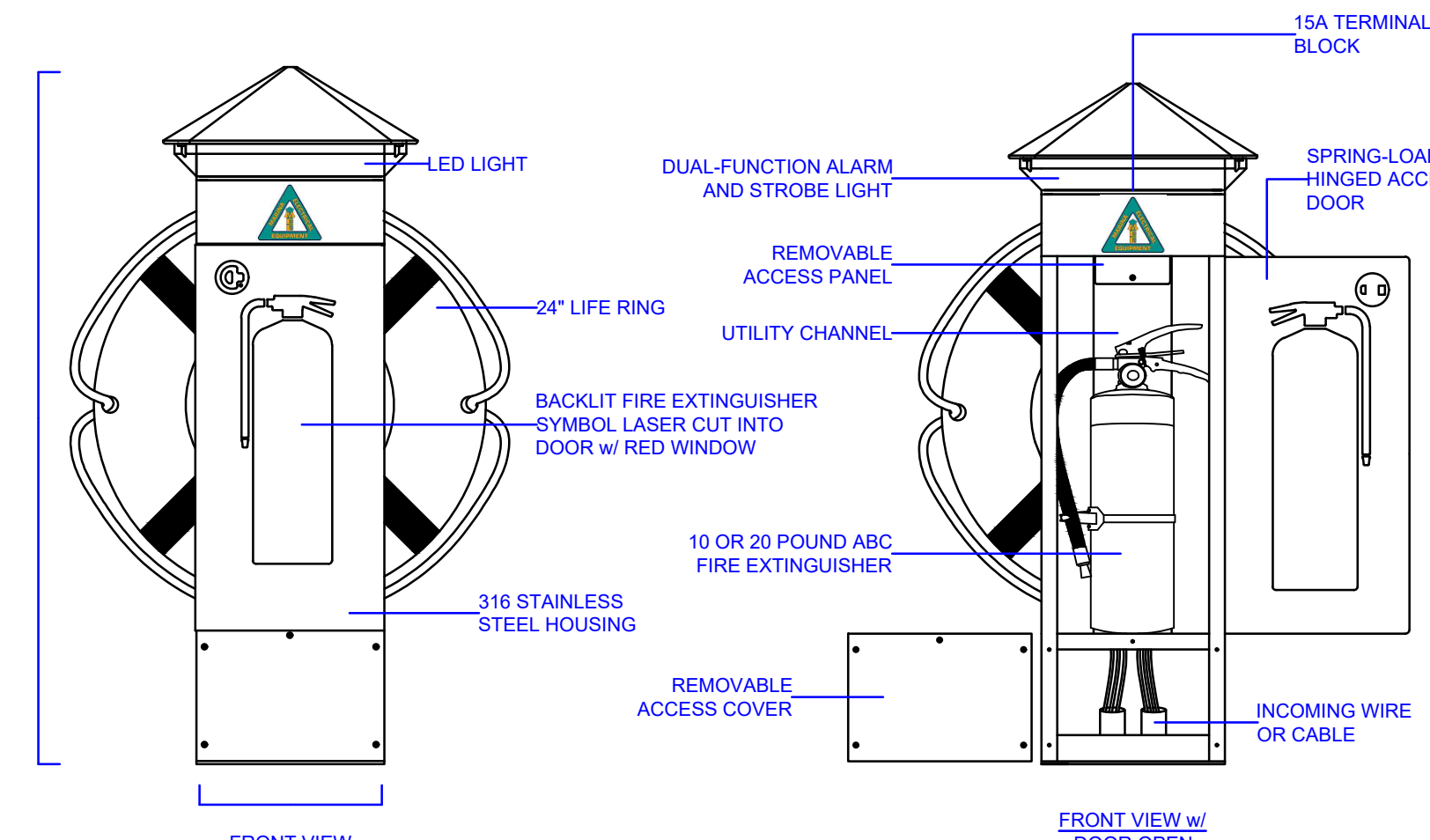
PROPOSED POWER PEDESTAL - MARINA MATE SS  
BY MARINA ELECTRICAL EQUIPMENT (# MMSS2050)  
OR APPROVED EQUAL

P5



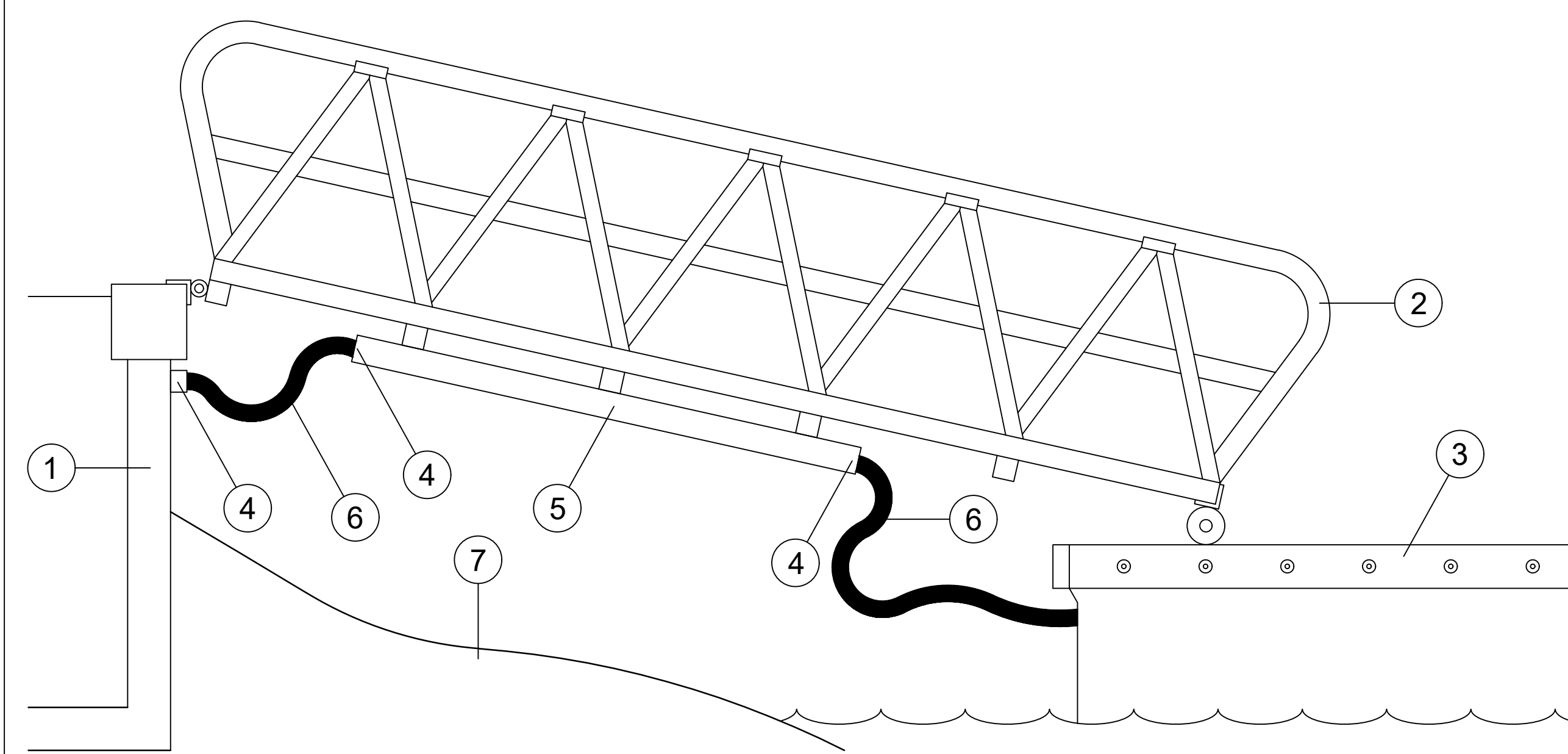
PROPOSED POWER PEDESTAL - FIRE STATION  
BY MARINA ELECTRICAL EQUIPMENT (# FS1020)  
OR APPROVED EQUAL

F FX



DETAIL: 1  
SHEET: M6200

TYPICAL GANGWAY ELECTRICAL FLEX CONNECTION



NOT TO SCALE

- ① RETAINING WALL
- ② GANGWAY
- ③ FLOATING DOCK
- ④ PVC END BELL FITTING
- ⑤ SCHEDULE 40 PVC SLEEVE ATTACHED TO UNDERSIDE OF GANGWAY
- ⑥ MULTI-CONDUCTOR TYPE "G" OR SINGLE-CONDUCTOR TYPE "W" CABLE - REFER TO PANEL SCHEDULES. PROVIDE SLACK AT TOP AND BOTTOM OF GANGWAY FOR HIGH AND LOW TIDES.
- ⑦ SLOPED BANK

DETAIL: 2  
SHEET: M6200

SAFETY SIGNAGE



SAFETY SIGNAGE SHALL BE INSTALLED PER 555.10 "SIGNAGE" OF THE 2020 NATIONAL ELECTRICAL CODE.

CONTRACTOR SHALL SUBMIT POST AND MOUNTING METHOD FOR REVIEW AND APPROVAL.

Date: 7/12/2024 1:35 PM User: CHRISO  
Path: C:\USERS\CHRISO\DESKTOP\BEAR LAKE - K-H BORDER 7.12.24 CHECK SET DWG  
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DATE	DESCRIPTION

Marina Electrical Equipment, Inc.  
1715 Merrimac Trail - Williamsburg, VA 23185  
(855) 258-3939 - www.marinaee.com

**Kimley-Horn**  
111 East Broadway, Suite 600 | Salt Lake City, UT 84111 | Tel. No. (801) 474-1116

MARINA ELECTRICAL DETAILS  
BEAR LAKE MARINA EXPANSION  
DFCM PROJECT #23356510  
GARDEN CITY, UT

DRAWN BY:	AG	7/12/2024
DESIGNED BY:	AG	7/12/2024
CHECKED BY:	CL	7/12/2024
PROJECT No.:	23356510	7/12/2024

SEAL

PREPARED UNDER THE DIRECTION  
SUPERVISION OF J. CASEY LONG, P.E.  
REGISTRATION NO.  
13378404-2202 FOR AND ON BEHALF OF  
KIMLEY-HORN AND ASSOCIATES, INC.

SHEET  
**M6200**



Panel:		AB		Receptacles										Cable														
Circuit ID	Phase	Phase Adj	Voltage	20A GFCI, 125V	30A, 125V	50A, 125/250V	100A 1Ø, 125/250V	100A 3Ø, 120/208Y	Total Line Current	Total Line kW	Total Rec.	Demand Factors		Power Factor	Dem. Current	Dem. kW	CB Size	CB Poles	Cable Type	Circuit Length	Resist.	Size	Qty. Cond.	EGC	GEC	Phase Adj.	VD	VD%
												Rec.	Meter															
A -1	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	275	0.1900	#2	3	Incl.	-	2	5.64	2.71%
A -2	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	340	0.1500	#1	3	Incl.	-	2	5.51	2.65%
A -3	1	2	120 / 208		2	2			130.00	15.60	4	100%	90%	1	117.00	28.08	125	2	G-GC	400	0.0620	#4/0	3	Incl.	-	2	5.80	2.79%
A -4	1	2	120 / 208			2			100.00	12.00	2	100%	90%	1	90.00	21.60	100	2	G-GC	435	0.0770	#3/0	3	Incl.	-	2	6.03	2.90%
A -5	1	2	120 / 208			2			100.00	12.00	2	100%	90%	1	90.00	21.60	100	2	G-GC	475	0.0620	#4/0	3	Incl.	-	2	5.30	2.55%
A -6	1	2	120 / 208			2			100.00	12.00	2	100%	90%	1	90.00	21.60	100	2	G-GC	510	0.0620	#4/0	3	Incl.	-	2	5.69	2.74%
A -7	1	2	120 / 208			2			100.00	12.00	2	100%	90%	1	90.00	21.60	100	2	G-GC	545	0.0620	#4/0	3	Incl.	-	2	6.08	2.92%
A -8	1	2	120 / 208			1			50.00	6.00	1	100%	90%	1	45.00	10.80	50	2	G-GC	575	0.1200	#1/0	3	Incl.	-	2	6.21	2.99%
B -1	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	270	0.1900	#2	3	Incl.	-	2	5.54	2.66%
B -2	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	270	0.1900	#2	3	Incl.	-	2	5.54	2.66%
B -3	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	320	0.1500	#1	3	Incl.	-	2	5.18	2.49%
B -4	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	335	0.1500	#1	3	Incl.	-	2	5.43	2.61%
B -5	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	375	0.1500	#1	3	Incl.	-	2	6.08	2.92%
B -6	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	400	0.1200	#1/0	3	Incl.	-	2	5.18	2.49%
B -7	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	425	0.1200	#1/0	3	Incl.	-	2	5.51	2.65%
B -8	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	460	0.1200	#1/0	3	Incl.	-	2	5.96	2.87%
B -9	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	475	0.1200	#1/0	3	Incl.	-	2	6.16	2.96%
B -10	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	525	0.1000	#2/0	3	Incl.	-	2	5.67	2.73%
B -11	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	530	0.1000	#2/0	3	Incl.	-	2	5.72	2.75%
B -12	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	580	0.0770	#3/0	3	Incl.	-	2	4.82	2.32%
B -13	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	580	0.0770	#3/0	3	Incl.	-	2	4.82	2.32%
A -9	1	1	120 / 120	1				1.50	0.18	1	100%	100%	1	1.50	0.18	20	1	SOOW	625	1.2000	#10	3	Incl.	-	2	2.25	1.88%	
A -10	1	1	120 / 120				Fire Station Circuit Dock A	0.33	0.04	0	100%	100%	1	0.33	0.04	20	1	SOOW	575	2.0000	#12	3	Incl.	-	2	0.75	0.62%	
B -14	1	1	120 / 120	1				1.50	0.18	1	100%	100%	1	1.50	0.18	20	1	SOOW	600	1.2000	#10	3	Incl.	-	2	2.16	1.80%	
B -15	1	1	120 / 120				Fire Station Circuit Dock B	0.33	0.04	0	100%	100%	1	0.33	0.04	20	1	SOOW	590	2.0000	#12	3	Incl.	-	2	0.77	0.64%	
Panel	3	3	120 / 208	0	62	11	0	0	SEE PANEL SCHEDULE BELOW										THWN	10	0.0385	Two (2) #3/0	4	(2) #2	#2	1.732	0.18	0.09%
Feeder	3	3	480	0	62	11	0	0	SEE DISCONNECT SCHEDULE BELOW										UTILITY LOCATION NOT KNOWN									

TOTAL PHASE BALANCE							
		AØ kW		BØ kW		CØ kW	
		117.78		114.08		123.78	
Total Connected kW:	355.64	Demand kW:	96.02	SPD Protection (kA/Phase):	130 kA		
Total Receptacles:	73	Demand Current:	266.53	GFM Trip Setting (mA):	100 mA		
Demand Factors:	Rec: 30%	Demand kVA:	96.02	GFM Branch/Main Protection:	Main		
	Meter: 90%	MCB SIZE:	400	Enclosure Type:	NEMA 3R/X, Stainless Steel		
	PF: 1.000	Poles:	3				

**ALL CIRCUIT BREAKERS FEEDING POWER PEDESTALS SHALL INCLUDE A SHUNT TRIP MECHANISM TIED TO A 100mA GROUND-FAULT MONITOR.**

DATE DESCRIPTION

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1715 Merrimac Trail - Williamsburg, VA 23185  
(855) 258-3939 - www.marinease.com



**Kimley >>> Horn**  
111 East Broadway, Suite 600 | Salt Lake City, UT 84111 | Tel. No. 801.424.1116

MARINA  
PANEL SCHEDULES  
DOCKS A & B

BEAR LAKE MARINA EXPANSION  
DFCM PROJECT #23356510  
GARDEN CITY, UT

DRAWN BY: AG 7/12/2024  
DESIGNED BY: AG 7/12/2024  
CHECKED BY: CL 7/12/2024  
PROJECT No.: 23356510

SEAL  
####

PREPARED UNDER THE DIRECTION  
SUPERVISION OF J. CASEY LONG, P.E.  
REGISTRATION NO.  
13378404-2202 FOR AND ON BEHALF OF  
KIMLEY-HORN AND ASSOCIATES, INC.

SHEET  
**M6201**

Date: 7/12/2024 1:32 PM User: CHRISO  
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Panel: CDE																												
Circuit ID	Phase	Phase Adj	Voltage	Receptacles					Total Line Current	Total Line kW	Total Rec.	Demand Factors			Power Factor	Dem. Current	Dem. kW	CB Size	CB Poles	Cable								
				20A GFCI, 125V	30A, 125V	50A, 125/250V	100A 1Ø, 125/250V	100A 3Ø, 120/208Y				Rec.	Meter	Power Factor						Dem. Current	Dem. kW	CB Size	CB Poles	Cable Type	Circuit Length	Resist.	Size	Qty. Cond.
C -1	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	290	0.1900	#2	3	Incl.	-	2	5.95	2.86%
C -2	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	280	0.1900	#2	3	Incl.	-	2	5.75	2.76%
C -3	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	345	0.1500	#1	3	Incl.	-	2	5.59	2.69%
C -4	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	335	0.1500	#1	3	Incl.	-	2	5.43	2.61%
C -5	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	395	0.1200	#1/0	3	Incl.	-	2	5.12	2.46%
C -6	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	385	0.1500	#1	3	Incl.	-	2	6.24	3.00%
C -7	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	450	0.1200	#1/0	3	Incl.	-	2	5.83	2.80%
C -8	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	440	0.1200	#1/0	3	Incl.	-	2	5.70	2.74%
C -9	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	500	0.1000	#2/0	3	Incl.	-	2	5.40	2.60%
C -10	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	490	0.1000	#2/0	3	Incl.	-	2	5.29	2.54%
E -1	3	3	120 / 208						37.90	4.55	4	100%	100%	1	37.90	13.65	100	3	G	710	0.1200	#1/0	4	Incl.	-	1.732	5.59	2.69%
C -11	1	1	120 / 120						0.33	0.04	0	100%	100%	1	0.33	0.04	20	1	SOOW	510	2.0000	#12	3	Incl.	-	2	0.66	0.55%
Panel	3	3	120 / 208	0	40	0	0	0	SEE PANEL SCHEDULE BELOW										THWN	10	0.0520	250MCM	4	#4	#4	1.732	0.18	0.09%
Feeder	3	3	480	0	40	0	0	0	SEE DISCONNECT SCHEDULE BELOW										UTILITY LOCATION NOT KNOWN									

TOTAL PHASE BALANCE						
AØ kW		BØ kW		CØ kW		
55.10		54.73		47.86		
Total Connected kW:	157.69	Demand kW:	70.96	SPD Protection (kA/Phase):	130 kA	
Total Receptacles:	44	Demand Current:	196.97	GFM Trip Setting (mA):	100 mA	
Demand Factors:	Rec:	50%	Demand kVA:	70.96	GFM Branch/Main Protection:	Main
	Meter:	90%	MCB SIZE:	250	Enclosure Type:	N3RX Stainless Steel Unit Substation
	PF:	1.000	Poles:	3		

Panel: E																												
Circuit ID	Phase	Phase Adj	Voltage	Receptacles					Total Line Current	Total Line kW	Total Rec.	Demand Factors			Power Factor	Dem. Current	Dem. kW	CB Size	CB Poles	Cable								
				20A GFCI, 125V	30A, 125V	50A, 125/250V	100A 1Ø, 125/250V	100A 3Ø, 120/208Y				Rec.	Meter	Power Factor						Dem. Current	Dem. kW	CB Size	CB Poles	Cable Type	Circuit Length	Resist.	Size	Qty. Cond.
E -1	1	2	120 / 208		4				3.00	0.36	4	100%	90%	1	2.70	0.65	30	2	SOOW	345	2.0000	#12	3	Incl.	-	2	3.73	1.79%
E -2	3	3	120 / 208						17.93	2.15	0	100%	100%	1	17.93	6.45	30	3	G	395	0.4900	#6	4	Incl.	-	1.732	6.01	2.89%
E -3	3	3	120 / 208						17.93	2.15	0	100%	100%	1	17.93	6.45	30	3	G	385	0.4900	#6	4	Incl.	-	1.732	5.86	2.82%
E -4	1	1	120 / 120						0.22	0.26	0	100%	100%	1	0.22	0.26	20	1	SOOW	360	2.0000	#12	3	Incl.	-	2	0.31	0.26%
Feeder	3	3	120 / 208	4	0	0	0	0	SEE DISCONNECT SCHEDULE BELOW										SEE PANEL CDE DESIGN SHEET									

TOTAL PHASE BALANCE						
AØ kW		BØ kW		CØ kW		
4.66		4.33		4.66		
Total Connected kW:	13.66	Demand kW:	13.66	SPD Protection (kA/Phase):	-	
Total Receptacles:	4	Demand Current:	37.90	GFM Trip Setting (mA):	-	
Demand Factors:	Rec:	100%	Demand kVA:	13.66	GFM Branch/Main Protection:	-
	Meter:	100%	MCB SIZE:	100A MLO	Enclosure Type:	NEMA 4X
	PF:	1.000	Poles:	3		

**ALL CIRCUIT BREAKERS FEEDING POWER PEDESTALS SHALL INCLUDE A SHUNT TRIP MECHANISM TIED TO A 100mA GROUND-FAULT MONITOR.**

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MARINA  
 PANEL SCHEDULES  
 DOCKS C, D, & E  
 BEAR LAKE MARINA EXPANSION  
 DFCM PROJECT #23356510  
 GARDEN CITY, UT

DRAWN BY: AG 7/12/2024  
 DESIGNED BY: AG 7/12/2024  
 CHECKED BY: CL 7/12/2024  
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SEAL

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SHEET  
**M6202**

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Panel: G

Circuit ID	Phase	Phase Adj	Voltage	Receptacles					Total Line Current	Total Line kW	Total Rec.	Demand Factors		Power Factor	Dem. Current	Dem. kW	CB Size	CB Poles	Cable										
				20A GFCI, 125V	30A, 125V	50A, 125/250V	100A 1Ø, 125/250V	100A 3Ø, 120/208Y				Rec.	Meter						Cable Type	Circuit Length	Resist.	Size	Qty. Cond.	EGC	GEC	Phase Adj.	VD	VD%	
G -1	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	275	0.1900	#2	3	Incl.	-	2	5.64	2.71%	
G -2	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	245	0.1900	#2	3	Incl.	-	2	5.03	2.42%	
G -3	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	295	0.1900	#2	3	Incl.	-	2	6.05	2.91%	
G -4	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	355	0.1500	#1	3	Incl.	-	2	5.75	2.76%	
G -5	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	405	0.1200	#1/0	3	Incl.	-	2	5.25	2.52%	
G -6	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	460	0.1200	#1/0	3	Incl.	-	2	5.96	2.87%	
G -7	1	2	120 / 208		3				60.00	5.40	3	100%	90%	1	54.00	9.72	60	2	G-GC	510	0.1000	#2/0	3	Incl.	-	2	5.51	2.65%	
Panel I	3	3	120 / 208	Panel I					1.98	0.41	2	100%	100%	1	1.98	0.72	100	3	THWN	275	0.2500	#3	4	#6	-	1.732	0.24	0.11%	
G -8	1	1	120 / 120	Fire Station Circuit Dock G					0.43	0.05	0	100%	100%	1	0.43	0.05	20	1	SOOW	520	2.0000	#12	3	Incl.	-	2	0.90	0.75%	
Panel	3	3	120 / 208	0	27	0	0	0	SEE PANEL SCHEDULE BELOW								THWN	10	0.0520	250MCM	4	#4	#4	1.732	0.15	0.07%	UTILITY LOCATION NOT KNOWN		
Feeder	3	3	480	0	27	0	0	0	SEE DISCONNECT SCHEDULE BELOW																				

TOTAL PHASE BALANCE

AØ kW	BØ kW	CØ kW
33.22	29.31	36.46

Total Connected kW:	99.00	Demand kW:	62.37	SPD Protection (kA/Phase):	130 kA	
Total Receptacles:	29	Demand Current:	173.11	GFM Trip Setting (mA):	100 mA	
Demand Factors:	Rec:	70%	Demand kVA:	62.37	GFM Branch/Main Protection:	Main
	Meter:	90%	MCB SIZE:	250	Enclosure Type:	N3RX Stainless Steel Unit Substation
	PF:	1.000	Poles:	3		

Panel: I

Circuit ID	Phase	Phase Adj	Voltage	Receptacles					Total Line Current	Total Line kW	Total Rec.	Demand Factors		Power Factor	Dem. Current	Dem. kW	CB Size	CB Poles	Cable									
				20A GFCI, 125V	30A, 125V	50A, 125/250V	100A 1Ø, 125/250V	100A 3Ø, 120/208Y				Rec.	Meter						Cable Type	Circuit Length	Resist.	Size	Qty. Cond.	EGC	GEC	Phase Adj.	VD	VD%
I -1	1	1	120 / 120		2				3.00	0.36	2	100%	90%	1	2.70	0.32	20	1	SOOW	820	0.7800	#8	3	Incl.	-	2	3.45	2.88%
I -2	1	1	120 / 120	Fire Station Circuit Dock I					0.43	0.05	0	100%	100%	1	0.43	0.05	20	1	SOOW	805	2.0000	#12	3	Incl.	-	2	1.40	1.16%
Feeder	3	3	120 / 120	2	0	0	0	0	SEE DISCONNECT SCHEDULE BELOW								SEE PANEL G DESIGN SHEET											

TOTAL PHASE BALANCE

AØ kW	BØ kW	CØ kW
0.36	0.05	0.00

Total Connected kW:	0.41	Demand kW:	0.41	SPD Protection (kA/Phase):	-	
Total Receptacles:	2	Demand Current:	1.98	GFM Trip Setting (mA):	-	
Demand Factors:	Rec:	100%	Demand kVA:	0.41	GFM Branch/Main Protection:	-
	Meter:	100%	MCB SIZE:	100A MLO	Enclosure Type:	NEMA 4X
	PF:	1.000	Poles:	3		

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 (855) 258-3939 - www.marinelect.com

**Kimley >>> Horn**  
 111 East Broadway, Suite 600 | Salt Lake City, UT 84111 | Tel. No. 801-433-3116

MARINA  
 PANEL SCHEDULES  
 DOCKS G & I  
 BEAR LAKE MARINA EXPANSION  
 DFCM PROJECT #23356510  
 GARDEN CITY, UT

DRAWN BY:	AG	7/12/2024
DESIGNED BY:	AG	7/12/2024
CHECKED BY:	CL	7/12/2024
PROJECT NO.:	23356510	7/12/2024

SEAL  
 PREPARED UNDER THE DIRECTION  
 SUPERVISION OF J. CASEY LONG, P.E.  
 REGISTRATION NO.  
 13378404-2202 FOR AND ON BEHALF OF  
 KIMLEY-HORN AND ASSOCIATES, INC.

SHEET  
**M6203**

Panel: J

Circuit ID	Phase	Phase Adj	Voltage	Receptacles					Total Line Current	Total Line kW	Total Rec.	Demand Factors			Power Factor	Dem. Current	Dem. kW	CB Size	CB Poles	Cable											
				20A GFCI, 125V	30A, 125V	50A, 125/250V	100A 1Ø, 125/250V	100A 3Ø, 120/208Y				Rec.	Meter	Factor						Resist.	Size	Qty. Cond.	EGC	GEC	Phase Adj.	VD	VD%				
J -1	1	2	120 / 208		5				90.00	9.00	5	90%	90%	1	72.90	14.58	100	2	G-GC	240	0.1900	#2	3	Incl.	-	2	6.65	3.20%			
J -2	1	2	120 / 208		4				60.00	7.20	4	100%	90%	1	54.00	12.96	60	2	G-GC	290	0.1900	#2	3	Incl.	-	2	5.95	2.86%			
J -3	1	2	120 / 208		3				60.00	5.40	3	100%	90%	1	54.00	9.72	60	2	G-GC	350	0.0620	#4/0	3	Incl.	-	2	2.34	1.13%			
J -4	1	2	120 / 208			2			100.00	12.00	2	100%	90%	1	90.00	21.60	100	2	G-GC	390	0.0770	#3/0	3	Incl.	-	2	5.41	2.60%			
J -5	1	2	120 / 208			2			100.00	12.00	2	100%	90%	1	90.00	21.60	100	2	G-GC	430	0.0770	#3/0	3	Incl.	-	2	5.96	2.87%			
J -6	1	1	120 / 120						0.33	0.04	0	100%	100%	1	0.33	0.04	20	1	SOOW	450	2.0000	#12	3	Incl.	-	2	0.59	0.49%			
J -7	3	1	120 / 208						5.00	0.60	0	100%	100%	1	5.00	0.60	20	3	THWN	450	1.2000	#10	4	#12	-	1.732	4.68	2.25%			
Panel	3	3	120 / 208	0	12	4	0	0																							
Feeder	3	3	480	0	12	4	0	0																							

TOTAL PHASE BALANCE					
		AØ kW	BØ kW	CØ kW	
		30.64	30.60	31.80	
Total Connected kW:	93.04	Demand kW:	58.61	SPD Protection (kA/Phase):	130 kA
Total Receptacles:	16	Demand Current:	162.70	GFM Trip Setting (mA):	100 mA
Demand Factors:	Rec: 70%	Demand kVA:	58.61	GFM Branch/Main Protection:	Main
	Meter: 90%	MCB SIZE:	225	Enclosure Type:	N3RX Stainless Steel Unit Substation
	PF: 1.000	Poles:	3		

**ALL CIRCUIT BREAKERS FEEDING POWER PEDESTALS SHALL INCLUDE A SHUNT TRIP MECHANISM TIED TO A 100mA GROUND-FAULT MONITOR.**

DATE	DESCRIPTION



**Marina Electrical Equipment, Inc.**  
 1715 Merimac Trail - Williamsburg, VA 23185  
 (855) 258-3939 - www.marinaee.com



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