

ADDENDUM #2

This Addendum is hereby made a part of the contract documents to the same extent as though it was originally included therein. This addendum must be acknowledged in the Bid Form.

TO ALL BIDDERS FOR FURNISHING LABOR, EQUIPMENT AND MATERIALS NECESSARY AND REQUIRED FOR:

Southwood Park Improvements
14318 Parkview Drive, Prairieville, LA
Ascension Parish Government

ARCHITECT'S PROJECT NUMBER: 24-1442

GENERAL:

1. **Mandatory Pre-Bid Meeting**

A mandatory pre-bid meeting was held at the project site on November 6, 2024 at 2:00pm. A copy of the pre-bid sign-in sheet and minutes of the meeting have been attached for your reference.

2. **Tax Exempt Status**

All bidders shall bid without the sales/use tax included for purchases of component construction materials, taxable services and leases and rentals of tangible personal property (hereinafter referred to as "materials/supplies") for which they will be willing to furnish copies of invoices to Ascension Parish Government. The successful contractors and subcontractors will be named as contractor-agents of Ascension Parish Government under Louisiana R.S. 47:301(8) © in order to allow exemption of sales and use taxes for materials/supplies needed. A copy of Louisiana Department of Revenue Form R-1020 is attached for your use.

3. **Bidder Questions**

The bid notice shall be revised to allow all questions regarding the project and the bid package to be submitted to the Purchasing Department via purchasing@apgov.us by 4:00pm on November 11, 2024 rather than November 7, 2024.

CHANGES, ADDITIONS AND CORRECTIONS IN THE DRAWINGS:

1. **Refer to Drawing E0.0 – Electrical Cover Sheet**

Refer to the attached sheet E0.0 for notes, legend and abbreviations for electrical scope items.

2. **Refer to Drawing E1.0 – Electrical Site Plan**

Refer to the attached sheet E1.0 for overall electrical scope site plan.

3. **Refer to Drawing E2.0 – Electrical Plan – Courts and Buildings**

Refer to the attached sheet E2.0 for enlarged electrical plans for courts and buildings.

4. **Refer to Drawing E3.0 – Riser Diagram and Schedules**
Refer to the attached sheet E3.0 for riser diagram and panel schedules for electrical scope.
5. **Refer to Drawing E4.0 – Electrical Details**
Refer to the attached sheet E4.0 for details related to the electrical scope items.

CHANGES, ADDITIONS AND CORRECTIONS IN PROJECT MANUAL:

1. Please include the attached specifications as part of the Project Manual
 - a. Section 00 4000 – Testing Laboratory Services

ADDITIONAL CLARIFICATION AND RFI RESPONSE ITEMS:

1. **Question: Is this project tax exempt?**
Yes, this project will be tax exempt. See general note #2 of this addendum for additional information.
2. **Question: What is the engineers estimate for this project?**
The opinion of probable construction cost for the project ranges between \$850,000.00 to \$1,100,000.00.
3. **Question: Who will pay for testing? Owner or contractor?**
Bidders shall refer to Specification Section 014000 – Testing Laboratory Services for information and specifics related to construction and material testing.
4. **Question: What are the working hours for the project? Are there any restrictions on when work can be performed?**
There are no restrictions on when the project can be performed from a working hours standpoint. Contractor shall coordinate with the owner to allow access to portions of the site that will remain in use. Contractor shall use care to limit disturbance to adjacent property owners.
5. **Question: What are the insurance requirements for the project?**
Bidders shall refer the Public Works/Construction Contract in the project manual for all required insurance requirements.
6. **Question: What are the liquidated damages for the project?**
Bidders shall refer to Specification Section 00 2113 – Instructions to Bidders for liquidated damage amount.
7. **Question: How do we need to price the excess materials/spoils from the excavation required at the project site?**
Bidders shall price the project to haul away the excess materials and spoils from the project site. The Parish may want the materials but that is not guaranteed.
8. **Question: Will power and water be made available during construction?**
The owner will allow the contractor to utilize the on-site, existing power and water for construction activities.
9. **Question: Is there a gas meter included in the project?**
No, no gas meter is required for the project.
10. **Question: Is there a water meter included in the project?**
Yes, there is a new water meter required for the project. Contractor shall refer to sheet L3.0 for meter information.

11. **Question: Will the owner mark the locations of existing utilities?**

No existing subsurface utility information is available for this project. Contractor shall use caution and their own judgement for all excavation activities. If any existing subsurface utilities are damaged due to construction activities, the repair of these items will be required at no additional cost to the owner.

12. **Question: How will site access work for the duration of the project?**

The park will remain locked unless the existing field is rented during the project construction duration. Contractor shall provide a double lock condition at the park gate to allow access for owner and field renters. Contractor shall refer to Sheet L0.0 for additional fencing and gate requirements.

13. **Question: Will Davis-Bacon or Prevailing Wages govern this project?**

No, the project will not need to conform to Davis-Bacon or Prevailing Wages.

PRIOR APPROVALS:

1. **Specification Section 32 1816.1 – Court Surfacing**

QCI Classic Court System by Quality Court Industries, LLC is a prior approved manufacturer.

END OF ADDENDUM NO. 2

SOUTHWOOD PARK IMPROVEMENTS

Prairieville, Louisiana
14318 Parkview Drive
DDG Project No. 24-1442

MANDATORY PRE-BID SIGN-IN SHEET



Pre-Bid Conference Date: Wednesday, November 6, 2024 @ 2:00pm

Name:	Company:	Phone:	Email:	Contractor License No.:
Eddie Payton	ARL Construction, Inc	337-828-7504	arl@arl.construction	
Greg Young	Forest Contracting Group	337-578-1133	bids@forestgroup.com	44882
Thomas Bueche	Capitol Construction	225-751-0386	apittman@capconla.com	44097
Zari Ledet	Geosport Lighting	225-577-1928	z.ledet@geosportlighting.com	
Bill Smith	Geosport Lighting NEAR GENERATIONS SPORTS SURFACES LLC	517-807-5360	B. Smith@geosportlighting.com	
Scott Murrex	Geo Surfaces	837-322-3373	SCOTTE.MURREX@GEO.SURFACES.US	
Mark Driver	Geo Surfaces	314-346-9899	M.DRIVER@GEO.SURFACES.COM	
Cony Forbes	MJin Construction	435-3006	Bids@Mjin Construction.com	42839
Mike Buckler	Sager Construction	225-722-8814	estimating@sagerconstruction	71684
Brandon Scott	Scott Fence USA	225-752-7772	brandone.scott@fenceusa.com	
Terry Sonny	Promethean G.C.	504-462-0611	tsongye@prometheanGc.com	
Bernard Savoy	Promethean G.C.	339-486-7605	gsavoy@RadixGRP.com	
Frank Alvarez	Premier Construction Blvd	225-979-3665	FRANK@premierconstructionbl.com	
Ricky Roth	Stricklin & Porter	601-807-6057	Ricky@stricklinandporter.com	72413
Randy Messer	Alder Home GC	225-788-0445	Braundon.Colsind@ymail.com	7871631
Robert Thornton	Legacy Restoration	504-421-7293	nwcurian@legacyrestor.com	67727
Steven Sickinger	Pinnacle Exterior Construction	504-905-2616	stevan@pecbuild.com	



November 6, 2024

**Southwood Park Improvements
Pre-Bid Meeting Minutes
Project Site – 2:00pm**

Attendees:

Ascension Parish Government: Randy Mullis, Devin Russ, Geoff Sanders, Brennan Henry

DDG: Michael Petty, Denise Martinez

Refer to attached sign-in sheet for other attendees.

MEETING MINUTES:

- Devin Russ (Ascension Parish Government) introduces himself and the representatives present from Ascension Parish Government, and DDG (see sign-in sheet attachment).
- Michael Petty (DDG) reminds all in attendance that today's meeting is a mandatory pre-bid meeting for the subject project and requires everyone to sign in on the circulated sign-in sheet (see attachment).
- Michael Petty details the scope of work for the project:
 - The base bid consists of five (5) lighted pickleball courts, a new pre-engineered restroom building, pedestrian paving, and other associated site improvements.
- Michael Petty discussed the project schedule with the following specifics:
 - The bid opening will be November 18, 2024, at 10:00am.
 - The lowest successful bidder will be presented and approved at the November 21, 2024 Ascension Parish Council Meeting.
 - The contract execution period will be November 22, 2024 through December 13, 2024.
 - The notice to proceed will be issued on or around December 16, 2024.
 - The contract duration was discussed to be 120 calendar days from the Notice to Proceed.
 - The substantial completion will be on or around April 15, 2025.
- Michael Petty stated the first bid addendum is expected to be issued on or around November 7, 2024.
- Michael Petty discussed that all potential bidders should perform any site inspections at the pre-bid meeting.
- Several questions were asked during the pre-bid meeting by potential bidders. These questions are documented within Bid Addendum No. 2.

Minutes Prepared By:
Michael L. Petty, PLA, CLARB
DDG Baton Rouge



**Designation of Construction Contractor
as Agent of a Governmental Entity
Sales Tax Exemption Certificate**

_____, an agency of the United States government, or an agency, board, commission, or instrumentality of the State of Louisiana or its political subdivisions, including parishes, municipalities and school boards, does hereby designate the following contractor as its agent for the purpose of making sales tax exempt purchases on behalf of the governmental body:

Name of Contractor		
Address		
City	State	ZIP

This designation of agency shall be effective for purchases of component construction materials, taxable services and leases and rentals of tangible personal property for the following named construction project:

Construction Project	Contract Number
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This designation and acceptance of agency is effective for the period

Beginning Date (mm/dd/yyyy)	End Date (mm/dd/yyyy)
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Purchases for the named project during this period by the designated contractor shall be considered as the legal equivalent of purchases directly by the governmental body. Any materials purchased by this agent shall immediately, upon the vendor's delivery to the agent, become the property of this government entity. This government entity, as principal, assumes direct liability to the vendor for the payment of any property, services, leases, or rentals made by this designated agent. This agreement does not void or supersede the obligations of any party created under any construction contract related to this project, including specifically any contractual obligation of the construction contractor to submit payment to the vendors of materials or services for the project.

This contractor-agent is not authorized to delegate this purchasing agency to others; separate designations of agency by this governmental entity are required for each contractor or sub-contractor who is to purchase on behalf of this governmental entity. The undersigned hereby certify that this designation is the entirety of the agency designation agreement between them. In order for a purchase for an eligible governmental entity through a designated agent to be eligible for sales tax exemption, the designation of agency must be made, accepted, and disclosed to the vendor before or at the time of the purchase transaction.

Designation of Agency		
Signature of Authorized Designator	Date (mm/dd/yyyy)	
Name of Authorized Designator		
Name of Governmental Entity		
Address		
City	State	ZIP

Acceptance of Agency		
Signature of Contractor or Subcontractor Authorized Acceptor	Date (mm/dd/yyyy)	
Name of Contractor's or Subcontractor's Acceptor		
Name of Contractor		
Address		
City	State	ZIP

This designation of agency form, when properly executed by both the contractor and the governmental entity, shall serve as evidence of the sales tax exempt status that has been conferred onto the contractor. No other exemption certificate form is necessary to claim exemption from sales taxes. The agency agreement evidenced by this sales tax exemption certificate must be implemented at the time of contract execution with the governmental entity. The contract between the governmental entity and his agent must contain provisions to authenticate the conferment of agency.

ELECTRICAL SYMBOL LEGEND

GENERAL

KEYNOTE	KEYNOTE
A-1.3	CIRCUIT TAG, PANEL AND CIRCUIT DESIGNATION AS INDICATED, E.G. PANEL "A", CIRCUIT #1.3

WIRE, CONDUIT, AND RACEWAY

—	ABOVE-SLAB CONDUIT & WIRE/CABLING
---	BELOW-SLAB CONDUIT & WIRE/CABLING; 3/4" MINIMUM CONDUIT SIZE UON
⊕	HOMERUN TO PANEL; TICK MARKS INDICATED NUMBER OF WIRES

DISTRIBUTION

□	PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT AS NOTED. INSTALL WITH SUFFICIENT WORKING SPACE AND CLEARANCES TO MEET ALL REQUIREMENTS OF NEC SECTION 110.26.
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GEN-ANN	GENERATOR REMOTE ANNUNCIATOR PANEL. PROVIDE CONDUIT/CABLING TO GENERATOR AS REQUIRED PER THE MANUFACTURER'S SPECIFICATIONS.
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EQUIPMENT CONNECTIONS
(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE)

□	FUSED SAFETY DISCONNECT SWITCH. LOCATE WITHIN SIGHT OF THE EQUIPMENT SERVED WITH 36" MINIMUM CLEAR WORKING SPACE IN FRONT OF THE SWITCH. DO NOT MOUNT DIRECTLY TO EQUIPMENT
⊙	JUNCTION BOX
M	JUNCTION BOX FOR MOTORIZED DAMPER
S	MOTOR RATED SWITCH WITH THERMAL OVERLOAD. LOCATE WITHIN SIGHT OF THE EQUIPMENT SERVED; DO NOT MOUNT DIRECTLY TO EQUIPMENT, WHEN LOCATED ABOVE CEILING, MOUNT TO STRUCTURAL MEMBER NEARBY
⊕	ELECTRICAL MOTOR, HORSEPOWER AS NOTED

POWER DEVICES
(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE)

⊕	DUPLEX RECEPTACLE
⊕	DUPLEX RECEPTACLE MOUNTED FLUSH TO CEILING OR MOUNTED TO STRUCTURE IN AREAS WITH NO CEILING; SUBSCRIPT (WHEN USED); OR -CORD REEL
⊕	ABOVE-COUNTER DUPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPASH OR 44" (WHICHEVER IS LOWER)
⊕	GFCI DUPLEX RECEPTACLE
⊕	ABOVE-COUNTER GFCI DUPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPASH OR 44" (WHICHEVER IS LOWER)
⊕	QUADRAPLEX RECEPTACLE
⊕	ABOVE-COUNTER QUADRAPLEX RECEPTACLE; MOUNT AT 4" ABOVE COUNTER OR BACKSPASH OR 44" (WHICHEVER IS LOWER)
⊕	SPECIAL PURPOSE RECEPTACLE. VERIFY NEMA CONFIGURATION WITH THE MANUFACTURER OF THE EQUIPMENT SERVED
⊕	VOICE/DATA/POWER FLUSH FLOOR BOX
⊕	DUPLEX RECEPTACLE FLUSH FLOOR BOX
⊕	QUADRAPLEX RECEPTACLE FLUSH FLOOR BOX
⊕	RECEPTACLE SWITCHING. EDGE SHADING INDICATES: NONE - DEVICE NOT SWITCHED; LEFT - BOTTOM (DUPLEX) OR LEFT TWO (QUAD) SWITCHED; RIGHT - TOP (DUPLEX) OR RIGHT TWO (QUAD) SWITCHED
⊕	11" X 18" X 12" (W X L X D) IN-GROUND WEATHER PROOF PULL BOX

ABBREVIATIONS

A	AMPERE(S)	CATV	CABLE TELEVISION
AC	ABOVE COUNTER (6" ABOVE BACKSPASH)	CB	CIRCUIT BREAKER
AF	AMPERE(S) FUSED	CKT	CIRCUIT
AFCI	ARC FAULT CIRCUIT INTERRUPTER	CLG	CLG
AFF	ABOVE FINISHED FLOOR	CORR	CORRIDOR
AFG	ABOVE FINISHED GRADE	CT	CURRENT TRANSFORMER
AIC	AMP SYMMETRICAL INTERRUPTING CAPACITY RMS	CTRL	CONTROLLER
AT	AMPERE(S) TRIP	D	TO BE DEMOLISHED
AWG	AMERICAN WIRE GAUGE	DISC.	DISCONNECT
BG	BELOW GRADE	DIST.	DISTRIBUTION
BLDG	BUILDING	DWG	DRAWING
BKR	BREAKER	E	EXISTING TO REMAIN
C	CONDUIT	EC	EMPTY CONDUIT
CAT	CATEGORY	ECB	ENCLOSED CIRCUIT BREAKER

TELECOMMUNICATIONS
(JACKET COLORS TO BE PER THE OWNER'S STANDARDS IF APPLICABLE)

TELECOM TERMINAL BOARD, 0-1" THICK AC INDOOR GRADE. FIRE RETARDANT PLYWOOD, PAINTED AS SPECIFIED BY THE ARCHITECT OR OWNER
DUPLEX DATA OUTLET. PROVIDE 1" TO AN ACCESSIBLE LOCATION ABOVE CEILING. TWO (2) BLUE CAT 6 CABLES FROM THE OUTLET TO THE TELECOM TERMINAL BOARD
DUPLEX DATA OUTLET, AS ABOVE, MOUNTED FLUSH TO CEILING OR MOUNTED TO STRUCTURE IN AREAS WITH NO CEILING
DUPLEX DATA OUTLET, AS ABOVE, MOUNTED ABOVE COUNTER
DATA/VOICE OUTLET. PROVIDE 1" TO AN ACCESSIBLE LOCATION ABOVE CEILING. ONE (1) BLUE AND ONE (1) WHITE CAT 6 CABLES FROM THE OUTLET TO THE TELECOM TERMINAL BOARD
VOICE OUTLET. PROVIDE 1" TO AN ACCESSIBLE LOCATION ABOVE CEILING. ONE (1) WHITE CAT 6 CABLE FROM THE OUTLET TO THE TELECOM TERMINAL BOARD
DUPLEX DATA FLUSH FLOOR BOX. PROVIDE 1" TO AN ACCESSIBLE LOCATION ABOVE CEILING. ONE (1) BLUE CAT 6 CABLE FROM THE OUTLET TO THE TELECOM TERMINAL BOARD
WIRELESS ACCESS POINT (BY OWNER). PROVIDE 1" TO AN ACCESSIBLE LOCATION ABOVE CEILING. ONE (1) BLUE CAT 6 CABLE FROM THE ACCESS POINT LOCATION TO THE TELECOM TERMINAL BOARD
LEGRAND EVOLUTION 4-GANG OR APPROVED EQUAL TV WALL BOX WITH ONE DUPLEX RECEPTACLE, ONE DUPLEX DATA OUTLET, ONE COAX OUTLET, AND ONE SPARE GANG. PROVIDE 1" TO TWO (2) BLUE CAT 6 CABLES AND 1" ONE (1) CATV CABLE FROM THE BOX TO THE TELECOM TERMINAL BOARD. PROVIDE CONDUIT AND WIRE FOR POWER PER THE PANEL SCHEDULE.
LEGRAND EVOLUTION 4-GANG OR APPROVED EQUAL COMBO RECESSED FLOOR BOX WITH TWO (2) DUPLEX RECEPTACLES, FOUR (4) DATA OUTLETS (UNDER A SINGLE PLATE), AND SPEAKER CONNECTIONS. PROVIDE 1-1/4" TO AN ACCESSIBLE LOCATION ABOVE CEILING. FOUR (4) BLUE CAT 6 CABLES FROM THE BOX TO THE TELECOM TERMINAL BOARD. ROUTE 1" EC WITH PULL STRING FROM THE BOX TO THE TV WALL BOX IN THE SAME ROOM FOR SPEAKER CABLING. PROVIDE CONDUIT AND WIRE FOR POWER PER THE PANEL SCHEDULE.

SECURITY (EQUIPMENT PROVIDED BY OWNER/OTHERS)
(EQUIPMENT PROVIDED BY OTHERS)

JUNCTION BOX FOR KEYPAD. INSTALL 48" AFF AND PROVIDE 3/4" EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
JUNCTION BOX FOR DOOR CONTACT (MAGNETIC LOCK). PROVIDE 3/4" EC WITH PULL STRING FROM THE DOOR FRAME TO THE JUNCTION BOX AND FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
JUNCTION BOX FOR CARD READER. PROVIDE 3/4" EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
JUNCTION BOX FOR ELECTRIC STRIKE LOCK. PROVIDE 3/4" EC WITH PULL STRING FROM THE DOOR FRAME TO THE JUNCTION BOX AND FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
JUNCTION BOX FOR DOOR OPERATOR. PROVIDE 3/4" EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING NEAR THE CONTROLLED DOOR
JUNCTION BOX FOR MOTION DETECTOR. PROVIDE 3/4" EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
JUNCTION BOX FOR CEILING MOUNTED CAMERA. PROVIDE 3/4" EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
JUNCTION BOX FOR WALL MOUNTED CAMERA. PROVIDE 3/4" EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING

LIGHTING
(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE FOR POWER AND PER THE MANUFACTURER'S SPECIFICATIONS FOR CONTROLS)

LIGHT FIXTURE. UPPERCASE LETTER(S) INDICATE FIXTURE TYPE; LOWERCASE LETTER(S) INDICATE ASSOCIATED CONTROLS ID; SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTIONS AND MOUNTING TYPES
EXIT LIGHT FIXTURE. ARROWS (IF USED) INDICATE DIRECTION. FILLED IN QUADRANT(S) INDICATE NUMBER AND ORIENTATION OF ILLUMINATED FACES. LETTER(S) INDICATE FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION.
CEILING MOUNTED OCCUPANCY SENSOR WITH 360° COVERAGE. LOCATE AND INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS; TEST AND ADJUST SENSITIVITY AFTER INSTALLATION AND SET TIME DELAY AS REQUIRED BY THE OWNER
CEILING MOUNTED DAYLIGHT HARVESTING SENSOR. LOCATED AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS; TEST AND ADJUST SENSITIVITY AFTER INSTALLATION AND SET TIME DELAY AS REQUIRED PER CODE
CEILING MOUNTED OCCUPANCY SENSOR, AS ABOVE, CONFIGURED FOR VACANCY OPERATION
PHOTOELECTRIC CELL. EXTERIOR RATED; AIM AND SENSED SENSOR FROM INTERIOR AND EXTERIOR ARTIFICIAL LIGHT SOURCES
SWITCH. SUBSCRIPT (WHEN USED); NONE - SINGLE POLE TOGGLE SWITCH; 3 - THREE-WAY SWITCH; D - LINEAR SLIDE DIMMER SWITCH; 3D - THREE-WAY LINEAR SLIDE DIMMER SWITCH; O - WALL MOUNTED OCCUPANCY SENSOR; 3O - THREE-WAY SWITCH WITH OCCUPANCY SENSOR; a.b.c. etc. - SWITCH ID

(REFER TO DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS)

FIRE ALARM
(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE FOR POWER AND CONDUIT AND CABLING PER THE MANUFACTURER'S SPECIFICATIONS)

FIRE ALARM CONTROL PANEL
FIRE ALARM SYSTEM PULL STATION
FIRE ALARM SYSTEM STROBE
FIRE ALARM SYSTEM CHIME/STROBE
FIRE ALARM SYSTEM HORN/STROBE
FIRE ALARM SYSTEM SPEAKER/STROBE
FIRE ALARM SYSTEM CEILING MOUNT STROBE
FIRE ALARM SYSTEM CEILING MOUNT CHIME/STROBE
FIRE ALARM SYSTEM CEILING MOUNT HORN/STROBE
FIRE ALARM SYSTEM CEILING MOUNT SPEAKER/STROBE
FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR
FIRE ALARM SYSTEM THERMAL DETECTOR
FIRE ALARM SYSTEM DUCT SMOKE DETECTOR
FIRE ALARM SYSTEM SMOKE DETECTOR

SECURITY (EQUIPMENT PROVIDED BY OWNER/OTHERS)
(EQUIPMENT PROVIDED BY OTHERS)

JUNCTION BOX FOR KEYPAD. INSTALL 48" AFF AND PROVIDE 3/4" EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
JUNCTION BOX FOR DOOR CONTACT (MAGNETIC LOCK). PROVIDE 3/4" EC WITH PULL STRING FROM THE DOOR FRAME TO THE JUNCTION BOX AND FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
JUNCTION BOX FOR CARD READER. PROVIDE 3/4" EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
JUNCTION BOX FOR ELECTRIC STRIKE LOCK. PROVIDE 3/4" EC WITH PULL STRING FROM THE DOOR FRAME TO THE JUNCTION BOX AND FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
JUNCTION BOX FOR DOOR OPERATOR. PROVIDE 3/4" EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING NEAR THE CONTROLLED DOOR
JUNCTION BOX FOR MOTION DETECTOR. PROVIDE 3/4" EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
JUNCTION BOX FOR CEILING MOUNTED CAMERA. PROVIDE 3/4" EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING
JUNCTION BOX FOR WALL MOUNTED CAMERA. PROVIDE 3/4" EC WITH PULL STRING FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING

SOUND
(PROVIDE 1" EC WITH PULL STRING FROM THE DEVICE LOCATION SHOWN ON THE DRAWINGS TO AN ACCESSIBLE LOCATION ABOVE CEILING)

FLOOR MOUNTED MICROPHONE OUTLET
CEILING MOUNTED SPEAKER
WALL MOUNTED SPEAKER

HEALTH CARE
(PROVIDE 1" EC WITH PULL STRING FROM THE DEVICE LOCATION SHOWN ON THE DRAWINGS TO AN ACCESSIBLE LOCATION ABOVE CEILING)

DOCTOR'S DICTATION
NURSE CALL SYSTEM EMERGENCY CALL-IN STATION
NURSE CALL SYSTEM BEDSIDE PATIENT STATION
NURSE CALL SYSTEM STAFF STATION
NURSE CALL SYSTEM CORRIDOR DOME LIGHT
NURSE CALL SYSTEM CODE BLUE STATION

ELECTRICAL GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS ADOPTED BY THE AHJ.
- THE WORDS "PROVIDE" AND "PROVIDED" AS USED HEREIN SHALL BE UNDERSTOOD TO MEAN, "PROVIDE COMPLETE IN PLACE." THAT IS, FURNISH AND INSTALL EQUIPMENT AND MATERIAL INDICATED TO BE PROVIDED SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE OF THE MOST SUBTLE GRADE FOR THE PURPOSE INTENDED.
- ROUTE NEW CONDUIT AND WIRING CONCEALED IN WALLS AND CEILING WHERE POSSIBLE. COORDINATE INSTALLATION OF EXPOSED CONDUIT AND WIRING WITH THE ARCHITECT.
- CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE TO NEW HVAC UNITS AS FURNISHED BY THE MECHANICAL CONTRACTOR. VERIFY THE EXACT ELECTRICAL REQUIREMENTS WITH THE REVISED HVAC SUBMITTALS PRIOR TO ORDERING ELECTRICAL EQUIPMENT.
- BEFORE INSTALLATION, CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS TO THE ENGINEER FOR REVIEW COVERING PROPOSED LOCATIONS, MOUNTING, AND ROUTING FOR ALL CONDUITS, SERVICES, FITTINGS, GROUND RODS, SUPPORTS, ETC.
- CONTRACTOR IS RESPONSIBLE FOR OVER-CURRENT PROTECTIVE DEVICE SHORT CIRCUIT, COORDINATION, AND ARC-FLASH STUDIES.
- MATERIALS AND MANUFACTURERS NOTED ON DRAWINGS ARE TO BE USED AS BASIS OF DESIGN TO ESTABLISH QUALITY AND PERFORMANCE STANDARDS AND SHALL BE PROVIDED AS SPECIFIED. SUBSTITUTIONS WILL BE CONSIDERED WHERE SUFFICIENT PRODUCT INFORMATION IS PROVIDED TO MAKE A PROPER EVALUATION. REVIEW OF A SUBSTITUTION IS AT THE SOLE DISCRETION OF THE PROFESSIONAL.
- THE CONTRACTOR SHALL SUBMIT COPIES OF THE PRODUCT DATA, SHOP DRAWINGS, ETC. OF ALL MATERIALS NOTED ON THE DRAWINGS. ALL SUBMITTED PRODUCT DATA, SHOP DRAWINGS, ETC. SHALL BE MARKED WITH THE NAME OF THE PROJECT AND SHALL BEAR THE STAMP OF APPROVAL OF THE CONTRACTOR AS EVIDENCE THAT THE MATERIAL HAS BEEN CHECKED BY THE CONTRACTOR.
- DRAWINGS SPECIFIC TO THIS TRADE DO NOT LIMIT THE RESPONSIBILITY OR WORK REQUIRED BY THE CONTRACT DOCUMENTS. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER TRADES FOR COMPLETE INFORMATION PRIOR TO BID.
- WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS, AND EQUIPMENT SCHEDULES, THE MOST STRINGENT REQUIREMENT OR QUANTITY SHALL APPLY. NOTIFY THE ARCHITECT/ENGINEER OF ALL CONFLICTS FOR RESOLUTION OR INTERPRETATION.
- NO EQUIPMENT SHALL BE ORDERED OR INSTALLED UNTIL THE PROJECT ENGINEER HAS RECEIVED A COPY STAMPED "NO EXCEPTIONS TAKEN." "NO EXCEPTIONS TAKEN" DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMANCE WITH THE CONTRACT. EXTEND TO QUANTITIES OR DIMENSIONS, IMPLY THAT THE EQUIPMENT CAN BE INSTALLED OR OPERATE SATISFACTORILY, THAT THE EQUIPMENT CONTAINS ALL NECESSARY COMPONENTS, OR THAT IT WILL COORDINATE WITH OTHER REVIEWED ITEMS.
- OMISSION FROM THIS SHEET OF ANY ITEM SHOWN ELSEWHERE IN THE PLANS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ANY ASSOCIATED WORK.
- COORDINATE INSTALLATION OF NEW ITEMS AND EQUIPMENT WITH THE OWNER'S REPRESENTATIVE AND THE WORK OF OTHER TRADES. THE CONTRACTOR SHALL INCUR ALL COSTS ASSOCIATED WITH THE RELOCATION OF EQUIPMENT CONFLICTING WITH NEW WORK BY OTHER TRADES THAT HAS NOT BEEN COORDINATED.
- COORDINATE ALL ASPECTS OF NEW SERVICE WITH UTILITY COMPANY AND INCLUDE ALL COSTS IN BID.
- WARNING TAPE SHALL BE INSTALLED 12 TO 18 INCHES BELOW GRADE OVER ALL CONDUITS.
- PROVIDE 1/4" MINIMUM DIAMETER PULL ROPE. PULL ROPE SHALL NOT BE NYLON STRING.
- FOR SERVICE ENTRANCE CONDUITS, UTILIZE LONG RADIUS 90° CONDUIT BENDS.
- ALL CONDUIT RISERS FROM UNDERGROUND SHALL HAVE RIDGE METAL ELKS AND RISERS.
- PRIOR TO CONSTRUCTION, VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. AVOID DISTURBANCE OF EXISTING UTILITIES NOT INCLUDED IN THIS PROJECT.
- SET SCREW CONDUIT FITTINGS SHALL NOT BE PERMITTED.

LIGHTING GENERAL NOTES

- VERIFY THE EXACT LOCATION OF ALL LIGHTING SWITCHES WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- VERIFY THE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ROUGH-IN.
- VERIFY THE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS WITH THE MANUFACTURER'S SPECIFICATIONS PRIOR TO INSTALLATION FOR MAXIMUM PERFORMANCE.
- EMERGENCY FIXTURES AND EXIT FIXTURES SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT. BRANCH CIRCUIT WIRING TO EXIT FIXTURES AND TO BATTERY INVERTERS WITHIN FIXTURES WITH INTEGRAL BATTERY UNITS SHALL BE UNSWITCHED, CONNECTED AHEAD OF ANY CONTROL SWITCHING.
- WALL MOUNT TYPE "Z" FIXTURES ABOVE DOOR AS SHOWN ON DRAWINGS. COORDINATE WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- MOUNT TYPE "EM" FIXTURES 8'-0" AFF UNLESS OTHERWISE NOTED.
- VERIFY THE CEILING TYPES FOR ALL LIGHT FIXTURES TO BE FLUSH MOUNTED OR SUSPENDED AND ADJUST FIXTURE MOUNTING TYPES IN ACCORDANCE WITH THE CEILING TYPE, AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL REQUIRED MOUNTING HARDWARE.
- ALL VANITY FIXTURES SHALL BE MOUNTED WITH 0-3" OF SPACE BETWEEN THE BOTTOM OF THE FIXTURE AND THE TOP OF THE MIRROR UNLESS OTHERWISE NOTED.
- VERIFY THE EXACT MOUNTING LOCATION FOR ANY PHOTOELECTRIC CELLS WITH THE ARCHITECT PRIOR TO ROUGH-IN. ALL PHOTOELECTRIC CELLS MUST FACE NORTH.
- CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL DEVICES/SWITCHES/DIMMERS WITH LIGHTING FIXTURES AND BALLAST/DRIVERS PRIOR TO SUBMITTAL.
- COORDINATE LOCATION OF LIGHT FIXTURES IN MECHANICAL ROOMS WITH DIVISION 1523 PLANNED EQUIPMENT LOCATION AND DUCT INSTALLATION. WALL MOUNT LIGHTS OR PROVIDE PENDANT MOUNTING AS REQUIRED TO ILLUMINATE THE SPACE.
- WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN THE SAME AREA, MOTION DETECTION BY ONE SENSOR SHALL ILLUMINATE ALL LIGHTING IN THE RESPECTIVE AREA.

TELECOMMUNICATIONS GENERAL NOTES

- PROVIDE 1" CONDUIT AND TWO (2) CAT 6 CABLES AT EACH DATA OUTLET SHOWN. ROUTE TO ABOVE CEILING AND ROUTE TO TELEPHONE BACKBOARD IN IT ROOM. TERMINATE AND CONNECT STATION CABLES TO PATCH PANEL, FOLLOWING THE OWNER'S LABELING CONVENTIONS FOR ALL HORIZONTAL CABLING.
- OWNER SHALL PROVIDE THE WALL MOUNT DATA RACK, ALL ITEMS INCLUDED IN THE DATA RACK, AND ANY NECESSARY TELEPHONE EQUIPMENT.
- PLYWOOD FOR BACKBOARDS SHALL BE 0-1" AC INDOOR GRADE, FIRE RETARDANT, AND PAINTED AS SPECIFIED. COMMON BOND RACKS, PATCH PANELS, CABLE SHIELDS, PROTECTORS, AND THE BUILDING MAIN ELECTRICAL GROUNDING CONDUCTORS SHALL BE, AT MINIMUM, #6 AWG INSULATED AND STRANDED COPPER. FASTENERS SHALL BE RECESSED AND ANCHORED.
- SUBMIT DIGITAL PHOTOGRAPHS OF ALL TERMINATIONS TO MAIN ELECTRICAL SERVICE GROUNDING MEANS. ALL BACKBOARDS SHALL BE EQUIPPED WITH D-RINGS SPACED AT 1'-0" APART AROUND ALL EDGES OF THE PLYWOOD TO SUPPORT CABLE AND WIRE.
- CAT 6 CABLES FOR DATA OUTLETS SHALL HAVE BLUE JACKETS AND CAT 6 CABLES FOR VOICE OUTLETS SHALL HAVE WHITE JACKETS.

SPECIAL SYSTEMS GENERAL NOTES

- VERIFY EXACT LOCATION, VOLTAGE, PHASE, AMPERAGE, ETC. OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING ELECTRICAL GEAR.
- INTERCONNECT THE HOOD EXHAUST AND SUPPLY FANS WITH HOOD EXTINGUISHING SYSTEM SUCH THAT WHEN HOOD EXTINGUISHING SYSTEM IS ACTIVATED, THE EQUIPMENT BELOW THE HOOD AND HOOD SUPPLY FAN ARE DE-ENERGIZED AND THE HOOD EXHAUST FAN WILL START IF NOT RUNNING.
- INTERCONNECT THE HOOD EXTINGUISHING SYSTEM WITH THE FIRE ALARM SYSTEM IF APPLICABLE.
- FOR ALL CAMERA LOCATIONS, PROVIDE ONE (1) GREEN JACKETED CAT 6 CABLE IN 3/4" CONDUIT BACK TO ASSOCIATED DATA CLOSET.
- FOR ALL WIRELESS ACCESS POINT LOCATIONS, PROVIDE ONE (1) YELLOW JACKETED CAT 6 CABLE IN 3/4" CONDUIT BACK TO ASSOCIATED DATA CLOSET.
- PROVIDE AN ADDITIONAL 10%, OR ONE (1), WHICHEVER IS GREATER, OF THE FOLLOWING DEVICES WHICH ARE INCLUDED IN THE PROJECT, AND INSTALL THEM AT THE DIRECTION OF THE ARCHITECT, ENGINEER, OR AHJ DURING THE COURSE OF THE PROJECT. PROVIDE ALL REQUIRED CONDUIT, INTERCONNECTIONS, CONDUCTORS, PROGRAMMING, ETC. AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER: INITIATING DEVICES (PULL STATIONS, SMOKE DETECTORS, THERMAL DETECTORS, ETC.), NOTIFICATION APPLIANCES (STROBES, HORN STROBES, SPEAKER STROBES, SPEAKERS, DUCT DETECTORS, ETC.), AND MONITORING MODULES.
- VERIFY REQUIRED QUANTITY OF DUCT DETECTORS WITH DUCTWORK CONFIGURATION AS IT IS ACTUALLY INSTALLED. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

DEMOLITION GENERAL NOTES

- THE LOCATIONS OF EXISTING CIRCUITS AND EQUIPMENT ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, AND WIRING BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING PORTIONS OF THE ELECTRICAL SYSTEMS.
- THE CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.
- ALL EQUIPMENT REMOVED THAT IS NOT BEING REUSED SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF AS REQUIRED.
- EXCEPT AS OTHERWISE NOTED, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. OTHER ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD, UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS STUBBED OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.
- WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE DISCONTINUED AND RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS AS SPECIFIED.
- WHERE EXISTING RACEWAYS THAT ARE NOT TO BE REUSED INTERFERE WITH NEW WORK, THESE RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX OR PULL BOX AND THE OPENINGS BLANKED.
- CONTRACTOR SHALL MAINTAIN CONTINUITY OF BRANCH CIRCUITS SERVING MULTIPLE ITEMS OF WHICH ONE OR MORE ARE BEING DEMOLISHED. CONDUCTORS AND CONDUITS FOR THOSE ITEMS BEING DEMOLISHED SHALL BE REMOVED AS FAR AS PRACTICABLE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND DATA WIRING NOT REUSED OR NOT NECESSARY FOR THE COMPLETION OF THIS PROJECT.
- IF ANY BRANCH CIRCUIT WIRING FEEDING EQUIPMENT TO REMAIN IN PLACE FOR REUSE IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE THE NEW BRANCH CIRCUIT WIRING OF THE SAME SIZE AND TYPE AS THAT OF THE EXISTING AT NO COST TO THE OWNER.
- EXISTING DEVICES ARE SHOWN IN GRAY. CONDUIT AND WIRING ARE NOT GENERALLY SHOWN AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL DEMOLITION WORK AND CLARIFICATION OF INDICATED WORK WILL BE GIVEN BY RFI.
- COORDINATE THE REMOVAL AND REINSTALLATION (OR PROTECTION IN PLACE) OF EXISTING ELECTRICAL EQUIPMENT AND DEVICES WITH THE WORK OF OTHER TRADES TO REPLACE OR REFINISH EXISTING WALLS AND CEILINGS.
- WHERE EXISTING CIRCUITS ARE BEING REMOVED IN EXISTING PANELS, PROVIDE A NEW, NEATLY TYPED DIRECTORY WHICH INDICATES WHERE "SPARE" BREAKERS ARE LOCATED. ANY EXISTING BREAKERS THAT ARE NOT FEEDING DEVICES SHALL REMAIN AND BE LABELED AS A "SPARE."
- WHERE NEW LOADS ARE CONNECTED TO EXISTING PANELS, AND WHERE LOADS ARE REARRANGED IN EXISTING PANELS AS PART OF THIS PROJECT, UPDATE THE RESPECTIVE PANEL DIRECTORY SO AS TO PROVIDE A COMPLETE, ACCURATE, AND TYPENRITTEN PANEL SCHEDULE. THE NEW PANEL SCHEDULE SHALL INCORPORATE ALL EXISTING LOADS, INCLUDING LOADS "EXISTING TO REMAIN". PROVIDE ALL REQUIRED TESTING AND INVESTIGATIONS NECESSARY TO ACCOMPLISH THIS WORK.

INDEX - ELECTRICAL SHEETS

E0.0	ELECTRICAL COVER SHEET
E1.0	ELECTRICAL SITE PLAN
E2.0	ELECTRICAL PLAN
E3.0	RISER DIAGRAM & SCHEDULES
E4.0	ELECTRICAL DETAILS & SCHEDULES

SOUTHWOOD PARK IMPROVEMENTS
14318 PARKVIEW DRIVE
PRAIRIEVILLE, LOUISIANA
ASCENSION PARISH GOVERNMENT

DDG

9015 BLUEBONNET BLVD.
BATON ROUGE, LA 70810
225.751.4490



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SHEET

E0.0



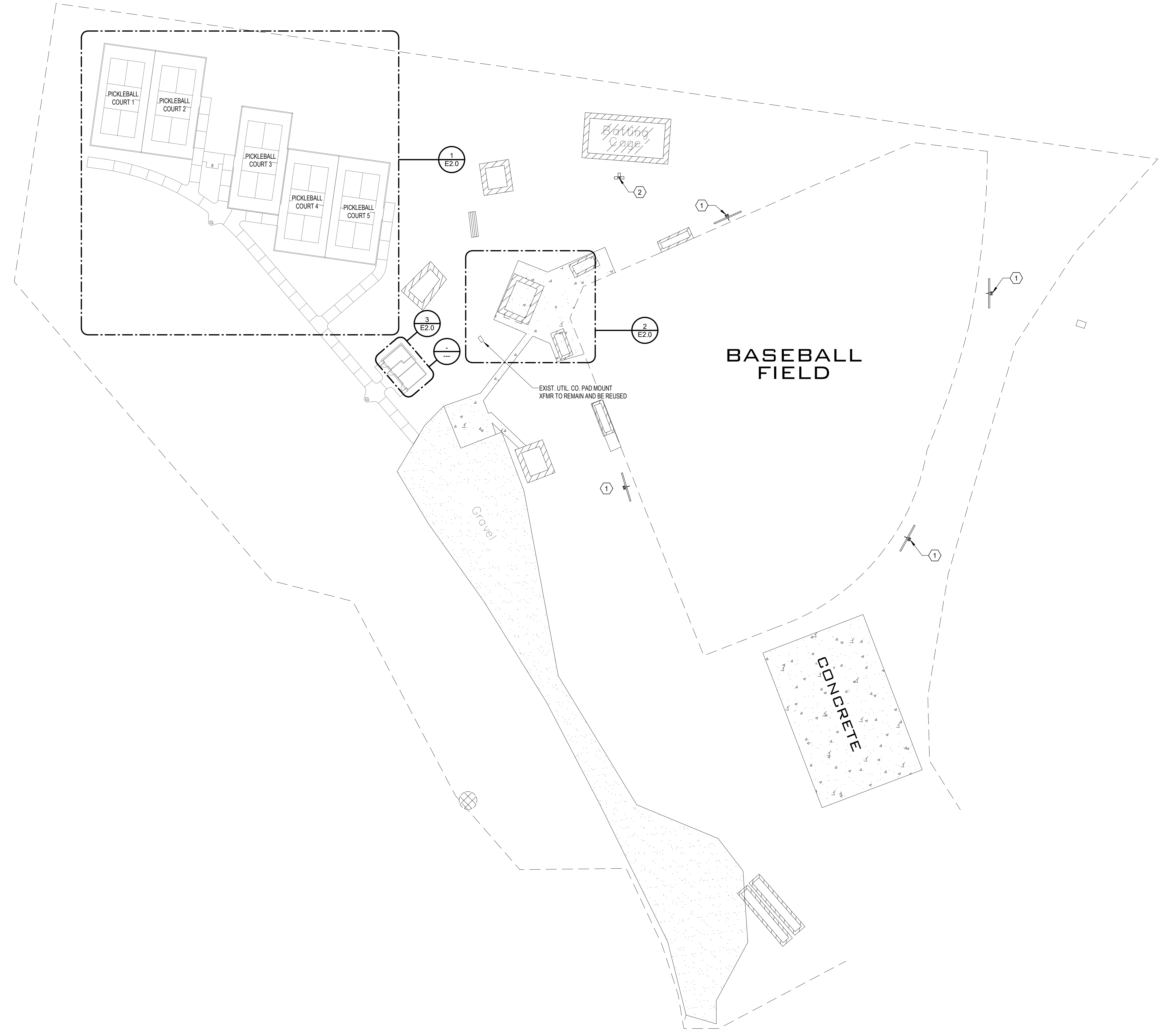
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- ELECTRICAL SITE PLAN KEYNOTES:**
- ① EXISTING LIGHTING FOR BASEBALL FIELD TO REMAIN.
 - ② EXISTING LIGHTING FOR BATTING CAGE TO REMAIN.



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1 ELECTRICAL SITE PLAN
1" = 30'-0"

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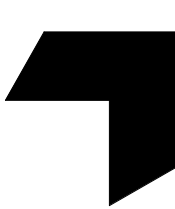
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SCHEDULE - LIGHTING FIXTURES

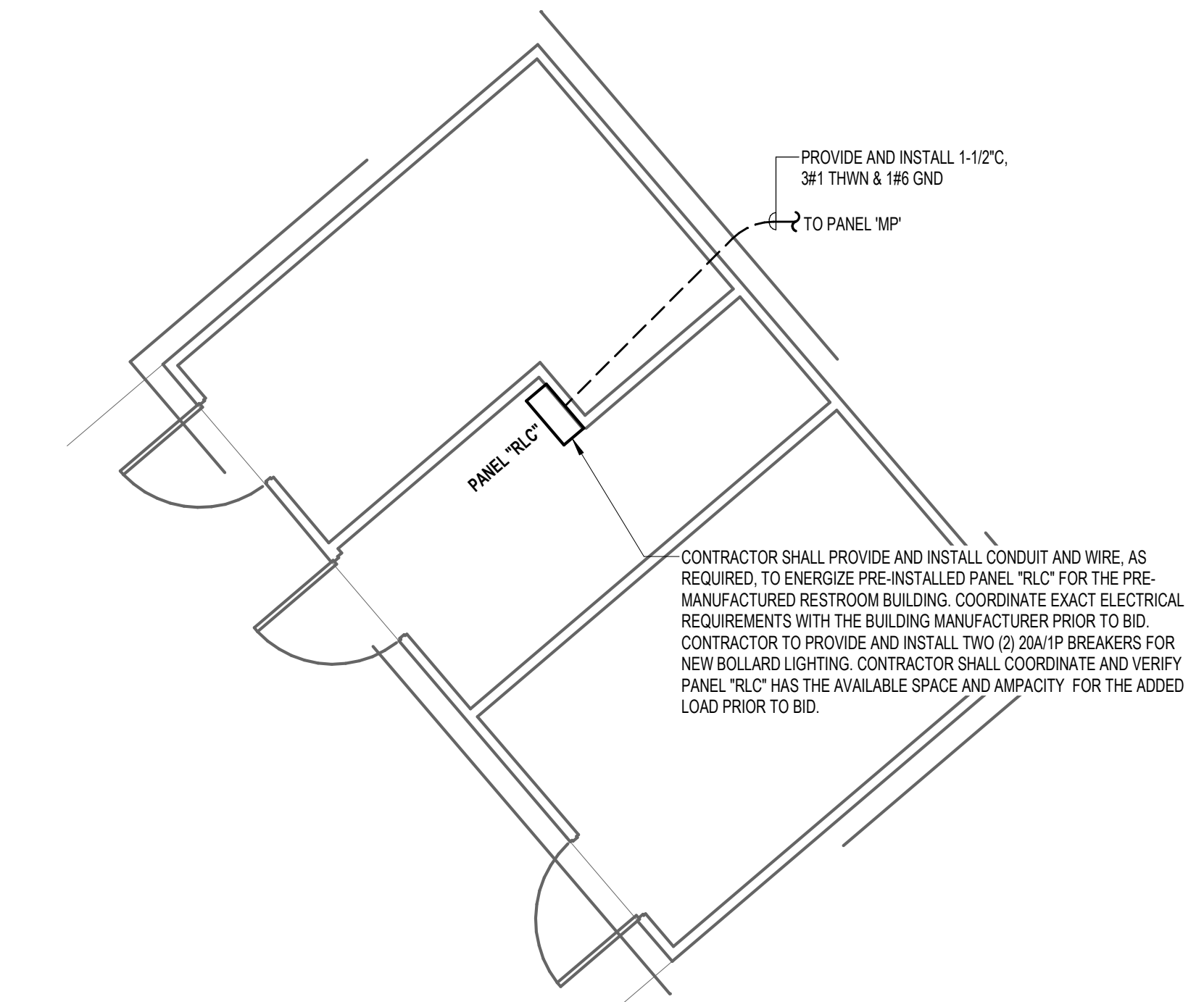
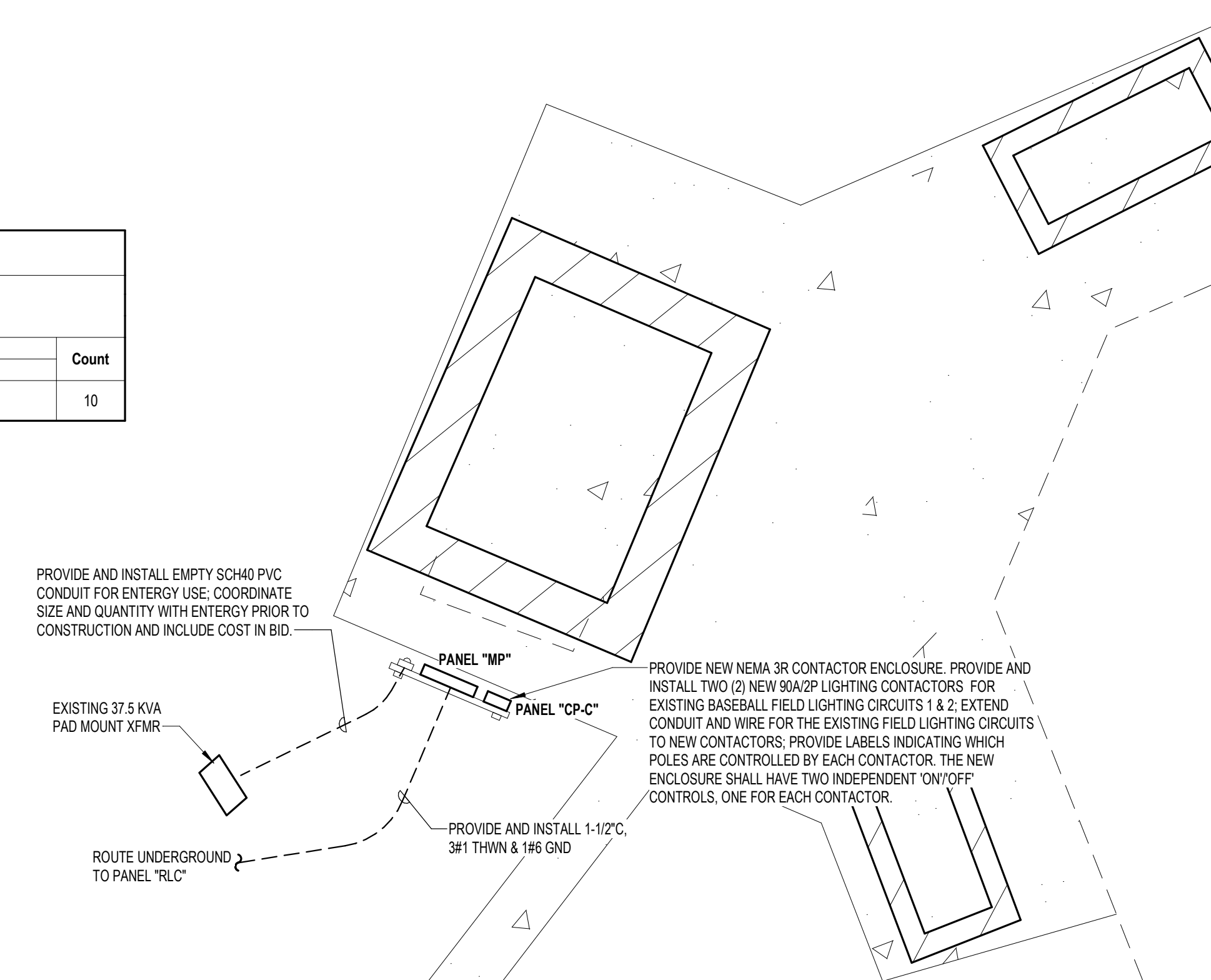
NOTES:
** FINISH TO BE SELECTED BY ARCHITECT

MARK	DESCRIPTION	LAMPS	VOLTS	LOAD	TEMP.	LUMENS	MOUNTING	BASIS OF DESIGN		ACCEPTABLE ALTERNATIVE		Count
								MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.	
B	LED FIXTURE MOUNTED ON 22' ROUND DIRECT BURIAL STEEL POLE	LED	240	648 VA	5000K	78,000	SIDE ARM-POLES	LSI INDUSTRIES INC.	ZNL 78L CT UNV 50" (FIXTURE); 5R9DB B5 S11G 22 S" (POLE)	BEACON	SVP-4-720L-600-5K8-4F-UNV-AS-1" (FIXTURE); RS-400-11-22-F-M-EMB (POLE)	10



1 ELECTRICAL PLAN - COURTS
1" = 10'-0"

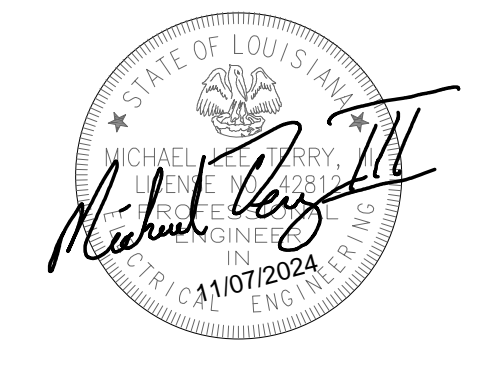
2 ELECTRICAL PLAN - CONCESSION BUILDING
1/8" = 1'-0"



3 ELECTRICAL PLAN - RESTROOM
1/4" = 1'-0"

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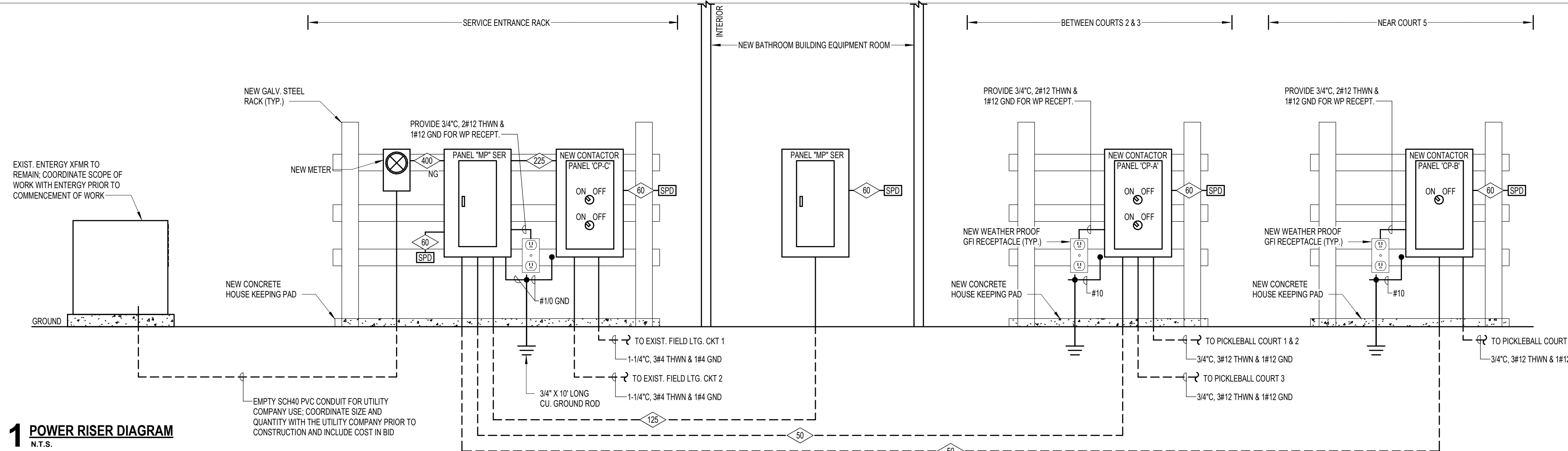
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3-WIRE FEEDER SCHEDULE			
STD. FUSE OR BKR TRIP SIZE	# OF SETS	WIRE QUANTITY AND SIZE	CONDUIT SIZE (MINIMUM)
30	1	3#10 THWN, 1#10 GND	3/4"
50	1	3#8 THWN, 1#8 GND	3/4"
60	1	3#6 THWN, 1#6 GND	1-1/4"
125	1	3#1 THWN, 1#6 GND	1-1/2"
150	1	3#1/0 THWN, 1#6 GND	2"
225	1	3#4/0 THWN, 1#4 GND	2"
400	2	3#3/0 THWN, 1#3 GND	2-1/2"
600	2	3#350 THWN MCM, 1#1 GND	3"
800	3	3#300 THWN MCM, 1#1/0 GND	3"

NOTES:
 1. ALL FEEDER SIZES LISTED MAY NOT BE SHOWN IN POWER RISER DIAGRAM.
 2. ELECTRICAL CONTRACTOR TO VERIFY SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
 3. REFER TO THE LATEST EDITION OF THE NEC FOR CONDUIT TYPES REQUIRED PER THEIR TABLES.
 4. ALL CONDUCTORS TO BE COPPER.
 5. *"VD" INDICATES WIRE UPSIZED FOR VOLTAGE DROP.
 6. *"NG" INDICATES NO GROUND CONDUCTOR REQUIRED.

1 POWER RISER DIAGRAM
N.T.S.

Branch Panel: MP															
Location: SERVICE ENTRANCE RACK					Volts: 120/240					A.I.C. Rating: 10,000					
Supply From: SURFACE					Phases: 1					Mains Rating: 400 A					
Mounting: SURFACE					Wires: 3					MCB Rating: 400 A					
Enclosure: NEMA-3R					Number of Sections:					Panel Schedule Notes:					
PANEL SHALL BE SERVICE ENTRANCE RATED															
CKT	Trip	Poles	Wire	GRND	Conduit	Circuit Description	A	B	Circuit Description	Conduit	GRND	Wire	Poles	Trip	CKT
1	125 A	2	3#1	#6	1-1/2"	PANEL 'RLC'	6159 VA	2124 VA	CP-A	3/4"	#8	3#8	2	50 A	2
3	--	1	--	--	--	SPACE	--	--	SPACE	--	--	--	1	--	4
5	50 A	2	3#8	#8	3/4"	CP-B	1476 VA	16000 VA	CP-C	2"	#4	3#4/0	2	225 A	6
7	20 A	1	2#12	#12	3/4"	WP RECEPT	180 VA	--	SPACE	--	--	--	1	--	10
9	--	1	--	--	--	SPACE	--	--	SPACE	--	--	--	1	--	12
11	--	1	--	--	--	SPACE	--	--	SPACE	--	--	--	1	--	14
13	--	1	--	--	--	SPACE	--	--	SPACE	--	--	--	1	--	16
15	--	1	--	--	--	SPACE	--	--	SPACE	--	--	--	1	--	18
17	--	1	--	--	--	SPACE	--	0 VA	SPD	--	--	--	2	60 A	18
							25937 VA	24990 VA							
							216.14 A	208.25 A							
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals							
Receptacle		1900 VA		100.00%		1900 VA		Total Conn. Load:		50926 VA					
Receptacle		900 VA		100.00%		900 VA		Total Est. Demand:		60558 VA					
Lighting		38526 VA		125.00%		48158 VA		Total Conn.:		212 A					
Water Heating		9600 VA		100.00%		9600 VA		Total Est. Demand:		252 A					
Load Summary Notes:															

Branch Panel: CP-A															
Location: INTERIOR					Volts: 120/240					A.I.C. Rating: 10,000					
Supply From: MP					Phases: 1					Mains Rating: 50 A					
Mounting: SURFACE					Wires: 3					MCB Rating: 50 A					
Enclosure: NEMA-3R					Number of Sections:					Panel Schedule Notes:					
PANEL SHALL BE SERVICE ENTRANCE RATED															
CKT	Trip	Poles	Wire	GRND	Conduit	Circuit Description	A	B	Circuit Description	Conduit	GRND	Wire	Poles	Trip	CKT
1	20 A	1	2#12	#12	3/4"	WP RECEPT	180 VA	1296 VA	COURT 1 & 2	3/4"	#12	3#12	2	20 A	2
3	20 A	2	3#12	#12	3/4"	COURT 3	648 VA	--	SPACE	--	--	--	1	--	4
5	--	1	--	--	--	SPACE	--	--	SPACE	--	--	--	1	--	6
7	--	1	--	--	--	SPACE	--	--	SPACE	--	--	--	1	--	8
							2124 VA	1944 VA							
							17.7 A	16.2 A							
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals							
Receptacle		180 VA		100.00%		180 VA		Total Conn. Load:		4068 VA					
Lighting		3888 VA		125.00%		4860 VA		Total Est. Demand:		5040 VA					
								Total Conn.:		17 A					
								Total Est. Demand:		21 A					
Load Summary Notes:															

Branch Panel: CP-B															
Location: INTERIOR					Volts: 120/240					A.I.C. Rating: 10,000					
Supply From: MP					Phases: 1					Mains Rating: 50 A					
Mounting: SURFACE					Wires: 3					MCB Rating: 50 A					
Enclosure: NEMA-3R					Number of Sections:					Panel Schedule Notes:					
PANEL SHALL BE SERVICE ENTRANCE RATED															
CKT	TRIP	POLES	WIRE	GND	CONDUIT	Circuit Description	A	B	Circuit Description	CONDUIT	GND	WIRE	POLES	TRIP	CKT
1	20 A	1	2#12	#12	3/4"	WP RECEPT	0.2 kVA	1.3 kVA	COURT 4 + 5	3/4"	#12	3#12	2	20 A	2
3	--	1	--	--	--	SPACE	--	1.3 kVA	SPACE	--	--	--	1	--	4
5	--	1	--	--	--	SPACE	--	--	SPACE	--	--	--	1	--	6
7	--	1	--	--	--	SPACE	--	--	SPACE	--	--	--	1	--	8
							1476 VA	1296 VA							
							12 A	11 A							
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals							
Receptacle		180 VA		100.00%		180 VA		Total Conn. Load:		2772 VA					
Lighting		2592 VA		125.00%		3240 VA		Total Est. Demand:		3420 VA					
								Total Conn.:		12 A					
								Total Est. Demand:		14 A					
Load Summary Notes:															

Branch Panel: CP-C															
Location: INTERIOR					Volts: 120/240					A.I.C. Rating: 10,000					
Supply From: MP					Phases: 1					Mains Rating: 225 A					
Mounting: SURFACE					Wires: 3					MCB Rating: 225 A					
Enclosure: NEMA-3R					Number of Sections:					Panel Schedule Notes:					
PANEL SHALL BE SERVICE ENTRANCE RATED															
CKT	Trip	Poles	Wire	GRND	Conduit	Circuit Description	A	B	Circuit Description	Conduit	GRND	Wire	Poles	Trip	CKT
1	90 A	2	3#4	#8	1-1/4"	EXIST. FIELD LTG. CKT 1	8000 VA	8000 VA	EXIST. FIELD LTG. CKT 1	1-1/4"	#8	3#4	2	90 A	2
3	--	1	--	--	--	SPACE	--	8000 VA	SPACE	--	--	--	1	--	4
5	--	1	--	--	--	SPACE	--	--	SPACE	--	--	--	1	--	6
7	--	1	--	--	--	SPACE	--	--	SPACE	--	--	--	1	--	8
							16000 VA	16000 VA							
							133.33 A	133.33 A							
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals							
Lighting		32000 VA		125.00%		40000 VA		Total Conn. Load:		32000 VA					
								Total Est. Demand:		40000 VA					
								Total Conn.:		133 A					
								Total Est. Demand:		167 A					
Load Summary Notes:															

SOUTHWOOD PARK IMPROVEMENTS
 14318 PARKVIEW DRIVE
 PRAIRIEVILLE, LOUISIANA
 ASCENSION PARISH GOVERNMENT



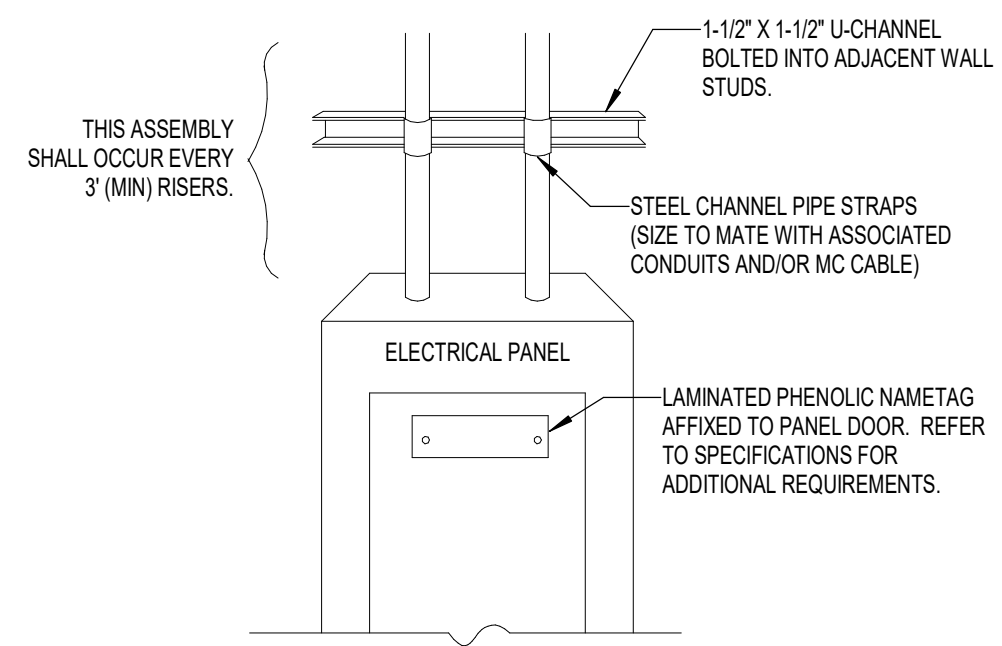
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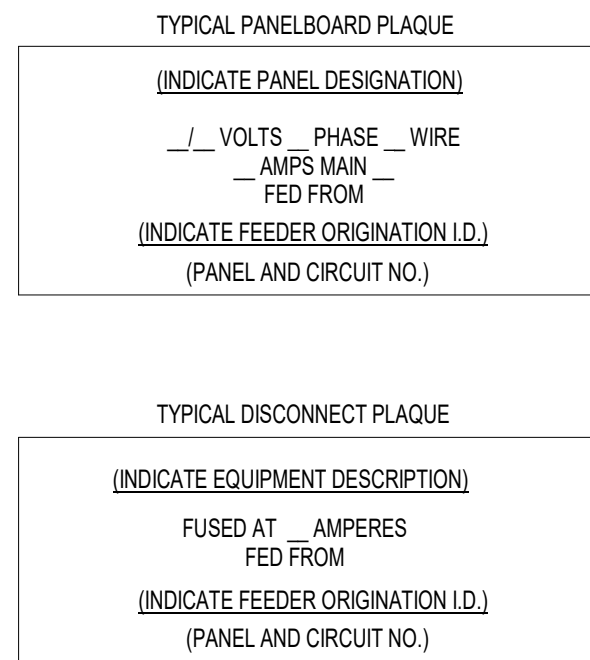


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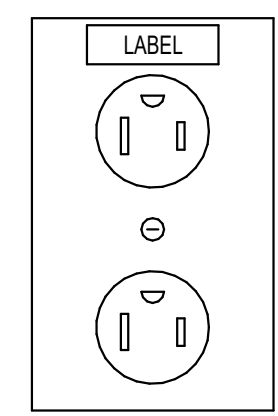
1 DETAIL - CONDUIT SUPPORT
N.T.S.



2 DETAIL - EQUIPMENT SIGNAGE
N.T.S.

SEE SPECIFICATIONS FOR MATERIALS, COLORS SIZE LETTERING, ETC.

ATTACH PLAQUES USING INDUSTRIAL GRADE DOUBLE FACE ADHESIVE.



3 DETAIL - RECEPTACLE LABELING
N.T.S.

Branch Panel: RLC

Location: _____
Supply From: MP
Mounting: SURFACE
Enclosure: NEMA-1
Number of Sections: _____

Volts: 120/240
Phases: 1
Wires: 3

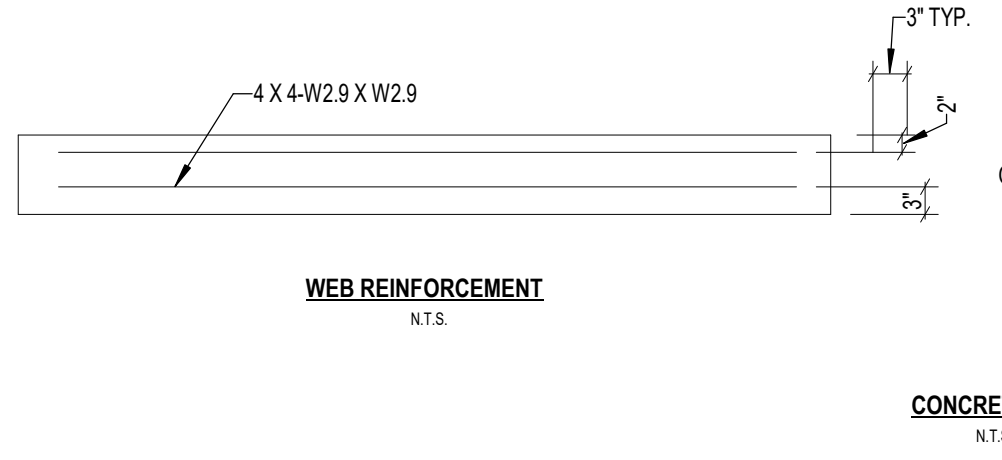
A.I.C. Rating: 10,000
Mains Rating: 150 A
MCB Rating: 125 A

Panel Schedule Notes:
 * PRE-INSTALLED CONDUIT AND WIRE FOR PRE-INSTALLED LOADS
 SCHEDULE PROVIDED FOR REFERENCE ONLY. COORDINATE PANEL SUPPLIED WITH BUILDING WITH THE BUILDING SUPPLIER.

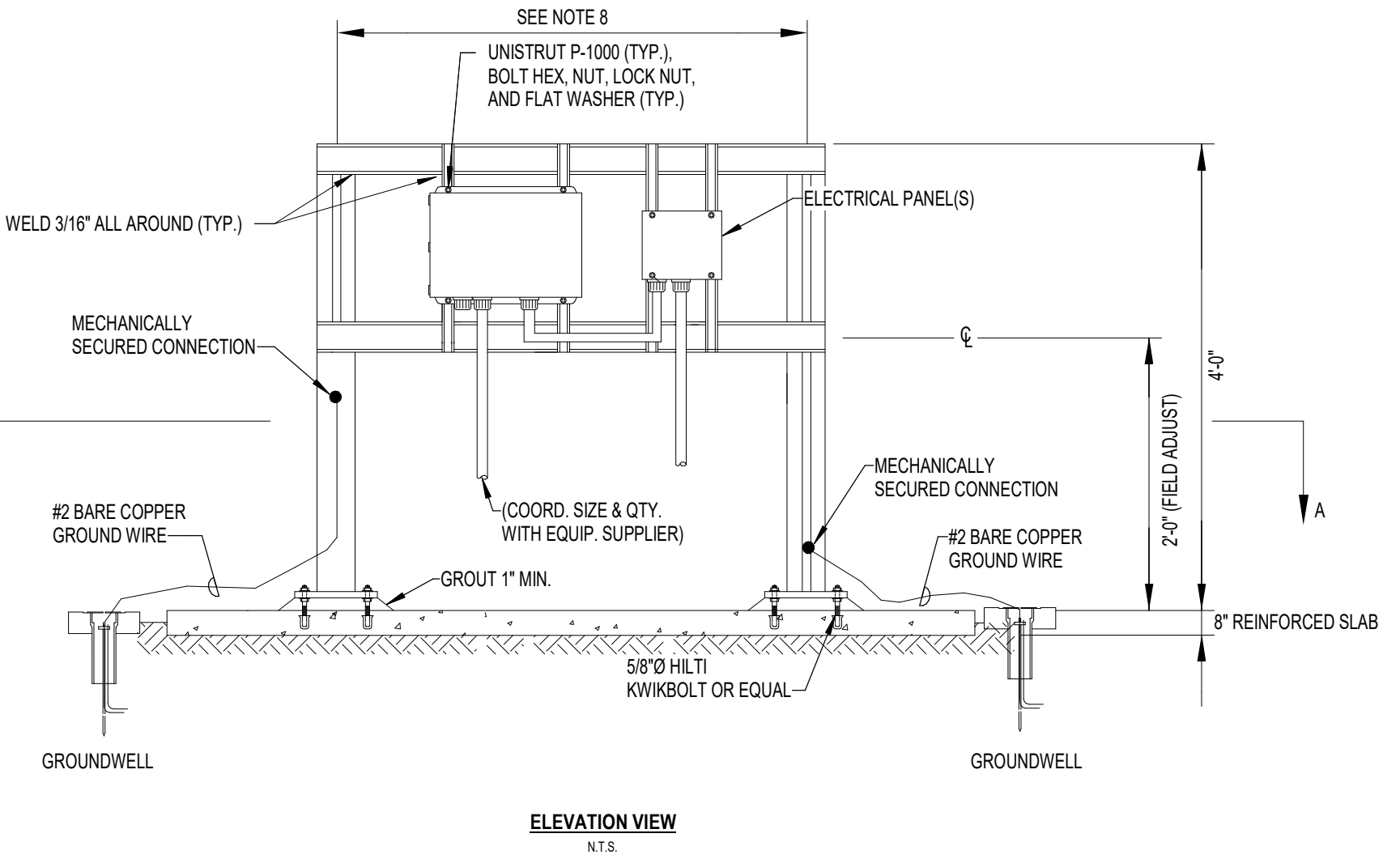
CKT	Trip	Poles	Wire	GRND	Conduit	Circuit Description	A		B		Circuit Description	Conduit	GRND	Wire	Poles	Trip	CKT
							VA	AMP	VA	AMP							
1	20 A	1	*	*	*	PRE-INSTALLED	360 VA	2400 VA	2400 VA	2400 VA	PRE-INSTALLED	*	*	*	2	20 A	2
3	20 A	2	*	*	*	PRE-INSTALLED	2400 VA	475 VA	475 VA	475 VA	PRE-INSTALLED	*	*	*	2	20 A	4
5	20 A	2	*	*	*	PRE-INSTALLED	2400 VA	475 VA	475 VA	475 VA	PRE-INSTALLED	*	*	*	2	20 A	6
7	20 A	2	*	*	*	PRE-INSTALLED	475 VA	197 VA	197 VA	197 VA	PRE-INSTALLED	*	*	*	1	20 A	8
9	20 A	2	*	*	*	PRE-INSTALLED	475 VA	197 VA	197 VA	197 VA	PRE-INSTALLED	*	*	*	1	20 A	10
11	20 A	1	--	--	--	SPARE	0 VA	0 VA	0 VA	0 VA	SPARE	--	--	--	1	20 A	12
13	20 A	1	--	--	--	SPARE	0 VA	0 VA	0 VA	0 VA	SPARE	--	--	--	1	20 A	14
15	20 A	1	--	--	--	SPARE	0 VA	0 VA	0 VA	0 VA	SPARE	--	--	--	1	20 A	16
17	20 A	1	--	--	--	SPARE	0 VA	0 VA	0 VA	0 VA	SPARE	--	--	--	1	20 A	18
19	20 A	1	--	--	--	SPARE	0 VA	0 VA	0 VA	0 VA	SPARE	--	--	--	1	20 A	20
21	20 A	1	--	--	--	SPARE	0 VA	0 VA	0 VA	0 VA	SPD	--	--	--	2	60 A	22
23	20 A	1	--	--	--	SPARE	0 VA	0 VA	0 VA	0 VA	SPD	--	--	--	2	60 A	24
							6159 VA	5750 VA	5750 VA	5750 VA							
							51.32 A	47.92 A	47.92 A	47.92 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Heating	1900 VA	100.00%	1900 VA	Total Conn. Load: 11908 VA
Receptacle	360 VA	100.00%	360 VA	
Lighting	197 VA	125.00%	247 VA	Total Est. Demand: 11920 VA
Water Heating	9600 VA	100.00%	9600 VA	Total Conn.: 49.61 A
				Total Est. Demand: 49.67 A

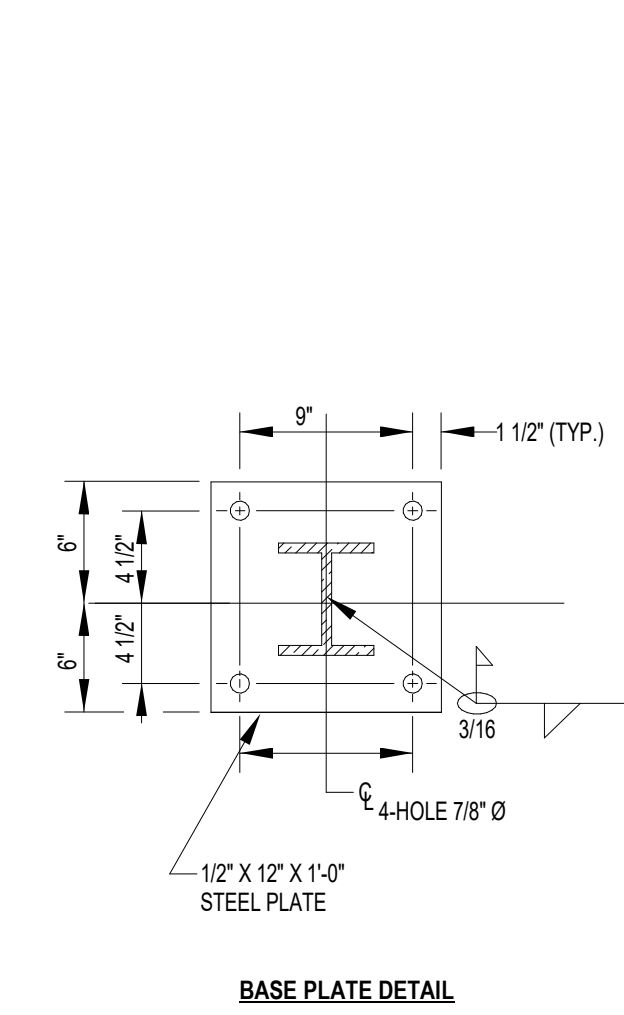
Load Summary Notes:



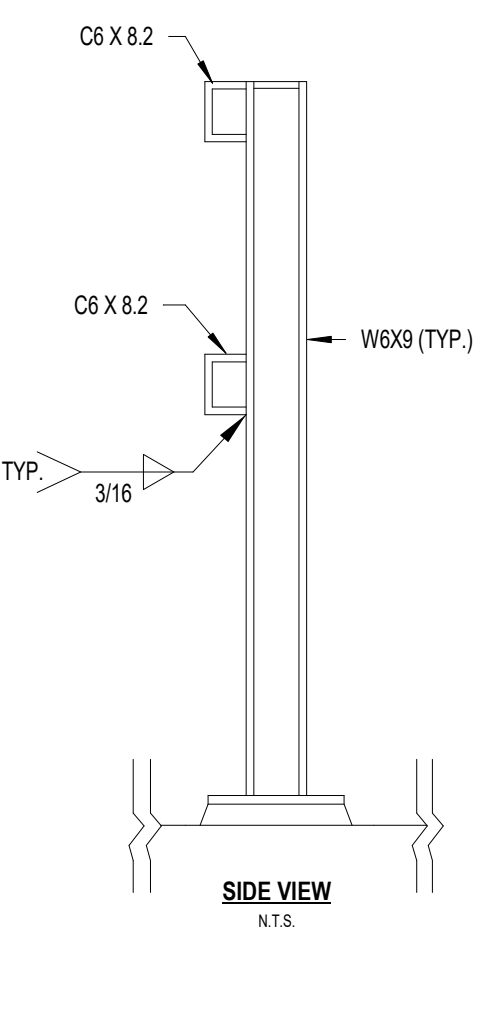
4 DETAIL - ELECTRICAL SWITCH RACK
N.T.S.



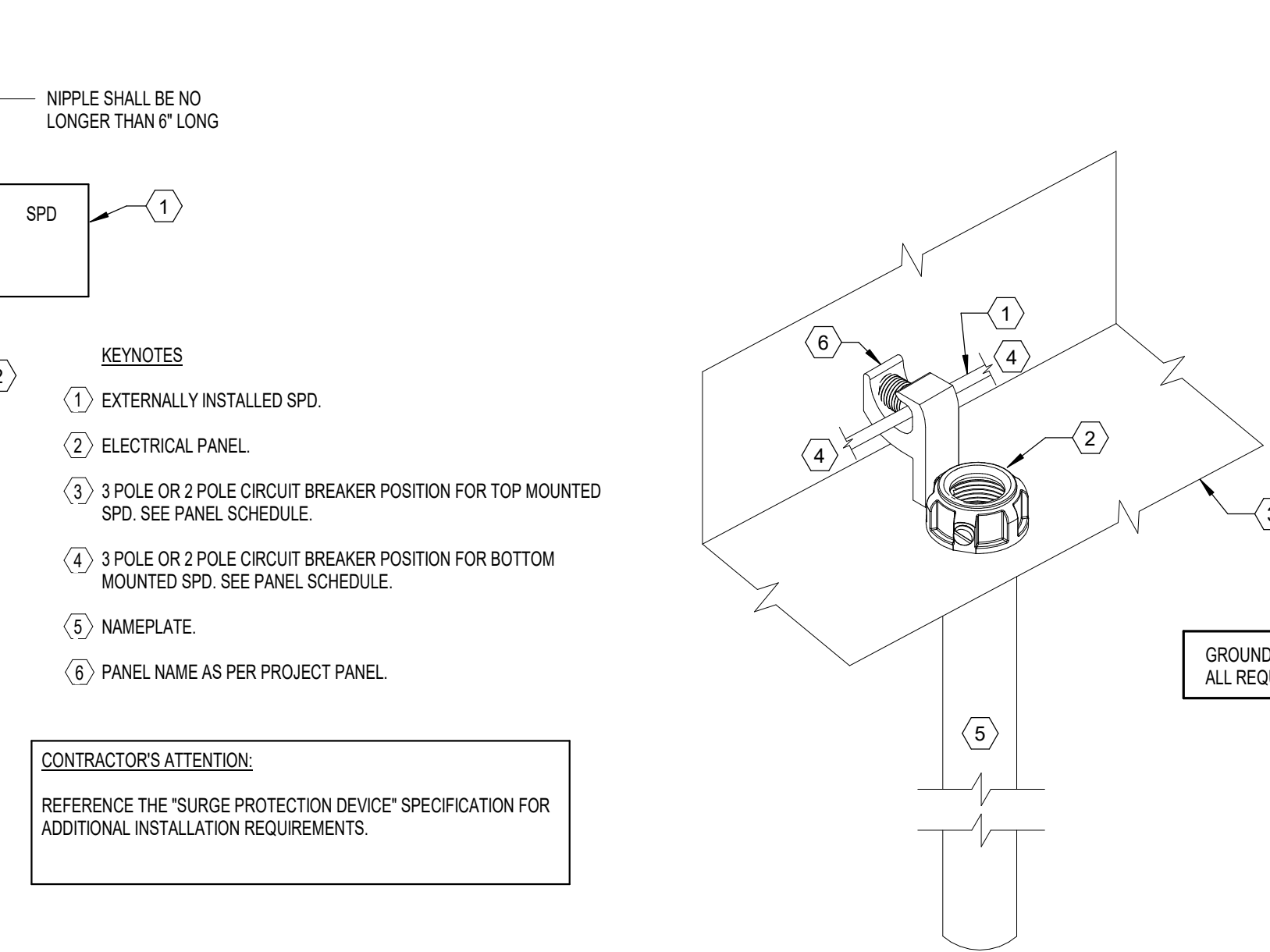
- SWITCH RACK NOTES:**
- VERIFY ALL DIMENSIONS BEFORE FABRICATION.
 - REMOVE BURRS AND GRIND SHARP CORNERS AND EDGES. TOUCH UP AS REQUIRED AFTER WELDING AND DRILLING.
 - FIELD GROUT UNDER BASE PLATE.
 - ANCHOR BOLTS SHALL BE 4 INCH IN CONCRETE AND SHALL BE PROVIDED WITH HEX NUTS AND WASHERS. ALL ALUMINUM SHALL BE 6061.
 - MINIMUM CONCRETE STRENGTH SHALL BE 3000 PSI.
 - MAXIMUM OF 6 FEET BETWEEN SUPPORT COLUMNS.
 - ALL UNISTRUT SHALL BE ALUMINUM TYPE.



5 DETAIL - STUB-UP
N.T.S.



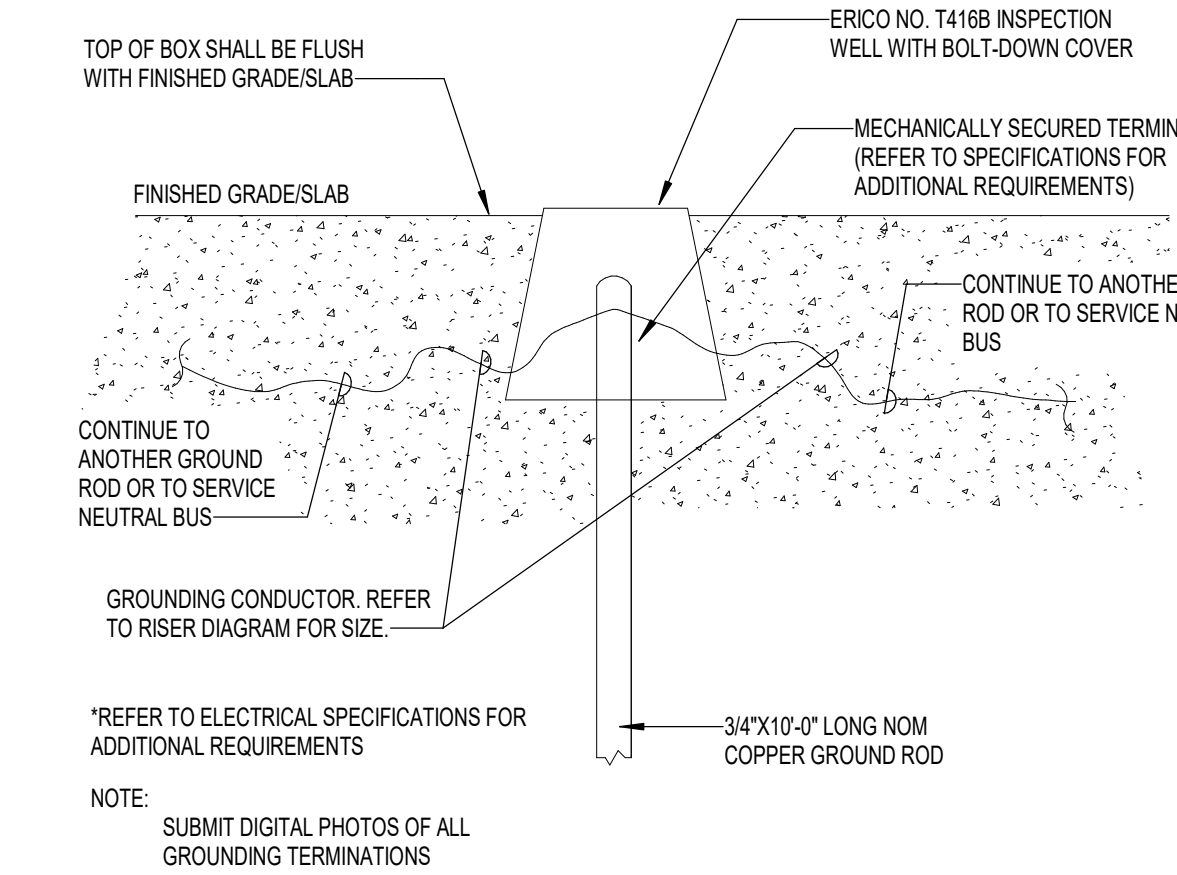
6 DETAIL - EXTERNAL SPD INSTALLATION
N.T.S.



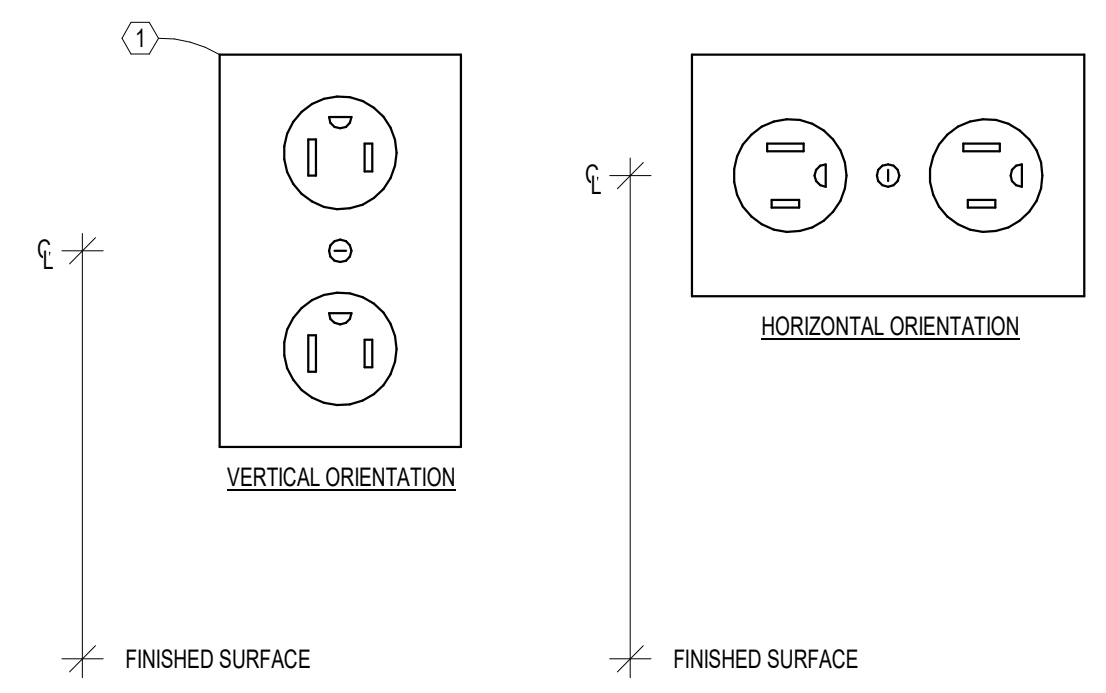
7 DETAIL - CONDUIT GROUND BUSHING
N.T.S.

- DETAIL KEYNOTES**
- SUPPLY SIDE EQUIPMENT BONDING JUMPER.
 - UL 467 LISTED GROUNDING BUSHING BY APPLETON, EATON, OR APPROVED EQUIVALENT.
 - ENCLOSURE.
 - TO ENCLOSURE GROUND BUS OR ADDITIONAL CONDUITS (AS REQUIRED).
 - INCOMING CONDUIT.
 - INTEGRAL BRACKET FOR ATTACHMENT OF BONDING JUMPER.

GROUNDING INSTALLATION SHALL MEET ALL REQUIREMENTS OF NEC 250.92.



8 DETAIL - GROUND ROD INSTALLATION
N.T.S.



9 DETAIL - RECEPTACLE
N.T.S.

- KEYNOTES**
- REFER TO SPECIFICATIONS FOR RECEPTACLE REQUIREMENTS.
 - UNLESS DENOTED OTHERWISE ON PLANS, MOUNTING HEIGHT IS FROM FINISHED SURFACE (FLOOR/GRADE/COUNTER TOP/ETC...) TO CENTERLINE OF DEVICE.

SOUTHWOOD PARK IMPROVEMENTS
 14318 PARKVIEW DRIVE
 PRAIRIEVILLE, LOUISIANA
 ASCENSION PARISH GOVERNMENT

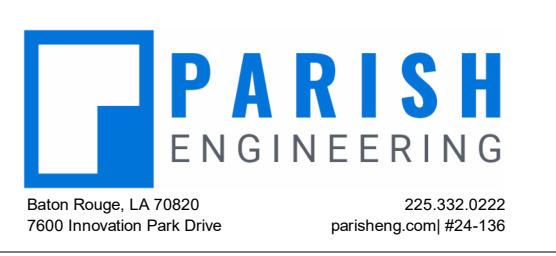
DDG
 9015 BLUEBONNET BLVD.
 BATON ROUGE, LA 70810
 225.751.4490



PROJECT NO. 24-1442
 ISSUED FOR BID
 11/07/2024

CHECKED SPG
 DRAWN BY YAA

SHEET
E4.0



Baton Rouge, LA 70801
 225.332.0222
 parisheng.com #24-136

P:\ACTIVE PROJECTS\24-136 DDG_SOUTHWOOD PARK IMPROVEMENTS - PRAIRIEVILLE, LA\24-136 ARCH\24-136 RECD 10-21-2024\24-1442_X-TITLE-NEW.DWG

SECTION 014000

TESTING LABORATORY SERVICES

PART ONE - GENERAL

1.01 DESCRIPTION:

- A. An independent Testing Laboratory will be provided by the Owner or his representative to inspect and test the materials and methods of construction as hereinafter specified for compliance with the specification requirements of the Contract Documents and to perform such other specialized technical services as may be required by the Owner or his representative.
- B. The Owner will pay for the initial laboratory services for testing of materials for compliance with the requirements of the Contract Documents. The Contractor will pay for testing and re-testing of materials that do not comply with the requirements of the Contract Documents.
- C. Tests and Inspections shall be conducted in accordance with specified requirements, and if not specified, in accordance with the applicable standards of the American Society for Testing and Materials (ASTM) or other recognized and accepted authorities in the field.

1.02 QUALIFICATION OF LABORATORY:

- A. The Testing Laboratory selected should meet the basic requirements of ASTM E329 "Standard of Recommended Practice for Inspection and Testing Agencies for Concrete, Steel, and Bituminous Materials as Used in Construction", shall be inspected and approved by the ELF, FC & PA Joint Technical Committee, Inc. or by an equivalent recognized national authority and shall submit to the Owner, Architect, and the Engineer, a copy of the report of inspection of their facilities.
- B. The Testing Laboratory selected shall meet "Recommended Requirements for Independent Laboratory Qualification", latest edition, as published by the "American Council of Independent Laboratory Qualification".
- C. Testing machines shall be calibrated at intervals not exceeding 12 months by devices of accuracy traceable to the National Bureau of Standards or accepted values of natural physical constants. The testing laboratory shall submit a copy of certificate of calibration made by an accredited calibration agency.
- D. The Testing Laboratory is only required to have testing facilities for work included in this project.
- E. The agent of the Testing Laboratory performing field sampling and field testing of concrete shall be certified by the American Concrete Institute as a Concrete Field-Testing Technician – Grade 1, or by an equivalent recognized national authority for an equivalent level of competence or shall be a Licensed Professional Engineer.

1.03 AUTHORITIES AND DUTIES OF THE LABORATORY:

- A. The Testing Laboratory shall obtain and review the project plans and specifications with the Architect and Engineer six (6) weeks prior to the start of construction. The Laboratory shall attend pre-construction conferences with the Architect, Engineer, Project Manager, General Contractor, and Material Suppliers, to coordinate materials inspection and testing

requirements with the planned construction schedule. The Laboratory will participate in such conferences throughout the course of the project.

- B. The Testing Laboratory shall be responsible for outlining a written detailed testing program conforming to the requirements as specified in the Contract Documents and in consultation with the Owner, Architect, and Engineer. The testing program shall contain an outline of inspections and tests to be performed with reference to applicable sections of the specifications or drawings and a list of personnel assigned to each portion of the work. Such testing program shall be submitted to the Owner, Architect, and Engineer five (5) weeks in advance of the start of construction so as not to delay the start of construction. It shall be the Testing Laboratory's responsibility that such program conforms to the requirements of the Specifications and falls within the Owner's budget for testing laboratory services. If the allocated budget is not sufficient to cover the services as outlined in the Specifications, it shall be the responsibility of the Laboratory to notify the Architect, Engineer, and Owner, so the start of Laboratory services can be modified accordingly prior to the start of construction. Furthermore, the Testing Laboratory shall monitor its expenditures throughout the course of the job and notify immediately the Owner, Architect and Engineer, of any significant divination from the planned testing program and budget.
- C. The Laboratory shall cooperate with the Architect, Engineer, and Contractor, and provide qualified personnel promptly on notice.
- D. The Laboratory shall perform the required inspections, sampling, and testing of materials as specified under each section and observe methods of construction for compliance with the requirements of the Contract Documents.
- E. The Laboratory shall notify the Architect and contractor first by telephone, and then in writing, of observed irregularities and deficiencies of the work and other conditions not in compliance with the requirements of the Contract Documents.
- F. The Laboratory shall submit copies of all reports of inspections and test promptly and directly to the parties named below. All reports shall contain at least the following information:
 - 1. Project Name
 - 2. Date report issued.
 - 3. Testing Laboratory name and address.
 - 4. Name and signature of inspector.
 - 5. Date of inspection and sampling.
 - 6. Date of Test.
 - 7. Identification of product and Specification section.
 - 8. Location in the project.
 - 9. Identification of inspection or test.
 - 10. Record of weather conditions and temperature (if applicable).
 - 11. Results of test regarding compliance with Contract Documents.
- G. The Laboratory shall send certified copies of test and inspection reports to the following parties:
 - 1. Two (2) copies to the Owner or his representative.
 - 2. Two (2) copies to the General Contractor.
 - 3. One (1) copy to the Architect.
 - 4. One (1) copy to the Engineer of responsibility
 - 5. One copy to the Supplier of the material tested.

- H. Upon completion of the job, the Testing Laboratory shall furnish to the Owner, Architect, and Engineer of responsibility, a statement certified by a Notary Public that all required tests and inspections were made in accordance with the requirements of the Contract Documents.
- I. The Testing Laboratory is not authorized to revoke, alter, relax, enlarge upon, or release any requirements of the Specifications or to approve or accept any portion of the work or to perform any duties of the General Contractor and his Subcontractors.

1.04 CONTRACTOR'S RESPONSIBILITY:

- A. The Contractor shall cooperate with Laboratory personnel, provide access to the work, and to manufacturer's operations.
- B. The Contractor shall provide to the Laboratory representative, samples of materials proposed for use in the work in quantities sufficient for accurate testing as specified.
- C. The Contractor shall furnish casual labor, equipment, and facilities as required for sampling and testing by the Laboratory and otherwise facilitate all required inspections and tests.
- D. The Contractor shall be responsible for notifying Owner's representative who will then contact the Testing Laboratory sufficiently in advance of operations to allow for assignment of personnel and scheduling of tests.
- E. The Contractor shall arrange with the Testing Laboratory and pay for any additional samples and tests above those required by the Contract Documents as requested by the Contractor for his convenience in performing the work.
- F. The Contractor shall pay for any additional inspections, sampling, testing, and re-testing as required when initial tests indicate work does not comply with the requirements of the Contract Documents.
- G. The Contractor shall furnish and pay for the following items:
 - 1. Soil survey of the location of borrow soil materials, samples of existing soil materials, and delivery to the Testing Laboratory.
 - 2. Samples of concrete aggregates and delivery to the Testing Laboratory.
 - 3. Concrete Coring, tests of below-strength concrete, and load tests, if ordered by the Owner, Architect, and/or Engineer.
 - 4. Certification of Portland cement.
 - 5. Tests, samples, and mock-ups of substitute material where the substitution is requested by the Contractor, and the tests are necessary in the opinion of the Owner, Architect, or Engineer to establish equality with specified items.
 - 6. Any other tests when such costs are required by the Contract Documents to be paid by the Contractor.
- H. The Contractor shall be responsible for notifying the Owner, the Architect, the Engineer, and the Testing Laboratory when the source of any material is changed after the original tests or inspections have been made.
- I. If in the opinion of the Owner, Architect or Engineer, any of the work of the contractor is not satisfactory, the Contractor shall make all tests that the Owner, Architect, or Engineer deem advisable to determine its proper construction. The Owner shall pay all costs if the tests prove the questioned work to be satisfactory.

1.05 EXTENT OF SERVICES FOR EARTHWORK:

- A. Moisture Density Relationship for Natural and Fill Materials:
1. The Testing Laboratory will provide one (1) optimum moisture density curve for each type of soil, natural, imported fill, or on-site fill, encountered in subgrade and fills under building slabs and paved areas. Curves shall be generated in accordance with ASTM D698.
- B. Quality Control Testing Required During Construction:
1. The Testing Laboratory shall inspect and approve the following subgrades and fill layers before further construction work is performed there on:
 - a. Paved Area Subgrade: Make at least one (1) field density test of the natural density test of the natural subgrade for every 2,500 square feet of paved area or building slab, but in no case less than three (3) tests. In each compacted fill layer, make one (1) field density test for every 2,500 square of building slab on paved area, but in no case less than three (3) tests.
 2. Field Density Test shall be run according to ASTM D1556 (Density of Soil in Place by the Sand Cone Method), ASTM D2167 (Density of Soil in Place by the Rubber Balloon Method) or ASTM D2922 (Density of Soil and Soil Aggregate in Place by Nuclear Methods) as applicable.
 3. The results of field density tests by the Testing Laboratory will not be considered satisfactory unless their value meet the required density.
 4. The Testing Laboratory shall submit all moisture density curves and results of field density tests to the parties listed under Section 1.03G.
 5. If reports by the Testing Laboratory indicate field densities lower than specified above, additional tests will be run by the Testing Laboratory with at least the frequencies scheduled above on re-compacted fill and/or natural subgrade. The Testing Laboratory shall notify the Contractor on a timely basis for any required re-testing so as not to delay the work. The costs of such tests shall be borne by the Contractor.
 6. The Geotechnical Engineer shall provide inspection service of each dug footing subgrade prior to pouring foundation concrete. Such inspection shall verify that field conditions are consistent with soil report test results and that the foundation is being installed in the proper soil strata at the proper elevation.
 7. The Geotechnical Engineer shall submit written field inspection reports promptly after inspection to all parties listed in 1.3 G and report his findings after each inspection by telephone to the Structural Engineer.

1.06 EXTENT OF SERVICE FOR CONCRETE MATERIALS AND POURED IN-PLACE CONCRETE: -

- A. Concrete Test Cylinders:
1. Cylinders for strength tests shall be molded and laboratory cured in accordance with ASTM C31 "Method of Making and Curing Concrete Test Cylinders in the Field" and tested in accordance with ASTM C39 "Method of Testing for Compressive Strength of Cylindrical Concrete Specimens".
 2. Field samples for strength tests shall be taken in accordance with ASTM C172 "Method of Sampling Fresh Concrete".
 3. Frequency of Testing: Each set of test cylinders shall consist of a minimum of four (4) standard test cylinders. A set of test cylinders shall be made according to the following frequency:

- a. One (1) set for each class of concrete taken not less than once a day.
- b. For all other concrete, a minimum of one (1) set for each 100 cubic yards or fraction thereof.
- c. No more than one (1) set of cylinders at a time shall be made from any single truck.
- d. If the total volume of concrete is such that the frequency of testing as specified above would provide less than five (5) strength tests for a given class of concrete, tests shall be made from at least five (5) randomly selected batches or from each batch if fewer than five batches are used.
- e. The above frequencies assume that one (1) batch plant will be used for each pour. If more than one (1) batch plant is used, the frequencies cited above shall apply for each plant used.

The cylinders shall be numbered, dated, and the point of concrete placement in the building recorded. Of the four (4) cylinders per set, break one at seven days, two at 28 days, and one automatically at 56 days if either 28-day cylinder break is below required strength. One (1) additional cylinder per set will be required for formed slab and pan joist floors for the purpose of evaluating the concrete strength at the time of form stripping.

The cylinder shall be stored on the floor where form removal is to occur under the same exposure conditions as the floor concrete.

This cylinder shall be cured under field conditions in accordance with ASTM C31 "Method of Making and Curing Concrete Test Specimen in the Field". Field cured test cylinders shall be molded at the same time and from the same samples as laboratory cured test specimens. This cylinder shall be broken at the time of form removal as directed by the Contractor.

4. For concrete with design strength in excess of 5,000 PSI, the Contractor shall be responsible for providing a temperature controlled and protected concrete cylinder storage box at a point on the job site mutually agreeable with the Testing Laboratory for the purpose of storing concrete cylinders until they are transported to the Laboratory.
5. The Testing Laboratory shall be responsible for transporting the cylinders to the Laboratory in a protected environment such that no damage or ill effect will occur to the concrete cylinders.
6. The Testing Laboratory shall make and distribute concrete test reports after each job cylinder is broken. Such reports shall contain the following information:
 - a. Truck number and ticket number.
 - b. Concrete Batch Plant
 - c. Mix design number.
 - d. Accurate location of pour in the structure.
 - e. Strength requirement.
 - f. Date cylinders made and broken.
 - g. Technician making cylinders.
 - h. Concrete temperature at placing.
 - i. Air temperature at point of placement in the structure.
 - j. Amount of water added to the truck at the batch plant and at the site.
 - k. Slump
 - l. Unit weight.
 - m. Air Content

- n. Cylinder compressive strengths with type of failure if concrete does not meet Specification requirements. Seven (7) day breaks are not to be flagged if they are less than 70% of the required 28-day strength. 28-day breaks are to be flagged if either cylinder fails to meet Specification requirements.

B. Other Tests of Concrete Required by the Testing Laboratory:

1. Slump tests (ASTM C143) shall be made at the beginning of concrete placement for each batch plant and for each set of test cylinders made.
2. Air entrainment (ASTM C233) tests shall be made at the same time slump tests are made as cited above.
3. Concrete Temperature at placement at the same time slump tests are made as cited above.

B. Evaluation and Acceptance of Concrete:

1. A strength test shall be defined as the average strength of two (2) 28-day cylinder breaks from each set of cylinders.
2. The strength level of an individual class of concrete shall be considered satisfactory if both of the following requirements are met:
 - a. The average of all sets of three (3) consecutive strength tests equal or exceed the required concrete strength.
 - b. No individual strength tests (average of two (2) 28-day cylinder breaks) fall below the required strength by more than 500 PSI.
 - c. If either of the above requirements is not met, the Testing Laboratory shall immediately notify the Engineer by telephone. Steps shall immediately be taken to increase the average of subsequent strength tests.

D. Investigation of Low Strength Concrete Test Results:

1. If any strength test of laboratory cured cylinders fall below the required strength by more than 500 PSI, the Contractor shall take steps immediately to assure that the load carrying capacity of the structure is not jeopardized.
2. The Testing Laboratory shall, under the direction of the Engineer, perform non-destructive field test of the concrete in question using Swiss Hammer, Windsor Probe, or other appropriate methods and report the results the same as for cylinder test reports.
3. If the likelihood of low strength concrete is confirmed and computations indicate that the load carrying capacity of the structure has been significantly reduced, tests of cores drilled from the area in question under the direction of the Engineer will be required in accordance with ASTM C42 (Method of Obtaining and Testing Drilled Cores and Saws Beams of Concrete). In such case, three (3) cores shall be taken for each strength test more than 500 PSI below required PSI. If concrete in the structure will be dry under service conditions, cores shall be air dried (temperature 60 degrees to 80 degrees, relatively humidity less than 60 percent) for seven (7) days before test and shall be tested dry. If concrete in the structure will be more than superficially wet under service conditions, cores shall be immersed in water for at least 48 hours and tested wet. The Contractor shall fill all holes made by drilling cores with an approved dry-pack concrete.
4. Concrete in an area represented by core test shall be considered structurally adequate if the average of three (3) cores is equal to at least 85% of PSI and if no single core is less than 75% of PSI. To check testing accuracy, locations of erratic core strengths may be re-tested.
5. If the above criteria are not met, and the structure adequacy remains in doubt, the Engineer may order a load test, as specified in ACI 318 for the questionable portion of

the structure.

6. If the structural adequacy of the affected portion of the structure remains in doubt, the Engineer may order the structure to be strengthened by an appropriate means or torn down and re-built.
7. The costs of all investigations of low strength concrete shall be borne by the Contractor.

E. Job Site Inspection by the Testing Laboratory: The scope of the work to be performed by the inspector on the job site shall be as follows:

1. Verify that air temperatures at the point of placement in the structure are within acceptable limits defined in Section J prior to ordering of concrete by the Contractor.
2. Inspect concrete upon arrival to verify that the proper concrete mix number, type of concrete, and concrete strength is being placed at the proper location.
3. Inspect plastic concrete upon arrival at the job site to verify proper batching. The responsibility for adding water to trucks at the job site shall rest only with a duly appointed representative mutually agreeable to the Contractor, Owner, and Engineer, prior to the start of any concrete operations.
4. Obtain concrete test cylinders as specified in Sections D.1 and D.2.
5. Perform slump tests and air entrainment tests as specified in Section D.6.
6. Record information for concrete test reports as specified in Section D.6

7. Verify that all concrete being placed meets job Specifications. Reject concrete not meeting the requirements of Section K and immediately notify the Contractor, Batch Plant Inspector, Architect, Engineer, and Owner.
8. Pick up and transport to Laboratory, cylinders cast the previous day.
9. Check concrete placing techniques to determine that concrete deposited is uniform and that vertical drop does not exceed six feet.
10. The job site inspector shall report any irregularities that occur in the concrete at the job site or test results to the Contractor, Architect, Owner, and Engineer.

F. Causes for Rejection of Concrete Delivered to the Site:

A duly appointed representative agreeable to the Architect, Owner, and Engineer, shall reject all concrete delivered to the site for any of the following reasons:

1. Wrong class of concrete (incorrect mix design number).
2. Air Temperature: Air temperature limits shall be as follows:
 - a. Cold Weather: Air temperature must be 40°F. and rising.
 - b. Hot Weather: Air temperature must be cooler than 100°F. Concrete may be placed at other air temperature ranges only with approval to the duly appointed representative.
3. Concrete with temperatures exceeding 95°F. may not be placed in the structure without approval of the job inspector for the Testing Laboratory or other duly appointed representative.
4. Air contents outside the limits specified in the mix designs.
5. Slumps outside the limits specified in Section C.6 or the mix designs.
6. Excessive Age: Concrete shall be discharged within 90 minutes of plant departure or before it begins to set if sooner than 90 minutes unless approved by the Laboratory job inspector or other duly appointed representative.

END OF SECTION