TERREBONNE PARISH CONSOLIDATED GOVERNMENT

RECREATIONAL DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA

625 BAYOU DULARGE ROAD
HOUMA, LA 70363

2 GOOGLE EARTH
NTS

ENGINEERS

ELECTRICAL
MARRERO, COUVILLION & ASSOCIATES, L.L.C.
3525 HESSMER AVENUE, SUITE 304
METAIRIE, LOUISIANA 70002

STRUCTURAL
MORPHY MAKOFSKY, INC.
336 N NORMAN C FRANCIS PKWY
NEW ORLEANS, LOUISIANA 70119

	TPR-23002 BAYOU DULARGE IDA REPAIRS	
	DWG NO.	SHEET TITLE
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3	E100	OVERALL SITE PLAN - ELECTRICAL (EXISTING & NEW)
4	E101	BALLFIELD NO.1 - ELECTRICAL
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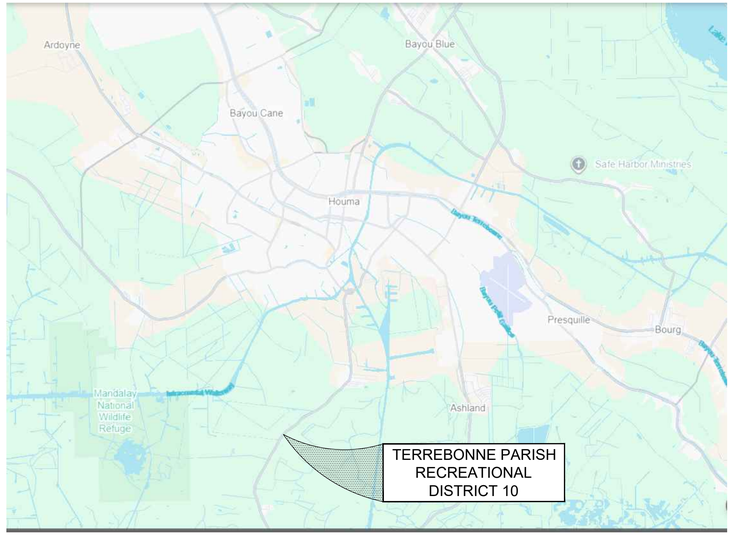

1 VICINITY MAP
NTS

MCA
Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
HOUMA, LA. 70363

STAMP:
STATE OF LOUISIANA
M. KIMBALL SCHLAFLY
REG. No. 27699
REGISTERED
PROFESSIONAL ENGINEER
09/11/2026

BY	DATE	DESCRIPTION	REV

DESIGN DAB
DRAWN GEM
CHECK MKS
SCALE AS NOTED
DATE 09/11/2026

DWG TITLE:
OVERALL SITE PLAN
EXISTING CONDITIONS

DWG No. G000

ELECTRICAL ABBREVIATIONS, SYMBOLS, AND NOTES

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, 20A, 125V, 3W, GROUNDING TYPE. VERTICAL MOUNT 18" AFF TO BOTTOM OF RECEPTACLE
	DUPLEX RECEPTACLE, 20A, 125V, 3W, WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER. VERTICAL MOUNT 18" AFF TO BOTTOM OF RECEPTACLE
WP	WEATHERPROOF DUPLEX RECEPTACLE, 20A, 125V, 3W, WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
	4-PLEX RECEPTACLE 20A, 125V, 3W, GROUNDING
	DISCONNECT OR SAFETY SWITCH
	COMBINATION STARTER AND DISCONNECT
	MOTOR
J	JUNCTION BOX
	GROUNDING PER 2020 NEC N.E.C. ARTICLE 250
	CONDUIT UP
	NEW PANELBOARD SURFACE MOUNTED
	NEW PANELBOARD RECESSED MOUNTED
	EXISTING PANELBOARD SURFACE MOUNTED
	EXISTING PANELBOARD RECESSED MOUNTED
M	METER
#	DATA RECEPTACLE, 4X4 BACKBOX WITH SINGLE GANG RING, 1" CONDUIT TO ACCESSIBLE CEILING. SUBSCRIPT INDICATES NUMBER OF PORTS WHEN OTHER THAN 2. RJ45 JACKS AND CAT6 WIRE TO PATCH PANEL. SUBSCRIPT "F" INDICATES DEVICE INSTALLED IN FURNITURE SYSTEM. SUBSCRIPT 'M' INDICATES DEVICE INSTALLED IN INTEGRATED INTERIOR ASSEMBLIES REFERENCE NOTES ON DRAWING FOR FURTHER INFORMATION
#	FIRE RATED POKE-THRU FLOOR BOX WITH DUPLEX RECEPTACLE AND 2 DATA PORTS. SUBSCRIPT INDICATES NUMBER OF PORTS WHEN OTHER THAN 2.
BF:1	SINGLE-POLE CIRCUIT DESIGNATION. CIRCUIT BREAKER NUMBER 1 IN PANEL BF SHOWN HERE.
BF:2-4	TWO-POLE CIRCUIT DESIGNATION. CIRCUIT BREAKER NUMBERS 2 AND 4 IN PANEL BF SHOWN HERE.
BF:1-3-5	THREE-POLE CIRCUIT DESIGNATION. CIRCUIT BREAKER NUMBERS 1, 3 AND 5 IN PANEL BF SHOWN HERE.

*NOTE: NOT ALL SYMBOLS ARE USED.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
XX	LIGHT FIXTURE (XX -FIXTURE TYPE)
XX	LIGHT FIXTURE - STRIP WITH LENS (XX -FIXTURE TYPE)
	EXIT LIGHTING FIXTURE. SHADED ARE DENOTES FACE; ARROW DENOTES DIRECTIONAL CHEVRONS.
	LED LIGHT
	LED AREA FLOODLIGHT
	I/P SURVIELLANCE CAMERA
$a	SINGLE-POLE TOGGLE SWITCH, 20A, VOLTAGE AS REQUIRED. SUBSCRIPT INDICATES DEVICE CONTROLLED.
$3a	THREE-WAY TOGGLE SWITCH, 20A, VOLTAGE AS REQUIRED. SUBSCRIPT INDICATES DEVICE CONTROLLED.
$4a	FOUR-WAY TOGGLE SWITCH, 20A, VOLTAGE AS REQUIRED. SUBSCRIPT INDICATES DEVICE CONTROLLED.
$O	DUAL TECHNOLOGY OCCUPANCY SENSOR WALL SWITCH WITH MANUAL ON/OFF SWITCH, 277V. ADDITIONAL SUBSCRIPT 'M' INDICATES SWITCH INSTALLED IN PRE-MANUFACTURED WALL PARTITION.
$OD	WALL SWITCH WITH SLIDE DIMMER, 0-10V CONTROL. ADDITIONAL SUBSCRIPT 'M' INDICATES SWITCH INSTALLED IN PRE-MANUFACTURED WALL PARTITION. PROVIDE 0-10V CONTROL WIRES TO FIXTURES/DRIVERS.
$M	MOMENTARY SWITCH
$LV	DIGITAL LOW-VOLTAGE WALL SWITCH, PUSH BUTTONS AS REQUIRED FOR MANUAL ON/OFF CONTROL.
P/C	PHOTOCELL
OS	LOW VOLTAGE, CEILING-MOUNTED OCCUPANCY SENSOR
LC	ROOM LIGHTING CONTROLLER, 120V, 277V, MOUNTED ABOVE CEILING, SINGLE CHANNEL, WITH CAT5E DAISY CHAIN CONNECTIONS TO LOW-VOLTAGE WALL SWITCHES, AND CEILING-MOUNTED OCCUPANCY SENSORS.
	ANTENNA

*NOTE: NOT ALL SYMBOLS ARE USED.

ELECTRICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
A	AMPERE
ABC	ABOVE COUNTER
AC	ALTERNATING CURRENT
AF	AMPERE FUSE
AFC	4' ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
KAIC	AMPS INTERRUPTING CAPACITY x1000
AT	AMPERE TRIP
ANN	ANNUNCIATOR
APPROX	APPROXIMATE
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BSMT	BASEMENT
C	CONDUIT
CAB	CABINET
CB	CIRCUIT BREAKER
CLG	CEILING
CL	CENTER LINE
CO	COPIER
CT	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
DN	DOWN
DW	DISHWASHER
DWG	DRAWING
EA	EACH
EC	EMPTY CONDUIT WITH PULL WIRE
EDF	ELECTRIC DRINKING FOUNTAIN
EF	EXHAUST FAN
ELEV	ELEVATOR
EMT	ELECTRICAL METAL TUBING
EP	EXPLOSION-PROOF
EQPT	EQUIPMENT
EXTG	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPS
FLR	FLOOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL CONDUIT
HT	HEIGHT
HTR	HEATER
HP	HORSE POWER
HW	HOT WATER
HWC	HOT WATER CIRCULATING
INCAND	INCANDESCENT
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHTING
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	CIRCULAR MILS, THOUSANDS
MECH	MECHANICAL
MFR	MANUFACTURER
MGAP	MEDICAL GAS ALARM PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
PNL	PANEL
PH	PHASE
P	POLE
PFB	PROVISIONS FOR BREAKER
PA	PUBLIC ADDRESS
RA	RANGE
RECP	RECEPTACLE
REFRIG OR R	REFRIGERATOR
REQD	REQUIRED
SN	SOLID NEUTRAL
SPKR	SPEAKER
SPEC	SPECIFICATION
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLT. SURGE SUPPRESSOR
TYP	TYPICAL
UC	UNDER COUNTER
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLTAMPERE
W	WATT
WH	WATER HEATER
WP	WEATHER-PROOF
W/	WITH
W/O	WITHOUT
XFMR	TRANSFORMER
XFR	TRANSFER

*NOTE: NOT ALL SYMBOLS ARE USED.

GENERAL SYMBOLS

SYMBOL	DESCRIPTION
	SECTION LETTER
	INDICATES DRAWING SHEET ON WHICH SECTION IS SHOWN
1	DRAWING NOTE
C22	COLUMN REFERENCE
	POINT OF CONNECTION
1	DRAWING REVISION NUMBER
	DRAWING REVISION CLOUD
	DRAWING NUMBER
	DRAWING TITLE
1 / E1 OVERALL PLAN THIRD LEVEL SCALE: 1"=25'-0"	
	DRAWING SCALE
	SHEET ON WHICH DRAWING IS LOCATED
	CONDUIT AND WIRE, MINIMUM 2#12 AWG AND 1#12 GND UNLESS NOTED OTHERWISE WITH KEYNOTE OR SCHEDULE. ARROW DENOTES HOMERUN TO PANEL. QUANTITY INDICATES NUMBER OF POLES.
	PORTION OF FEEDER CONDUIT TO BE REMOVED.

*NOTE: NOT ALL SYMBOLS ARE USED.

GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE ADOPTED VERSION NFPA 70, NATIONAL ELECTRIC CODE. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY. ANY WORK JUDGED SUBSTANDARD BY THE OWNER OR THE ENGINEER SHALL BE REDONE AT THE CONTRACTORS EXPENSE. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS, AND FEES.
2. ELECTRICAL PLANS SHOW GENERAL WORK TO BE PERFORMED BY CONTRACTOR AND HAVE BEEN PREPARED TO ASSIST THE CONTRACTOR IN PREPARING PROPOSED COST FOR THE TOTAL PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK AND FINAL BID PRICE.
3. CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS OF ALL VARIATIONS OF CONSTRUCTION DOCUMENTS TO OWNER, UPON COMPLETION OF PROJECT.
4. CONTRACTOR SHALL TEST ANY NEW INDIVIDUAL SYSTEMS, INCLUDING ALL FEEDERS, WITH A 500 VOLT DC INSULATION TESTER, (WITH A 0-200 MEGOHM FULL SCALE). ALL CONDUCTORS SHALL HAVE INSULATION TESTED WHEN WIRING SYSTEM IS COMPLETE AND A LOG KEPT OF THE CIRCUIT NAME, DATE AND MEGGER READINGS. RECORD FEEDER AND/OR BRANCH CIRCUIT NAME, READING IN OHMS, AND SUBMIT REPORT TO ENGINEER. CHECK FOR PROPER PHASE MATCH AND ROTATION ON ALL FEEDERS. ALL TEST REPORTS SHALL BE TYPED. PROVIDE ALL INSTRUMENTS, LABOR, ETC, REQUIRED FOR TESTING.
5. UPON COMPLETION OF ALL TESTS AND ACCEPTANCE, FURNISH THE OWNER A WRITTEN GUARANTEE COVERING THE ELECTRICAL WORK DONE AND NEW EQUIPMENT INSTALLED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. DURING THE GUARANTEE PERIOD THE CONTRACTOR SHALL RECTIFY AND REPLACE ANY DEFECTIVE MATERIAL OR WORKMANSHIP AND REPAIR DAMAGE CAUSED THEREBY WITHOUT ANY ADDITIONAL COST TO THE OWNER.
6. ALL PENETRATIONS THROUGH PARTITIONS, CEILINGS, FLOORS, ETC., SHALL BE PROPERLY FIRESTOPPED/SEALED TO MAINTAIN FIRE RATING.
7. PROVIDE ALL REQUIRED AND NECESSARY UNISTRUT SUPPORTS FOR ALL ELECTRICAL EQUIPMENT.
8. ALL ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO BUILDING CONSTRUCTION, UTILIZING UNISTRUT RACKS, FOR MOUNTING EQUIPMENT THERETO, UNLESS OTHERWISE SPECIFIED. UNISTRUT INSTALLED IN DAMP OR WET LOCATIONS SHALL BE HOT DIPPED GALVANIZED. MOUNT EQUIPMENT SO THAT AN AIR SPACE OF 1" MIN., IS MAINTAINED FROM ANY SURFACES.
9. ALL DISCONNECT SWITCHES SHALL BE FUSIBLE, HEAVY DUTY, WITH EXTERIOR OPERATING HANDLE WITH INTERLOCK TO ALLOW OPENING OF DOOR WITH SWITCH IN CLOSED POSITION. DISCONNECT SWITCHES SHALL BE RATED EITHER 250 OR 600 VOLTS AS REQUIRED FOR THE SYSTEM VOLTAGE. AMPERE RATINGS AND NUMBER OF POLES IS INDICATED ON THE DRAWINGS. FUSE PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
10. ALL CONNECTIONS OUTDOORS OR IN WET LOCATIONS SHALL BE MADE USING OXIDATION INHIBITING COMPOUND, PENETROX OR APPROVED EQUAL. THIS INCLUDES POWER AND GROUNDING CONNECTIONS INSIDE PANELS, WIREWAYS, BOXES, DISCONNECT SWITCHES ELECTRICAL AND MECHANICAL EQUIPMENT, ETC.
11. LABEL ALL DEVICES WITH PANEL DESIGNATION, CIRCUIT NUMBER AND VOLTAGE INCLUDING JUNCTION/OUTLET BOXES WITH BLANK FACEPLATES. ELECTRICAL EQUIPMENT, DISCONNECT SWITCHES, MOTOR STARTERS, PANELS, ETC., SHALL BE LABELED WITH ENGRAVED FACEPLATES. SEE ELECTRICAL SPECIFICATIONS.
12. EVERY RACEWAY ON THE PROJECT SHALL CONTAIN A GREEN INSULATED COPPER GROUND CONDUCTOR. PANELS, PANEL FEEDERS, AND WIREWAYS SHALL BE PROVIDED WITH INSULATED GROUNDING BUSHINGS WITH EQUIPMENT GROUNDING CONDUCTOR BONDED TO ELECTRICAL EQUIPMENT AND EQUIPMENT GROUND BUS.
13. ALL CONDUIT AND BOXES SHALL BE SECURED TO, AND SUPPORTED FROM, THE BUILDING STRUCTURE. DO NOT WELD, DRILL OR CUT ANY STRUCTURAL MEMBERS. DO NOT USE WIRES, PIPES, CEILING GRID, DUCTWORK, ETC TO SECURE OR SUPPORT CONDUIT, SPECIAL SYSTEM CABLING, OR BOXES.
14. MAINTAIN NATIONAL ELECTRICAL CODE WORKING CLEARANCES AROUND ALL ELECTRICAL EQUIPMENT INSTALLED ON THIS PROJECT
15. ALL CONDUIT, BOTH CONCEALED AND EXPOSED, SHALL BE RUN AT 90 DEGREE ANGLES, PARALLEL AND PERPENDICULAR TO BUILDING LINES, EXCEPT FOR OFFSETS AND DOGLEGS AS REQUIRED. CONDUIT SIZE SHALL BE 3/4" UNLESS SHOWN OTHERWISE.
16. WHERE OVERSIZED CONDUITS OR CONDUCTORS ARE INDICATED, THE CONDUIT AND WIRE SIZE SHALL BE MAINTAINED/INSTALLED THROUGHOUT THE ENTIRE CIRCUIT.
17. ALL MATERIALS FURNISHED SHALL BE NEW AND U. L. LISTED FOR APPROPRIATE APPLICATIONS.
18. ALL FINAL ELECTRICAL TERMINATIONS TO EQUIPMENT SUBJECT TO VIBRATION/MOVEMENT SHALL BE MADE WITH LIQUID TIGHT FLEXIBLE METALLIC/ NON-METALLIC CONDUIT WITH APPROVED FITTINGS.
19. WORK SPACE SHALL BE MAINTAINED AND CLEANED DAILY TO AVOID ANY DUST OR CONTAIMINATION TO ANY OTHER PART OF THE BUILDING. REPLACE AIR FILTERS IN AC UNIT WITHIN WORK SPACES AS NEEDED, WITH NEW FILTER INSTALLED AT COMPLETION OF PROJECT.
20. AT ALL ALUMINUM WIRE CONNECTIONS (LUG, SPLIT BOLT, ETC.) PROVIDE A OXIDE INHIBITOR SIMILAR TO BURNDY PBA OR EQUAL. PROVIDE COMPOUND IN ACCORDANCE WITH MANUFACTURER'S APPLICATION INSTRUCTIONS.
21. FOR SITE PREPARATION, EXCAVATION, FILL AND BACKFILL REFER TO SPECIFICATIONS SECTION 31 2000 EARTHWORK ON SHEET S5.

ELECTRICAL DEMOLITION NOTES

1. THE EXISTING ELECTRICAL SERVICE ENTRANCE EQUIPMENT AND DISTRIBUTION EQUIPMENT WILL BE REPLACED WITH NEW. THE BALLFIELDS WILL BE PROVIDED WITH NEW POLE LIGHTING. THE DRAWINGS INDICATE THE ELECTRICAL EQUIPMENT AND UNDERGROUND FEEDERS WHICH ARE TO REMAIN. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE FULL SCOPE OF DEMOLITION.
2. EXISTING ELECTRICAL SERVICE, ELECTRICAL EQUIPMENT (WIREWAYS, SAFETY SWITCHES, PANELBOARDS, ASSOCIATED CONDUIT/WIRING, ETC.) LOCATED AT BALL FIELD'S 1, 2, 3&4 AND 5 SHALL BE DEMOLISHED.
3. CONTRACTOR SHALL DEMOLISH ALL SCOREBOARD FOUNDATIONS AND ALL DEBRIS FROM SELECTIVE DEMOLITION OF CONCRETE SIDEWALKS/SLABS. REFER TO GENERAL NOTE D.
4. ANY UNDERGROUND CONDUITS/WIRING NOT TO REMAIN AND/OR BE REUSED FOR NEW CONSTRUCTION ARE NOT REQUIRED TO BE REMOVED, UNLESS REQUIRED TO BE REMOVED AS A RESULT OF NEW ELECTRICAL INSTALL.

BID ALTERNATE DESCRIPTION

CONTRACTOR SHALL PROVIDE THREE (3) SEPARATE BID PRICES AS DESCRIBED BELOW AND AS INDICATED ON DRAWINGS.

BASE BID

COMPLETE INSTALLATION FOR ALL 5 BALLFIELDS AS INDICATED IN CONTRACT DOCUMENTS.

ALTERNATE NO. 1

THE INTENT IS FOR BALLFIELDS 2, 3 AND 4 TO BE COMPLETE WITH BALLFIELD MAST LIGHTING AND LIGHTING CONTROLS. BALLFIELDS 1 AND 5 SHALL BE PROVIDED WITH MAST POLES FOR FUTURE LIGHTING.

BALLFIELDS 1 AND 5 - PROVIDE MAST LIGHTING POLES, FOUNDATIONS , SECURITY LIGHTING WITH PHOTOCELL CONTROL, RACEWAY WITH PULL STRING TO EACH BALLFIELD FOR FUTURE LIGHTING. PROVIDE SCOPE OF WORK FOR PRESS BOX 1 AND 5, AND SCOREBOARDS AS DESCRIBED IN DRAWINGS.

ALTERNATE NO. 2

THE INTENT IS FOR BALLFIELDS 2, 3 AND 4 TO BE COMPLETE WITH BALLFIELD MAST LIGHTING AND LIGHTING CONTROLS.

BALLFIELDS 1 AND 5 - PROVIDE RACEWAY WITH PULL STRING TO EACH BALLFIELD FOR FUTURE LIGHTING AS SHOWN ON DRAWINGS. PROVIDE SCOPE OF WORK FOR PRESS BOX 1 AND 5, AND SCOREBOARDS AS DESCRIBED IN DRAWINGS.

MCA Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

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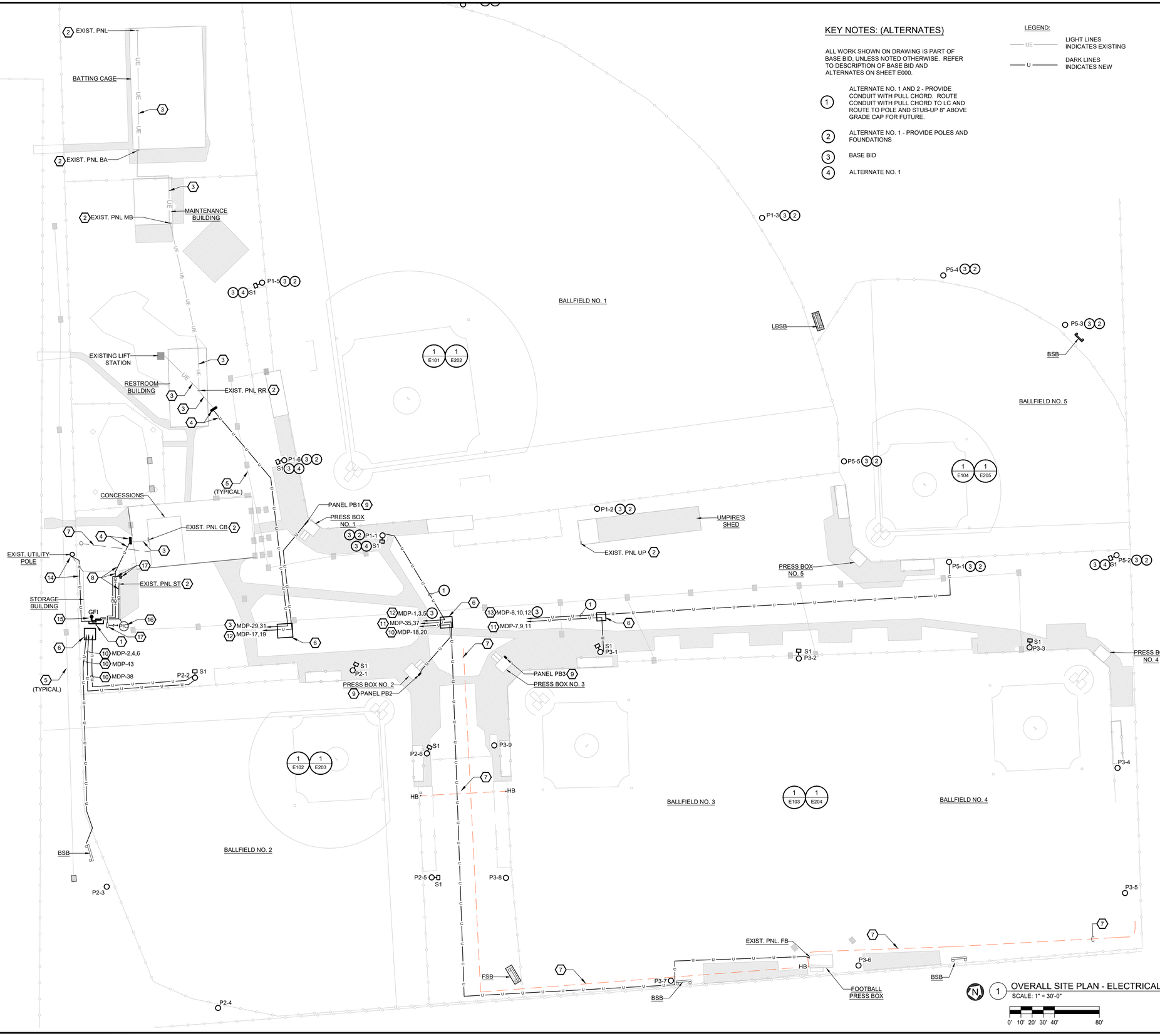
DWG TITLE: SYMBOL SCHEDULE, NOTES, ABBREVIATIONS

DWG No. E000



KEY NOTES: (ALTERNATES)

ALL WORK SHOWN ON DRAWING IS PART OF BASE BID, UNLESS NOTED OTHERWISE. REFER TO DESCRIPTION OF BASE BID AND ALTERNATES ON SHEET E000.

1. ALTERNATE NO. 1 AND 2 - PROVIDE CONDUIT WITH PULL CHORD. ROUTE CONDUIT WITH PULL CHORD TO LC AND ROUTE TO POLE AND STUB-UP 8" ABOVE GRADE CAP FOR FUTURE.
2. ALTERNATE NO. 1 - PROVIDE POLES AND FOUNDATIONS
3. BASE BID
4. ALTERNATE NO. 1

LEGEND:

- UE — LIGHT LINES INDICATES EXISTING
- U — DARK LINES INDICATES NEW

GENERAL NOTES:

A. CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK TO UNDERSTAND THE COMPLEXITY, RESTRICTIONS AND ALL THE REQUIREMENTS TO PERFORM WORK OF THESE DOCUMENTS IN SAID FACILITY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO THE SUCCESSFUL BIDDER FOR FAILURE TO BE SO INFORMED.

B. THE DRAWINGS ARE DIAGRAMMATICAL, AND SCALING IS APPROXIMATE. ALL ELECTRICAL EQUIPMENT LOCATIONS ARE APPROXIMATE ONLY. FOR ALL MEASUREMENTS, UTILIZE FIELD SURVEYS AND MEASUREMENTS. COORDINATE WORK WITH OTHER DIVISIONS FOR THE PROJECT. THE WIRING , CONDUIT SYSTEMS, LIGHTING CONTROLS, ETC. ARE STRICTLY DIAGRAMMATIC, UNLESS OTHERWISE NOTED.

C. CONTRACTOR SHALL COORDINATE INSTALLATION AND LOCATIONS OF ALL CONDUIT ROUTING, PULL BOXES, LIGHTING CONTROLS, ELECTRICAL EQUIPMENT, ETC WITH FACILITY'S EXISTING CONDITIONS. CONDUIT RUNS SHALL BE GROUPED TOGETHER AND CAREFULLY PLANNED PRIOR TO INSTALLATION. ALL UNDERGROUND FEEDERS SHALL BE A MINIMUM OF 18" BELOW GRADE.

D. SAWING CUTTING REQUIRED FOR INSTALLATION OF FEEDERS/BRANCH CIRCUITS SHALL BE KEPT TO A MINIMUM. BORING FOR INSTALLATION OF FEEDERS UNDER SIDEWALKS, ETC. IS PREFERABLE IF IT CAN BE ACCOMPLISHED WITHOUT DAMAGE TO SAME. AREAS WHERE SAW CUTTING IS REQUIRED CONTRACTOR SHALL PATCH CONCRETE TO MATCH EXISTING SLAB AND MAINTAIN THE STRUCTURAL INTEGRITY.WHICH INCLUDES REBAR. AFTER CONTRACTOR HAS ASCERTAINED THE AREAS WHICH REQUIRE SAW CUTTING, HE SHALL OBTAIN APPROVAL FROM THE ENGINEER/OWNER'S REPRESENTATIVE.

E. SHEET E100 INDICATES ALL OF THE FEEDERS ROUTED TO MDP. REFER TO BALLFIELD ELECTRICAL PLANS E101 - E104 FOR BALLFIELD LIGHTING UNDERGROUND FEEDERS AND BRANCH CIRCUITS.

F. ALL SECURITY LIGHTING, TYPE S1 FIXTURES, SHALL BE CONTROLED BY PHOTOCELL (ON/OFF). ROUTE ALL CIRCUITS FOR S1 FIXTURES THROUGH PHOTOCELLS MOUNTED ON BUILDINGS.

G. ALL ELECTRICAL EQUIPMENT SHALL BE ELEVATED ABOVE THE BASE FLOOD ELEVATION WHICH IS 10' IN COMPLIANCE WITH FEDERAL GUIDELINES. THIS INCLUDES PANELBOARDS (INCLUDING PANELBOARDS IN PRESSBOXES), DISCONNECT SWITCHES, LIGHT POLE TERMINAL CABINETS, ETC.

KEY NOTES:

1. ELECTRICAL SERVICE DISTRIBUTION EQUIPMENT. REFER TO ELECTRICAL FEEDER DIAGRAM SHEET E201 AND SHEET E102 FOR EQUIPMENT PLATFORMS
2. REFER TO SHEET E201.
3. UNDERGROUND FEEDER REFER TO SHEET E201.
4. CUT INTO EXISTING CONDUIT AND EXTEND AS REQUIRED. PROVIDE NEW FEEDER FROM EXISTING PANELBOARD TO MDP. REFER TO SHEET E201.
5. UNDERGROUND DRAINGE (TYPICAL)
6. IN-GROUND PULL BOX. REFER TO SHEET E201 AND E401.
7. APPROXIMATE LOCATION OF KNOWN EXISITNG UNDERGROUND WATERLINES. FIELD VERIFY WATER LINES FOR ENTIRE SITE.
8. NEW FEEDER TO EXISTING PANEL. REFER TO SHEET E201.
9. NEW PANEL, REFER TO SHEET E201, E301 AND BALLFIELD SHEETS.
10. UNDERGROUND FEEDERS, REFER TO SHEETS E102 AND E201.
11. UNDERGROUND FEEDERS, REFER TO SHEETS E103 AND E201.
12. UNDERGROUND FEEDERS, REFER TO SHEETS E101 AND E201.
13. UNDERGROUND FEEDERS, REFER TO SHEETS E104 AND E201.
14. NEW ELECTRICAL SERVICE, REFER TO SHEET E201.
15. PROVIDE 20A DUPLEX RECEPTACLE FOR WIRELESS LIGHTING CONTROLLER ON MEZZANINE. CONNECT RECEPTACLE TO CIRCUIT MDP-43. REFER TO SHEET E201. LOCATE RECEPTACLE BELOW LIGHTING CONTROLLER.
16. PROVIDE WEATHERTIGHT JUNCTION BOX ON EXTERIOR OF BUILDING AT ROOF LEVEL FOR PHOTOCELL INSTALLATION. PHOTOCELL TO FACE NORTH. S1 LIGHTING FIXTURES SHALL BE CONTROLLED BY PHOTOCELL.
17. PROVIDE (2) WIRELESS 2-BUTTON SWITCH. BASIS OF DESIGN: SYNAPSE WSW-02-1P WITH WALL-MOUNT ASSEMBLY. LOCATE IN AN ACCESSIBLE LOCATION CLOSE TO ENTRY DOOR. (PROGRAM SWITCH TO TURN ON/OFF LIGHTING AT EACH BALLFIELD SEPARATELY AND ONE SWITCH TO TURN ALL THE FIELDS ON/OFF AT ONCE). CONNECT TO ANTENNA. PROVIDE ANTENNA, BASIS OF DESIGN: SYNAPSE ANT-ORB-1.5-1 OUTDOOR FIXED RIGHT ANGLE ANTENNA. MOUNT ANTENNA ON EXTERIOR OF BUILDING AT ROOF LEVEL. EXACT LOCATION OF SWITCH AND ANTENNA TO BE DETERMINED IN THE FIELD AND APPROVED BY ENGINEER/OWNER'S REPRESENTATIVE.

N

1 OVERALL SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"

0' 10' 20' 30' 40' 80'

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Engineering & Construction
BATON ROUGE - NEW ORLEANS

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DWG TITLE: OVERALL SITE PLAN - ELECTRICAL

DWG No. E100

N

1 BALLFIELD NO. 1 - ELECTRICAL

SCALE: 1" = 20'-0"

0' 10' 20' 30' 40' 80'

KEY NOTES: (ALTERNATES)

ALL WORK SHOWN ON DRAWING IS PART OF BASE BID, UNLESS NOTED OTHERWISE. REFER TO DESCRIPTION OF BASE BID AND ALTERNATES ON SHEET E000.

1. ALTERNATE NO. 1 AND 2 - PROVIDE CONDUIT WITH PULL CHORD. ROUTE CONDUIT WITH PULL CHORD TO LC AND ROUTE TO POLE AND STUB-UP 8" ABOVE GRADE CAP FOR FUTURE.
2. ALTERNATE NO. 1 - PROVIDE POLES AND FOUNDATIONS
3. BASE BID
4. ALTERNATE NO. 1

LEGEND:

- LIGHT LINES INDICATES EXISTING
- DARK LINES INDICATES NEW

GENERAL NOTES:

A. CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK TO UNDERSTAND THE COMPLEXITY, RESTRICTIONS AND ALL THE REQUIREMENTS TO PERFORM WORK OF THESE DOCUMENTS IN SAID FACILITY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO THE SUCCESSFUL BIDDER FOR FAILURE TO BE SO INFORMED.

B. THE DRAWINGS ARE DIAGRAMMATICAL, AND SCALING IS APPROXIMATE. ALL ELECTRICAL EQUIPMENT LOCATIONS ARE APPROXIMATE ONLY. FOR ALL MEASUREMENTS, UTILIZE FIELD SURVEYS AND MEASUREMENTS. COORDINATE WORK WITH OTHER DIVISIONS FOR THE PROJECT. THE WIRING , CONDUIT SYSTEMS, LIGHTING CONTROLS, ETC. ARE STRICTLY DIAGRAMMATIC, UNLESS OTHERWISE NOTED.

C. CONTRACTOR SHALL COORDINATE INSTALLATION AND LOCATIONS OF ALL CONDUIT ROUTING, PULL BOXES, LIGHTING CONTROLS, ELECTRICAL EQUIPMENT, ETC WITH FACILITY'S EXISTING CONDITIONS. CONDUIT RUNS SHALL BE GROUPED TOGETHER AND CAREFULLY PLANNED PRIOR TO INSTALLATION. ALL UNDERGROUND FEEDERS SHALL BE A MINIMUM OF 18" BELOW GRADE.

D. SAWING CUTTING REQUIRED FOR INSTALLATION OF FEEDERS/BRANCH CIRCUITS SHALL BE KEPT TO A MINIMUM. BORING FOR INSTALLATION OF FEEDERS UNDER SIDEWALKS, ETC. IS PREFERABLE IF IT CAN BE ACCOMPLISHED WITHOUT DAMAGE TO SAME. AREAS WHERE SAW CUTTING IS REQUIRED CONTRACTOR SHALL PATCH CONCRETE TO MATCH EXISTING SLAB AND MAINTAIN THE STRUCTURAL INTEGRITY.WHICH INCLUDES REBAR. AFTER CONTRACTOR HAS ASCERTAINED THE AREAS WHICH REQUIRE SAW CUTTING, HE SHALL OBTAIN APPROVAL FROM THE ENGINEER/OWNER'S REPRESENTATIVE.

E. SHEET E100 INDICATES ALL OF THE FEEDERS ROUTED TO MDP. REFER TO BALLFIELD ELECTRICAL PLANS E101 - E104 FOR BALLFIELD LIGHTING UNDERGROUND FEEDERS AND BRANCH CIRCUITS.

F. ALL SECURITY LIGHTING, TYPE S1 FIXTURES, SHALL BE CONTROLLED BY PHOTOCELL (ON/OFF). ROUTE ALL CIRCUITS FOR S1 FIXTURES THROUGH PHOTOCELLS MOUNTED ON BUILDINGS.

G. ALL ELECTRICAL EQUIPMENT SHALL BE ELEVATED ABOVE THE BASE FLOOD ELEVATION WHICH IS 10' IN COMPLIANCE WITH FEDERAL GUIDELINES. THIS INCLUDES PANELBOARDS (INCLUDING PANELBOARDS IN PRESSBOXES), DISCONNECT SWITCHES, LIGHT POLE TERMINAL CABINETS, ETC.

KEY NOTES:

1. SEE SHEET E104 FOR CONTINUATION.
2. 2 1/2" PVC; (3) 250 KCMIL AWG (AL) & 1 #2 GND (AL)
3. FEEDER FOR PANEL PB1. REFER TO SHEETS E100 AND E201.
4. 3/4" PVC; 2#6 AWG & 1#8 GND.
5. REFER TO SHEET E201 AND E301
6. FEEDER FOR PANEL RR. REFER TO SHEETS E100 AND E201
7. 1 1/4"PVC; 2#4s, 1 #8G AND 2 #8s, 1 #10 GND. PROVIDE (2) CIRCUITS, ONE FOR A/C UNIT (#4s) AND ONE FOR RECEPTACLES (#8s).
8. 1 1/4" PVC; 3#3s AND 1 #8 GND. REFER TO SHEETS E201
9. PROVIDE 30A/1P, NEMA 3R, SIGHT DISCONNECTING MEANS FUSED AT 5 AMPS. CONNECT TO SCORE BOARD AS REQUIRED. REFER TO 3/102.
10. REFER TO SHEET E104 FOR CONNECTIONS TO P5-5 POLE LIGHTING.
11. REWORK WIRING IN PRESSBOX SO THAT AC UNIT IS ON ONE CIRCUIT AND RECEPTACLES/LIGHT ARE ON ONE CIRCUIT.
12. CONNECT AC UNIT TO CIRCUIT BREAKER PB1-3 AND RECEPTACLES/LIGHT TO CIRCUIT BREAKER PB1-1.
13. REFER TO SHEET E100 FOR CONTINUATION.
14. PROVIDE WEATHERTIGHT JUNCTION BOX ON EXTERIOR OF BUILDING AT ROOF LEVEL FOR PHOTOCELL INSTALLATION. PHOTOCELL TO FACE NORTH. S1 LIGHTING FIXTURES SHALL BE CONTROLLED BY PHOTOCELL.
15. PROVIDE WIRELESS 2-BUTTON SWITCH. BASIS OF DESIGN: SYNAPSE WSW-02-1P WITH WALL-MOUNT ASSEMBLY. LOCATE IN AN ACCESSIBLE LOCATION CLOSE TO ENTRY DOOR.. (PROGRAM SWITCH TO TURN ON/OFF LIGHTING AT BALLFIELD. CONNECT TO ANTENNA. PROVIDE ANTENNA, BASIS OF DESIGN: SYNAPSE ANT-ORB-1.5-1 OUTDOOR FIXED RIGHT ANGLE ANTENNA. MOUNT ANTENNA ON EXTERIOR OF BUILDING AT ROOF LEVEL. EXACT LOCATION OF SWITCH AND ANTENNA TO BE DETERMINED IN THE FIELD AND APPROVED BY ENGINEER/OWNER'S REPRESENTATIVE.

MCA
Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
HOUMA, LA. 70363

STAMP:

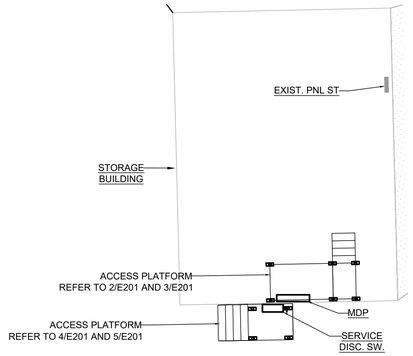
STATE OF LOUISIANA
M. KIMBALL SCHLAFLY
REG. No. 27699
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
09/11/2026

REV	DESCRIPTION	DATE	BY

DESIGN DAB
DRAWN GEM
CHECK MKS
SCALE AS NOTED
DATE 09/11/2026

DWG TITLE: BALLFIELD NO. 1 - ELECTRICAL

DWG No. E101



NOTES:

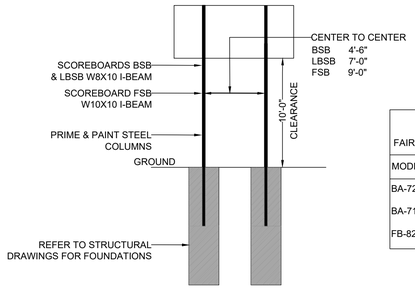
1. DRAWING INDICATES APPROXIMATE LOCATION OF PLATFORMS. PLATFORMS SHALL BE LOCATED IN THE FIELD. REFER TO SHEET E201.
2. CONTRACTOR SHALL PROVIDE METAL ACCESS PLATFORMS INCLUDING STAIRS AND ASSOCIATED SUPPORT FRAMING, FOUNDATIONS, ETC, AT A MINIMUM, AS INDICATED ON SHEET S1 THE FABRICATION AND INSTALLATION MUST STRICTLY ADHERE TO ALL APPLICABLE CODES.
3. CONTRACTOR SHALL OBTAIN THE DIMENSIONS OF THE EXACT ELECTRICAL EQUIPMENT BEING INSTALLED AND ADJUST PLATFORM DIMENSIONS ACCORDINGLY TO ENSURE PROPER CLEARANCES PER NEC.
4. CONTRACTOR SHALL SUBMIT FULLY DIMENSIONED PLANS, ELEVATIONS, AND SECTIONS CLEARLY INDICATING MATERIAL GRADES, CONNECTIONS, FOUNDATIONS, FINISH DETAILS, ETC.

N 2 SHED BUILDING - ELECTRICAL
SCALE: 1/8"=1'-0" (APPROXIMATE)

KEY NOTES: (ALTERNATES)

ALL WORK SHOWN ON DRAWING IS PART OF BASE BID, UNLESS NOTED OTHERWISE. REFER TO DESCRIPTION OF BASE BID AND ALTERNATES ON SHEET E000.

1. ALTERNATE NO. 1 AND 2 - PROVIDE CONDUIT WITH PULL CHORD. ROUTE CONDUIT WITH PULL CHORD TO LC AND ROUTE TO POLE AND STUB-UP 8" ABOVE GRADE CAP FOR FUTURE.
2. ALTERNATE NO. 1 - PROVIDE POLES AND FOUNDATIONS
3. BASE BID
4. ALTERNATE NO. 1



LEGEND:

UE — LIGHT LINES INDICATES EXISTING

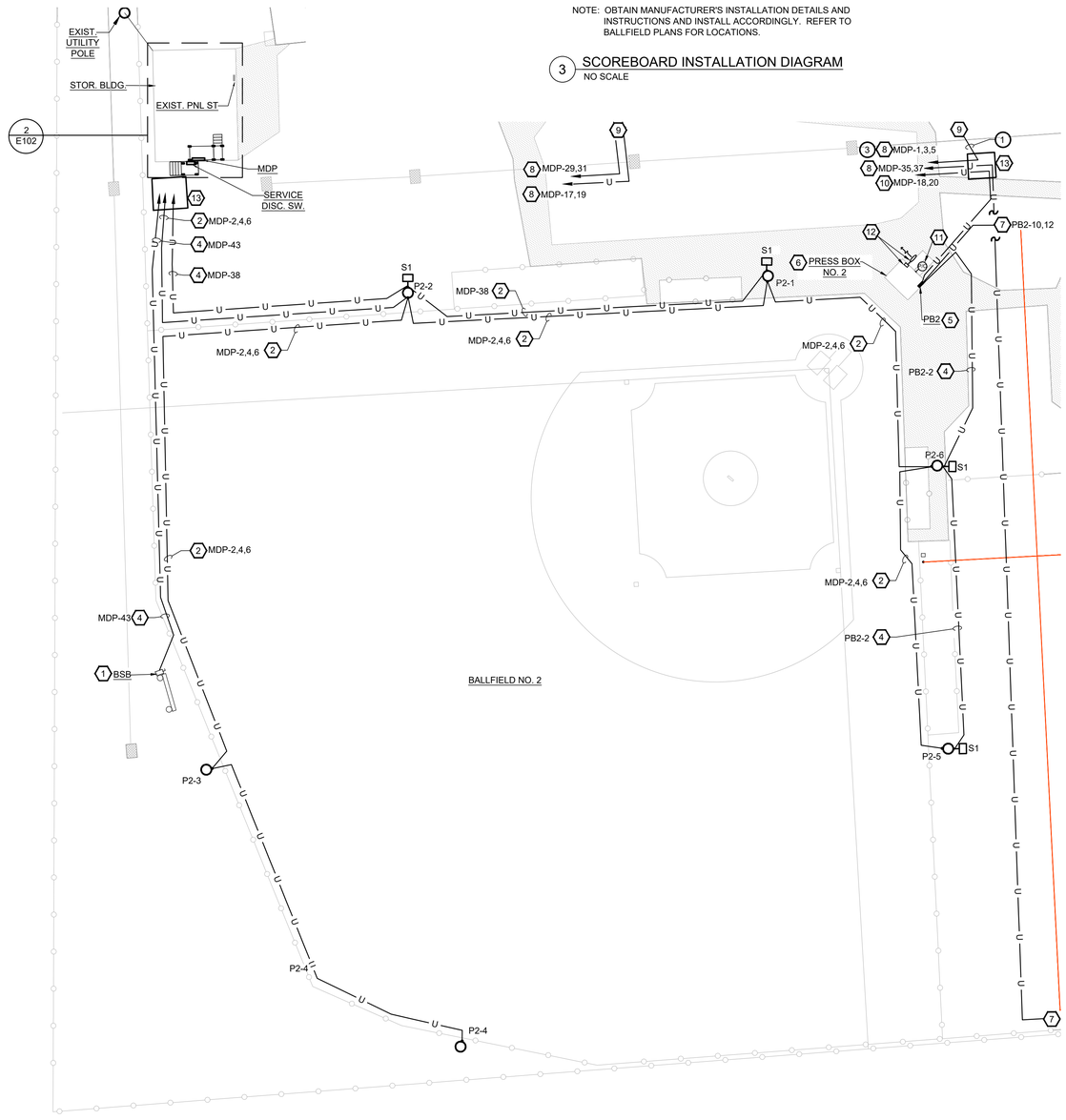
U — DARK LINES INDICATES NEW

SCOREBOARDS
FAIR-PLAY BY TRANS-LUX CORPORATION

MODEL	ID	DIMENSIONS
BA-7200-2	LBSB	5'-6"H X 14'-0"L
BA-7109-2	BSB	4'-0"H X 9'-0"L
FB-8218-2	FSB	7'-6"H X 18'-0"

NOTE: OBTAIN MANUFACTURER'S INSTALLATION DETAILS AND INSTRUCTIONS AND INSTALL ACCORDINGLY. REFER TO BALLFIELD PLANS FOR LOCATIONS.

3 SCOREBOARD INSTALLATION DIAGRAM
NO SCALE



N 1 BALLFIELD NO. 2 - ELECTRICAL
SCALE: 1" = 20'

0' 10' 20' 30' 40' 80'

GENERAL NOTES:

A. CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK TO UNDERSTAND THE COMPLEXITY, RESTRICTIONS AND ALL THE REQUIREMENTS TO PERFORM WORK OF THESE DOCUMENTS IN SAID FACILITY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO THE SUCCESSFUL BIDDER FOR FAILURE TO BE SO INFORMED.

B. THE DRAWINGS ARE DIAGRAMMATICAL, AND SCALING IS APPROXIMATE. ALL ELECTRICAL EQUIPMENT LOCATIONS ARE APPROXIMATE ONLY. FOR ALL MEASUREMENTS, UTILIZE FIELD SURVEYS AND MEASUREMENTS. COORDINATE WORK WITH OTHER DIVISIONS FOR THE PROJECT. THE WIRING , CONDUIT SYSTEMS, LIGHTING CONTROLS, ETC. ARE STRICTLY DIAGRAMMATIC, UNLESS OTHERWISE NOTED.

C. CONTRACTOR SHALL COORDINATE INSTALLATION AND LOCATIONS OF ALL CONDUIT ROUTING, PULL BOXES, LIGHTING CONTROLS, ELECTRICAL EQUIPMENT, ETC WITH FACILITY'S EXISTING CONDITIONS. CONDUIT RUNS SHALL BE GROUPED TOGETHER AND CAREFULLY PLANNED PRIOR TO INSTALLATION. ALL UNDERGROUND FEEDERS SHALL BE A MINIMUM OF 18" BELOW GRADE.

D. SAWING CUTTING REQUIRED FOR INSTALLATION OF FEEDERS/BRANCH CIRCUITS SHALL BE KEPT TO A MINIMUM. BORING FOR INSTALLATION OF FEEDERS UNDER SIDEWALKS, ETC. IS PREFERABLE IF IT CAN BE ACCOMPLISHED WITHOUT DAMAGE TO SAME. AREAS WHERE SAW CUTTING IS REQUIRED CONTRACTOR SHALL PATCH CONCRETE TO MATCH EXISTING SLAB AND MAINTAIN THE STRUCTURAL INTEGRITY.WHICH INCLUDES REBAR. AFTER CONTRACTOR HAS ASCERTAINED THE AREAS WHICH REQUIRE SAW CUTTING, HE SHALL OBTAIN APPROVAL FROM THE ENGINEER/OWNER'S REPRESENTATIVE.

E. SHEET E100 INDICATES ALL OF THE FEEDERS ROUTED TO MDP. REFER TO BALLFIELD ELECTRICAL PLANS E101 - E104 FOR BALLFIELD LIGHTING UNDERGROUND FEEDERS AND BRANCH CIRCUITS.

F. ALL SECURITY LIGHTING, TYPE S1 FIXTURES, SHALL BE CONTROLLED BY PHOTOCELL (ON/OFF). ROUTE ALL CIRCUITS FOR S1 FIXTURES THROUGH PHOTOCELLS MOUNTED ON BUILDINGS.

G. ALL ELECTRICAL EQUIPMENT SHALL BE ELEVATED ABOVE THE BASE FLOOD ELEVATION WHICH IS 10' IN COMPLIANCE WITH FEDERAL GUIDELINES. THIS INCLUDES PANELBOARDS (INCLUDING PANELBOARDS IN PRESSBOXES), DISCONNECT SWITCHES, LIGHT POLE TERMINAL CABINETS, ETC.

KEY NOTES:

1. PROVIDE 30A/1P, NEMA 3R, SIGHT DISCONNECTING MEANS FUSED AT 5 AMPS. CONNECT TO SCORE BOARD AS REQUIRED. REFER TO 3/E102.
2. 1 1/4" PVC; 3#3s AWG (AL) AND 1 #6 (AL) GND.
3. 1" PVC; 3#6s AND 1 #8 GND. REFER TO SHEET E103 FOR CONTINUATION.
4. 3/4" PVC; 2#10s AWG & #10 GND.
5. REFER TO SHEET E201 AND E301
6. CONNECT AC UNIT TO CIRCUIT BREAKER PB2-3 AND RECEPTACLES/LIGHT TO CIRCUIT BREAKER PB2-1.
7. REFER TO SHEET E103 FOR CONTINUATION.
8. REFER TO SHEET E100 AND SHEET E201.
9. REFER TO SHEET E100 FOR CONTINUATION.
10. 1 1/4" PVC; 3 #3s AWG AND 1 #8 GND. REFER TO SHEET E201.
11. PROVIDE WEATHERTIGHT JUNCTION BOX ON EXTERIOR OF BUILDING AT ROOF LEVEL FOR PHOTOCELL INSTALLATION. PHOTOCELL TO FACE NORTH. S1 LIGHTING FIXTURES SHALL BE CONTROLLED BY PHOTOCELL.
12. PROVIDE WIRELESS 2-BUTTON SWITCH. BASIS OF DESIGN: SYNAPSE WSW-02-1P WITH WALL-MOUNT ASSEMBLY. LOCATE IN AN ACCESSIBLE LOCATION CLOSE TO ENTRY DOOR.. (PROGRAM SWITCH TO TURN ON/OFF LIGHTING AT BALLFIELD. CONNECT TO ANTENNA. PROVIDE ANTENNA, BASIS OF DESIGN: SYNAPSE ANT-ORB-1.5-1 OUTDOOR FIXED RIGHT ANGLE ANTENNA. MOUNT ANTENNA ON EXTERIOR OF BUILDING AT ROOF LEVEL. EXACT LOCATION OF SWITCH AND ANTENNA TO BE DETERMINED IN THE FIELD AND APPROVED BY ENGINEER/OWNER'S REPRESENTATIVE.
13. IN-GROUND PULL BOX. REFER TO SHEET E201 AND E401.

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Engineering & Construction
BATON ROUGE - NEW ORLEANS

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PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
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STAMP:

STATE OF LOUISIANA
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ELECTRICAL ENGINEERING
09/11/2026

REV	DESCRIPTION	DATE	BY

DESIGN DAB
DRAWN GEM
CHECK MKS
SCALE AS NOTED
DATE 09/11/2026

DWG TITLE: BALLFIELD #2 - ELECTRICAL

DWG No. E102

KEY NOTES: (ALTERNATES)

ALL WORK SHOWN ON DRAWING IS PART OF BASE BID, UNLESS NOTED OTHERWISE. REFER TO DESCRIPTION OF BASE BID AND ALTERNATES ON SHEET E000.

1. ALTERNATE NO. 1 AND 2 - PROVIDE CONDUIT WITH PULL CHORD. ROUTE CONDUIT WITH PULL CHORD TO LC AND ROUTE TO POLE AND STUB-UP 8" ABOVE GRADE CAP FOR FUTURE.
2. ALTERNATE NO. 1 - PROVIDE POLES AND FOUNDATIONS
3. BASE BID
4. ALTERNATE NO. 1

LEGEND:

LIGHT LINES INDICATES EXISTING

DARK LINES INDICATES NEW

GENERAL NOTES:

A. CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK TO UNDERSTAND THE COMPLEXITY, RESTRICTIONS AND ALL THE REQUIREMENTS TO PERFORM WORK OF THESE DOCUMENTS IN SAID FACILITY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO THE SUCCESSFUL BIDDER FOR FAILURE TO BE SO INFORMED.

B. THE DRAWINGS ARE DIAGRAMMATICAL, AND SCALING IS APPROXIMATE. ALL ELECTRICAL EQUIPMENT LOCATIONS ARE APPROXIMATE ONLY. FOR ALL MEASUREMENTS, UTILIZE FIELD SURVEYS AND MEASUREMENTS. COORDINATE WORK WITH OTHER DIVISIONS FOR THE PROJECT. THE WIRING , CONDUIT SYSTEMS, LIGHTING CONTROLS, ETC. ARE STRICTLY DIAGRAMMATIC, UNLESS OTHERWISE NOTED.

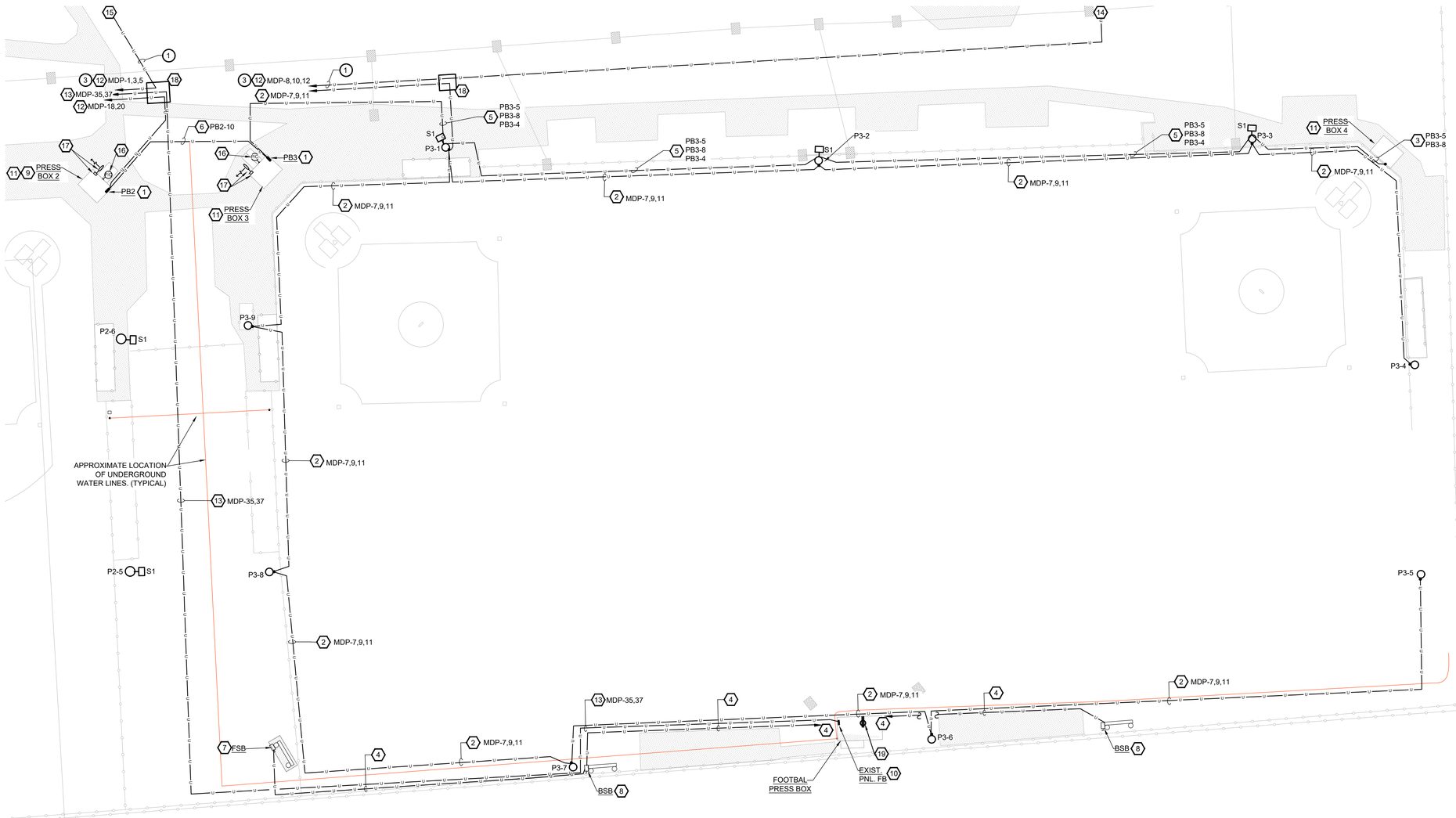
C. CONTRACTOR SHALL COORDINATE INSTALLATION AND LOCATIONS OF ALL CONDUIT ROUTING, PULL BOXES, LIGHTING CONTROLS, ELECTRICAL EQUIPMENT, ETC WITH FACILITY'S EXISTING CONDITIONS. CONDUIT RUNS SHALL BE GROUPED TOGETHER AND CAREFULLY PLANNED PRIOR TO INSTALLATION. ALL UNDERGROUND FEEDERS SHALL BE A MINIMUM OF 18" BELOW GRADE.

D. SAWING CUTTING REQUIRED FOR INSTALLATION OF FEEDERS/BRANCH CIRCUITS SHALL BE KEPT TO A MINIMUM. BORING FOR INSTALLATION OF FEEDERS UNDER SIDEWALKS, ETC. IS PREFERABLE IF IT CAN BE ACCOMPLISHED WITHOUT DAMAGE TO SAME. AREAS WHERE SAW CUTTING IS REQUIRED CONTRACTOR SHALL PATCH CONCRETE TO MATCH EXISTING SLAB AND MAINTAIN THE STRUCTURAL INTEGRITY.WHICH INCLUDES REBAR. AFTER CONTRACTOR HAS ASCERTAINED THE AREAS WHICH REQUIRE SAW CUTTING, HE SHALL OBTAIN APPROVAL FROM THE ENGINEER/OWNER'S REPRESENTATIVE.

E. SHEET E100 INDICATES ALL OF THE FEEDERS ROUTED TO MDP. REFER TO BALLFIELD ELECTRICAL PLANS E101 - E104 FOR BALLFIELD LIGHTING UNDERGROUND FEEDERS AND BRANCH CIRCUITS.

F. ALL SECURITY LIGHTING, TYPE S1 FIXTURES, SHALL BE CONTROLLED BY PHOTOCELL (ON/OFF). ROUTE ALL CIRCUITS FOR S1 FIXTURES THROUGH PHOTOCELLS MOUNTED ON BUILDINGS.

G. ALL ELECTRICAL EQUIPMENT SHALL BE ELEVATED ABOVE THE BASE FLOOD ELEVATION WHICH IS 10' IN COMPLIANCE WITH FEDERAL GUIDELINES. THIS INCLUDES PANELBOARDS (INCLUDING PANELBOARDS IN PRESSBOXES), DISCONNECT SWITCHES, LIGHT POLE TERMINAL CABINETS, ETC.



1 BALLFIELDS NO.3 AND NO. 4 - ELECTRICAL

SCALE: 1" = 20'-0"

0' 10' 20' 30' 40' 80'

KEY NOTES:

1. REFER TO SHEET E201 AND E301.
2. 2 1/2" PVC; 3 –350 Kcmil (AL), # 1 (AL) GND.
3. 1" PVC; 2 #6s, 1 #8 GND, AND 2 #8s, 1 #10 GND. PROVIDE (2) CIRCUITS, ONE FOR A/C UNIT (#6s) AND ONE CIRCUIT FOR RECEPTACLES (#8s).
4. 1" PVC; 2-#10s & 1-#10 GND. CONNECT TO SPARE 20A/1P CIRCUIT BREAKER IN PANEL UB. IF THERE IS NO SPARE BREAKER PROVIDE 20A/1P CIRCUIT BREAKER AND CONNECT THERETO.
5. 1 1/4" PVC; 2 #6s, 1 #8 GND, AND 2 #8s, 1 #10 GND, AND 2 #12s, 1 #12 GND.
6. 1 1/4" PVC; 3 - #3s AWG & 1#18 GND.
7. PROVIDE 30A/1P, NEMA 3R, SIGHT DISCONNECT MEANS FUSED AT 10 AMPS. CONNECT TO SCORE BOARD AS REQUIRED. REFER TO 3/E102.
8. PROVIDE 30A/1P, NEMA 3R, SIGHT DISCONNECT MEANS FUSED AT 5 AMPS. CONNECT TO SCORE BOARD AS REQUIRED. REFER TO E/102.
9. CONNECT AC UNIT TO CIRCUIT BREAKER PB2-3 AND RECEPTACLES TO CIRCUIT BREAKER PB2-1.
10. REFER TO SHEET E201.
11. REWORK WIRING IN PRESSBOX SO THAT AC UNIT IS ON ONE CIRCUIT AND LIGHTS/RECEPTS/ETC ARE ON ONE CIRCUIT. REFER TO KEY NOTE #3.
12. REFER TO SHEET E201 FOR FEEDER SIZES AND E100 FOR CONTINUATION
13. 2" PVC; 3#3/0 AWG & #6 GND.
14. REFER TO SHEET E104 FOR CONTINUATION.
15. REFER TO SHEET E100 FOR CONTINUATION.
16. PROVIDE WEATHERTIGHT JUNCTION BOX ON EXTERIOR OF BUILDING AT ROOF LEVEL FOR PHOTOCELL INSTALLATION. PHOTOCELL TO FACE NORTH. S1 LIGHTING FIXTURES SHALL BE CONTROLLED BY PHOTOCELL.
17. PROVIDE WIRELESS 2-BUTTON SWITCH. BASIS OF DESIGN: SYNAPSE WSW-02-1P WITH WALL-MOUNT ASSEMBLY. LOCATE IN AN ACCESSIBLE LOCATION CLOSE TO ENTRY DOOR.. (PROGRAM SWITCH TO TURN ON/OFF LIGHTING AT BALLFIELD. CONNECT TO ANTENNA. PROVIDE ANTENNA, BASIS OF DESIGN: SYNAPSE ANT-ORB-1.5-1 OUTDOOR FIXED RIGHT ANGLE ANTENNA. MOUNT ANTENNA ON EXTERIOR OF BUILDING AT ROOF LEVEL. EXACT LOCATION OF SWITCH AND ANTENNA TO BE DETERMINED IN THE FIELD AND APPROVED BY ENGINEER/OWNER'S REPRESENTATIVE.
18. IN-GROUND PULL BOX. REFER TO SHEET E201 AND E401.
19. PROVIDE RECEPTACLE ON SECOND LEVEL FOR PA SYSTEM. CONNECT RECEPTACLE TO 20A/1P SPARE CIRCUIT BREAKER IN EXISTING PANEL FB. CONTACT SCOTT AT HOFMAN MUSIC #985-447-4050 FOR TURNKEY SYSTEM. INCLUDE COST FOR SYSTEM IN BID PRICE.

MCA Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
HOUMA, LA. 70363

STAMP:

STATE OF LOUISIANA
M. KIMBALL SCHLAFLY
REG. No. 27699
REGISTERED PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
09/11/2026

BY	DATE	DESCRIPTION	REV

DESIGN DAB
DRAWN GEM
CHECK MKS
SCALE AS NOTED
DATE 09/11/2026

DWG TITLE: BALLFIELDS NO. 3 AND NO.4 - ELECTRICAL

DWG No. E103

KEY NOTES: (ALTERNATES)

ALL WORK SHOWN ON DRAWING IS PART OF BASE BID, UNLESS NOTED OTHERWISE. REFER TO DESCRIPTION OF BASE BID AND ALTERNATES ON SHEET E000.

1. ALTERNATE NO. 1 AND 2 - PROVIDE CONDUIT WITH PULL CHORD. ROUTE CONDUIT WITH PULL CHORD TO LC AND ROUTE TO POLE AND STUB-UP 8" ABOVE GRADE CAP FOR FUTURE.
2. ALTERNATE NO. 1 - PROVIDE POLES AND FOUNDATIONS
3. BASE BID
4. ALTERNATE NO. 1

LEGEND:

- LIGHT LINES INDICATES EXISTING
- DARK LINES INDICATES NEW

GENERAL NOTES:

A. CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK TO UNDERSTAND THE COMPLEXITY, RESTRICTIONS AND ALL THE REQUIREMENTS TO PERFORM WORK OF THESE DOCUMENTS IN SAID FACILITY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO THE SUCCESSFUL BIDDER FOR FAILURE TO BE SO INFORMED.

B. THE DRAWINGS ARE DIAGRAMMATICAL, AND SCALING IS APPROXIMATE. ALL ELECTRICAL EQUIPMENT LOCATIONS ARE APPROXIMATE ONLY. FOR ALL MEASUREMENTS, UTILIZE FIELD SURVEYS AND MEASUREMENTS. COORDINATE WORK WITH OTHER DIVISIONS FOR THE PROJECT. THE WIRING , CONDUIT SYSTEMS, LIGHTING CONTROLS, ETC. ARE STRICTLY DIAGRAMMATIC, UNLESS OTHERWISE NOTED.

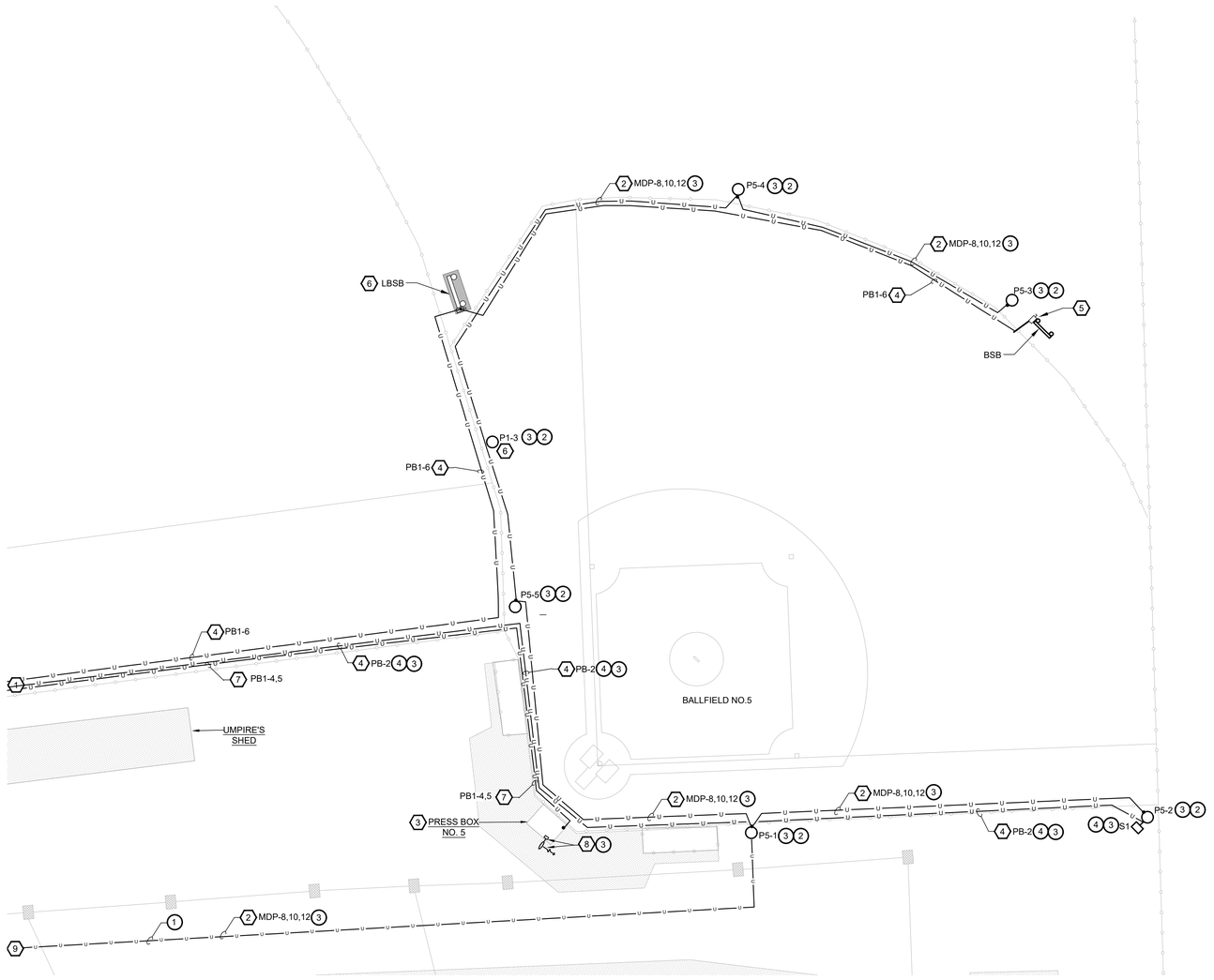
C. CONTRACTOR SHALL COORDINATE INSTALLATION AND LOCATIONS OF ALL CONDUIT ROUTING, PULL BOXES, LIGHTING CONTROLS, ELECTRICAL EQUIPMENT, ETC WITH FACILITY'S EXISTING CONDITIONS. CONDUIT RUNS SHALL BE GROUPED TOGETHER AND CAREFULLY PLANNED PRIOR TO INSTALLATION. ALL UNDERGROUND FEEDERS SHALL BE A MINIMUM OF 18" BELOW GRADE.

D. SAWING CUTTING REQUIRED FOR INSTALLATION OF FEEDERS/BRANCH CIRCUITS SHALL BE KEPT TO A MINIMUM. BORING FOR INSTALLATION OF FEEDERS UNDER SIDEWALKS, ETC. IS PREFERABLE IF IT CAN BE ACCOMPLISHED WITHOUT DAMAGE TO SAME. AREAS WHERE SAW CUTTING IS REQUIRED CONTRACTOR SHALL PATCH CONCRETE TO MATCH EXISTING SLAB AND MAINTAIN THE STRUCTURAL INTEGRITY.WHICH INCLUDES REBAR. AFTER CONTRACTOR HAS ASCERTAINED THE AREAS WHICH REQUIRE SAW CUTTING, HE SHALL OBTAIN APPROVAL FROM THE ENGINEER/OWNER'S REPRESENTATIVE.

E. SHEET E100 INDICATES ALL OF THE FEEDERS ROUTED TO MDP. REFER TO BALLFIELD ELECTRICAL PLANS E101 - E104 FOR BALLFIELD LIGHTING UNDERGROUND FEEDERS AND BRANCH CIRCUITS.

F. ALL SECURITY LIGHTING, TYPE S1 FIXTURES, SHALL BE CONTROLLED BY PHOTOCELL (ON/OFF). ROUTE ALL CIRCUITS FOR S1 FIXTURES THROUGH PHOTOCELLS MOUNTED ON BUILDINGS.

G. ALL ELECTRICAL EQUIPMENT SHALL BE ELEVATED ABOVE THE BASE FLOOD ELEVATION WHICH IS 10' IN COMPLIANCE WITH FEDERAL GUIDELINES. THIS INCLUDES PANELBOARDS (INCLUDING PANELBOARDS IN PRESSBOXES), DISCONNECT SWITCHES, LIGHT POLE TERMINAL CABINETS, ETC.



N

1 BALLFIELD NO. 5 - ELECTRICAL

SCALE: 1" = 20'-0"

0' 10' 20' 30' 40' 80'

KEY NOTES:

1. REFER TO SHEET E101 FOR CONTINUATION
2. 2" PVC; 3 #1/0 AWG (AL) AND 1 #4 (AL) GND.
3. REWORK WIRING IN PRESSBOX SO THAT AC UNIT IS ON ONE CIRCUIT AND RECEPTACLES/LIGHT ARE ON ONE CIRCUIT.
4. 3/4" PVC; 2#6 AWG & 1#8 GND.
5. PROVIDE 30A/1P, NEMA 3R, SIGHT DISCONNECTING MEANS FUSED AT 5 AMPS. CONNECT TO SCORE BOARD AS REQUIRED. REFER TO 3/E102.
6. REFER TO SHEET E101.
7. 1 1/4"PVC; 2#4S, 1 #8G AND 2 #8S, 1 #10 GND. PROVIDE (2) CIRCUITS, ONE FOR A/C UNIT (#4S) AND ONE FOR LIGHT/RECEPTS/ETC. (#8S).
8. PROVIDE WIRELESS 2-BUTTON SWITCH. BASIS OF DESIGN: SYNAPSE WSW-02-1P WITH WALL-MOUNT ASSEMBLY. LOCATE IN AN ACCESSIBLE LOCATION CLOSE TO ENTRY DOOR. (PROGRAM SWITCH TO TURN ON/OFF LIGHTING AT BALLFIELD. CONNECT TO ANTENNA. PROVIDE ANTENNA, BASIS OF DESIGN: SYNAPSE ANT-ORB-1.5-1 OUTDOOR FIXED RIGHT ANGLE ANTENNA. MOUNT ANTENNA ON EXTERIOR OF BUILDING AT ROOF LEVEL. EXACT LOCATION OF SWITCH AND ANTENNA TO BE DETERMINED IN THE FIELD AND APPROVED BY ENGINEER/OWNER'S REPRESENTATIVE.
9. REFER TO SHEET E100 FOR CONTINUATION.

MCA Engineering & Construction
BATON ROUGE - NEW ORLEANS

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BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
HOUMA, LA. 70363

STAMP:

STATE OF LOUISIANA
M. KIMBALL SCHLAFLY
REG. No. 27699
REGISTERED PROFESSIONAL ENGINEER
09/11/2026

REV	DESCRIPTION	DATE	BY

DESIGN DAB
DRAWN GEM
CHECK MKS
SCALE AS NOTED
DATE 09/11/2026

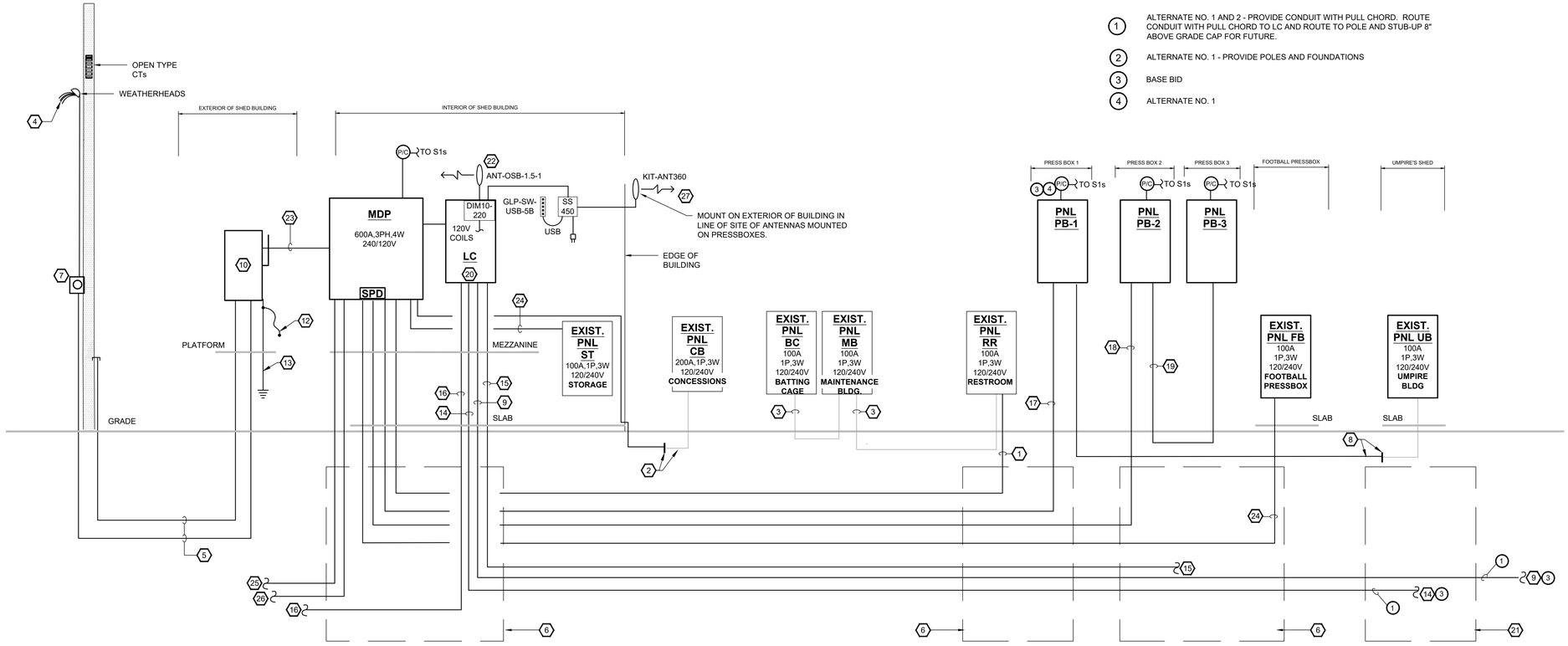
DWG TITLE: BALLFIELD NO. 5 - ELECTRICAL

DWG No. E104

KEY NOTES: (ALTERNATES)

ALL WORK SHOWN ON DRAWING IS PART OF BASE BID, UNLESS NOTED OTHERWISE. REFER TO DESCRIPTION OF BASE BID AND ALTERNATES ON SHEET E000.

1. ALTERNATE NO. 1 AND 2 - PROVIDE CONDUIT WITH PULL CHORD. ROUTE CONDUIT WITH PULL CHORD TO LC AND ROUTE TO POLE AND STUB-UP 8" ABOVE GRADE CAP FOR FUTURE.
2. ALTERNATE NO. 1 - PROVIDE POLES AND FOUNDATIONS
3. BASE BID
4. ALTERNATE NO. 1

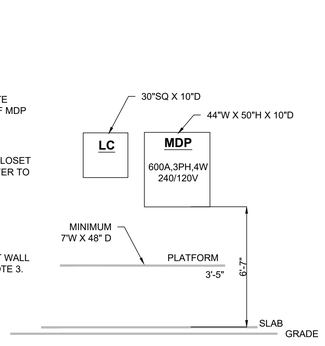


1 ELECTRICAL FEEDER DIAGRAM (EXISTING AND NEW)
NONE

2 STORAGE BUILDING (INTERIOR EXISTING CONDITIONS)
SCALE: N.T.S.

SCOPE OF WORK:

1. PROVIDE NEW ACCESS PLATFORM ON SOUTH INTERIOR WALL FOR NEW ELECTRICAL EQUIPMENT. REFER TO SHEET S1 AND 2/E102.
2. DEMOLISH EXISTING STAIR AND CLOSET BELOW TO CLOSET ON EAST WALL.
3. EXTEND EXISTING EAST CLOSET WALL IF NEEDED.
4. REMOVE/MODIFY EXISTING CEILING RAFTERS IF NEEDED TO ALLOW FOR PROPER HEADROOM AND WORKING CLEARANCE PER NEC OF NEW EQUIPMENT.

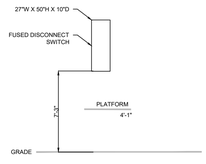


3 INTERIOR PLATFORM ELEVATION
SCALE: N.T.S.

4 STORAGE BUILDING (EXTERIOR EXISTING CONDITIONS)
SCALE: N.T.S.

SCOPE OF WORK:

1. PROVIDE NEW PLATFORM ON SOUTH EXTERIOR WALL FOR NEW SERVICE ENTRANCE DISCONNECT SWITCH. REFER TO SHEET S1 AND 2/E102.



5 EXTERIOR PLATFORM ELEVATION
SCALE: N.T.S.

KEY NOTES:

1. 1 1/4" PVC, 3 #3's & 1 #6 GND FROM EXISTING PANEL TO DESIGNATED CIRCUIT BREAKER IN PANEL. REFER TO SHEET E100.
2. EXISTING FEEDER IN 2 1/2" C. CUT INTO EXISTING CONDUIT AND EXTEND AS REQUIRED TO PANEL AS SHOWN. ROUTE 3 #3/0 & 1 #6 GND FROM EXISTING PANEL TO DESIGNATED CIRCUIT BREAKER IN PANEL. REFER TO SHEET E105.
3. EXISTING UNDERGROUND FEEDER TO REMAIN.
4. ARRANGE WITH CLECO TO PROVIDE A NEW 600A, 240V, 3 PHASE, 4 WIRE UNDERGROUND SERVICE TO PLAYGROUND AS SHOWN. COORDINATE ALL SLECO REQUIREMENTS AND INSTALL ELECTRICAL SERVICE IN ACCORDANCE WITH CLECO'S INSTALLATION STANDARDS.
5. PROVIDE (2) FEEDERS EACH (4) 350 KCMIL, 4"C. PROVIDE (1) 4" SPARE WITH PULL CHORD AND STUB-UP AT ELECTRICAL SERVICE POLE 7' ABOVE GRADE AND CAP. PROVIDE SLACK AT TOP OF POLE FOR SLECOs CONNECTIONS. COORDINATE WITH SLECO.
6. PROVIDE IN-GROUND PULL BOX 24"SQ X 24" DEEP POLYMER CONCRETE BOX, TIER 15, OPEN BOTTOM, WITH BOLTED COVER. LOCATION OF JUNCTION BOX TO BE DETERMINED IN THE FIELD AND APPROVED BY ENGINEER/OWNER'S REPRESENTATIVE.
7. PROVIDE 600A/3P, NEMA 3R FUSED, FUSED AT 600A/3P MOUNTED ON STEEL PLATFORM. REFER TO STRUCTURAL DRAWING FOR STEEL PLATFORM.
8. EXISTING FEEDER IN 1"C. CUT INTO EXISTING CONDUIT AND EXTEND AS REQUIRED TO PANEL AS SHOWN. ROUTE 3 #4 & 1 #8 GND FROM EXISTING PANEL TO DESIGNATED CIRCUIT BREAKER IN PANEL. REFER TO SHEET E101.
9. 2" PVC; 3#1/0, AWG (AL) AND 1 #4 (AL) GND, TO BALLFIELD #5 LIGHTING. REFER TO SHEET E100 AND SHEET E104
10. 600A/3P, 240V, NEMA 3R, FUSED DISCONNECT SWITCH FUSED AT 600 AMPS.
11. 1/0 BONDING JUMPER SIZED PER NFPA 70 SECTION 250.102(C)
12. 1/0 STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR - BOND TO METAL EQUIPMENT METAL RACK.
13. 1/0 STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR - GREEN INSULATION.
14. 2 1/2" PVC; 3#250, AWG (AL) AND 1 #2 (AL) GND, TO BALLFIELD #1 LIGHTING. REFER TO SHEET E100 AND SHEET E101
15. 2 1/2" PVC; 3#350, AWG (AL) AND 1 #1 (AL) GND, TO BALLFIELD #3 & 4 LIGHTING. REFER TO SHEET E100 AND SHEET E103.
16. 1 1/4" PVC; 3#3s, AWG (AL) AND 1 #6 (AL) GND, TO BALLFIELD #2 LIGHTING. REFER TO SHEET E100 AND SHEET E102.
17. 1 1/4" PVC; 3#3s, AWG AND 1 #8 GND, REFER TO SHEET E100 AND SHEET E101.
18. 1 1/4" PVC; 3#3s, AWG AND 1 #8 GND, REFER TO SHEET E100 AND SHEET E102.
19. 1 1/4" PVC; 3#3s, AWG AND 1 #8 GND, REFER TO SHEET E100 AND SHEET E103.
20. LIGHTING CONTACTOR CABINET, NEMA 3R WITH LOCKABLE HINGED DOOR, SIZED AS REQUIRED. PROVIDE (2) 150A/3P, 240V, ELECTRICALLY HELD LIGHTING CONTACTORS WITH 120V COILS. PROVIDE (2) 60A/3P, 240V ELECTRICALLY HELD LIGHTING CONTACTORS WITH 120V COILS. PROVIDE ON/OFF/AUTO SWITCH MOUNTED THROUGH DOOR AND WIRED IN ACCORDANCE WITH WIRING DIAGRAM 2 ON SHEET E401. PROVIDE ENGRAVED LABELS ON CABINET AND SWITCH, AND ADHESIVE LABELS ON CONTACTORS AND WIRES. PROVIDE GROUND BUSS FOR TERMINATION AND BONDING OF ALL CIRCUITS AND CABINETS.
21. PROVIDE IN-GROUND PULL BOX 11"X18" X 18" DEEP POLYMER CONCRETE BOX, TIER 15, OPEN BOTTOM, WITH BOLTED COVER. LOCATION OF JUNCTION BOX TO BE DETERMINED IN THE FIELD AND APPROVED BY ENGINEER/OWNER'S REPRESENTATIVE.
22. WIRELESS LIGHTING CONTROLLER. BASIS OF DESIGN IS SYNAPSE DIM10-220 WIRE THROUGH CONTACTOR CONTROL COILS AS SHOWN ON WIRING DIAGRAM THIS SHEET. MOUNT UNIT INSIDE CABINET WITH REMOTE ANTENNA MOUNTED ON ROOF OF SHED.
23. 4" PVC; 2 SETS EACH (4) 350 KCMIL, 1 #1 GND.
24. 2" PVC; 3#3/0, AWG (AL) AND 1 #4 (AL) GND, TO PANEL FB IN FOOTBALL PRESSBOX. REFER TO SHEET E100 AND SHEET E103.
25. FEEDER TO SCOREBOARD AT BALLFIELD #2. REFER TO SHEETS E100 AND E102.
26. FEEDER TO S1s AT BALLFIELD #2. REFER TO SHEETS E100 AND E102.
27. WIRELESS LIGHTING CONTROLLER. BASIS OF DESIGN IS SYNAPSE WIRELESS. PROVIDE SYNAPSE SS450 CONTROLLER NEXT TO LIGHTING CONTACTOR ENCLOSURE ON MEZZANINE IN THE SHED BUILDING. UNIT SHALL CONSIST OF CONTROLLER MOUNTED ON WALL WITH ANTENNA MOUNTED ON EAVE OF OF BUILDING. PROVIDE 3/4" GRS INSTALLED THROUGH EXTERIOR WALL AND PROPERLY SEALED WATERPROOF, ROUTE ANTENNA CABLE THROUGH WALL TO CONTROLLER INSIDE. PROVIDE PUSH-BUTTON STATION TO TURN ON AND OFF LIGHTING FOR ALL 4 BALLFIELDS. PROVIDE PROGRAMMING AND STARTUP AS REQUIRED.

MCA
Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
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ELECTRICAL ENGINEER
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REV	DESCRIPTION	DATE	BY

DESIGN DAB
DRAWN GEM
CHECK MKS
SCALE AS NOTED
DATE 09/11/2026

DWG TITLE: ELECTRICAL FEEDER DIAGRAM

DWG No. E201

SPORTS LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	VOLT	LAMP	WATTS	LUMENS	CCT	MOUNTING
POLE P1-1	**1. KONLITE VEGA #KVGP80057KDHV33 (a,b,c,d)** **2. KONLITE VEGA #KVGP80057KDHV44 (e)** **S1 - STONCO #SL1-T2-LPA-A08-740** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6''-TIPWIDTH 10''** 5 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	3200 800	502,400 125,600	5000K	YOKE MOUNTED
POLE P1-2	**1. KONLITE VEGA #KVGP80057KDHV33 (a,b,d,e,f)** **2. KONLITE VEGA #KVGP80057KDHV44 (g)** **3. KONLITE VEGA #KVGP80057KDHV55 (c)** **S1 - STONCO #SL1-T2-LPA-A08-740** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6''-TIPWIDTH 10''** 7 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	4000 1600 800	628,000 125,600 125,600	5000K	YOKE MOUNTED
POLE P1-3	**1. KONLITE VEGA #KVGP80057KDHV33 (a,c,d,e,g,h)** **3. KONLITE VEGA #KVGP80057KDHV55 (b,f)** **S1 - STONCO #SL1-T2-LPA-A08-740** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6''-TIPWIDTH 10''** 8 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	4800 1600	753,600 251,200	5000K	YOKE MOUNTED
POLE P1-4	**1. KONLITE VEGA #KVGP80057KDHV33 (a,b,d,e,f,h)** **3. KONLITE VEGA #KVGP80057KDHV55 (c,g)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6''-TIPWIDTH 10''** 8 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	4800 1600	753,600 251,200	5000K	YOKE MOUNTED
POLE P1-5	**1. KONLITE VEGA #KVGP80057KDHV33 (b,c,d,f,g,h)** **2. KONLITE VEGA #KVGP80057KDHV44 (a)** **3. KONLITE VEGA #KVGP80057KDHV55 (e)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6''-TIPWIDTH 10''** 8 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	4800 800 800	753,600 125,600 125,600	5000K	YOKE MOUNTED
POLE P1-6	**1. KONLITE VEGA #KVGP80057KDHV33 (b,c,d,e)** **2. KONLITE VEGA #KVGP80057KDHV44 (a)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6''-TIPWIDTH 10''** 6 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	3200 800	502,400 125,600	5000K	YOKE MOUNTED

FIXTURES LISTED ARE BASIS OF DESIGN ONLY. SUBSTITUTIONS SHALL BE ALLOWED PROVIDED THEY ARE EQUIVALENT TO LISTED FIXTURES, AND PHOTOMETRICS PROVIDED TO DEMONSTRATE PERFORMANCE EQUIVALENCY. BALLFIELD SHALL BE ILLUMINATED PER IES RP-6-20, MINIMUM AVERAGE OF 50 FOOTCANDLES INFIELD AND 30 FT OUTFIELD, CALCULATED USING 0.8 LLF, MAX-TO-MIN RATIO OF 2 OR LESS.

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	VOLT	WATTS	LUMENS	CCT	MOUNTING
POLE LUMINAIRES	1. KONLITE VEGA #KVGP80057KDHV33	240	800	125,600	5000K	YOLK MOUNTED
	2. KONLITE VEGA #KVGP80057KDHV44	240	800	125,600	5000K	YOLK MOUNTED
	3. KONLITE VEGA #KVGP80057KDHV55	240	800	125,600	5000K	YOLK MOUNTED
S1	STONCO #SL1-T2-LPA-A08-740 (MTG HT 20')	120	118	18072	4000K	POLE MTD

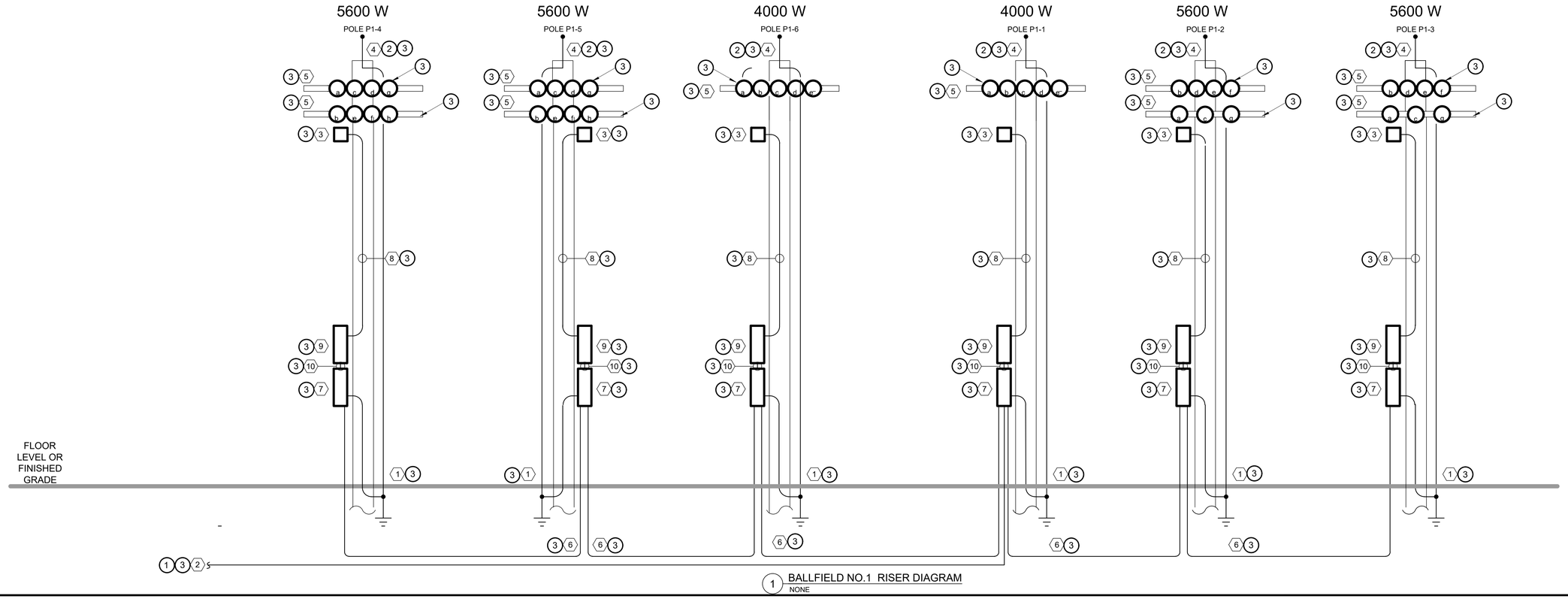
KEY NOTES: (ALTERNATES)

ALL WORK SHOWN ON DRAWING IS PART OF BASE BID, UNLESS NOTED OTHERWISE. REFER TO DESCRIPTION OF BASE BID AND ALTERNATES ON SHEET E000.

1. ALTERNATE NO. 1 AND 2 - PROVIDE CONDUIT WITH PULL CHORD. ROUTE CONDUIT WITH PULL CHORD TO LC AND ROUTE TO POLE AND STUB-UP 8" ABOVE GRADE CAP FOR FUTURE.
2. ALTERNATE NO. 1 - PROVIDE POLES AND FOUNDATIONS
3. BASE BID
4. ALTERNATE NO. 1

KEY NOTES:

1. #4 AWG CU GND FROM LIGHTNING ARRESTOR, AND #6 AWG CU GND FROM TERMINAL CABINET TO 3/4 X 10 DRIVEN GROUND ROD.
2. ROUTE THROUGH LIGHTING CONTACTOR. REFER TO SHEETS E101 AND E201.
3. NEMA-4X 304 STAINLESS STEEL CABINET WITH SPLICES FROM RISER CABLE TO TYPE SO CORDS TO EACH FIXTURE. USE TERMINAL STRIPS OR MULTI CONDUCTOR CABLE CONNECTOR. PROVIDE GROUND BUS TO TERMINATE ALL GROUND WIRED. MOUNT ONTO POLE. ALL TYPE SO CORDS SHALL EXIT BOTTOM OF CABINET THROUGH CABLE GLANDS.
4. SPORTSLIGHTING POLE. PROVIDE LIGHTNING ARRESTOR AT TOP OF POLE WITH #4 AWG CONDUCTOR ROUTED INSIDE POLE AND GROUNDED AT BASE OF POLE. BOND TO STEEL FIXTURE BRACKETS.
5. GALVANIZED STEEL CROSS-ARM, THROUGH BOLTED TO CONCRETE POLE SIZED FOR 6 TOTAL FIXTURES AND RATED FOR 130 MPH WIND LOAD. MOUNT 70' ABOVE GRADE. LEAVE END LOCATIONS OPEN FOR FUTURE FIXTURES. MOUNT SPORTS LIGHT AND PROVIDE #14 AWG TYPE SO CORD TO TERMINATION CABINET. PROVIDE GALVANIZED CABLE SUPPORTS ON CROSS-ARMS. DO NOT USE WIRE TIES.
6. FEEDER TO POLE TERMINATION CABINET. SEE SHEET E101 FOR CONDUIT AND CABLE SIZING.
7. NEMA-4X 304 STAINLESS STEEL TERMINATION CABINET, MOUNTED TO POLE. FEEDERS AND RISER CABLE SHALL BE ROUTED TO POLE AND INTO TERMINATION CABINET. COORDINATE ALL DETAILS PRIOR TO SUBMITTING SHOP DRAWINGS FOR LIGHTING ASSEMBLY. CABINET SHALL BE MOUNTED ABOVE BFE OF 10'-0". SEE DETAIL #1, SHEET E401.
8. ROUTE RISER CABLES THROUGH HANDHOLE OF COMPOSITE SPORTS LIGHTING POLES, MINIMUM #14 AWG. PROVIDE INDIVIDUAL CONDUCTOR WITH GROUND WIRE, OR MULTI CONDUCTOR CABLE WITH CONNECTORS.
9. NEMA-4X STAINLESS CABINET FOR REMOTE DRIVERS. MOUNT TO POLE ABOVE TERMINAL CABINET. FEEDERS AND CABLES TO TERMINAL CABINET SHALL BE ROUTED EXTERIOR ON POLE. REFER TO KEYNOTE 10. COORDINATE ALL DETAILS PRIOR TO SUBMITTING SHOP DRAWINGS FOR LIGHTING ASSEMBLY. REFER TO SPECIFICATION SECTION 26 55 68 ATHLETIC FIELD LIGHTING. SEE DETAIL #7 ON SHEET E401.
10. ROUTE RISER CABLES TO REMOTE DRIVERS FOR BALLFIELD LIGHTS IN CONDUIT SURFACE MOUNTED TO POLE.



1 BALLFIELD NO.1 RISER DIAGRAM
NONE

MCA
Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
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CIVIL
09/11/2026

REV	DESCRIPTION	DATE	BY

DESIGN DAB
DRAWN GEM
CHECK MKS
SCALE AS NOTED
DATE 09/11/2026

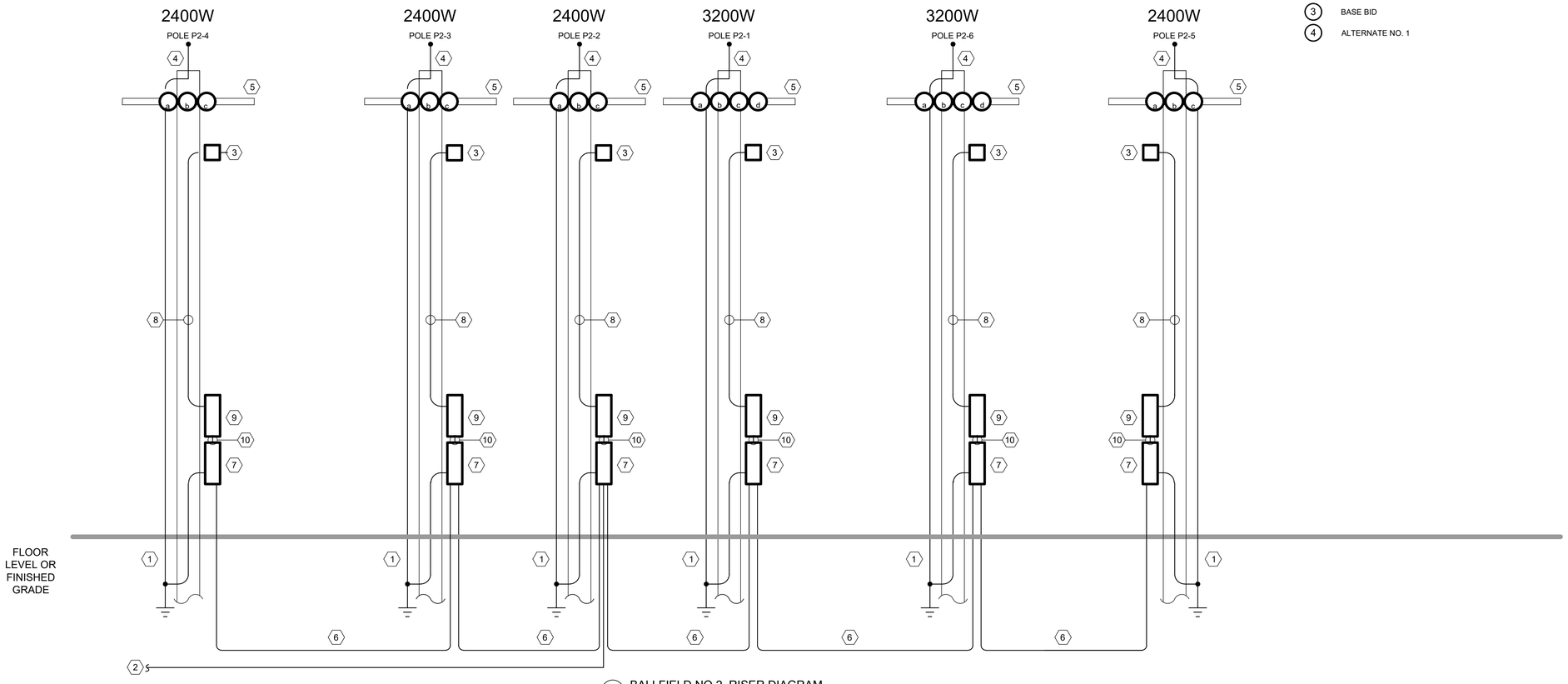
DWG TITLE: BALLFIELD NO. 1 RISER DIAGRAM

DWG No. E202

SPORTS LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	VOLT	LAMP	WATTS	LUMENS	CCT	MOUNTING
POLE P2-1	**1. KONLITE VEGA #KVGP80057KDHV33 (b,c)** **2. KONLITE VEGA #KVGP80057KDHV44 (a)** **3. KONLITE VEGA #KVGP80057KDHV55 (d)** **S1 - STONCO #SL1-T2-LPA-A08-740** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 4 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	1600 800 800	251,200 125,600 125,600	5000K	YOKE MOUNTED
POLE P2-2	**2. KONLITE VEGA #KVGP80057KDHV44 (a,c)** **3. KONLITE VEGA #KVGP80057KDHV55 (b)** **S1 - STONCO #SL1-T2-LPA-A08-740** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 3 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	1600 800	251,200 125,600	5000K	YOKE MOUNTED
POLE P2-3	**2. KONLITE VEGA #KVGP80057KDHV44 (b)** **3. KONLITE VEGA #KVGP80057KDHV55 (a,c)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 3 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	800 1600	125,600 251,200	5000K	YOKE MOUNTED
POLE P2-4	**2. KONLITE VEGA #KVGP80057KDHV44 (b)** **3. KONLITE VEGA #KVGP80057KDHV55 (a,c)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 4 NEW LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	800 1600	125,600 251,200	5000K	YOKE MOUNTED
POLE P2-5	**2. KONLITE VEGA #KVGP80057KDHV44 (a,c)** **3. KONLITE VEGA #KVGP80057KDHV55 (b)** **S1 - STONCO #SL1-T2-LPA-A08-740** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 3 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	1600 800	251,200 125,600	5000K	YOKE MOUNTED
POLE P2-6	**1. KONLITE VEGA #KVGP80057KDHV33 (b)** **2. KONLITE VEGA #KVGP80057KDHV44 (c,d)** **3. KONLITE VEGA #KVGP80057KDHV55 (a)** **S1 - STONCO #SL1-T2-LPA-A08-740** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 4 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	800 1600 800	125,600 251,200 125,600	5000K	YOKE MOUNTED

FIXTURES LISTED ARE BASIS OF DESIGN ONLY. SUBSTITUTIONS SHALL BE ALLOWED PROVIDED THEY ARE EQUIVALENT TO LISTED FIXTURES, AND PHOTOMETRICS PROVIDED TO DEMONSTRATE PERFORMANCE EQUIVALENCY. BALLFIELD SHALL BE ILLUMINATED PER IES RP-6-20, MINIMUM AVERAGE OF 50 FOOTCANDLES INFIELD AND 30 FOOTCANDLES OUTFIELD, CALCULATED USING 0.8 LLF, MAX-TO-MIN RATIO OF 2 OR LESS.



1 BALLFIELD NO.2 RISER DIAGRAM
NONE

KEY NOTES:

1. #4 AWG CU GND FROM LIGHTNING ARRESTOR, AND #6 AWG CU GND FROM TERMINAL CABINET TO 3/4 X 10 DRIVEN GROUND ROD.
2. ROUTE THROUGH LIGHTING CONTACTOR. REFER TO SHEETS E101 AND E201.
3. NEMA-4X 304 STAINLESS STEEL CABINET WITH SPLICES FROM RISER CABLE TO TYPE SO CORDS TO EACH FIXTURE. USE TERMINAL STRIPS OR MULTI CONDUCTOR CABLE CONNECTOR. PROVIDE GROUND BUS TO TERMINATE ALL GROUND WIRED. MOUNT ONTO POLE. ALL TYPE SO CORDS SHALL EXIT BOTTOM OF CABINET THROUGH CABLE GLANDS.
4. SPORTSLIGHTING POLE. PROVIDE LIGHTNING ARRESTOR AT TOP OF POLE WITH #4 AWG CONDUCTOR ROUTED INSIDE POLE AND GROUNDED AT BASE OF POLE. BOND TO STEEL FIXTURE BRACKETS.
5. GALVANIZED STEEL CROSS-ARM, THROUGH BOLTED TO CONCRETE POLE SIZED FOR 6 TOTAL FIXTURES AND RATED FOR 130 MPH WIND LOAD. MOUNT 60' ABOVE GRADE. LEAVE END LOCATIONS OPEN FOR FUTURE FIXTURES. MOUNT SPORTS LIGHT AND PROVIDE #14 AWG TYPE SO CORD TO TERMINATION CABINET. PROVIDE GALVANIZED CABLE SUPPORTS ON CROSS-ARMS. DO NOT USE WIRE TIES.
6. FEEDER TO POLE TERMINATION CABINET. SEE SHEET E101 FOR CONDUIT AND CABLE SIZING.
7. NEMA-4X 304 STAINLESS STEEL TERMINATION CABINET, MOUNTED TO POLE. FEEDERS AND RISER CABLE SHALL BE ROUTED TO POLE AND INTO TERMINATION CABINET. COORDINATE ALL DETAILS PRIOR TO SUBMITTING SHOP DRAWINGS FOR LIGHTING ASSEMBLY. CABINET SHALL BE MOUNTED ABOVE BFE OF 10'-0". SEE DETAIL #1, SHEET E401.
8. ROUTE RISER CABLES THROUGH HANDHOLE OF COMPOSITE SPORTS LIGHTING POLES, MINIMUM #14 AWG. PROVIDE INDIVIDUAL CONDUCTOR WITH GROUND WIRE, OR MULTI CONDUCTOR CABLE WITH CONNECTORS.
9. NEMA-4X STAINLESS CABINET FOR REMOTE DRIVERS. MOUNT TO POLE ABOVE TERMINAL CABINET. FEEDERS AND CABLES TO TERMINAL CABINET SHALL BE ROUTED EXTERIOR ON POLE. REFER TO KEYNOTE 10. COORDINATE ALL DETAILS PRIOR TO SUBMITTING SHOP DRAWINGS FOR LIGHTING ASSEMBLY. REFER TO SPECIFICATION SECTION 26 55 68 ATHLETIC FIELD LIGHTING. SEE DETAIL #7 ON SHEET E401.
10. ROUTE RISER CABLES TO REMOTE DRIVERS FOR BALLFIELD LIGHTS IN CONDUIT SURFACE MOUNTED TO POLE.

KEY NOTES: (ALTERNATES)

ALL WORK SHOWN ON DRAWING IS PART OF BASE BID, UNLESS NOTED OTHERWISE. REFER TO DESCRIPTION OF BASE BID AND ALTERNATES ON SHEET E000.

1. ALTERNATE NO. 1 AND 2 - PROVIDE CONDUIT WITH PULL CHORD. ROUTE CONDUIT WITH PULL CHORD TO LC AND ROUTE TO POLE AND STUB-UP 8" ABOVE GRADE CAP FOR FUTURE.
2. ALTERNATE NO. 1 - PROVIDE POLES AND FOUNDATIONS
3. BASE BID
4. ALTERNATE NO. 1

MCA
Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
HOUMA, LA. 70363

STAMP:
STATE OF LOUISIANA
M. KIMBALL SCHLAFLY
REG. No. 27699
REGISTERED PROFESSIONAL ENGINEER
INTERNATIONAL ASSOCIATION OF ELECTRICAL INSPECTORS
09/11/2026

REV	DESCRIPTION	DATE	BY

DESIGN DAB
DRAWN GEM
CHECK MKS
SCALE AS NOTED
DATE 09/11/2026

DWG TITLE: BALLFIELD NO.2 RISER DIAGRAM

DWG No. E203

SPORTS LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	VOLT	LAMP	WATTS	LUMENS	CCT	MOUNTING
POLE P3-1	**2. KONLITE VEGA #KVGP80057KDHV44 (b,c)** **3. KONLITE VEGA #KVGP80057KDHV55 (a)** **S1 - STONCO #SL1-T2-LPA-A08-740** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 3 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	1600 800	251,200 125,600	5000K	YOKE MOUNTED
POLE P3-2	**1. KONLITE VEGA #KVGP80057KDHV33 (a,b,c,e,f,g,i)** **2. KONLITE VEGA #KVGP80057KDHV44 (j)** **3. KONLITE VEGA #KVGP80057KDHV55 (d,h)** **S1 - STONCO #SL1-T2-LPA-A08-740** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 10 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	5600 800 1600	879,200 125,600 251,200	5000K	YOKE MOUNTED
POLE P3-3	**1. KONLITE VEGA #KVGP80057KDHV33 (c)** **2. KONLITE VEGA #KVGP80057KDHV44 (a,b)** **3. KONLITE VEGA #KVGP80057KDHV55 (d)** **S1 - STONCO #SL1-T2-LPA-A08-740** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 4 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	800 1600 800	125,600 251,200 125,600	5000K	YOKE MOUNTED
POLE P3-4	**1. KONLITE VEGA #KVGP80057KDHV33 (b,c)** **2. KONLITE VEGA #KVGP80057KDHV44 (d)** **3. KONLITE VEGA #KVGP80057KDHV55 (a)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 4 NEW LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	1600 800 800	251,200 125,600 125,600	5000K	YOKE MOUNTED
POLE P3-5	**1. KONLITE VEGA #KVGP80057KDHV33 (a,d)** **2. KONLITE VEGA #KVGP80057KDHV44 (b)** **3. KONLITE VEGA #KVGP80057KDHV55 (c,e)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 5 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	1600 800 1600	251,200 125,600 251,200	5000K	YOKE MOUNTED
POLE P3-6	**1. KONLITE VEGA #KVGP80057KDHV33 (a,b,c,d,f,g)** **2. KONLITE VEGA #KVGP80057KDHV44 (h)** **3. KONLITE VEGA #KVGP80057KDHV55 (e)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 8 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	4800 800 800	753,600 125,600 125,600	5000K	YOKE MOUNTED
POLE P3-7	**1. KONLITE VEGA #KVGP80057KDHV33 (c,d)** **2. KONLITE VEGA #KVGP80057KDHV44 (a,b,e)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 5 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.			1600 2400	251,200 376,800		
POLE P3-8	**1. KONLITE VEGA #KVGP80057KDHV33 (d)** **2. KONLITE VEGA #KVGP80057KDHV44 (b)** **3. KONLITE VEGA #KVGP80057KDHV55 (a,c)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 4 NEW LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	800 800 1600	125,600 125,600 251,200	5000K	YOKE MOUNTED
POLE P3-9	**2. KONLITE VEGA #KVGP80057KDHV44 (a,b)** **3. KONLITE VEGA #KVGP80057KDHV55 (c)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 3 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	1600 800	251,200 125,600	5000K	YOKE MOUNTED

FIXTURES LISTED ARE BASIS OF DESIGN ONLY. SUBSTITUTIONS SHALL BE ALLOWED PROVIDED THEY ARE EQUIVALENT TO LISTED FIXTURES, AND PHOTOMETRICS PROVIDED TO DEMONSTRATE PERFORMANCE EQUIVALENCY. BALLFIELD SHALL BE ILLUMINATED PER IES RP-6-20, MINIMUM AVERAGE OF 50 FOOTCANDLES, CALCULATED USING 0.8 LLF, MAX-TO-MIN RATIO OF 2 OR LESS.

KEY NOTES:

1. #4 AWG CU GND FROM LIGHTNING ARRESTOR, AND #6 AWG CU GND FROM TERMINAL CABINET TO 3/4 X 10 DRIVEN GROUND ROD.
2. ROUTE THROUGH LIGHTING CONTACTOR. REFER TO SHEETS E101 AND E201.
3. NEMA-4X 304 STAINLESS STEEL CABINET WITH SPLICES FROM RISER CABLE TO TYPE SO CORDS TO EACH FIXTURE. USE TERMINAL STRIPS OR MULTI CONDUCTOR CABLE CONNECTOR. PROVIDE GROUND BUS TO TERMINATE ALL GROUND WIRED. MOUNT ONTO POLE. ALL TYPE SO CORDS SHALL EXIT BOTTOM OF CABINET THROUGH CABLE GLANDS.
4. SPORTSLIGHTING POLE. PROVIDE LIGHTNING ARRESTOR AT TOP OF POLE WITH #4 AWG CONDUCTOR ROUTED INSIDE POLE AND GROUNDED AT BASE OF POLE. BOND TO STEEL FIXTURE BRACKETS.
5. GALVANIZED STEEL CROSS-ARM, THROUGH BOLTED TO CONCRETE POLE SIZED FOR 6 TOTAL FIXTURES AND RATED FOR 130 MPH WIND LOAD. MOUNT 60' ABOVE GRADE. LEAVE END LOCATIONS OPEN FOR FUTURE FIXTURES. MOUNT SPORTS LIGHT AND PROVIDE #14 AWG TYPE SO CORD TO TERMINATION CABINET. PROVIDE GALVANIZED CABLE SUPPORTS ON CROSS-ARMS. DO NOT USE WIRE TIES.
6. FEEDER TO POLE TERMINATION CABINET. SEE SHEET E101 FOR CONDUIT AND CABLE SIZING.
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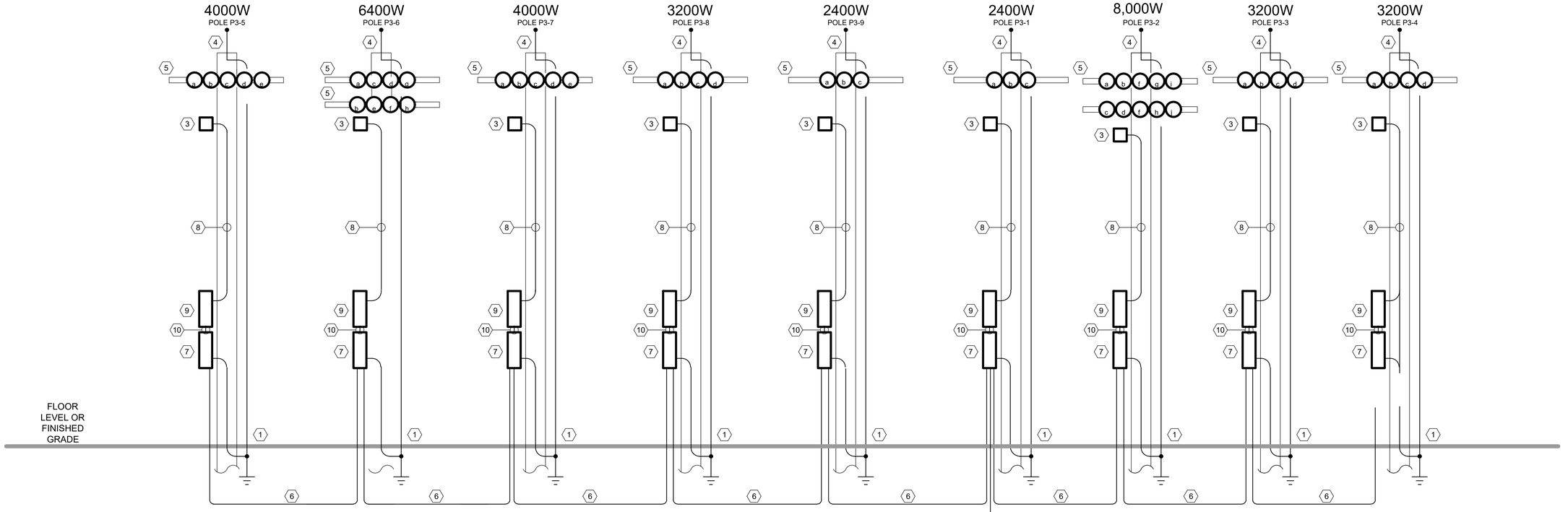
9. NEMA-4X STAINLESS CABINET FOR REMOTE DRIVERS. MOUNT TO POLE ABOVE TERMINAL CABINET. FEEDERS AND CABLES TO TERMINAL CABINET SHALL BE ROUTED EXTERIOR ON POLE. REFER TO KEYNOTE 10. COORDINATE ALL DETAILS PRIOR TO SUBMITTING SHOP DRAWINGS FOR LIGHTING ASSEMBLY. REFER TO SPECIFICATION SECTION 26 55 68 ATHLETIC FIELD LIGHTING. SEE DETAIL #7 ON SHEET E401.
10. ROUTE RISER CABLES TO REMOTE DRIVERS FOR BALLFIELD LIGHTS IN CONDUIT SURFACE MOUNTED TO POLE.

KEY NOTES: (ALTERNATES)

ALL WORK SHOWN ON DRAWING IS PART OF BASE BID, UNLESS NOTED OTHERWISE. REFER TO DESCRIPTION OF BASE BID AND ALTERNATES ON SHEET E000.

1. ALTERNATE NO. 1 AND 2 - PROVIDE CONDUIT WITH PULL CHORD. ROUTE CONDUIT WITH PULL CHORD TO LC AND ROUTE TO POLE AND STUB-UP 8" ABOVE GRADE CAP FOR FUTURE.
2. ALTERNATE NO. 1 - PROVIDE POLES AND FOUNDATIONS
3. BASE BID
4. ALTERNATE NO. 1



1 BALLFIELDS NO. 3 AND NO. 4 RISER DIAGRAM
NONE

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
HOUMA, LA. 70363

MCA
Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

STAMP:
STATE OF LOUISIANA
M. KIMBALL SCHLAFLY
REG. No. 27699
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
09/11/2026

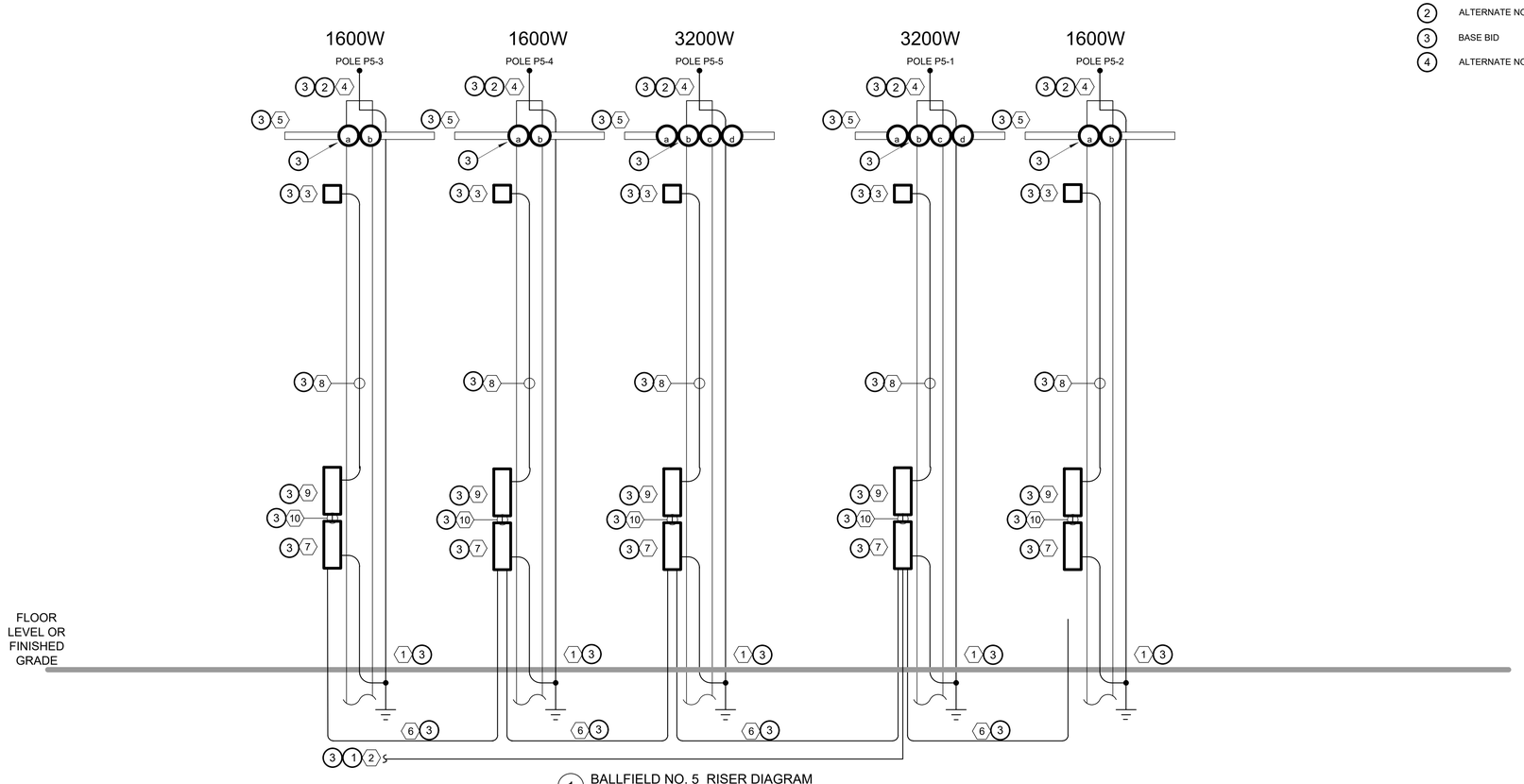
REV	DESCRIPTION	DATE	BY

DESIGN DAB
DRAWN GEM
CHECK MKS
SCALE AS NOTED
DATE 09/11/2026

DWG TITLE:
BALLFIELDS NO. 3 & NO. 4
RISER DIAGRAM

DWG No. E204

SPORTS LIGHTING FIXTURE SCHEDULE							
FIXTURE TYPE	DESCRIPTION	VOLT	LAMP	WATTS	LUMENS	CCT	MOUNTING
POLE P5-1	**1. KONLITE VEGA #KVGP80057KDHV33 (a)** **2. KONLITE VEGA #KVGP80057KDHV44 (c,d)** **3. KONLITE VEGA #KVGP80057KDHV55 (b)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 4 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	800 1600 800	125,600 251,200 125,600	5000K	YOKE MOUNTED
POLE P5-2	**2. KONLITE VEGA #KVGP80057KDHV44 (a,c)** **3. KONLITE VEGA #KVGP80057KDHV55 (b)** **S1 - STONCO #SL1-T2-LPA-A08-740** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 3 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	1600 800	251,200 125,600	5000K	YOKE MOUNTED
POLE P5-3	**3. KONLITE VEGA #KVGP80057KDHV55 (a,b)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 2 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	1600	251,200	5000K	YOKE MOUNTED
POLE P5-4	**2. KONLITE VEGA #KVGP80057KDHV44 (a)** **3. KONLITE VEGA #KVGP80057KDHV55 (b)** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 2 LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	800 800	125,600 125,600	5000K	YOKE MOUNTED
POLE P5-5	**1. KONLITE VEGA #KVGP80057KDHV33 (d)** **2. KONLITE VEGA #KVGP80057KDHV44 (a,b)** **3. KONLITE VEGA #KVGP80057KDHV55 (c)** **S1 - STONCO #SL1-T2-LPA-A08-740** **POLE - MEYERS UTILITY STRUCTURES, LLC. - DODECAGONAL SHAPED TAPERED POLE, BUTTWIDTH 22.6"-TIPWIDTH 10"** 4 NEW LED SPORTS LIGHTS, LUMENS AND DISTRIBUTION PER PHOTOMETRIC CALCULATION, MOUNTING HARDWARE AS REQUIRED FOR NEW AIMING ON EXISTING POLES AND ARMS. PROVIDE NEW TERMINAL STRIPS/ ENCLOSURES WITH CORD CONNECTIONS TO FIXTURES.	240	LED	800 1600 800	125,600 251,200 125,600	5000K	YOKE MOUNTED
FIXTURES LISTED ARE BASIS OF DESIGN ONLY. SUBSTITUTIONS SHALL BE ALLOWED PROVIDED THEY ARE EQUIVALENT TO LISTED FIXTURES, AND PHOTOMETRICS PROVIDED TO DEMONSTRATE PERFORMANCE EQUIVALENCY. BALLFIELD SHALL BE ILLUMINATED PER IES RP-6-20, MINIMUM AVERAGE OF 50 FOOTCANDLES INFIELD AND 30 FOOTCANDLES OUTFIELD, CALCULATED USING 0.8 LLF, MAX-TO-MIN RATIO OF 2 OR LESS.						



1 BALLFIELD NO. 5 RISER DIAGRAM
NONE

KEY NOTES:

1. #4 AWG CU GND FROM LIGHTNING ARRESTOR, AND #6 AWG CU GND FROM TERMINAL CABINET TO 3/4 X 10 DRIVEN GROUND ROD.
2. ROUTE THROUGH LIGHTING CONTACTOR. REFER TO SHEETS E101 AND E201.
3. NEMA-4X 304 STAINLESS STEEL CABINET WITH SPLICES FROM RISER CABLE TO TYPE SO CORDS TO EACH FIXTURE. USE TERMINAL STRIPS OR MULTI CONDUCTOR CABLE CONNECTOR. PROVIDE GROUND BUS TO TERMINATE ALL GROUND WIRED. MOUNT ONTO POLE. ALL TYPE SO CORDS SHALL EXIT BOTTOM OF CABINET THROUGH CABLE GLANDS.
4. SPORTSLIGHTING POLE. PROVIDE LIGHTNING ARRESTOR AT TOP OF POLE WITH #4 AWG CONDUCTOR ROUTED INSIDE POLE AND GROUNDED AT BASE OF POLE. BOND TO STEEL FIXTURE BRACKETS.
5. GALVANIZED STEEL CROSS-ARM, THROUGH BOLTED TO CONCRETE POLE SIZED FOR 6 TOTAL FIXTURES AND RATED FOR 130 MPH WIND LOAD. MOUNT 60' ABOVE GRADE. LEAVE END LOCATIONS OPEN FOR FUTURE FIXTURES. MOUNT SPORTS LIGHT AND PROVIDE #14 AWG TYPE SO CORD TO TERMINATION CABINET. PROVIDE GALVANIZED CABLE SUPPORTS ON CROSS-ARMS. DO NOT USE WIRE TIES.
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10. ROUTE RISER CABLES TO REMOTE DRIVERS FOR BALLFIELD LIGHTS IN CONDUIT SURFACE MOUNTED TO POLE.

KEY NOTES: (ALTERNATES)

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2. ALTERNATE NO. 1 - PROVIDE POLES AND FOUNDATIONS
3. BASE BID
4. ALTERNATE NO. 1

MCA
Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
HOUMA, LA. 70363

STAMP:
STATE OF LOUISIANA
M. KIMBALL SCHLAFLY
REG. No. 27699
REGISTERED
PROFESSIONAL ENGINEER
MECHANICAL ENGINEER
09/11/2026

REV	DESCRIPTION	DATE	BY

DESIGN DAB
DRAWN GEM
CHECK MKS
SCALE AS NOTED
DATE 09/11/2026

DWG TITLE:
BALLFIELDS NO. 5
RISER DIAGRAM

DWG No. E205

NAME: MDP

LOCATION: MEZZ. SHED BLDG.

VOLTAGE (L-L): 240
VOLTAGE (L-N): 120
NUMBER OF PHASES: 3
NEUTRAL BUS: YES
FEED-THRU LUGS: YES

BUS: 600
MAIN: MLO
KAIC: 22
NEMA 1 SURFACE

CKT #	ITEM	AMP RATE	# POLE	LEFT LOADING (VA) A	B	C	RIGHT LOADING (VA) A	B	C	# POLE	AMP RATE	ITEM	CKT #
1	BALLFIELD 1	125	3	11200			5334			3	60	BALLFIELD 2	2
3	-				11200			5334				-	4
5	-					11200			5334			-	6
7	BALL FIELD 3 & 4	150	3	12667			4000			3	50	BALLLFIELD 5	8
9	-				12667			4000				-	10
11	-					12667			4000			-	12
13													14
15													16
17	PB-1	70				6000			3122	2	50	PB-2	18
19	-			5990			3055					-	20
21													22
23	EXISTING PANEL CB	200	2			19200			6000	2	50	EXISTING PANEL ST	24
25	-			19200			6000					-	26
27													28
29	EXISTING PANEL RR	100				9600				2	50	SPARE	30
31	-			9600								-	32
33													34
35	EXISTING FB-1	70	2			3600							36
37	-	-	-	3400			236			1	20	S1s BALLFIELD 2	38
39	SPACE	-	-							-	-	SPACE	40
41	LIGHTING CONTROL CIRCUIT	-	-							-	-	SPACE	42
43	SCOREBOARD BALLFIELD 2	20	1	200									44
45	SPACE	-	-							-	-	SPACE	46
47	SPACE	-	-							-	-	SPACE	48
49	SPACE	-	-							3	60	TVSS	50
51	SPACE	-	-									-	52
53	SPACE	-	-									-	54
				62257	23867	62267	18625	9334	18456				

ALTERNATE NO. 1 & 2 "FUTURE BALLFIELD 1"

ALTERNATE NO. 1 & 2 "FUTURE BALLFIELD 5"

	(VA)	(A)
TOTAL CONNECT LOAD:	194806	
PHASE A:	80882	584
PHASE B:	33201	240
PHASE C:	80723	583
PEAK DEMAND LOAD:	154885	

	LOAD	DVRSTY	DMND
1 LIGHTS	99603	1.00	99603
2 RECEPT <10KVA	0	1.00	0
RECEPT >10KVA	0	0.50	0
3 PB PNLS	25603	0.80	20482
4 CONDENSER	0	1.00	0
5 EXISTING PANELS	69600	0.50	34800

NOTES:
* PROVIDE FINAL TYPEWRITTEN DIRECTORY INSIDE PANEL.
* PROVIDE ENGRAVED PLASTIC LABEL WITH PANEL DESIGNATION ON PANEL COVER.
* PROVIDE INTEGRAL TVSS - 120 KA

NAME: PB1

LOCATION: PRESSBOX 1

VOLTAGE (L-L): 240
VOLTAGE (L-N): 120
NUMBER OF PHASES: 1
NEUTRAL BUS: YES
FEED-THRU LUGS: NO

BUS: 100
MAIN: 70
KAIC: 10
NEMA 1 SURFACE

CKT #	ITEM	AMP RATE	# POLE	LEFT LOADING (VA) A	B	RIGHT LOADING (VA) A	B	# POLE	AMP RATE	ITEM	CKT #
1	PRESS BOX #1 RECEPTACLES/LIGHT	20	1	600		590		1	20	S1s	2
3	PRESS BOX #1 A/C	20	1		1200		1200	1	20	PRESS BOX #5 A/C	4
5	PRESS BOX #5 RECEPTACLES/LIGHT	20	1	600		600		1	20	SCOREBOARDS BALLFIELDS 1 & 5	6
7	SPARE	20	1					1	20	SPARE	8
9	SPACE	-	-							SPACE	10
11	SPACE	-	-							SPACE	12
13	SPACE	-	-					-	-	SPACE	14
15	PANEL UB	50	2		3600			-	-	SPACE	16
17				3600				-	-	SPACE	18
				4800	4800	1190	1200				

	(VA)	(A)
TOTAL CONNECTED LOAD:	11990	
PHASE A:	5990	49.9
PHASE C:	6000	50.0

	LOAD	DVRSTY
1 LIGHTS	2390	1.00
2 RECEPT <=	1200	1.00
RECEPT >	0	0.50
3 A/C	1200	1.00
4 CONDENSE	0	1.00
5 HEAT	0	0.00
6 HPU	0	1.00
7 WTR HTR	0	0.50
8 REFRIGER/	0	0.50
9 KITCHEN	0	0.50
10 ELEVATOR	0	0.50
11 MISC	0	0.50
12 SUBFEED I	0	1.00

NOTES:
* PROVIDE FINAL TYPEWRITTEN DIRECTORY INSIDE PANEL
* PROVIDE ENGRAVED PLASTIC LABEL WITH PANEL DESIGNATION ON PANEL COVER
*
*

NAME: PB2

LOCATION: PRESSBOX 2

VOLTAGE (L-L): 240
VOLTAGE (L-N): 120
NUMBER OF PHASES: 1
NEUTRAL BUS: YES
FEED-THRU LUGS: NO

BUS: 100
MAIN: 50
KAIC: 10
NEMA 1 FLUSH

CKT #	ITEM	AMP RATE	# POLE	LEFT LOADING (VA) A	B	RIGHT LOADING (VA) A	B	# POLE	AMP RATE	ITEM	CKT #
1	PRESS BOX #2 RECEPTACLES/LIGHT	20	1	600		472		1	20	S1s	2
3	PRESS BOX #2 AC	20	1		1200			1	20	SPARE	4
5	SPARE	20	1			240		1	20	SPACE	6
7	SPACE	20	1					1	20	SPACE	8
9	SPACE	-	-			1800		2	40	PANEL PB3	10
11	SPACE	-	-				1854			PANEL PB3	12
13		-	-					-	-		14
15		-	-					-	-		16
17		-	-					-	-		18
				600	1200	2512	1854				

	(VA)	(A)
TOTAL CONNECTED LOAD:	6166	
PHASE A:	3112	25.9
PHASE C:	3054	25.5

	LOAD	DVRSTY
1 LIGHTS	712	1.00
2 RECEPT <=	600	1.00
RECEPT >	0	0.50
3 A/C	1200	1.00
4 CONDENSE	0	1.00
5 HEAT	0	0.00
6 HPU	0	1.00
7 WATER HE	0	0.50
8 REFRIGER/	0	0.50
9 KITCHEN	0	0.50
10 ELEVATOR	0	0.50
11 MISC	0	0.50
12 SUBFEED I	3654	1.00

NOTES:
* PROVIDE FINAL TYPEWRITTEN DIRECTORY INSIDE PANEL
* PROVIDE ENGRAVED PLASTIC LABEL WITH PANEL DESIGNATION ON PANEL COVER
*
*

NAME: PB3

LOCATION: PRESSBOX 3

VOLTAGE (L-L): 240
VOLTAGE (L-N): 120
NUMBER OF PHASES: 1
NEUTRAL BUS: YES
FEED-THRU LUGS: NO

BUS: 100A
MAIN: 40A
KAIC: 10
NEMA 1 FLUSH

CKT #	ITEM	AMP RATE	# POLE	LEFT LOADING (VA) A	B	RIGHT LOADING (VA) A	B	# POLE	AMP RATE	ITEM	CKT #
1	PRESS BOX #3 RECEPTACLES/LIGHT	20	1	600				1	20	SPARE	2
3	PRESS BOX #3 A/C	20	1		1200		354	1	20	S1s	4
5	PRESS BOX #4 A/C	20	1	1200				1	20	SPARE	6
7	SPARE	20	1					1	20	PRESS BOX #4 RECEPTACLES/LIGHT	8
9	SPACE	-	-							SPARE	10
11	SPACE	-	-								12
13	SPACE	-	-					-	-	SPACE	14
15	SPACE	-	-					-	-	SPACE	16
17	SPACE	-	-					-	-	SPACE	18
				1800	1200	0	354				

	(VA)	(A)
TOTAL CONNECTED LOAD:	3354	
PHASE A:	1800	15.0
PHASE B:	1554	13.0

	LOAD	DVRSTY
1 LIGHTS	354	1.00
2 RECEPT <=	1800	1.00
RECEPT >	0	0.50
3 A/C	1200	1.00
4 CONDENSE	0	1.00
5 HEAT	0	0.00
6 HPU	0	1.00
7 WATER HE	0	0.50
8 REFRIGER/	0	0.50
9 KITCHEN	0	0.50
10 ELEVATOR	0	0.50
11 MISC	0	0.50
12 SUBFEED I	0	1.00

NOTES:
* PROVIDE FINAL TYPEWRITTEN DIRECTORY INSIDE PANEL
* PROVIDE ENGRAVED PLASTIC LABEL WITH PANEL DESIGNATION ON PANEL COVER
*
*

MCA
Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
HOUMA, LA. 70363

STAMP:

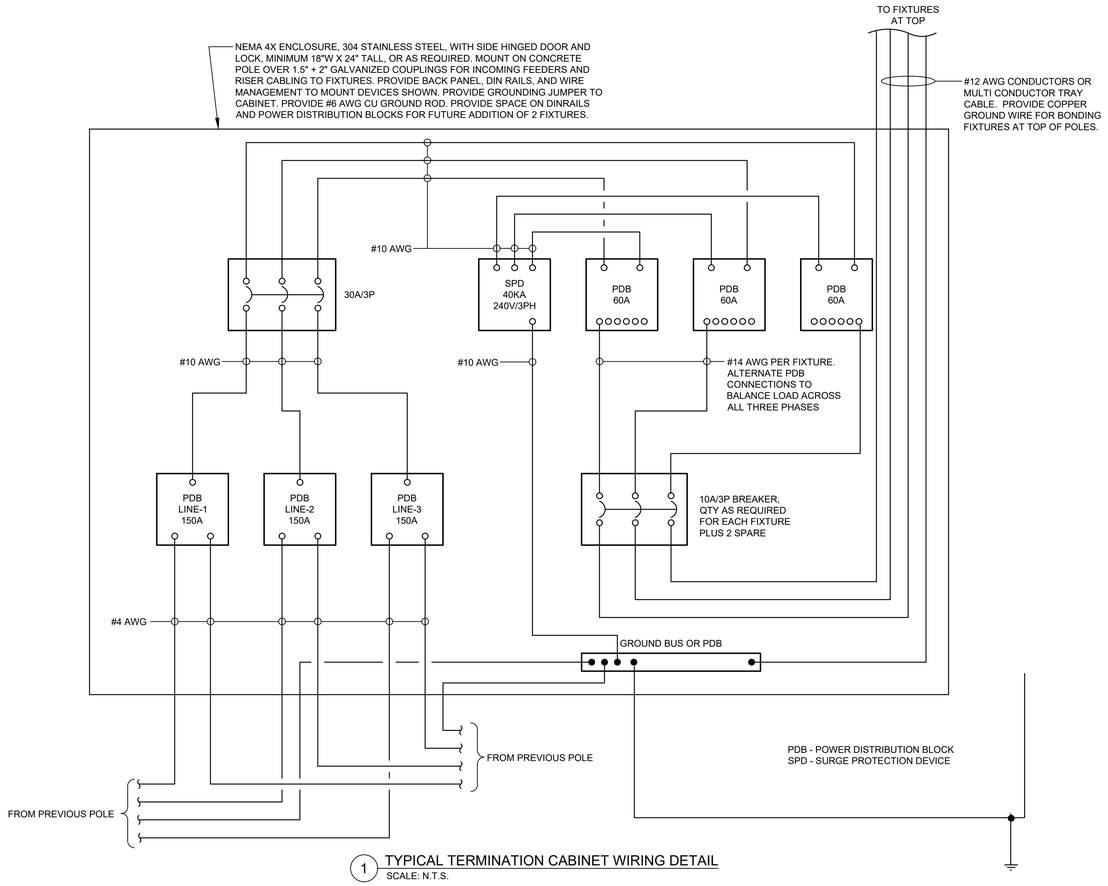
STATE OF LOUISIANA
M. KIMBALL SCHLAFLY
REG. No. 27699
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEER
09/11/2026

BY	DATE	DESCRIPTION	REV

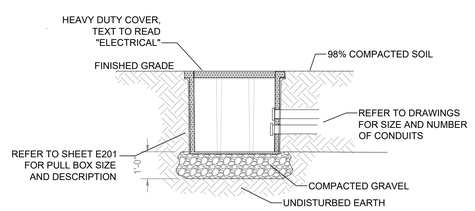
DESIGN DAB
DRAWN GEM
CHECK MKS
SCALE AS NOTED
DATE 09/11/2026

DWG TITLE: PANELBOARD SCHEDULES

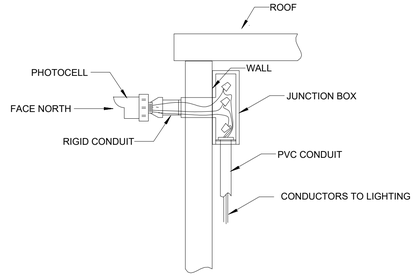
DWG No. E301



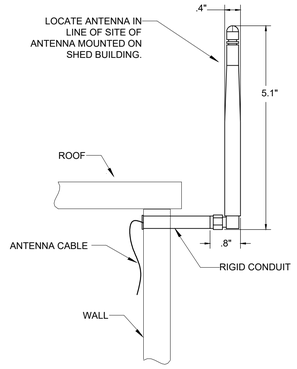
1 TYPICAL TERMINATION CABINET WIRING DETAIL
SCALE: N.T.S.



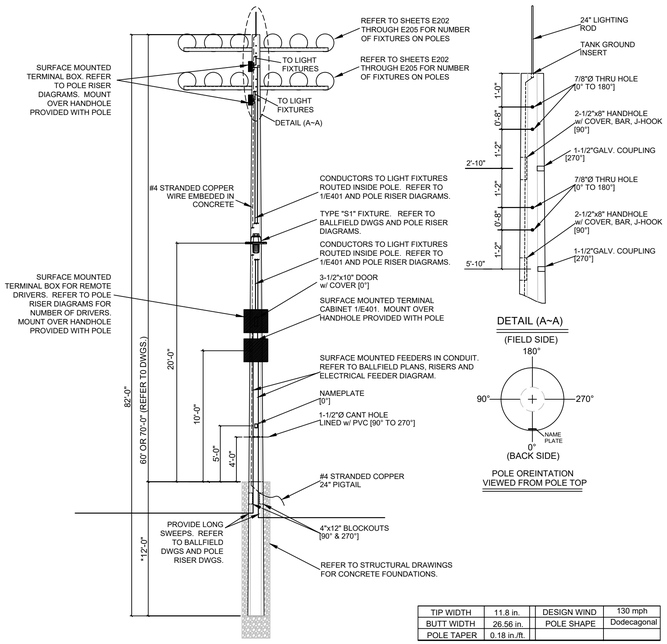
4 TYPICAL PULL BOX DETAIL
SCALE: N.T.S.



5 TYPICAL PHOTOCELL INSTALLATION DETAIL
SCALE: N.T.S.

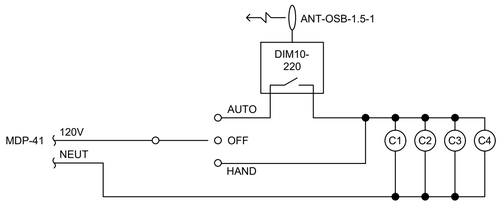


6 TYPICAL PRESSBOX ANTENNA INSTALLATION DETAIL
SCALE: N.T.S.

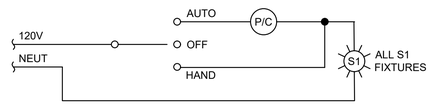


TIP WIDTH	11.8 in.	DESIGN WIND	130 mph
BUTT WIDTH	26.56 in.	POLE SHAPE	Dodecagonal
POLE TAPER	0.18 in./ft.		

7 TYPICAL POLE/LUMINAIRE INSTALLATION DETAIL
SCALE: N.T.S.



2 BALLFIELD LIGHTING CONTACTOR WIRING DIAGRAM
SCALE: N.T.S.



REFER TO PANEL SCHEDULES AND BALL FIELD DRAWINGS.

3 SECURITY LIGHTING WIRING DIAGRAM
SCALE: N.T.S.

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Engineering & Construction
BATON ROUGE - NEW ORLEANS

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BG: 801
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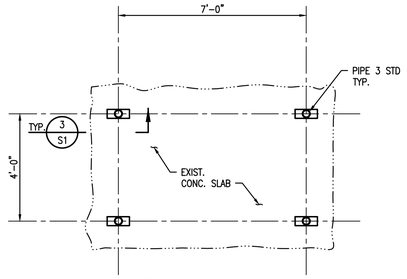
	BY	DATE	DESCRIPTION	REV

DESIGN DAB
DRAWN GEM
CHECK MKS
SCALE AS NOTED
DATE 09/11/2026

DWG TITLE:

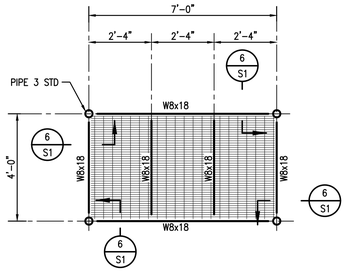
E401

DWG No.



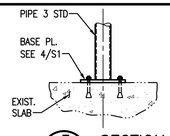
PLAN NOTES: UNLESS NOTED OTHERWISE:
1. LOCATION OF BASE PLATES AND PIPE COLUMNS TO BE VERIFIED IN EXISTING BUILDING.
2. CONTRACTOR TO VERIFY EXISTING GRADE ELEVATION PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO PROVIDE EQUIPMENT CUT SHEETS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

1 S1 INTERIOR PIPE AND BASE PLATES
3/8"=1'-0"

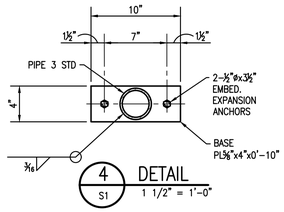


NOTE: UNLESS NOTED OTHERWISE:
1. TOP OF STEEL GRATING EL. 3'-5"
2. SEE 5/S1 FOR STEEL BEAM TO BEAM CONNECTIONS.
3. ▭ – INDICATES GALVANIZED STEEL GRATING 1"x_x_ BEARING BARS AT _ O.C.

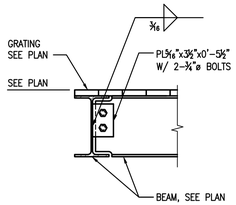
2 S1 INTERIOR FRAMING PLAN
3/8"=1'-0"



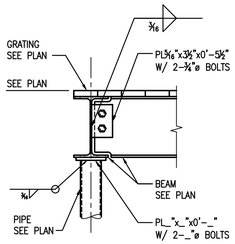
3 S1 SECTION
3/4"=1'-0"



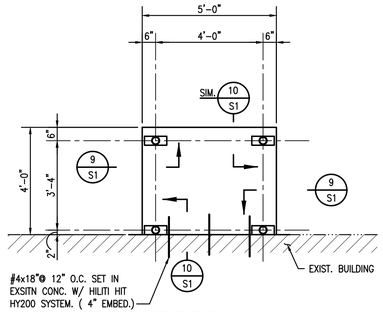
4 S1 DETAIL
1 1/2" = 1'-0"



5 S1 DETAIL
1"=1'-0"

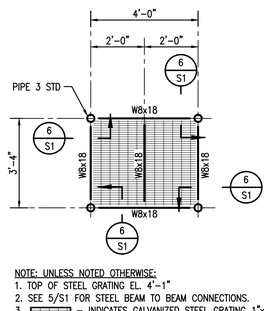


6 S1 SECTION
1"=1'-0"



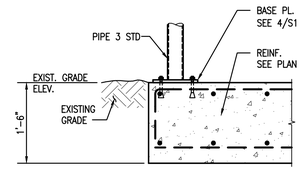
PLAN NOTES: UNLESS NOTED OTHERWISE
1. VERIFY AND CONFIRM TOP OF PAD ELEVATION REQUIREMENTS.
2. 18" SLAB THROUGHOUT REINFORCED WITH #5@12" O.C. EACH WAY. TOP & BOT.
3. CONTRACTOR TO VERIFY EXISTING GRADE ELEVATION PRIOR TO CONSTRUCTION.

7 S1 EXTERIOR PAD FOUNDATION
3/8"=1'-0"

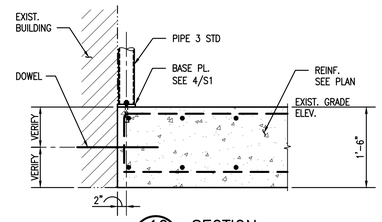


NOTE: UNLESS NOTED OTHERWISE:
1. TOP OF STEEL GRATING EL. 4'-1"
2. SEE 5/S1 FOR STEEL BEAM TO BEAM CONNECTIONS.
3. ▭ – INDICATES GALVANIZED STEEL GRATING 1"x_x_ BEARING BARS AT _ O.C.

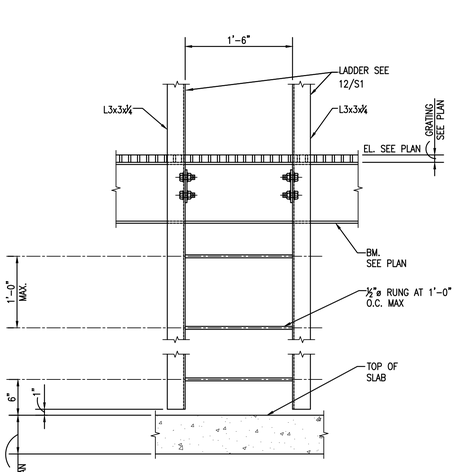
8 S1 EXTERIOR FRAMING PLAN
3/8"=1'-0"



9 S1 SECTION
3/4"=1'-0"

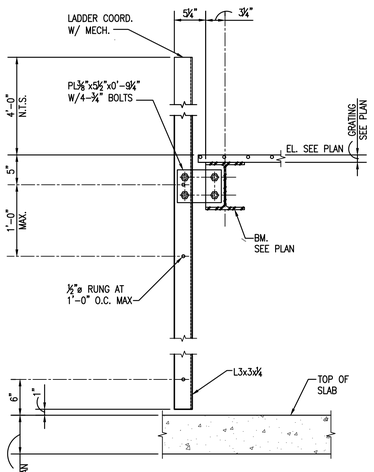


10 S1 SECTION
3/4"=1'-0"



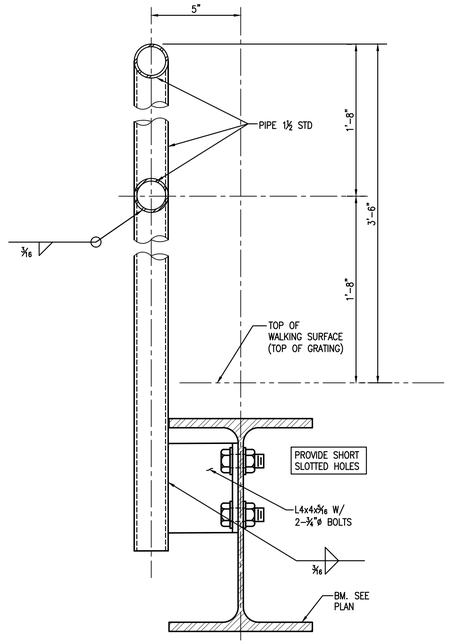
NOTES:
1. ALL STRUCTURAL STEEL & BOLTS TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION. TOUCH UP ALL DAMAGE COATING WITH STICK GALV. SEE ALSO GENERAL NOTE #___, S___ .
2. COORD. LADDER LOCATIONS WITH ARCH. DWG'S.

11 S1 DETAIL – LADDER
NTS



NOTES:
1. ALL STRUCTURAL STEEL & BOLTS TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION. TOUCH UP ALL DAMAGE COATING WITH STICK GALV. SEE ALSO GENERAL NOTE #___, S___ .
2. COORD. LADDER LOCATIONS WITH ARCH. DWG'S.

12 S1 SECTION
NTS



13 S1 TYPICAL HANDRAIL DETAIL
NTS

14 S1 GENERAL NOTES

ALL STEEL, FASTNERS, ETC. THIS DRAWING SHALL BE HOT DIP GALVANIZED, SEE GENERAL NOTES

1. EXISTING CONDITIONS:
ALL DIMENSIONS AND CONDITIONS TYING INTO OR GOVERNED BY EXISTING CONSTRUCTION ARE APPROXIMATE AND ARE NOT PURPORTED TO BE CORRECT. ALL SUCH DIMENSIONS AND CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE PREPARATION OF SHOP DRAWINGS. FIRST SUBMITTAL OF SHOP DRAWINGS MUST CONTAIN CORRECT CONDITIONS AND DIMENSIONS OBTAINED FROM THE FIELD. IF CONDITIONS AND DIMENSIONS VARY GREATLY FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PREPARATION OF SHOP DRAWINGS.
2. EXISTING UTILITIES:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION OR FABRICATION. ANY CONFLICTS OR POTENTIAL CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. CONCRETE:
A. ACI 301-10 SPECIFICATIONS
B. NORMAL WEIGHT CONCRETE: 150 PCF
C. COMPRESSIVE STRENGTH AT 28 DAYS: 4,000 PSI
4. REINFORCING STEEL:
A. REINFORCING BARS: ASTM A615, GRADE 60 OR 75
B. WELDABLE REINFORCING BARS: ASTM A706, GRADE 60
C. WELDED WIRE MESH: ASTM A1064
5. REINFORCING CLEARANCES REQUIRED FOR STRUCTURALLY SUPPORTED CONCRETE ARE AS FOLLOWS:
ACI 117 STANDARDS. UNLESS SPECIFICALLY NOTED OR SHOWN ON THE DRAWINGS, REINFORCING CLEARANCES SHALL BE AS FOLLOWS:
A. SLABS: ¾" CLEAR TOP & BOTTOM FORMED, 1" CLEAR BOTTOM, ¾" CLEAR TOP ON GRADE.
B. BEAMS: 1½" CLEAR BOTTOM FORMED, 3" CLEAR BOTTOM CAST ON EARTH, 1½" CLEAR SIDES AND TOP FORMED, 3" CLEAR SIDES EARTH FORMED, 1½" CLEAR TOP.
C. COLUMNS: 2" CLEAR, TYPICAL. 3" CLEAR SIDES EXPOSED TO EARTH.
D. WALLS: 1½" CLEAR, TYPICAL.
6. DRILLED SHAFTS:
MACHINE DRILLED, CONCRETE FILLED IN ACCORDANCE WITH SECTION 803 LSSRB.
A. TIP PENETRATION BELOW EXISTING GRADE: SEE DETAILS SHT. S2
B. DIAMETER: SEE DETAILS SHT. S2
C. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: 5,000 PSI
D. REINFORCING STEEL: SEE DETAILS SHT. S2
E. CASING: PERMANENT & STRAIGHT-SIDED REQUIRED.
F. EXPLORATORY DRILLED SHAFTS: NONE REQUIRED
G. LOAD TEST: NONE REQUIRED F.S. = 3.0
H. DESIGN LOAD: SEE DETAILS SHT. S2
7. STRUCTURAL STEEL:
A. A.I.S.C. SPECIFICATIONS; STEEL CONSTRUCTION MANUAL 14TH EDITION; ALL WIDE FLANGE SHAPES ASTM A992 GRADE 50, ALL MISCELLANEOUS SHAPES ASTM A36, HSS SHAPES ASTM A500 GRADE B Fy=46 ksi, STEEL PIPE ASTM A53 GRADE B Fy=35 ksi; HIGH STRENGTH BOLTS A325, ¾"ø MIN. EXCEPT AS NOTED OTHERWISE; ANCHOR RODS AND BOLTS ASTM F1554 GRADE 36 EXCEPT AS NOTED OTHERWISE; HEADED CONCRETE ANCHOR (H.C.A.) PER A.W.S. SPECIFICATION D1.1; DEFORMED BAR ANCHOR (D.B.A.) ASTM A496; E-70 ELECTRODES.
B. ALL STRUCTURAL STEEL ITEMS AND RESPECTIVE ANCHORS AND FASTENERS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123. PROVIDE VENT HOLES AS REQUIRED. TOUCH UP ALL DAMAGED COATING WITH HOT STICK GALVANIZING PER ASTM A780. SEE ARCHITECT FOR PAINTING.
8. DAMAGE TO EXISTING CONSTRUCTION:
ALL WORK SHALL BE DONE IN A MANNER WHICH WILL NOT DAMAGE ADJACENT EXISTING CONSTRUCTION WHICH IS TO REMAIN.
9. PATCHING MATERIALS AND INSTALLATION:
ALL MATERIALS USED FOR PATCHING SHALL MATCH EXISTING MATERIALS IN APPEARANCE AND QUALITY. WORKMANSHIP SHALL BE IN CONFORMANCE WITH TODAY'S STANDARDS BUT SHOULD BE NO LESS IN QUALITY THAN ANY OF THE ADJACENT WORKMANSHIP IN THE AREA BEING PATCHED. USE SIKA CORPORATION PRODUCTS OR AN APPROVED EQUAL.

ALL EXPOSED EXISTING REINFORCING SHALL BE CLEANED BY SAND BLASTING OR BY MACHINE WIRE BRUSHING TO A WHITE METAL FINISH PRIOR TO PLACING ANY REPAIR MATERIALS. COAT ALL PREPARED REINFORCING WITH SIKA ARMATEC 110. OR AN APPROVED EQUAL.

FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF MATERIALS. IN ADDITION, ALL LOOSE CONCRETE SHALL BE REMOVED TO OBTAIN A SOUND SURFACE OF EXISTING CONCRETE AT SPALLED AREAS.

MATERIAL MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT ON THE SITE WHEN PATCHING COMMENCES TO VERIFY PROPER PREPARATION OF SURFACES TO BE PATCHED AND APPLICATION OF MATERIALS.
10. OTHER WORK:
COORDINATE ALL OTHER WORK WITH STRUCTURAL. UNLESS DETAILED OR SPECIFIED, THE ARCHITECT IS TO APPROVE ALL OPENINGS, SLEEVES, EMBEDDED ITEMS ETC. INVOLVED IN STRUCTURAL WORK PRIOR TO THEIR BEING SET. DO NOT CUT OR DRILL HOLES IN STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT. ALL SUCH ITEMS SHALL NOT IMPAIR THE STRUCTURAL INTEGRITY OF THE MEMBER AS DETERMINED BY THE ENGINEER OF RECORD.
11. DESIGN LOADS AND OTHER PERTINENT DESIGN INFORMATION:
A. BUILDING CODE: INTERNATIONAL BUILDING CODE 2021 / ASCE 7-16
B. FLOOR LIVE LOAD: 40 PSF
C. ROOF SNOW LOAD
1. GROUND SNOW LOAD (Pg): 0 PSF
D. WIND LOAD
1. WIND SPEEDS: Vult = 145 MPH; Vasd = 112 MPH
2. RISK CATEGORY: B
3. WIND EXPOSURE CATEGORY: II
4. INTERNAL PRESSURE COEFFICIENT: ±0.18
5. EDGE WIDTH "a": 5 FEET
12. REINFORCING DETAILS FOR STRUCTURALLY SUPPORTED CONCRETE:
ACI 315 STANDARDS. UNLESS SPECIFICALLY NOTED OR SHOWN ON THE DRAWINGS, BAR LAP'S AND CONFIGURATIONS SHALL BE AS FOLLOWS:
A. TOP BARS: HOOK AT NON-CONTINUOUS ENDS. LAP 30 DIAS. AT MID-SPAN. FOR CONTINUOUS REINFORCING NOTED ON THE CONSTRUCTION DOCUMENTS AS FULLY CONT., SEE NOTE "F".
B. BOTTOM BARS: LAP 6" AT CENTER OF SUPPORT.
C. TEMPERATURE BARS IN SLAB AND INTERMEDIATE HORIZONTAL BARS IN WALLS AND BEAMS: TENSION LAP SPLICES, SEE TABLE BELOW.
D. SLAB TOP REINFORCING SUPPORT BARS: SLAB TOP REINFORCING BARS LESS THAN 6 FEET IN LENGTH SHALL HAVE 2-#4 CONT. SUPPORT BARS AND SLAB TOP REINFORCING BARS GREATER THAN 6 FEET IN LENGTH SHALL HAVE #4 SUPPORT BARS EQUALLY SPACED AT NO MORE THAN 4'-0" O.C.
E. CORNER BARS: PROVIDE CORNER BARS AT EACH OUTSIDE CORNER FOR EACH HORIZONTAL BAR IN WALLS AND BEAMS, CORNER BARS SHALL LAP WITH HORIZONTAL BARS. PROVIDE "U" BARS AT WALL ENDS. LAP #3 TO #6 BARS 30" EACH WAY AND LAP #7 TO #11 BARS 48" EACH WAY. HOOK INSIDE BARS IN WALLS AT ENDS.
F. LAP SPLICE TABLE FOR FULLY CONTINUOUS REINFORCING:

		LAP SPLICES (INCHES)								
		BAR SIZE								
	LOCATION	#3	#4	#5	#6	#7	#8	#9	#10	#11
SLABS	TOP	15	24	36	48	78	96	117	140	165
	OTHER	12	19	28	37	60	74	90	108	127
OTHER	TOP	24	32	40	48	70	80	91	102	113
	OTHER	19	25	31	37	54	62	70	79	87

13. DISPOSAL OF WASTE MATERIALS:
REMOVE FROM OWNER'S PROPERTY ALL MATERIALS LABELED ON THESE DRAWINGS TO BE DEMOLISHED AS WELL AS ALL EXCESS EXCAVATED MATERIAL, TRASH, DEBRIS, CONSTRUCTION MATERIALS, ETC. AND LAWFULLY DISPOSE OF THESE MATERIALS OFF OF THE OWNER'S PROPERTY.

BASE BID

MORPHY MAKOFSKY INCORPORATED CONSULTING ENGINEERS (504)488-1317 JOB NO. 26063

MCA Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

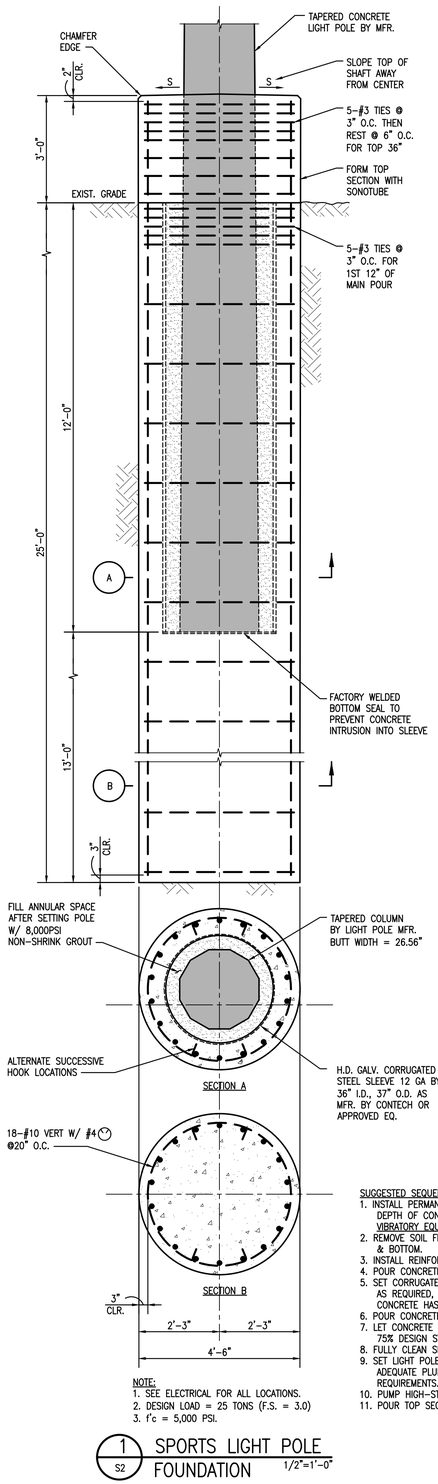
TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
HOUMA, LA. 70363

STAMP:
STATE OF LOUISIANA
JONATHAN J. SOFRANKO
REG. NO. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/11/2026

BY	DATE	DESCRIPTION	REV

DESIGN JLS
DRAWN JLS
CHECK JLS
SCALE AS NOTED
DATE 9/11/2026

DWG TITLE:
DWG No. S1

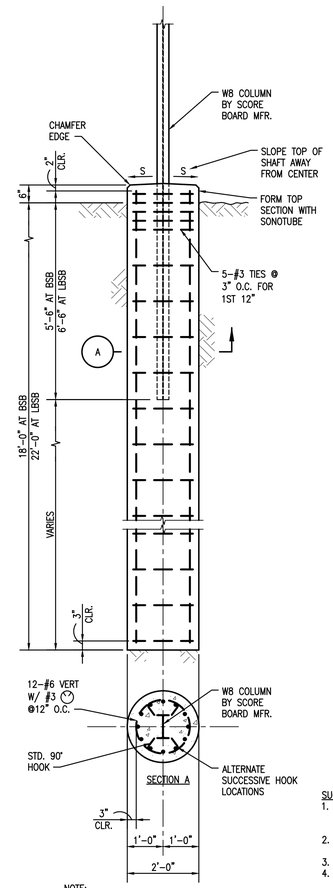


NOTE:
1. SEE ELECTRICAL FOR ALL LOCATIONS.
2. DESIGN LOAD = 25 TONS (F.S. = 3.0)
3. f'c = 5,000 PSI.

SUGGESTED SEQUENCE OF CONSTRUCTION
1. INSTALL PERMANENT OPEN-ENDED CASING TO FULL DEPTH OF CONCRETE SHAFT. DO NOT INSTALL USING VIBRATORY EQUIPMENT.
2. REMOVE SOIL FROM HOLE & CLEAN SHAFT SIDES & BOTTOM.
3. INSTALL REINFORCING CAGE & SECURE PROPERLY.
4. POUR CONCRETE SHAFT TO LIGHT POLE BOTTOM ELEVATION.
5. SET CORRUGATED SLEEVE, USE CENTERING WHEELS AS REQUIRED, AND BRACE AGAINST BUOYANCY UNTIL CONCRETE HAS HARDENED.
6. POUR CONCRETE IN SHAFT TO FINAL ELEVATION.
7. LET CONCRETE CURE FOR A MINIMUM OF 7 DAYS OR UNTIL 75% DESIGN STRENGTH IS ACHIEVED.
8. FULLY CLEAN SLEEVE PRIOR TO SETTING LIGHT POLE.
9. SET LIGHT POLE AND SECURE PROPERLY WHILE ENSURING ADEQUATE PLUMBNESS & EMBEDMENT DEPTH PER MFR. REQUIREMENTS.
10. PUMP HIGH-STRENGTH GROUT IN ANNULAR GAP.
11. POUR TOP SECTION ABOVE GRADE.

1 / S2 SPORTS LIGHT POLE FOUNDATION 1/2"=1'-0"

BASE BID AND ALTERNATE NO. 1

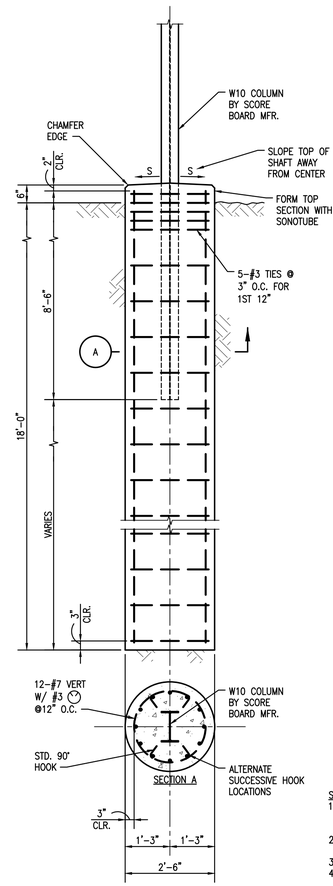


NOTE:
1. SEE ELECTRICAL FOR ALL LOCATIONS.
2. DESIGN LOAD = 7 TONS BSB (F.S. = 3.0)
   10 TONS LBSB (F.S. = 3.0)
3. f'c = 4,000 PSI.

SUGGESTED SEQUENCE OF CONSTRUCTION
1. INSTALL PERMANENT OPEN-ENDED CASING TO FULL DEPTH OF CONCRETE SHAFT. DO NOT INSTALL USING VIBRATORY EQUIPMENT.
2. REMOVE SOIL FROM HOLE & CLEAN SHAFT SIDES & BOTTOM.
3. INSTALL REINFORCING CAGE & SECURE PROPERLY.
4. POUR CONCRETE SHAFT TO BOTTOM OF SCOREBOARD COLUMN.
5. IMMEDIATELY SET COLUMN AFTER INITIAL POUR AND SECURE PROPERLY WHILE ENSURING ADEQUATE PLUMBNESS & EMBEDMENT DEPTH PER MFR. REQUIREMENTS.
6. POUR CONCRETE IN SHAFT TO FINAL ELEVATION.

2 / S2 BASEBALL SCORE BOARD FOUNDATION (BSB & LBSB) 1/2"=1'-0"

BASE BID



NOTE:
1. SEE ELECTRICAL FOR ALL LOCATIONS.
2. DESIGN LOAD = 12 TONS (F.S. = 3.0)
3. f'c = 4,000 PSI.

SUGGESTED SEQUENCE OF CONSTRUCTION
1. INSTALL PERMANENT OPEN-ENDED CASING TO FULL DEPTH OF CONCRETE SHAFT. DO NOT INSTALL USING VIBRATORY EQUIPMENT.
2. REMOVE SOIL FROM HOLE & CLEAN SHAFT SIDES & BOTTOM.
3. INSTALL REINFORCING CAGE & SECURE PROPERLY.
4. POUR CONCRETE SHAFT TO BOTTOM OF SCOREBOARD COLUMN.
5. IMMEDIATELY SET COLUMN AFTER INITIAL POUR AND SECURE PROPERLY WHILE ENSURING ADEQUATE PLUMBNESS & EMBEDMENT DEPTH PER MFR. REQUIREMENTS.
6. POUR CONCRETE IN SHAFT TO FINAL ELEVATION.

3 / S2 FOOTBALL SCORE BOARD FOUNDATION (FSB) 1/2"=1'-0"

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DWG TITLE:

DWG No. S2

1 SPECIFICATIONS
S3

SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

PART 1 – GENERAL

1.1 SUMMARY

A. SCOPE: THE WORK TO BE DONE UNDER THIS SECTION OF THE SPECIFICATIONS INCLUDES ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR CAST-IN-PLACE CONCRETE INCLUDING FORMWORK, REINFORCING, MIX DESIGN, PLACEMENT PROCEDURES, FINISHES, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.

1.2 CAST-IN-PLACE CONCRETE: INCLUDES THE FOLLOWING:

A. FOUNDATIONS AND FOOTINGS.

1.3 SUBMITTALS

F. PRODUCT DATA FOR PROPRIETARY MATERIALS AND ITEMS, INCLUDING REINFORCEMENT AND FORMING ACCESSORIES, ADMIXTURES, PATCHING COMPOUNDS, WATERSTOPS, JOINT SYSTEMS, CURING COMPOUNDS, DRY-SHAKE FINISH MATERIALS, AND OTHERS IF REQUESTED BY ARCHITECT.

G. SHOP DRAWINGS FOR REINFORCEMENT DETAILING FABRICATING, BENDING, AND PLACING CONCRETE REINFORCEMENT. COMPLY WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" SHOWING BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS, AND ARRANGEMENT OF CONCRETE REINFORCEMENT. INCLUDE SPECIAL REINFORCING REQUIRED FOR OPENINGS THROUGH CONCRETE STRUCTURES. REPRODUCTIONS MADE FROM CONTRACT DOCUMENTS WILL NOT BE ALLOWED. SUBMIT ONE (1) HARD COPY PRINT FOR REVIEW AND COMMENT, AND ONE (1) ELECTRONIC PRINT. THE ENGINEER WILL HAVE UP TO TEN (10) WORKING DAYS FROM THE TIME OF RECEIPT OF THE SUBMITTAL TO COMPLETE HIS REVIEW AND RETURN THE SUBMITTAL TO THE ARCHITECT. REVIEW OF SHOP DRAWINGS BY THE ARCHITECT/ENGINEER WILL BE FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY WILL BE ASSUMED FOR CORRECTNESS OF DIMENSIONS, AND QUANTITIES.

H. SAMPLES OF MATERIALS AS REQUESTED BY ARCHITECT, INCLUDING NAMES, SOURCES, AND DESCRIPTIONS.

I. LABORATORY TEST REPORTS FOR CONCRETE MATERIALS AND MIX DESIGN TEST.

J. MATERIAL CERTIFICATES IN LIEU OF MATERIAL LABORATORY TEST REPORTS WHEN PERMITTED BY ARCHITECT. MATERIAL CERTIFICATES SHALL BE SIGNED BY MANUFACTURER AND CONTRACTOR, CERTIFYING THAT EACH MATERIAL ITEM COMPLIES WITH OR EXCEEDS SPECIFIED REQUIREMENTS. PROVIDE CERTIFICATION FROM ADMIXTURE MANUFACTURERS THAT CHLORIDE CONTENT COMPLIES WITH SPECIFICATION REQUIREMENTS.

1.4 QUALITY ASSURANCE

A. CODES AND STANDARDS: COMPLY WITH PROVISIONS OF THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SHOWN OR SPECIFIED:

1. AMERICAN CONCRETE INSTITUTE (ACI) 301-10, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
2. ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," CURRENT EDITION.
3. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE," CURRENT EDITION.

B. CONCRETE TESTING SERVICE: THE OWNER WILL EMPLOY A TESTING AGENCY TO PERFORM MATERIAL EVALUATION TESTS AND TO REVIEW CONCRETE MIX DESIGNS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.

1. THE TESTING LAB SHALL BE IN COMPLIANCE WITH ASTM E 329 "STANDARD SPECIFICATION FOR AGENCIES ENGAGED IN CONSTRUCTION INSPECTION AND/OR TESTING" AND ASTM C 1077 " PRACTICE FOR LABORATORIES TESTING CONCRETE AND CONCRETE AGGREGATES FOR USE IN CONSTRUCTION AND CRITERIA FOR LABORATORY EVALUATION".
2. THE TESTING LABORATORY SHALL SUBMIT A CERTIFICATE OF ACCREDITATION AND THE SCOPE OF ACCREDITATION THAT INDICATES COMPLIANCE WITH THE ABOVE STANDARDS.

C. MATERIALS AND INSTALLED WORK MAY REQUIRE TESTING AND RETESTING AT ANY TIME DURING PROGRESS OF WORK. RETESTING OF REJECTED MATERIALS FOR INSTALLED WORK SHALL BE DONE AT CONTRACTOR'S EXPENSE.

PART 2 – PRODUCTS

2.1 FORM MATERIALS

A. FORMS FOR EXPOSED FINISH CONCRETE: PLYWOOD, METAL, METAL-FRAMED PLYWOOD FACED, OR OTHER ACCEPTABLE PANEL-TYPE MATERIALS TO PROVIDE CONTINUOUS, STRAIGHT, SMOOTH, EXPOSED SURFACES. FURNISH IN LARGEST PRACTICABLE SIZES TO MINIMIZE NUMBER OF JOINTS AND TO CONFORM TO JOINT SYSTEM SHOWN ON DRAWINGS.

B. FORMS FOR UNEXPOSED FINISH CONCRETE: PLYWOOD, LUMBER, METAL, OR ANOTHER ACCEPTABLE MATERIAL. PROVIDE LUMBER DRESSED ON AT LEAST TWO EDGES AND ONE SIDE FOR TIGHT FIT.

C. FORM RELEASE AGENT: PROVIDE COMMERCIAL FORMULATION FORM RELEASE AGENT WITH A MAXIMUM OF 350 G/L VOLATILE ORGANIC COMPOUNDS (VOCS) THAT WILL NOT BOND WITH, STAIN, OR ADVERSELY AFFECT CONCRETE SURFACES AND WILL NOT IMPAIR SUBSEQUENT TREATMENTS OF CONCRETE SURFACES.

D. FORM TIES: FACTORY-FABRICATED, ADJUSTABLE-LENGTH, REMOVABLE OR SNAP-OFF METAL FORM TIES DESIGNED TO PREVENT FORM DEFLECTION AND TO PREVENT SPALLING OF CONCRETE UPON REMOVAL. PROVIDE UNITS THAT WILL LEAVE NO METAL CLOSER THAN 1-½ INCHES TO THE PLANE OF THE EXPOSED CONCRETE SURFACE.

2.2 REINFORCING MATERIALS

A. REINFORCING BARS: ASTM A 615, GRADE 60.

B. STEEL WIRE: ASTM A 82, PLAIN, COLD-DRAWN STEEL.

C. WELDED WIRE FABRIC: ASTM A 1064, WELDED STEEL WIRE FABRIC. FLAT SHEETS ONLY. ROLLS ARE NOT PERMITTED.

D. DEFORMED-STEEL WELDED WIRE FABRIC: ASTM A 497.

E. SUPPORTS FOR REINFORCEMENT: BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS AND WELDED WIRE FABRIC IN PLACE. USE WIRE BAR-TYPE SUPPORTS COMPLYING WITH CRSI SPECIFICATIONS.

1. FOR SLABS-ON-GRADE, USE SUPPORTS WITH SAND PLATES OR HORIZONTAL RUNNERS WHERE BASE MATERIAL WILL NOT SUPPORT CHAIR LEGS.
2. FOR EXPOSED-TO-VIEW CONCRETE SURFACES WHERE LEGS OF SUPPORTS ARE IN CONTACT WITH FORMS, PROVIDE SUPPORTS WITH LEGS THAT ARE PROTECTED BY PLASTIC (CRSI, CLASS 1).

2.3 CONCRETE MATERIALS

A. PORTLAND CEMENT: ASTM C 150, TYPE I OR II.

1. USE ONE BRAND OF CEMENT THROUGHOUT PROJECT UNLESS OTHERWISE ACCEPTABLE TO ARCHITECT.

B. NORMAL-WEIGHT AGGREGATES: ASTM C 33 AND AS SPECIFIED. PROVIDE AGGREGATES FROM A SINGLE SOURCE FOR EXPOSED CONCRETE.

1. FOR EXPOSED EXTERIOR SURFACES, DO NOT USE FINE OR COARSE AGGREGATES THAT CONTAIN SUBSTANCES THAT CAUSE SPALLING.
2. LOCAL AGGREGATES NOT COMPLYING WITH ASTM C 33 THAT HAVE BEEN SHOWN TO PRODUCE CONCRETE OF ADEQUATE STRENGTH AND DURABILITY BY SPECIAL TESTS OR ACTUAL SERVICE MAY BE USED WHEN ACCEPTABLE TO ARCHITECT.

C. WATER: POTABLE.

D. ADMIXTURES, GENERAL: PROVIDE CONCRETE ADMIXTURES THAT CONTAIN NOT MORE THAN 0.1 PERCENT CHLORIDE IONS.

E. AIR-ENTRAINING ADMIXTURE: ASTM C 260, CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER REQUIRED ADMIXTURES.

F. WATER-REDUCING ADMIXTURE: ASTM C 494, TYPE A.

G. HIGH-RANGE WATER-REDUCING ADMIXTURE: ASTM C 494, TYPE APPROVED BY ENGINEER.

H. WATER-REDUCING, ACCELERATING ADMIXTURE: ASTM C 494, TYPE C OR E.

I. WATER-REDUCING, RETARDING ADMIXTURE: ASTM C 494, TYPE D.

2.4 RELATED MATERIALS

A. VAPOR RETARDER: PROVIDE VAPOR RETARDER CONFORMING TO ASTM E1745, CLASS A, 15 MIL., WITH A PERMEANCE OF LESS THAN 0.01 PERMS. INCLUDE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSATIVE TAPE. MATERIAL SHALL BE BY STEGO WRAP, RAVEN INDUSTRIES, W.R. MEADOWS, OR APPROVED EQUAL.

B. ABSORPTIVE COVER: BURLAP CLOTH MADE FROM JUTE OR KENAF, WEIGHING APPROXIMATELY 9 OZ. PER SQ. YD., COMPLYING WITH AASHTO M 182, CLASS 2.

C. MOISTURE-RETAINING COVER: ONE OF THE FOLLOWING, COMPLYING WITH ASTM C 171.

1. WATERPROOF PAPER.
2. POLYETHYLENE FILM.
3. POLYETHYLENE-COATED BURLAP.

D. LIQUID MEMBRANE-FORMING CURING COMPOUND: LIQUID-TYPE MEMBRANE-FORMING CURING COMPOUND COMPLYING WITH ASTM C 309, TYPE I, CLASS A. MOISTURE LOSS NOT MORE THAN 0.55 KG/SQ. METER WHEN APPLIED AT 200 SQ. FT./GAL.

1. PROVIDE MATERIAL THAT HAS A MAXIMUM VOLATILE ORGANIC COMPOUND (VOC) RATING OF 350 G PER LITER.

E. WATER-BASED ACRYLIC MEMBRANE CURING COMPOUND: ASTM C 309, TYPE I, CLASS B.

F. EVAPORATION CONTROL: MONOMOLECULAR FILM-FORMING COMPOUND APPLIED TO EXPOSED CONCRETE SLAB SURFACES FOR TEMPORARY PROTECTION FROM RAPID MOISTURE LOSS.

G. UNDERLAYMENT COMPOUND: FREE-FLOWING, SELF-LEVELING, PUMPABLE, CEMENT-BASED COMPOUND FOR APPLICATIONS FROM 1 INCH THICK TO FEATHERED EDGES.

H. BONDING AGENT: POLYVINYL ACETATE OR ACRYLIC BASE.

I. EPOXY ADHESIVE: ASTM C 881, TWO-COMPONENT MATERIAL SUITABLE FOR USE ON DRY OR DAMP SURFACES. PROVIDE MATERIAL TYPE, GRADE, AND CLASS TO SUIT PROJECT REQUIREMENTS.

2.5 PROPORTIONING AND DESIGNING MIXES

A. PREPARE DESIGN MIXES FOR EACH TYPE AND STRENGTH OF CONCRETE BY EITHER LABORATORY TRIAL BATCH OR FIELD EXPERIENCE METHODS AS SPECIFIED IN ACI 301. FOR THE TRIAL BATCH METHOD, USE AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO ARCHITECT FOR PREPARING AND REPORTING PROPOSED MIX DESIGNS. THE INDEPENDENT TESTING AGENCY SHALL REVIEW AND APPROVE THE PROPOSED MIX DESIGN.

B. SUBMIT WRITTEN REPORTS TO ARCHITECT OF EACH PROPOSED MIX FOR EACH CLASS OF CONCRETE AT LEAST 15 DAYS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL PROPOSED MIX DESIGNS HAVE BEEN SUBMITTED TO ARCHITECT.

C. DESIGN MIXES TO PROVIDE NORMAL WEIGHT CONCRETE OR LIGHT WEIGHT CONCRETE WITH THE 28-DAY COMPRESSIVE STRENGTH AS INDICATED ON DRAWINGS.

D. SLUMP LIMITS: PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT POINT OF PLACEMENT AS FOLLOWS:

1. NOT MORE THAN 4 INCHES.

E. ADJUSTMENT TO CONCRETE MIXES: MIX DESIGN ADJUSTMENTS MAY BE REQUESTED BY CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, JOB CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT, AS ACCEPTED BY ARCHITECT. LABORATORY TEST DATA FOR REVISED MIX DESIGN AND STRENGTH RESULTS MUST BE SUBMITTED TO AND ACCEPTED BY ARCHITECT BEFORE USING IN WORK.

2.6 ADMIXTURES

A. USE WATER-REDUCING ADMIXTURE OR HIGH-RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER) IN CONCRETE, AS REQUIRED, FOR PLACEMENT AND WORKABILITY.

B. USE ACCELERATING ADMIXTURE IN CONCRETE SLABS PLACED AT AMBIENT TEMPERATURES BELOW 40 DEG F (10 DEG C) AND FALLING.

2.7 CONCRETE MIXING

A. READY-MIXED CONCRETE: COMPLY WITH REQUIREMENTS OF ASTM C 94, AND AS SPECIFIED.

1. WHEN AIR TEMPERATURE IS BETWEEN 85 DEG F (30 DEG C) AND 90 DEG F (32 DEG C), REDUCE MIXING AND DELIVERY TIME FROM 1-½ HOURS TO 75 MINUTES, AND WHEN AIR TEMPERATURE IS ABOVE 90 DEG F (32 DEG C), REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES. ICE CAN BE ADDED TO CONCRETE SO THAT DELIVERY TIME CAN REMAIN AT 1-½ HOURS.

PART 3 – EXECUTION

3.1 GENERAL

A. COORDINATE THE INSTALLATION OF JOINT MATERIALS, VAPOR RETARDER/BARRIER, AND OTHER RELATED MATERIALS WITH PLACEMENT OF FORMS AND REINFORCING STEEL.

3.2 FORMS

A. GENERAL: DESIGN, ERECT, SUPPORT, BRACE, AND MAINTAIN FORMWORK TO SUPPORT VERTICAL, LATERAL, STATIC, AND DYNAMIC LOADS THAT MIGHT BE APPLIED UNTIL CONCRETE STRUCTURE CAN SUPPORT SUCH LOADS. CONSTRUCT FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION. MAINTAIN FORMWORK CONSTRUCTION TOLERANCES AND SURFACE IRREGULARITIES COMPLYING WITH THE FOLLOWING ACI 347 LIMITS:

1. PROVIDE CLASS A TOLERANCES FOR CONCRETE SURFACES EXPOSED TO VIEW.
2. PROVIDE CLASS C TOLERANCES FOR OTHER CONCRETE SURFACES.

B. CONSTRUCT FORMS TO SIZES, SHAPES, LINES, AND DIMENSIONS SHOWN AND TO OBTAIN ACCURATE ALIGNMENT, LOCATION, GRADES, LEVEL, AND PLUMB WORK IN FINISHED STRUCTURES. PROVIDE FOR OPENINGS, OFFSETS, SINKAGES, KEYWAYS, RECESSES, MOLDINGS, RUSTICATIONS, REGLETS, CHAMFERS, BLOCKING, SCREEDS, BULKHEADS, ANCHORAGES AND INSERTS, AND OTHER FEATURES REQUIRED IN THE WORK. USE SELECTED MATERIALS TO OBTAIN REQUIRED FINISHES. SOLIDLY BUTT JOINTS AND PROVIDE BACKUP AT JOINTS TO PREVENT CEMENT PASTE FROM LEAKING.

C. FABRICATE FORMS FOR EASY REMOVAL WITHOUT HAMMERING OR PRYING AGAINST CONCRETE SURFACES. PROVIDE CRUSH PLATES OR WRECKING PLATES WHERE STRIPPING MAY DAMAGE CAST CONCRETE SURFACES. PROVIDE TOP FORMS FOR INCLINED SURFACES WHERE SLOPE IS TOO STEEP TO PLACE CONCRETE WITH BOTTOM FORMS ONLY. KERF WOOD INSERTS FOR FORMING KEYWAYS, REGLETS, RECESSES, AND THE LIKE FOR EASY REMOVAL.

D. FORMWORK FOR GRADE BEAMS AND PILE CAPS: PROVIDE VERTICAL FORMWORK AT THE PERIMETER OF GRADE BEAMS AND PILE CAPS. CONTRACTOR SHALL INSTALL FORMWORK AS DESCRIBED HERE-IN TO ENSURE PLUMBNESS OF CAST VERTICAL SURFACES.

E. PROVIDE TEMPORARY OPENINGS FOR CLEAN-OUTS AND INSPECTIONS WHERE INTERIOR AREA OF FORMWORK IS INACCESSIBLE BEFORE AND DURING CONCRETE PLACEMENT. SECURELY BRACE TEMPORARY OPENINGS AND SET TIGHTLY TO FORMS TO PREVENT LOSING CONCRETE MORTAR. LOCATE TEMPORARY OPENINGS IN FORMS AT INCONSPICUOUS LOCATIONS.

F. CHAMFER EXPOSED CORNERS AND EDGES AS INDICATED, USING WOOD, METAL, PVC, OR RUBBER CHAMFER STRIPS FABRICATED TO PRODUCE UNIFORM SMOOTH LINES AND TIGHT EDGE JOINTS.

G. PROVISIONS FOR OTHER TRADES: PROVIDE OPENINGS IN CONCRETE FORMWORK TO ACCOMMODATE WORK OF OTHER TRADES. DETERMINE SIZE AND LOCATION OF OPENINGS, RECESSES, AND CHASES FROM TRADES PROVIDING SUCH ITEMS. ACCURATELY PLACE AND SECURELY SUPPORT ITEMS BUILT INTO FORMS.

H. CLEANING AND TIGHTENING: THOROUGHLY CLEAN FORMS AND ADJACENT SURFACES TO RECEIVE CONCRETE. REMOVE CHIPS, WOOD, SAWDUST, DIRT, OR OTHER DEBRIS JUST BEFORE PLACING CONCRETE. RETIGHTEN FORMS AND BRACING BEFORE PLACING CONCRETE, AS REQUIRED, TO PREVENT MORTAR LEAKS AND MAINTAIN PROPER ALIGNMENT.

3.3 VAPOR RETARDER/BARRIER INSTALLATION

A. INSTALL VAPOR BARRIER IN ACCORDANCE ASTM E1643.

1. UNROLL VAPOR BARRIER WITH THE LONGEST DIMENSION PARALLEL WITH THE DIRECTION OF THE CONCRETE PLACEMENT AND FACE LAPS AWAY FROM THE EXPECTED DIRECTION OF THE PLACEMENT WHENEVER POSSIBLE.
2. VAPOR BARRIER SHALL BE NEATLY PLACED. FOLLOW THE PROFILE OF THE BOTTOM OF THE SLAB AND BEAMS, AND BE IN INTIMATE CONTACT WITH THE FILL. STOP AT IMPEDIMENTS SUCH AS PILES, DOWELS, AND WATERSTOPS.
3. IF ARRANGING PLACEMENT OF VAPOR BARRIER PERIMETER/EDGE SEALS PRIOR TO PLACEMENT OF CONCRETE, SEAL VAPOR BARRIER TO SCHEDULED WET-CAST SLAB PERIMETER/EDGE USING MANUFACTURER'S RECOMMENDED ADHESIVE PRODUCT DESIGNED FOR THIS USE, AND REMOVE DIRT, DEBRIS, AND MUD FROM THIS ADHESIVE PRODUCT PRIOR TO CONCRETE PLACEMENT.
4. SEAL VAPOR BARRIER TO FOOTING/GRADE BEAM WITH DOUBLE SIDED TAPE, TERMINATION BAR, OR BOTH.
5. OVERLAP JOINTS 6 INCHES AND SEAL WITH MANUFACTURER'S TAPE.
6. APPLY TAPE TO A CLEAN AND DRY VAPOR BARRIER.
7. SEAL ALL PENETRATIONS (INCLUDING PIPES) PER MANUFACTURER'S INSTRUCTIONS.
8. NO PENETRATION OF THE VAPOR BARRIER IS ALLOWED EXCEPT FOR REINFORCING STEEL AND PERMANENT UTILITIES.
9. REPAIR DAMAGED AREAS BY CUTTING PATCHES OF VAPOR BARRIER, OVERLAPPING DAMAGED AREA 6 INCHES AND TAPING ALL SIDES WITH TAPE.

3.4 PLACING REINFORCEMENT

A. GENERAL: COMPLY WITH CONCRETE REINFORCING STEEL INSTITUTE'S RECOMMENDED PRACTICE FOR "PLACING REINFORCING BARS," FOR DETAILS AND METHODS OF REINFORCEMENT PLACEMENT AND SUPPORTS AND AS SPECIFIED.

1. AVOIDING CUTTING OR PUNCTURING VAPOR RETARDER/BARRIER DURING REINFORCEMENT PLACEMENT AND CONCRETING OPERATIONS. REPAIR DAMAGES BEFORE PLACING CONCRETE.

B. CLEAN REINFORCEMENT OF LOOSE RUST AND MILL SCALE, EARTH, ICE, AND OTHER MATERIALS THAT REDUCE OR DESTROY BOND WITH CONCRETE.

C. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS, AS APPROVED BY ARCHITECT.

D. PLACE REINFORCEMENT TO MAINTAIN MINIMUM COVERAGES AS INDICATED FOR CONCRETE PROTECTION. ARRANGE, SPACE, AND SECURELY TIE BARS AND BAR SUPPORTS TO HOLD REINFORCEMENT IN POSITION DURING CONCRETE PLACEMENT OPERATIONS. SET WIRE TIES SO ENDS ARE DIRECTED INTO CONCRETE, NOT TOWARD EXPOSED CONCRETE SURFACES.

E. INSTALL WELDED WIRE FABRIC IN LENGTHS AS LONG AS PRACTICABLE. LAP ADJOINING PIECES AT LEAST ONE FULL MESH AND LACE SPLICES WITH WIRE. OFFSET LAPS OF ADJOINING WIDTHS TO PREVENT CONTINUOUS LAPS IN EITHER DIRECTION.

1. INSTALL ONLY FLAT SHEETS. ROLLS ARE NOT PERMITTED.

F. WHERE NOT SPECIFICALLY DETAILED ON THE DRAWINGS, SUPPORT SLAB TOP REINFORCING BARS WITH CONTINUOUS #4 REINFORCING BARS. SLAB TOP REINFORCING BARS LESS THAN 6 FEET IN LENGTH SHALL HAVE TWO SUPPORT BARS AND SLAB TOP REINFORCING BARS GREATER THAN 6 FEET IN LENGTH SHALL HAVE SUPPORT BARS SPACED AT NO MORE THAN 3'-0" O.C. THESE BARS SHALL BE EQUALLY SPACED ALONG THE LENGTH OF THE SLAB TOP REINFORCING BARS.

3.5 JOINTS

A. CONSTRUCTION JOINTS: LOCATE AND INSTALL CONSTRUCTION JOINTS SO THEY DO NOT IMPAIR STRENGTH OR APPEARANCE OF THE STRUCTURE, AS ACCEPTABLE TO ARCHITECT.

B. PROVIDE KEYWAYS AS INDICATED ON DRAWINGS OR AT LEAST 1-1/2 INCHES DEEP IN CONSTRUCTION JOINTS IN WALLS AND SLABS AND BETWEEN WALLS AND FOOTINGS. BULKHEADS DESIGNED AND ACCEPTED FOR THIS PURPOSE MAY BE USED FOR SLABS.

C. PROVIDE WATERSTOPS AT ALL CONSTRUCTION JOINTS IN AREAS INDICATED ON THE DRAWINGS.

D. PLACE CONSTRUCTION JOINTS PERPENDICULAR TO MAIN REINFORCEMENT. CONTINUE REINFORCEMENT ACROSS CONSTRUCTION JOINTS EXCEPT AS INDICATED OTHERWISE. DO NOT CONTINUE REINFORCEMENT THROUGH SIDES OF STRIP PLACEMENTS.

E. USE BONDING AGENT ON EXISTING CONCRETE SURFACES THAT WILL BE JOINED WITH FRESH CONCRETE.

F. ISOLATION JOINTS IN SLABS-ON-GRADE: CONSTRUCT ISOLATION JOINTS IN SLABS-ON-GRADE AT POINTS OF CONTACT BETWEEN SLABS-ON-GRADE AND VERTICAL SURFACES, SUCH AS COLUMN PEDESTALS, FOUNDATION WALLS, GRADE BEAMS, AND OTHER LOCATIONS, AS INDICATED.

1. JOINT FILLERS AND SEALANTS ARE SPECIFIED IN DIVISION 7 SECTION "JOINT SEALANTS."

3.6 INSTALLING EMBEDDED ITEMS

A. GENERAL: SET AND BUILD INTO FORMWORK ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED FOR OTHER WORK THAT IS ATTACHED TO OR SUPPORTED BY CAST-IN-PLACE CONCRETE. USE SETTING DRAWINGS, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS PROVIDED BY SUPPLIERS OF ITEMS TO BE ATTACHED.

B. FORMS FOR SLABS: SET EDGE FORMS, BULKHEADS, AND INTERMEDIATE SCREED STRIPS FOR SLABS TO ACHIEVE REQUIRED ELEVATIONS AND CONTOURS IN FINISHED SURFACES. PROVIDE AND SECURE UNITS TO SUPPORT SCREED STRIPS USING STRIKE-OFF TEMPLATES OR COMPACTING-TYPE SCREEDS.

3.7 PREPARING FORM SURFACES

A. GENERAL: COAT CONTACT SURFACES OF FORMS WITH AN APPROVED, NONRESIDUAL, LOW-VOC, FORM-COATING COMPOUND BEFORE PLACING REINFORCEMENT.

1. DO NOT ALLOW EXCESS FORM-COATING MATERIAL TO ACCUMULATE IN FORMS OR COME INTO CONTACT WITH IN-PLACE CONCRETE SURFACES AGAINST WHICH FRESH CONCRETE WILL BE PLACED. APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
2. COAT STEEL FORMS WITH A NONSTAINING, RUST-PREVENTATIVE MATERIAL. RUST-STAINED STEEL FORMWORK IS NOT ACCEPTABLE.

3.8 CONCRETE PLACEMENT

A. INSPECTION: BEFORE PLACING CONCRETE, INSPECT AND COMPLETE FORMWORK INSTALLATION, REINFORCING STEEL, AND ITEMS TO BE EMBEDDED OR CAST IN. NOTIFY OTHER TRADES TO PERMIT INSTALLATION OF THEIR WORK.

B. GENERAL: COMPLY WITH ACI 304, "GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE," AND AS SPECIFIED.

1. DEPOSIT CONCRETE CONTINUOUSLY OR IN LAYERS OF SUCH THICKNESS THAT NO NEW CONCRETE WILL BE PLACED ON CONCRETE THAT HAS HARDENED SUFFICIENTLY TO CAUSE SEAMS OR PLANES OF WEAKNESS. IF A SECTION CANNOT BE PLACED CONTINUOUSLY, PROVIDE CONSTRUCTION JOINTS AS SPECIFIED. DEPOSIT CONCRETE TO AVOID SEGREGATION AT ITS FINAL LOCATION.

C. PLACING CONCRETE IN FORMS: DEPOSIT CONCRETE IN FORMS IN HORIZONTAL LAYERS NO DEEPER THAN 24 INCHES AND IN A MANNER TO AVOID INCLINED CONSTRUCTION JOINTS. WHERE PLACEMENT CONSISTS OF SEVERAL LAYERS, PLACE EACH LAYER WHILE PRECEDING LAYER IS STILL PLASTIC TO AVOID COLD JOINTS.

1. CONSOLIDATE PLACED CONCRETE BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING, RODDING, OR TAMPING. USE EQUIPMENT AND PROCEDURES FOR CONSOLIDATION OF CONCRETE COMPLYING WITH ACI 309.
2. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE INSIDE FORMS. INSERT AND WITHDRAW VIBRATORS VERTICALLY AT UNIFORMLY SPACED LOCATIONS NO FARTHER THAN THE VISIBLE EFFECTIVENESS OF THE MACHINE. PLACE VIBRATORS TO RAPIDLY PENETRATE PLACED LAYER AND AT LEAST 6 INCHES INTO PRECEDING LAYER. DO NOT INSERT VIBRATORS INTO LOWER LAYERS OF CONCRETE THAT HAVE BEGUN TO SET. AT EACH INSERTION, LIMIT DURATION OF VIBRATION TO TIME NECESSARY TO CONSOLIDATE CONCRETE AND COMPLETE EMBEDMENT OF REINFORCEMENT AND OTHER EMBEDDED ITEMS WITHOUT CAUSING MIX TO SEGREGATE.

D. PLACING CONCRETE SLABS: DEPOSIT AND CONSOLIDATE CONCRETE SLABS IN A CONTINUOUS OPERATION, WITHIN LIMITS OF CONSTRUCTION JOINTS, UNTIL COMPLETING PLACEMENT OF A PANEL OR SECTION.

1. CONSOLIDATE CONCRETE DURING PLACEMENT OPERATIONS SO THAT CONCRETE IS THOROUGHLY WORKED AROUND REINFORCEMENT, OTHER EMBEDDED ITEMS AND INTO CORNERS.
2. BRING SLAB SURFACES TO CORRECT LEVEL WITH A STRAIGHTEDGE AND STRIKE OFF. USE BULL FLOATS OR DARBIES TO SMOOTH SURFACE FREE OF HUMPS OR HOLLOWS. DO NOT DISTURB SLAB SURFACES PRIOR TO BEGINNING FINISHING OPERATIONS.
3. MAINTAIN REINFORCING IN PROPER POSITION ON CHAIRS DURING CONCRETE PLACEMENT.
4. FLOOR SLAB TOLERANCE: FLOOR FINISH TOLERANCES OF FLOOR SLABS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFIED FINISH FLOOR MANUFACTURERS, AND IN ACCORDANCE WITH ACI 117 AND ASTM E 1155 STANDARD METHOD FOR DETERMINING FLOOR FLATNESS AND LEVELNESS USING THE F-NUMBER SYSTEM. FINISH FLOOR TOLERANCES SHALL MEET THE REQUIREMENTS OF " FLAT " AS DESCRIBED IN ACI 117, UNLESS A MORE STRINGENT TOLERANCE IS REQUIRED BY A FINISH FLOOR INSTALLATION.

E. COLD-WEATHER PLACEMENT: COMPLY WITH PROVISIONS OF ACI 306 AND AS FOLLOWS. PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST, FREEZING ACTIONS, OR LOW TEMPERATURES.

F. HOT-WEATHER PLACEMENT: WHEN HOT WEATHER CONDITIONS EXIST THAT WOULD IMPAIR QUALITY AND STRENGTH OF CONCRETE, PLACE CONCRETE COMPLYING WITH ACI 305 AND AS SPECIFIED.

1. USE WATER-REDUCING RETARDING ADMIXTURE WHEN REQUIRED BY HIGH TEMPERATURES, LOW HUMIDITY, OR OTHER ADVERSE PLACING CONDITIONS, AS ACCEPTABLE TO ARCHITECT.

3.9 FINISHING FORMED SURFACES

A. ROUGH-FORMED FINISH: PROVIDE A ROUGH-FORMED FINISH ON FORMED CONCRETE SURFACES NOT EXPOSED TO VIEW IN THE FINISHED WORK OR CONCEALED BY OTHER CONSTRUCTION. THIS IS THE CONCRETE SURFACE HAVING TEXTURE IMPARTED BY FORM-FACING MATERIAL USED, WITH TIE HOLES AND DEFECTIVE AREAS REPAIRED AND PATCHED, AND FINS AND OTHER PROJECTIONS EXCEEDING 1/4 INCH IN HEIGHT RUBBED DOWN OR CHIPPED OFF.

B. SMOOTH-FORMED FINISH: PROVIDE A SMOOTH-FORMED FINISH ON FORMED CONCRETE SURFACES TO BE EXPOSED TO VIEW, COVERED WITH A COATING MATERIAL APPLIED DIRECTLY TO CONCRETE, OR A COVERING MATERIAL APPLIED DIRECTLY TO CONCRETE, SUCH AS WATERPROOFING, DAMPPROOFING, VENEER PLASTER, OR ANOTHER SIMILAR SYSTEM. THIS IS AN AS-CAST CONCRETE SURFACE OBTAINED WITH SELECTED FORM-FACING MATERIAL, ARRANGED IN AN ORDERLY AND SYMMETRICAL MANNER WITH A MINIMUM OF SEAMS. REPAIR AND PATCH DEFECTIVE AREAS WITH FINS AND OTHER PROJECTIONS. THESE PROJECTIONS SHALL BE COMPLETELY REMOVED AND SMOOTHED. REPAIR ALL OTHER SURFACE DEFECTS IN ACCORDANCE WITH CONCRETE SURFACE REPAIRS, AS SPECIFIED HEREIN.

C. RELATED UNFORMED SURFACES: AT TOPS OF WALLS, HORIZONTAL OFFSETS, AND SIMILAR UNFORMED SURFACES ADJACENT TO FORMED SURFACES, STRIKE-OFF SMOOTH AND FINISH WITH A TEXTURE MATCHING ADJACENT FORMED SURFACES.

D. APPLICATION OF ACID COLOR STAIN TO CONCRETE SURFACE: REFER TO MANUFACTURER'S WRITTEN APPLICATION INSTRUCTIONS. COORDINATE APPROVAL OF APPLIED PRODUCT APPEARANCE WITH THE ARCHITECT DURING THE MOCK-UP PHASE.

3.10 MONOLITHIC SLAB FINISHES

A. SCRATCH FINISH: APPLY SCRATCH FINISH TO MONOLITHIC SLAB SURFACES TO RECEIVE CONCRETE FLOOR TOPPING OR MORTAR SETTING BEDS FOR TILE, PORTLAND CEMENT TERRAZZO, AND OTHER BONDED APPLIED CEMENTITIOUS FINISH FLOORING MATERIAL, AND WHERE INDICATED.

B. FLOAT FINISH: APPLY FLOAT FINISH TO MONOLITHIC SLAB SURFACES TO RECEIVE TROWEL FINISH AND OTHER FINISHES AS SPECIFIED; SLAB SURFACES TO BE COVERED WITH MEMBRANE OR ELASTIC WATERPROOFING, MEMBRANE OR ELASTIC ROOFING, OR SAND-BED TERRAZZO; AND WHERE INDICATED.

1. AFTER SCREEDING, CONSOLIDATING, AND LEVELING CONCRETE SLABS, DO NOT WORK SURFACE UNTIL READY FOR FLOATING. BEGIN FLOATING, USING FLOAT BLADES OR FLOAT SHOES ONLY, WHEN SURFACE WATER HAS DISAPPEARED, OR WHEN CONCRETE HAS STIFFENED SUFFICIENTLY TO PERMIT OPERATION OF POWER-DRIVEN FLOATS, OR BOTH. CONSOLIDATE SURFACE WITH POWER-DRIVEN FLOATS OR BY HAND-FLOATING IF AREA IS SMALL OR INACCESSIBLE TO POWER UNITS. UNIFORMLY SLOPE SURFACES TO DRAINS. IMMEDIATELY AFTER LEVELING, REFLOAT SURFACE TO A UNIFORM, SMOOTH, GRANULAR TEXTURE.

C. TROWEL FINISH: APPLY A TROWEL FINISH TO MONOLITHIC SLAB SURFACES EXPOSED TO VIEW AND SLAB SURFACES TO BE COVERED WITH RESILIENT FLOORING, CARPET, CERAMIC OR QUARRY TILE, PAINT, OR ANOTHER THIN FILM-FINISH COATING SYSTEM.

1. AFTER FLOATING, BEGIN FIRST TROWEL-FINISH OPERATION USING A POWER-DRIVEN TROWEL. BEGIN FINAL TROWELING WHEN SURFACE PRODUCES A RINGING SOUND AS TROWEL IS MOVED OVER SURFACE. CONSOLIDATE CONCRETE SURFACE BY FINAL HAND-TROWELING OPERATION, FREE OF TROWEL MARKS, UNIFORM IN TEXTURE AND APPEARANCE.

D. TROWEL AND FINE BROOM FINISH: WHERE CERAMIC OR QUARRY TILE IS TO BE INSTALLED WITH THIN-SET MORTAR, APPLY A TROWEL FINISH AS SPECIFIED, THEN IMMEDIATELY FOLLOW BY SLIGHTLY SCARIFYING THE SURFACE WITH A FINE BROOM.

E. NONSLIP BROOM FINISH: APPLY A NONSLIP BROOM FINISH TO EXTERIOR CONCRETE PLATFORMS, STEPS, AND RAMPS, AND ELSEWHERE AS INDICATED.

1. IMMEDIATELY AFTER FLOAT FINISHING, SLIGHTLY ROUGHEN CONCRETE SURFACE BY BROOMING WITH FIBER-BRISTLE BROOM PERPENDICULAR TO MAIN TRAFFIC ROUTE. COORDINATE REQUIRED FINAL FINISH WITH ARCHITECT BEFORE APPLICATION.

3.11 MISCELLANEOUS CONCRETE ITEMS

F. FILLING IN: FILL IN HOLES AND OPENINGS LEFT IN CONCRETE STRUCTURES FOR PASSAGE OF WORK BY OTHER TRADES, UNLESS OTHERWISE SHOWN OR DIRECTED, AFTER WORK OF OTHER TRADES IS IN PLACE. MIX, PLACE, AND CURE CONCRETE AS SPECIFIED TO BLEND WITH IN-PLACE CONSTRUCTION. PROVIDE OTHER MISCELLANEOUS CONCRETE FILLING SHOWN OR REQUIRED TO COMPLETE WORK.

G. CURBS: PROVIDE MONOLITHIC FINISH TO INTERIOR CURBS BY STRIPPING FORMS WHILE CONCRETE IS STILL GREEN AND BY STEEL-TROWELING SURFACES TO A HARD, DENSE FINISH WITH CORNERS, INTERSECTIONS, AND TERMINATIONS SLIGHTLY ROUNDED.

H. EQUIPMENT BASES AND FOUNDATIONS: PROVIDE MACHINE AND EQUIPMENT BASES AND FOUNDATIONS AS SHOWN ON DRAWINGS. SET ANCHOR BOLTS FOR MACHINES AND EQUIPMENT TO TEMPLATE AT CORRECT ELEVATIONS, COMPLYING WITH DIAGRAMS OR TEMPLATES OF MANUFACTURER FURNISHING MACHINES AND EQUIPMENT.

3.12 CONCRETE CURING AND PROTECTION

A. GENERAL: PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE OLD OR HOT TEMPERATURES. IN HOT, DRY, AND WINDY WEATHER PROTECT CONCRETE FROM RAPID MOISTURE LOSS BEFORE AND DURING FINISHING OPERATIONS WITH AN EVAPORATION-CONTROL MATERIAL. APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS AFTER SCREEDING AND BULL FLOATING, BUT BEFORE POWER FLOATING AND TROWELING.

1. START INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE AFTER PLACING AND FINISHING. WEATHER PERMITTING, KEEP CONTINUOUSLY MOIST FOR NOT LESS THAN 7 DAYS.

B. CURING METHODS: CURE CONCRETE BY CURING COMPOUND, BY MOIST CURING, BY MOISTURE-RETAINING COVER CURING, OR BY COMBINING THESE METHODS, AS SPECIFIED.

1. PROVIDE MOISTURE CURING BY THE FOLLOWING METHODS:

A. KEEP CONCRETE SURFACE CONTINUOUSLY WET BY COVERING WITH WATER.

B. USE CONTINUOUS WATER-FOG SPRAY.

C. COVER CONCRETE SURFACE WITH SPECIFIED ABSORPTIVE COVER, THOROUGHLY SATURATE COVER WITH WATER, AND KEEP CONTINUOUSLY WET. PLACE ABSORPTIVE COVER TO PROVIDE COVERAGE OF CONCRETE SURFACES AND EDGES, WITH A 4-INCH LAP OVER ADJACENT ABSORPTIVE COVERS.

2. PROVIDE MOISTURE-RETAINING COVER CURING AS FOLLOWS:

A. COVER CONCRETE SURFACES WITH MOISTURE-RETAINING COVER FOR CURING CONCRETE, PLACED IN WIDEST PRACTICABLE WIDTH WITH SIDES AND ENDS LAPPED AT LEAST 3 INCHES AND SEALED BY WATERPROOF TAPE OR ADHESIVE. IMMEDIATELY REPAIR ANY HOLES OR TEARS DURING CURING PERIOD USING COVER MATERIAL AND WATERPROOF TAPE.

3. APPLY CURING COMPOUND ON EXPOSED INTERIOR SLABS AND ON EXTERIOR SLABS, WALKS, AND CURB AS FOLLOWS:

A. APPLY CURING COMPOUND TO CONCRETE SLABS AS SOON AS FINAL FINISHING OPERATIONS ARE COMPLETE (WITHIN 2 HOURS AND AFTER SURFACE WATER SHEEN HAS DISAPPEARED). APPLY UNIFORMLY IN CONTINUOUS OPERATION BY POWER SPRAY OR ROLLER ACCORDING TO MANUFACTURER'S DIRECTIONS. RECOAT AREAS SUBJECTED TO HEAVY RAINFALL WITHIN 3 HOURS AFTER INITIAL APPLICATION. MAINTAIN CONTINUITY OF COATING AND REPAIR DAMAGE DURING CURING PERIOD.

B. USE MEMBRANE CURING COMPOUNDS THAT WILL NOT AFFECT SURFACES TO BE COVERED WITH FINISH MATERIALS APPLIED DIRECTLY TO CONCRETE.

C. CURING FORMED SURFACES: CURE FORMED CONCRETE SURFACES, INCLUDING UNDERSIDE OF BEAMS, SUPPORTED SLABS, AND OTHER SIMILAR SURFACES, BY MOIST CURING WITH FORMS IN PLACE FOR THE FULL CURING PERIOD OR UNTIL FORMS ARE REMOVED. IF FORMS ARE REMOVED, CONTINUE CURING BY METHODS SPECIFIED ABOVE, AS APPLICABLE.

D. CURING UNFORMED SURFACES: CURE UNFORMED SURFACES, INCLUDING SLABS, FLOOR TOPPING, AND OTHER FLAT SURFACES, BY APPLYING THE APPROPRIATE CURING METHOD.

1. FINAL CURE CONCRETE SURFACES TO RECEIVE FINISH FLOORING WITH A MOISTURE-RETAINING COVER, UNLESS OTHERWISE DIRECTED.

3.13 REMOVING FORMS

A. GENERAL: FORMWORK NOT SUPPORTING WEIGHT OF CONCRETE, SUCH AS SIDES OF BEAMS, WALLS, COLUMNS, AND SIMILAR PARTS OF THE WORK, MAY BE REMOVED AFTER CUMULATIVELY CURING AT NOT LESS THAN 50 DEG F (10 DEG C) FOR 24 HOURS AFTER PLACING CONCRETE, PROVIDED CONCRETE IS SUFFICIENTLY HARD TO NOT BE DAMAGED BY FORM-REMOVAL OPERATIONS, AND PROVIDED CURING AND PROTECTION OPERATIONS ARE MAINTAINED.

B. FORMWORK SUPPORTING WEIGHT OF CONCRETE, SUCH AS BEAM SOFFITS, JOISTS, SLABS, AND OTHER STRUCTURAL ELEMENTS UNTIL CONCRETE HAS ATTAINED AT LEAST 75 PERCENT OF DESIGN MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS. DETERMINE POTENTIAL COMPRESSIVE STRENGTH OF IN-PLACE CONCRETE BY TESTING FIELD-CURED SPECIMENS REPRESENTATIVE OF CONCRETE LOCATION OR MEMBERS.

C. COMPLY WITH ACI 301-10, CHAPTER 2, ARTICLE 2.3.3 – RESHORING AND BACKSHORING.

3.14 REUSING FORM

A. CLEAN AND REPAIR SURFACES OF FORMS TO BE REUSED IN THE WORK. SPLIT, FRAYED, DELAMINATED, OR OTHERWISE DAMAGED FORM-FACING MATERIAL WILL NOT BE ACCEPTABLE. APPLY NEW FORM-COATING COMPOUND AS SPECIFIED FOR NEW FORMWORK.

B. WHEN FORMS ARE EXTENDED FOR SUCCESSIVE CONCRETE PLACEMENT, THOROUGHLY CLEAN SURFACES, REMOVE FINS AND LAITANCE, AND TIGHTEN FORMS TO CLOSE JOINTS. ALIGN AND SECURE JOINT TO AVOID OFFSETS. SPLIT, FRAYED, DELAMINATED, OR OTHERWISE DAMAGED FORM-FACING MATERIAL WILL NOT BE ACCEPTABLE.

3.15 CONCRETE SURFACE REPAIRS

A. PATCHING DEFECTIVE AREAS: REPAIR AND PATCH DEFECTIVE AREAS WITH CEMENT MORTAR IMMEDIATELY AFTER REMOVING FORMS, WHEN ACCEPTABLE TO ARCHITECT.

B. MIX DRY-PACK MORTAR, CONSISTING OF ONE PART PORTLAND CEMENT TO 2-½ PARTS FINE AGGREGATE PASSING A NO. 16 MESH SIEVE, USING ONLY ENOUGH WATER AS REQUIRED FOR HANDLING AND PLACING.

1. CUT OUT HONEYCOMBS, ROCK POCKETS, VOIDS, AND HOLES LEFT BY TIE RODS AND BOLTS DOWN TO SOLID CONCRETE BUT IN NO CASE TO A DEPTH LESS THAN 1 INCH. MAKE EDGES OF CUTS PERPENDICULAR TO THE CONCRETE SURFACE. THOROUGHLY CLEAN, DAMPEN WITH WATER, AND BRUSH-COAT THE AREA TO BE PATCHED WITH BONDING AGENT. PLACE PATCHING MORTAR BEFORE BONDING AGENT HAS DRIED.
2. FOR SURFACES EXPOSED TO VIEW, BLEND WHITE PORTLAND CEMENT AND STANDARD PORTLAND CEMENT SO THAT, WHEN DRY, PATCHING MORTAR WILL MATCH SURROUNDING COLOR. PROVIDE TEST AREAS AT INCONSPICUOUS LOCATIONS TO VERIFY MIXTURE AND COLOR MATCH BEFORE PROCEEDING WITH PATCHING. COMPACT MORTAR IN PLACE AND STRIKE-OFF SLIGHTLY HIGHER THAN SURROUNDING SURFACE.

C. REPAIRING FORMED SURFACES: REMOVE AND REPLACE CONCRETE HAVING DEFECTIVE SURFACES IF DEFECTS CANNOT BE REPAIRED TO SATISFACTION OF ARCHITECT. SURFACE DEFECTS INCLUDE COLOR AND TEXTURE IRREGULARITIES, CRACKS, SPALLS, AIR BUBBLES, HONEYCOMB, ROCK POCKETS, FINS AND OTHER PROJECTIONS ON THE SURFACE, AND STAINS AND OTHER DISCOLORATIONS THAT CANNOT BE REMOVED BY CLEANING. FLUSH OUT FORM TIE HOLES AND FILL WITH DRY-PACK MORTAR OR PRECAST CEMENT CONE PLUGS SECURED IN PLACE WITH BONDING AGENT.

1. REPAIR CONCEALED FORMED SURFACES, WHERE POSSIBLE, CONTAINING DEFECTS THAT AFFECT THE CONCRETE'S DURABILITY. IF DEFECTS CANNOT BE REPAIRED, REMOVE AND REPLACE THE CONCRETE.

D. REPAIRING UNFORMED SURFACES: TEST UNFORMED SURFACES, SUCH AS MONOLITHIC SLABS, FOR SMOOTHNESS AND VERIFY SURFACE TOLERANCES SPECIFIED FOR EACH SURFACE AND FINISH. CORRECT LOW AND HIGH AREAS AS SPECIFIED. TEST UNFORMED SURFACES SLOPED TO DRAIN FOR TRUENESS OF SLOPE AND SMOOTHNESS BY USING A TEMPLATE HAVING THE REQUIRED SLOPE.

1. REPAIR FINISHED UNFORMED SURFACES CONTAINING DEFECTS THAT AFFECT THE CONCRETE'S DURABILITY. SURFACE DEFECTS INCLUDE CRAZING AND CRACKS IN EXCESS OF 0.01 INCH WIDE OR THAT PENETRATE TO THE REINFORCEMENT OR COMPLETELY THROUGH NONREINFORCED SECTIONS REGARDLESS OF WIDTH, SPALLING, POPOUTS, HONEYCOMBS, ROCK POCKETS, AND OTHER OBJECTIONABLE CONDITIONS.
2. CORRECT HIGH AREAS IN UNFORMED SURFACES BY GRINDING AFTER CONCRETE HAS CURED AT LEAST 14 DAYS.
3. CORRECT LOW AREAS IN UNFORMED SURFACES DURING OR IMMEDIATELY AFTER COMPLETING SURFACE FINISHING OPERATIONS BY CUTTING OUT LOW AREAS AND REPLACING WITH PATCHING MORTAR. FINISH REPAIRED AREAS TO BLEND INTO ADJACENT CONCRETE. PROPRIETARY UNDERLAYMENT COMPOUNDS MAY BE USED WHEN ACCEPTABLE TO ARCHITECT.
4. REPAIR DEFECTIVE AREAS, EXCEPT RANDOM CRACKS AND SINGLE HOLES NOT EXCEEDING 1 INCH IN DIAMETER, BY CUTTING OUT AND REPLACING WITH FRESH CONCRETE. REMOVE DEFECTIVE AREAS WITH CLEAN, SQUARE CUTS AND EXPOSE REINFORCING STEEL WITH AT LEAST ¾-INCH CLEARANCE ALL AROUND. DAMPEN CONCRETE SURFACES IN CONTACT WITH PATCHING CONCRETE AND APPLY BONDING AGENT. MIX PATCHING CONCRETE OF SAME MATERIALS TO PROVIDE CONCRETE OF SAME TYPE OR CLASS AS ORIGINAL CONCRETE. PLACE, COMPACT, AND FINISH TO BLEND WITH ADJACENT FINISHED CONCRETE. CURE IN SAME MANNER AS ADJACENT CONCRETE.

3.16 QUALITY CONTROL TESTING DURING CONSTRUCTION

A. GENERAL: THE OWNER WILL EMPLOY A TESTING AGENCY TO PERFORM TESTS AND TO SUBMIT TEST REPORTS.

B. SAMPLING AND TESTING FOR QUALITY CONTROL DURING CONCRETE PLACEMENT SHALL INCLUDE THE FOLLOWING, AS DIRECTED BY ARCHITECT.

1. SAMPLING FRESH CONCRETE: ASTM C 172, EXCEPT MODIFIED FOR SLUMP TO COMPLY WITH ASTM C 94.
2. SLUMP: ASTM C 143; ONE TEST AT POINT OF DISCHARGE FOR EACH DAY'S POUR OF EACH TYPE OF CONCRETE; ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED.
3. AIR CONTENT: ASTM C 173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C 231, PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; ONE FOR EACH DAY'S POUR OF EACH TYPE OF AIR-ENTRAINED CONCRETE.
4. CONCRETE TEMPERATURE: ASTM C 1064; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F (4 DEG C) AND BELOW, WHEN 80 DEG F (27 DEG C) AND ABOVE, AND ONE TEST FOR EACH SET OF COMPRESSIVE-STRENGTH SPECIMENS.
5. COMPRESSION TEST SPECIMEN: ASTM C 31; ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPRESSIVE-STRENGTH TEST, UNLESS OTHERWISE DIRECTED. MOLD AND STORE CYLINDERS FOR LABORATORY-CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURED TEST SPECIMENS ARE REQUIRED.
6. COMPRESSIVE-STRENGTH TESTS: ASTM C 39; ONE SET FOR EACH DAY'S POUR EXCEEDING 5 CU. YD. PLUS ADDITIONAL SETS FOR EACH 50 CU. YD. MORE THAN THE FIRST 25 CU. YD. OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY; ONE SPECIMEN TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS, AND ONE SPECIMEN RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED.

C. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, CONDUCT TESTING FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.

D. TEST RESULTS WILL BE REPORTED IN WRITING TO STRUCTURAL ENGINEER, READY-MIX PRODUCER, AND CONTRACTOR WITHIN 24 HOURS AFTER TESTS. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH IN STRUCTURE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIALS, SLUMP, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7-DAY TESTS AND 28-DAY TESTS.

E. NONDESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER NONDESTRUCTIVE DEVICE MAY BE PERMITTED BUT SHALL NOT BE USED AS THE SOLE BASIS FOR ACCEPTANCE OR REJECTION.

F. ADDITIONAL TESTS: THE TESTING AGENCY WILL MAKE ADDITIONAL TESTS OF IN-PLACE CONCRETE WHEN TEST RESULTS INDICATE SPECIFIED CONCRETE STRENGTHS AND OTHER CHARACTERISTICS HAVE NOT BEEN ATTAINED IN THE STRUCTURE, AS DIRECTED BY ARCHITECT. TESTING AGENCY MAY CONDUCT TESTS TO DETERMINE ADEQUACY OF CONCRETE BY CORED CYLINDERS COMPLYING WITH ASTM C 42, OR BY OTHER METHODS AS DIRECTED.

END OF SECTION 03 30 00

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 26063

MCA Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
HOUMA, LA. 70363

STAMP:
STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. No. 28228
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/11/2026

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DWG TITLE:

DWG No. S3

1 / S4

SPECIFICATIONS (CONT.)

SECTION 05 12 00 – STRUCTURAL STEEL

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 SUMMARY

A. SCOPE: THIS SECTION INCLUDES FABRICATION AND ERECTION OF STRUCTURAL STEEL WORK, AS SHOWN ON DRAWINGS INCLUDING SCHEDULES, NOTES, AND DETAILS SHOWING SIZE AND LOCATION OF MEMBERS, TYPICAL CONNECTIONS, AND TYPES OF STEEL REQUIRED.

B. STRUCTURAL STEEL IS THAT WORK DEFINED IN AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "CODE OF STANDARD PRACTICE" CURRENT EDITION, AND AS OTHERWISE SHOWN ON DRAWINGS.

C. MISCELLANEOUS METAL FABRICATIONS ARE SPECIFIED ELSEWHERE IN DIVISION 5.

1.3 SUBMITTALS

A. GENERAL: SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT AND DIVISION 1 SPECIFICATION SECTIONS.

B. PRODUCT DATA OR MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR FOLLOWING PRODUCTS. INCLUDE LABORATORY TEST REPORTS AND OTHER DATA TO SHOW COMPLIANCE WITH SPECIFICATIONS (INCLUDING SPECIFIED STANDARDS).

1. STRUCTURAL STEEL (EACH TYPE), INCLUDING CERTIFIED COPIES OF MILL REPORTS COVERING CHEMICAL AND PHYSICAL PROPERTIES.
2. HIGH-STRENGTH BOLTS (EACH TYPE), INCLUDING NUTS AND WASHERS.
3. STRUCTURAL STEEL PRIMER PAINT.
4. SHRINKAGE-RESISTANT GROUT.

C. SHOP DRAWINGS, INCLUDING COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS, PROCEDURES, AND DIAGRAMS.

1. INCLUDE DETAILS OF CUTS, CONNECTIONS, CAMBER, HOLES, AND OTHER PERTINENT DATA. INDICATE WELDS BY STANDARD AWS SYMBOLS AND SHOW SIZE, LENGTH, AND TYPE OF EACH WELD.
2. PROVIDE SETTING DRAWINGS, TEMPLATES, AND DIRECTIONS FOR INSTALLATION OF ANCHOR BOLTS AND OTHER ANCHORAGES TO BE INSTALLED AS WORK OF OTHER SECTIONS.
3. SEE SECTION SUBMITTALS FOR SHOP DRAWINGS REQUIREMENTS. REPRODUCTIONS MADE FROM CONTRACT DRAWINGS WILL NOT BE ACCEPTED. SUBMIT ONE (1) ELECTRONIC PRINT FOR REVIEW AND COMMENT. THE ENGINEER WILL HAVE UP TO TEN (10) WORKING DAYS FROM THE TIME OF RECEIPT OF THE SUBMITTAL TO COMPLETE HIS REVIEW AND RETURN THE SUBMITTAL TO THE ARCHITECT. REVIEW OF SHOP DRAWINGS BY THE ARCHITECT/ENGINEER WILL BE FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY WILL BE ASSUMED FOR CORRECTNESS OF DIMENSIONS, QUANTITIES OR DETAILS.
4. MISCELLANEOUS METAL FABRICATIONS ARE SPECIFIED ELSEWHERE IN DIVISION 5.
5. ALL SHOP DRAWINGS USED IN THE FIELD MUST BEAR THE ARCHITECT/ENGINEER SHOP DRAWINGS REVIEW STAMP WITH "NO EXCEPTIONS TAKEN" INDICATED.
6. FOR CONNECTIONS NOT SCHEDULED OR DETAILED INCLUDE STAMPED CALCULATIONS AND SHOP DRAWINGS PREPARED UNDER SUPERVISION OF A LOUISIANA-LICENSED STRUCTURAL ENGINEER.

D. MILL TEST REPORTS: SUBMIT MANUFACTURER'S CERTIFIED TEST REPORTS TO THE TESTING LABORATORY AND ARCHITECT SHOWING CHEMICAL ANALYSIS AND RESULTS OF TENSILE AND BENDING TESTS. TESTS SHALL MEET THE REQUIREMENTS OF ASTM A6/A6M.

E. TEST REPORTS CONDUCTED ON SHOP AND FIELD-BOLTED AND WELDED CONNECTIONS. INCLUDE DATA ON TYPE(S) OF TESTS CONDUCTED AND TEST RESULTS.

F. AISC CERTIFICATION DOCUMENTATION FOR FABRICATORS AND ERECTORS.

1.4 QUALITY ASSURANCE

A. STANDARD SPECIFICATIONS: EXCEPT AS MODIFIED OR SUPPLEMENTED BY THESE SPECIFICATIONS, MATERIALS, DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S "SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", JUNE 22, 2010, AND THE A.I.S.C. "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", APRIL 14, 2010. A.I.S.C. STEEL CONSTRUCTION MANUAL, FOURTEENTH EDITION.

B. CODES AND STANDARDS: COMPLY WITH PROVISIONS OF FOLLOWING, EXCEPT AS OTHERWISE INDICATED:

1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."

A. PARAGRAPH 4.2.1 OF THE ABOVE CODE IS HEREBY MODIFIED BY DELETION OF THE FOLLOWING SENTENCE:

"THIS APPROVAL CONSTITUTES THE OWNER'S ACCEPTANCE OF ALL RESPONSIBILITY FOR THE DESIGN ADEQUACY OF ANY DETAIL CONFIGURATION OF CONNECTIONS DEVELOPED BY THE FABRICATOR AS A PART OF HIS PREPARATION OF THESE SHOP DRAWINGS."

2. AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS," INCLUDING "COMMENTARY."
3. "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM F 3125 BOLTS" APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.
4. AMERICAN WELDING SOCIETY (AWS) D1.1 "STRUCTURAL WELDING CODE – STEEL."
5. ASTM A 6 "GENERAL REQUIREMENTS FOR DELIVERY OF ROLLED STEEL PLATES, SHAPES, SHEET PILING AND BARS FOR STRUCTURAL USE."

C. QUALIFICATIONS FOR WELDING WORK: QUALIFY WELDING PROCEDURES AND WELDING OPERATORS IN ACCORDANCE WITH AWS "QUALIFICATION" REQUIREMENTS.

1. PROVIDE CERTIFICATION THAT WELDERS TO BE EMPLOYED IN WORK HAVE SATISFACTORILY PASSED AWS QUALIFICATION TESTS.
2. IF RECERTIFICATION OF WELDERS IS REQUIRED, RETESTING WILL BE CONTRACTOR'S RESPONSIBILITY.

D. FABRICATORS AND ERECTORS SHALL BE AISC CERTIFIED.

1.5 DELIVERY, STORAGE, AND HANDLING

A. DELIVER MATERIALS TO SITE AT SUCH INTERVALS TO ENSURE UNINTERRUPTED PROGRESS OF WORK.

B. DELIVER ANCHOR BOLTS AND ANCHORAGE DEVICES, WHICH ARE TO BE EMBEDDED IN CAST-IN-PLACE CONCRETE OR MASONRY, IN AMPLE TIME TO NOT TO DELAY WORK.

C. STORE MATERIALS TO PERMIT EASY ACCESS FOR INSPECTION AND IDENTIFICATION. KEEP STEEL MEMBERS OFF-GROUND BY USING PALLETS, PLATFORMS, OR OTHER SUPPORTS. PROTECT STEEL MEMBERS AND PACKAGED MATERIALS FROM EROSION AND DETERIORATION. IF BOLTS AND NUTS BECOME DRY OR RUSTY, CLEAN AND RELUBRICATE BEFORE USE.

PART 2 – PRODUCTS

2.1 MATERIALS

A. METAL SURFACES, GENERAL: FOR FABRICATION OF WORK THAT WILL BE EXPOSED TO VIEW, USE ONLY MATERIALS THAT ARE SMOOTH AND FREE OF SURFACE BLEMISHES INCLUDING PITTING, RUST AND SCALE SEAM MARKS, ROLLER MARKS, ROLLED TRADE NAMES, AND ROUGHNESS. REMOVE SUCH BLEMISHES BY GRINDING, OR BY WELDING AND GRINDING, PRIOR TO CLEANING, TREATING, AND APPLYING SURFACE FINISHES.

B. STRUCTURAL STEEL.
1. SHAPES, EXCEPT FOR CHANNELS, ANGLES AND PLATE: ASTM A992 GRADE 50.
2. CHANNELS, ANGLES AND PLATE: ASTM A 36.

C. COLD-FORMED STEEL TUBING: ASTM A 500, GRADE B, MIN. FY = 46 KSI.

D. STEEL PIPE: ASTM A 53, TYPE E OR S, GRADE B; OR ASTM A 501, MIN. FY = 35 KSI.

E. ANCHOR BOLTS: ASTM F 1554, NON-HEADED TYPE UNLESS OTHERWISE INDICATED.

F. UNFINISHED THREADED FASTENERS: ASTM A 307, GRADE A, REGULAR LOW-CARBON STEEL BOLTS AND NUTS.

1. PROVIDE HEXAGONAL HEADS AND NUTS FOR ALL CONNECTIONS.

G. HIGH-STRENGTH THREADED FASTENERS: HEAVY HEXAGON STRUCTURAL BOLTS, HEAVY HEXAGON NUTS, AND HARDENED WASHERS, AS FOLLOWS.

1. QUENCHED AND TEMPERED MEDIUM-CARBON STEEL BOLTS, NUTS, AND WASHERS, COMPLYING WITH ASTM F 3125.
2. WHERE INDICATED AS GALVANIZED, PROVIDE UNITS THAT ARE ZINC COATED, EITHER MECHANICALLY DEPOSITED COMPLYING WITH ASTM B 695, CLASS 50, OR HOT-DIP GALVANIZED COMPLYING WITH ASTM A 153.

H. ELECTRODES FOR WELDING: COMPLY WITH AWS CODE.

1. WELDING ELECTRODES FOR MANUAL SHIELDED METAL-ARC WELDING SHALL CONFORM TO AWS A5.1 OR A5.5 E70XXX WELDING ELECTRODES AND FLUX USED IN SUBMERGED ARC PROCESS SHALL CONFORM TO AWS A5.17 F7X-EXXX. USE LOW HYDROGEN ELECTRODES FOR A572 STEEL.

I. HEADED CONCRETE ANCHORS (H.C.A.): TO MEET OR EXCEED AWS SPECIFICATION D1.1.

J. DEFORMED BAR ANCHOR (D.B.A.): MANUFACTURE RED IN ACCORDANCE WITH ASTM A 496.

K. STRUCTURAL STEEL PRIMER PAINT: RUST-INHIBITIVE CONFORMING TO FED. SPEC. SSPC 15 AND BE COMPATIBLE WITH FINISH PAINT SYSTEMS.

L. CEMENT GROUT: PORTLAND CEMENT (ASTM C 150, TYPE I OR TYPE III) AND CLEAN, UNIFORMLY GRADED, NATURAL SAND (ASTM C 404, SIZE NO. 2). MIX AT A RATIO OF 1.0 PART CEMENT TO 2.0 PARTS SAND, BY VOLUME, WITH MINIMUM WATER REQUIRED FOR PLACEMENT AND HYDRATION.

M. NONMETALLIC SHRINKAGE-RESISTANT GROUT: PREMIXED, NONMETALLIC, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING SELECTED SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTICIZING AND WATER-REDUCING AGENTS, COMPLYING WITH CE-CRD-C621.

2.2 FABRICATION

A. SHOP FABRICATION AND ASSEMBLY: FABRICATE AND ASSEMBLE STRUCTURAL ASSEMBLIES IN SHOP TO GREATEST EXTENT POSSIBLE. FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATIONS AND AS INDICATED ON FINAL SHOP DRAWINGS. PROVIDE CAMBER IN STRUCTURAL MEMBERS WHERE INDICATED.

1. PROPERLY MARK AND MATCH-MARK MATERIALS FOR FIELD ASSEMBLY. FABRICATE FOR DELIVERY SEQUENCE THAT WILL EXPEDITE ERECTION AND MINIMIZE FIELD HANDLING OF MATERIALS.
2. WHERE FINISHING IS REQUIRED, COMPLETE ASSEMBLY, INCLUDING WELDING OF UNITS, BEFORE START OF FINISHING OPERATIONS. PROVIDE FINISH SURFACES OF MEMBERS EXPOSED IN FINAL STRUCTURE FREE OF MARKINGS, BURRS, AND OTHER DEFECTS.

B. CONNECTIONS: WELD OR BOLT SHOP CONNECTIONS, AS INDICATED.

1. BOLT FIELD CONNECTIONS, EXCEPT WHERE WELDED CONNECTIONS OR OTHER CONNECTIONS ARE INDICATED.

C. WELDED CONSTRUCTION: COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND METHODS USED IN CORRECTING WELDING WORK.

D. HOLES FOR OTHER WORK: PROVIDE HOLES REQUIRED FOR SECURING OTHER WORK TO STRUCTURAL STEEL FRAMING AND FOR PASSAGE OF OTHER WORK THROUGH STEEL FRAMING MEMBERS, AS SHOWN ON FINAL SHOP DRAWINGS.

1. PROVIDE THREADED NUTS WELDED TO FRAMING AND OTHER SPECIALTY ITEMS AS INDICATED TO RECEIVE OTHER WORK.
2. CUT, DRILL, OR PUNCH HOLES PERPENDICULAR TO METAL SURFACES. DO NOT FLAME-CUT HOLES OR ENLARGE HOLES BY BURNING. DRILL HOLES IN BEARING PLATES.

2.3 SHOP PAINTING

A. GENERAL: SHOP-PAINT STRUCTURAL STEEL, EXCEPT THOSE MEMBERS OR PORTIONS OF MEMBERS TO BE EMBEDDED IN CONCRETE OR MORTAR. PAINT EMBEDDED STEEL THAT IS PARTIALLY EXPOSED ON EXPOSED PORTIONS AND INITIAL 2 INCHES OF EMBEDDED AREAS ONLY.

1. DO NOT PAINT SURFACES TO BE WELDED OR HIGH-STRENGTH BOLTED WITH FRICTION-TYPE CONNECTIONS.
2. DO NOT PAINT SURFACES SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING.
3. APPLY 2 COATS OF PAINT TO SURFACES THAT ARE INACCESSIBLE AFTER ASSEMBLY OR ERECTION. CHANGE COLOR OF SECOND COAT TO DISTINGUISH IT FROM FIRST.

B. PAINTING: IMMEDIATELY AFTER SURFACE PREPARATION, APPLY STRUCTURAL STEEL PRIMER PAINT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND AT A RATE TO PROVIDE DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. USE PAINTING METHODS THAT RESULT IN FULL COVERAGE OF JOINTS, CORNERS, EDGES, AND EXPOSED SURFACES.

2.4 GALVANIZING

A. ITEMS SHOWN ON THE PLANS TO BE GALVANIZED AND BOLTS FOR SAME SHALL BE HOT DIP ZINC COATED AFTER FABRICATIONS. GALVANIZING SHALL BE DONE IN ACCORDANCE WITH A.S.T.M. SERIAL DESIGNATION A123 AND A153. ANY ZINC COATING THAT IS DAMAGED SHALL BE TOUCHED UP WITH GALVACON AS MANUFACTURED BY SOUTHERN COATINGS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

2.5 SOURCE QUALITY CONTROL

A. GENERAL: MATERIALS AND FABRICATION PROCEDURES ARE SUBJECT TO INSPECTION AND TESTS IN MILL, SHOP, AND FIELD, CONDUCTED BY A QUALIFIED INSPECTION AGENCY. SUCH INSPECTIONS AND TESTS WILL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR PROVIDING MATERIALS AND FABRICATION PROCEDURES IN COMPLIANCE WITH SPECIFIED REQUIREMENTS.

1. PROMPTLY REMOVE AND REPLACE MATERIALS OR FABRICATED COMPONENTS THAT DO NOT COMPLY.

B. DESIGN OF MEMBERS AND CONNECTIONS: DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED. VERIFY DIMENSIONS AT SITE WHENEVER POSSIBLE WITHOUT CAUSING DELAY IN THE WORK.

1. PROMPTLY NOTIFY ARCHITECT WHENEVER DESIGN OF MEMBERS AND CONNECTIONS FOR ANY PORTION OF STRUCTURE ARE NOT CLEARLY INDICATED.

PART 3 – EXECUTION

3.1 ERECTION

A. TEMPORARY SHORING AND BRACING: PROVIDE TEMPORARY SHORING AND BRACING MEMBERS WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSED LOADS. REMOVE TEMPORARY MEMBERS AND CONNECTIONS WHEN PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE. PROVIDE TEMPORARY GUY LINES TO ACHIEVE PROPER ALIGNMENT OF STRUCTURES AS ERECTION PROCEEDS.

B. TEMPORARY PLANKING: PROVIDE TEMPORARY PLANKING AND WORKING PLATFORMS AS NECESSARY TO EFFECTIVELY COMPLETE WORK.

C. SETTING BASES AND BEARING PLATES: CLEAN CONCRETE AND MASONRY BEARING SURFACES OF BOND-REDUCING MATERIALS AND ROUGHEN TO IMPROVE BOND TO SURFACES. CLEAN BOTTOM SURFACE OF BASE AND BEARING PLATES.

1. SET LOOSE AND ATTACHED BASE PLATES AND BEARING PLATES FOR STRUCTURAL MEMBERS ON WEDGES OR OTHER ADJUSTING DEVICES.
2. TIGHTEN ANCHOR BOLTS AFTER SUPPORTED MEMBERS HAVE BEEN POSITIONED AND PLUMBED. DO NOT REMOVE WEDGES OR SHIMS, BUT IF PROTRUDING, CUT OFF FLUSH WITH EDGE OF BASE OR BEARING PLATE PRIOR TO PACKING WITH GROUT.
3. PACK GROUT SOLIDLY BETWEEN BEARING SURFACES AND BASES OR PLATES TO ENSURE THAT NO VOIDS REMAIN. FINISH EXPOSED SURFACES, PROTECT INSTALLED MATERIALS, AND ALLOW TO CURE.
4. FOR PROPRIETARY GROUT MATERIALS, COMPLY WITH MANUFACTURER'S INSTRUCTIONS.

D. FIELD ASSEMBLY: SET STRUCTURAL FRAMES ACCURATELY TO LINES AND ELEVATIONS INDICATED. ALIGN AND ADJUST VARIOUS MEMBERS FORMING PART OF COMPLETE FRAME OR STRUCTURE BEFORE PERMANENTLY FASTENING. CLEAN BEARING SURFACES AND OTHER SURFACES THAT WILL BE IN PERMANENT CONTACT BEFORE ASSEMBLY. PERFORM NECESSARY ADJUSTMENTS TO COMPENSATE FOR DISCREPANCIES IN ELEVATIONS AND ALIGNMENT.

1. LEVEL AND PLUMB INDIVIDUAL MEMBERS OF STRUCTURE WITHIN SPECIFIED AISC TOLERANCES.
2. SPLICE MEMBERS ONLY WHERE INDICATED AND ACCEPTED ON SHOP DRAWINGS.

E. ERECTION BOLTS: ON EXPOSED WELDED CONSTRUCTION, REMOVE ERECTION BOLTS, FILL HOLES WITH PLUG WELDS, AND GRIND SMOOTH AT EXPOSED SURFACES.

1. COMPLY WITH AISC SPECIFICATIONS FOR BEARING, ADEQUACY OF TEMPORARY CONNECTIONS, ALIGNMENT, AND REMOVAL OF PAINT ON SURFACES ADJACENT TO FIELD WELDS.
2. DO NOT ENLARGE UNFAIR HOLES IN MEMBERS BY BURNING OR BY USING DRIFT PINS, EXCEPT IN SECONDARY BRACING MEMBERS. REAM HOLES THAT MUST BE ENLARGED TO ADMIT BOLTS.

F. GAS CUTTING: DO NOT USE GAS CUTTING TORCHES IN FIELD FOR CORRECTING FABRICATION ERRORS IN PRIMARY STRUCTURAL FRAMING. CUTTING WILL BE PERMITTED ONLY ON SECONDARY MEMBERS THAT ARE NOT UNDER STRESS, AS ACCEPTABLE TO ARCHITECT. FINISH GAS-CUT SECTIONS EQUAL TO A SHEARED APPEARANCE WHEN PERMITTED.

G. TOUCH-UP PAINTING: IMMEDIATELY AFTER ERECTION, CLEAN FIELD WELDS, BOLTED CONNECTIONS, AND ABRADED AREAS OF SHOP PAINT. APPLY PAINT TO EXPOSED AREAS USING SAME MATERIAL AS USED FOR SHOP PAINTING.

1. APPLY BY BRUSH OR SPRAY TO PROVIDE MINIMUM DRY FILM THICKNESS OF 1.5 MILS.

3.2 QUALITY CONTROL

A. THE OWNER WILL ENGAGE AN INDEPENDENT TESTING AND INSPECTION AGENCY TO INSPECT HIGH-STRENGTH BOLTED WELDED CONNECTIONS AND TO PERFORM TESTS AND PREPARE TEST REPORTS.
1. THE TESTING LAB SHALL BE IN COMPLIANCE WITH ASTM A 880 'PRACTICE FOR CRITERIA FOR USE IN EVALUATION OF TESTING LABORATORIES AND ORGANIZATIONS FOR EXAMINATION AND INSPECTION OF STEEL, STAINLESS STEEL, AND RELATED ALLOYS?
   a. THE TESTING LABORATORY SHALL SUBMIT A CERTIFICATE OF ACCREDITATION, INCLUDING THE SCOPE OF ACCREDITATION THAT INDICATES COMPLIANCE WITH THE ABOVE STANDARDS.
   b. VISUAL INSPECTION OF WELDS SHALL BE PERFORMED BY AN AWS CERTIFIED WELDING INSPECTOR (AWS-QC-1).
   c. THE INSPECTION OF WELDS SHALL BE OVERSEEN BY AN AWS CERTIFIED WELDING INSPECTOR.
2. TESTING AGENCY SHALL CONDUCT AND INTERPRET TESTS, STATE IN EACH REPORT WHETHER TEST SPECIMENS COMPLY WITH REQUIREMENTS, AND SPECIFICALLY STATE ANY DEVIATIONS THEREFROM.
3. PROVIDE ACCESS FOR TESTING AGENCY TO PLACES WHERE STRUCTURAL STEEL WORK IS BEING FABRICATED OR PRODUCED SO THAT REQUIRED INSPECTION AND TESTING CAN BE ACCOMPLISHED.
4. TESTING AGENCY MAY INSPECT STRUCTURAL STEEL AT PLANT BEFORE SHIPMENT.

B. CORRECT DEFICIENCIES IN STRUCTURAL STEEL WORK THAT INSPECTIONS AND LABORATORY TEST REPORTS HAVE INDICATED TO BE NOT IN COMPLIANCE WITH REQUIREMENTS. PERFORM ADDITIONAL TESTS, AT CONTRACTOR'S EXPENSE, AS NECESSARY TO RECONFIRM ANY NONCOMPLIANCE OF ORIGINAL WORK AND TO SHOW COMPLIANCE OF CORRECTED WORK.

C. SHOP-BOLTED CONNECTIONS: INSPECT OR TEST IN ACCORDANCE WITH AISC SPECIFICATIONS. VERIFY THAT GAPS OF INSTALLED DIRECT TENSION INDICATORS ARE LESS THAN GAPS SPECIFIED IN ASTM F 959, TABLE 2.

D. SHOP WELDING: INSPECT AND TEST DURING FABRICATION OF STRUCTURAL STEEL ASSEMBLIES, AS FOLLOWS:

1. CERTIFY WELDERS AND CONDUCT INSPECTIONS AND TESTS AS REQUIRED. RECORD TYPES AND LOCATIONS OF DEFECTS FOUND IN WORK. RECORD WORK REQUIRED AND PERFORMED TO CORRECT DEFICIENCIES.
2. PERFORM VISUAL INSPECTION OF ALL WELDS.
3. PERFORM TESTS ON 20% OF ALL FULL-PEN WELDS AS FOLLOWS: ULTRASONIC INSPECTION: ASTM E 164.

E. FIELD-BOLTED CONNECTIONS: INSPECT IN ACCORDANCE WITH AISC SPECIFICATIONS.

F. FIELD WELDING: INSPECT AND TEST DURING ERECTION OF STRUCTURAL STEEL AS FOLLOWS:

1. CERTIFY WELDERS AND CONDUCT INSPECTIONS AND TESTS AS REQUIRED. RECORD TYPES AND LOCATIONS OF DEFECTS FOUND IN WORK. RECORD WORK REQUIRED AND PERFORMED TO CORRECT DEFICIENCIES.
2. PERFORM VISUAL INSPECTION OF ALL WELDS.
3. PERFORM TESTS OF ALL (100%) FULL-PEN WELDS AS FOLLOWS: ULTRASONIC INSPECTION: ASTM E 164.

G. TESTING AND INSPECTION OF HEADED CONCRETE ANCHORS (H.C.A.): THE TESTING LAB SHALL CONDUCT TESTS AND INSPECTIONS IN ACCORDANCE WITH AWS D1.1, LATEST EDITION, CHAPTER 7 ? STUD WELDING?

END OF SECTION

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 26065

MCA
Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
HOUMA, LA. 70363

STAMP:
STATE OF LOUISIANA
JONATHAN J. SOFRANKO
REG. 28226
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
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DWG No. S4

1 SPECIFICATIONS (CONT.)
S8

SECTION 31 2000 – EARTHWORK

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 SUMMARY

A. SECTION INCLUDES:

1. SITE PREPARATION
2. EXCAVATION
3. BACKFILL
4. FILL

1.3 DESCRIPTION OF WORK

A. EXTENT OF EARTHWORK IS SHOWN ON THE DRAWINGS.
B. CONTRACTOR SHALL PRODUCE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE CITY OF NEW ORLEANS.

1.4 QUALITY ASSURANCE

A. CODES AND STANDARDS: PERFORM EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION.

B. THE OWNER WILL EMPLOY AN INDEPENDENT TESTING LABORATORY TO CONDUCT ALL INSPECTIONS AND TESTING OF FILL MATERIALS AND COMPACTION OF FILL AND BACKFILL.
1. THE TESTING LAB SHALL BE IN COMPLIANCE WITH ASTM E 329 " STANDARD SPECIFICATION FOR AGENCIES ENGAGED IN CONSTRUCTION INSPECTION AND/OR TESTING " AND ASTM D 3740 " STANDARD PRACTICE FOR MINIMUM REQUIREMENTS FOR AGENCIES ENGAGED IN TESTING AND/OR INSPECTION OF SOIL AND ROCK AS USED IN ENGINEERING DESIGN AND CONSTRUCTION' .

1.5 JOB CONDITIONS

A. EXISTING UTILITIES: LOCATE EXISTING UNDERGROUND UTILITIES, IF ANY, IN THE AREAS OF WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTION DURING EARTHWORK OPERATIONS.

1. SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE UTILITY OWNER IMMEDIATELY FOR DIRECTIONS. COOPERATE WITH OWNER AND UTILITY COMPANIES IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO SATISFACTION OF UTILITY OWNER.
2. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY ARCHITECT AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
3. COORDINATE WITH UTILITY COMPANIES FOR SHUT–OFF OF SERVICES IF LINES ARE ACTIVE.

B. USE OF EXPLOSIVES: THE USE OF EXPLOSIVES IS NOT PERMITTED.

C. PROTECTION OF PERSONS AND PROPERTY: BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF THIS WORK AND POST WITH WARNING LIGHTS. OPERATE WARNING LIGHTS AS RECOMMENDED BY AUTHORITIES HAVING JURISDICTION.

D. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, EARTHWORK ACTIVITIES, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS.

PART 2 – PRODUCTS

2.1 SOIL MATERIALS

A. FILL MATERIAL: SELECT GRANULAR MATERIAL, SUCH AS LOCALLY AVAILABLE SAND, SHALL BE USED AS BACKFILL AND/OR FILL REQUIRED TO REACH DESIGN GRADE. SAND FILL SHALL BE NON–PLASTIC AND FREE OF ROOTS, CLAY LUMPS, AND OTHER DELETERIOUS MATERIALS WITH NO MORE THAN 10% BY WEIGHT OF MATERIAL PASSING A U.S. STANDARD NO. 200 MESH SIEVE. PRIOR TO TRANSPORTING THIS FILL TO SITE, A SAMPLE SHALL BE TESTED BY THE OWNER'S INDEPENDENT TESTING LABORATORY TO VERIFY ITS CONFORMANCE TO THESE REQUIREMENTS.

2.2 MEMBRANE MATERIALS:

A. IMPERMEABLE GEOMEMBRANE LAYER SHALL BE 80 MIL HDPE SMOOTH MATERIAL, IN ACCORDANCE WITH GRI TEST METHOD GM13. ACCEPTABLE PRODUCT MANUFACTURERS ARE LAYFIELD GROUP, U.S. FABRICS INC., OR APPROVED EQUAL. REFER TO I.A.G.I. LLDPE GEOMEMBRANE INSTALLATION SPECIFICATION MANUFACTURER'S INSTALLATION REQUIREMENTS AND INSTALLATION INSTRUCTIONS.

2.3 GEOTEXTILE FABRIC

A. GEOTEXTILE FABRIC SHALL BE MIRAFI 600X OR APPROVED EQUAL.

2.4 STEEL WIRE MATTRESS

A. ROCK–FILLED STEEL WIRE MATTRESS FOR SCOUR PROTECTION: RENO MATTRESS BY GABION SUPPLY OR APPROVED EQUAL FROM AN ALTERNATE MANUFACTURER.
1. MATTRESS SHALL MEET THE REQUIREMENTS OF ASTM A975.
2. MATTRESS SHALL BE CONSTRUCTED OF GALVANIZED DOUBLE TWISTED 13 GAUGE STEEL WIRE.
3. THE EDGES SHALL BE REINFORCED (SELVEDGED) WITH HEAVIER 9 GAUGE WIRE.
4. MATTRESS SHALL BE DIVIDED WITH INTERNAL PARTITIONS TO FORM UNIFORMLY SPACED CELLS.
5. MESH OPENINGS SHALL BE 2–½" x 3–¼"
6. REFER TO THE DRAWINGS FOR MATTRESS DIMENSIONS.

B. ROCK–FILL FOR MATTRESS: REFER TO DRAWINGS FOR REQUIRED ROCK GRADATION.

PART 3 – EXECUTION

3.1 SITE PREPARATION

A. ESTABLISH ADEQUATE DRAINAGE TO PREVENT PONDING OF WATER AND ENSURE IMMEDIATE RUNOFF OF ALL RAINFALL. SHOULD AREAS OF PONDING WATER DEVELOP, THE CONTRACTOR SHALL IMMEDIATELY PUMP PONDING WATER AWAY FROM AREAS OF CONSTRUCTION.

B. CLEARING AND STRIPPING: THE EXISTING GROUND SURFACE SHALL BE STRIPPED OF ANY VEGETATION, LOOSE TOPSOIL, DEBRIS STUMPS, ORGANIC MATTER, LOOSE FILL, AND ANY OTHER DELETERIOUS MATERIALS. STRIPPING SHALL BE TO THE MINIMUM DEPTH NECESSARY TO REMOVE ANY VEGETATION AND ROOTS. DEEPER EXCAVATIONS MAY BE REQUIRED IN THE VICINITY OF STUMPS OR DEMOLITION DEBRIS. THE EXACT DEPTH OF STRIPPING SHALL BE DETERMINED DURING CONSTRUCTION BY A REPRESENTATIVE OF OWNER'S INDEPENDENT TESTING LABORATORY.

C. DEMOLITION: PROVISIONS SHALL BE MADE TO LOCATED ANY ABANDONED UNDERGROUND UTILITIES AND FOUNDATIONS WHICH COULD IMPACT NEW CONSTRUCTION. EXISTING FOOTINGS AND ABANDONED PIPES SHALL BE REMOVED FROM SITE. VOIDS AND DIPS LEFT BY THESE EXCAVATED ITEMS SHALL BE PROOFROLLED AND BACKFILLED WITH STRUCTURAL FILL MATERIAL. EXISTING PILES BENEATH PILE SUPPORTED FEATURES SHALL BE CUT OFF AT LEAST 2 FEET BELOW THE PILE SUPPORTED FOUNDATIONS. EXISTING PILES BENEATH AREAS OF PAVING FEATURES SHALL BE CUT OFF AT LEAST 3 FEET BELOW THE BOTTOM OF PAVEMENT. REMOVAL OF EXCAVATED STRUCTURES SHALL ALSO CONFORM TO SECTION 202 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION.

D. AFTER STRIPPING AND CLEARING OPERATIONS, THE EXPOSED SURFACE SHALL BE PROOFROLLED WITH A LOADED TANDEM AXLE DUMP TRUCK. THE VIBRATORY SYSTEM ON THE COMPACTOR, IF PRESENT, SHALL NOT BE USED DURING PROOFROLLING. ANY DEPRESSIONS, STUMP HOLES, OR WEAK AREAS IDENTIFIED SHALL BE THOROUGHLY CLEANED OUT TO THE SURFACE OF FIRM, UNDISTURBED SOIL AND BACKFILLED WITH A SELECT STRUCTURAL FILL MATERIAL PLACED AND COMPACTED UNDER CONTROLLED CONDITIONS. ALL CLEARING AND COMPACTION OPERATIONS SHALL ONLY BE PERFORMED DURING PERIODS OF DRY WEATHER. PROOFROLLING OPERATIONS SHALL BE WITNESSED BY A REPRESENTATIVE OF THE OWNER'S INDEPENDENT TESTING LABORATORY. MOTORIZED WHEELED EQUIPMENT SHALL NOT BE ALLOWED WITHIN THE FOUNDATION AREA DURING PERIODS OF INCLEMENT WEATHER.

E. INSTALLATION OF STEEL WIRE MATTRESSES: FOLLOWING JOBSITE ASSEMBLY AND PLACEMENT, THE MATTRESSES SHALL BE FILLED WITH ROCKS. REFER TO DRAWINGS FOR MATTRESS AND ROCK PLACEMENT.

3.2 EXCAVATION

A. SHORING AND BRACING:

1. PROVIDE MATERIALS FOR SHORING AND BRACING, SUCH AS SHEET PILING, UPRIGHTS, STRINGERS AND CROSS–BRACES, IN GOOD SERVICEABLE CONDITION.
2. ESTABLISH REQUIREMENTS FOR SHORING AND BRACING TO COMPLY WITH LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
3. MAINTAIN SHORING AND BRACING IN EXCAVATIONS REGARDLESS OF TIME PERIOD EXCAVATIONS WILL BE OPEN. CARRY DOWN SHORING AND BRACING AS EXCAVATION PROGRESSES.
4. PROVIDE PERMANENT STEEL SHEET PILING OR PRESSURE TREATED TIMBER SHEET PILING WHEREVER SUBSEQUENT REMOVAL OF SHEET PILING MIGHT PERMIT LATERAL MOVEMENT OF SOIL UNDER ADJACENT STRUCTURES, PAVING, ETC. CUT OFF TOPS ARE REQUIRED AND LEAVE PERMANENTLY IN PLACE.

B. DEWATERING:

1. PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM FLOWING INTO EXCAVATIONS AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA.
2. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, UNDERCUTTING FOOTINGS, AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES AND FOUNDATIONS. PROVIDE AND MAINTAIN PUMPS, WELL POINTS, SUMPS, SUCTION AND DISCHARGE LINES, AND OTHER DEWATERING SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS.
3. CONVEY WATER REMOVED FROM EXCAVATIONS AND RAIN WATER TO COLLECTING OR RUN–OFF AREAS. ESTABLISH AND MAINTAIN TEMPORARY DRAINAGE DITCHES AND OTHER DIVERSIONS OUTSIDE EXCAVATION LIMITS FOR EACH STRUCTURE. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.
4. DISPOSE OF EXCESS SOIL MATERIAL AND WASTE MATERIALS AS HEREIN SPECIFIED.

C. EXCAVATION FOR STRUCTURES:

1. CONFORM TO ELEVATIONS AND DIMENSIONS SHOWN WITHIN A TOLERANCE OF PLUS OR MINUS 0.10 FOOT, AND EXTENDING A SUFFICIENT DISTANCE FROM FOOTINGS AND FOUNDATIONS TO PERMIT PLACING AND REMOVAL OF CONCRETE FORM WORK, INSTALLATION OF SERVICES OTHER CONSTRUCTION, AND FOR INSPECTION.
2. IN EXCAVATING FOR FOOTINGS AND OTHER SUBGRADE CONSTRUCTION, TAKE CARE NOT TO DISTURB BOTTOM OF EXCAVATION. TRIM BOTTOMS TO REQUIRED LINES AND GRADES TO LEAVE SOLID BASE TO RECEIVE CONCRETE.

D. EXCAVATION FOR TRENCHES:

1. DIG TRENCHES TO THE UNIFORM WIDTH REQUIRED FOR THE PARTICULAR ITEM TO BE INSTALLED, SUFFICIENTLY WIDE TO PROVIDE AMPLE WORKING ROOM.
2. EXCAVATE TRENCHES TO THE DEPTH INDICATED OR REQUIRED. CARRY THE DEPTH OF TRENCHES FOR PIPING TO ESTABLISH THE INDICATED FLOW LINES AND INVERT ELEVATIONS. BEYOND THE BUILDING PERIMETER, KEEP BOTTOMS OF TRENCHES SUFFICIENTLY BELOW FINISH GRADE TO AVOID FREEZE–UPS.
3. GRADE BOTTOMS OF TRENCHES AS INDICATED, NOTCHING UNDER PIPE BELLS TO PROVIDE SOLID BEARING FOR THE ENTIRE BODY OF PIPE.
4. BACKFILL TRENCHES WITH CONCRETE WHERE TRENCH EXCAVATIONS PASS WITHIN 18" OF SOIL SUPPORTED COLUMN OR WALL FOOTINGS WHICH ARE CARRIED BELOW THE BOTTOM OF SUCH FOOTINGS, OR WHICH PASS UNDER WALL FOOTINGS. OTHERWISE COMPACT AS REQUIRED FOR ADJACENT SOIL. CONCRETE IS SPECIFIED IN DIVISION 3.
5. DO NOT BACKFILL TRENCHES UNTIL TESTS AND INSPECTIONS HAVE BEEN MADE. USE CARE IN BACKFILLING TO AVOID DAMAGE OR DISPLACEMENT OF PIPE SYSTEMS.

E. COLD WEATHER PROTECTION:

1. PROTECT EXCAVATION BOTTOMS AGAINST FREEZING WHEN ATMOSPHERIC TEMPERATURE IS LESS THAN 35 DEGREES F.

3.3 COMPACTION

A. STRUCTURAL FILL BENEATH AREAS OF PAVING SHALL BE PLACED IN MAXIMUM LIFTS OF 8 INCHES AND COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY NEAR OPTIMUM MOISTURE (–1% TO +3%) IN ACCORDANCE WITH ASTM D 698. PLACEMENT OF ALL FILL SHALL BE WITNESSED BY A REPRESENTATIVE OF THE OWNER'S INDEPENDENT TESTING LABORATORY. STRUCTURAL FILL MATERIAL SHALL BE CERTIFIED AND APPROVED BY THE OWNER'S INDEPENDENT TESTING LABORATORY PRIOR TO ITS USE.

B. SELECT USED FOR GRADING OF PILE–SUPPORTED BUILDING FOUNDATIONS SHALL BE SPREAD IN LOOSE LIFTS OF 10 TO 12 INCHES AND COMPACTED BY SEVERAL PASSES OF A BULLDOZER.

C. MOISTURE CONTROL:

1. WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE MOISTURE CONDITIONED BEFORE COMPACTION, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE, OR LAYER OF SOIL MATERIAL.
2. REMOVE AND REPLACE SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY.

3.4 BACKFILL AND FILL

A. GENERAL: PLACE FILL OR SATISFACTORY EXCAVATED MATERIAL IN LAYERS TO REQUIRED SUBGRADE ELEVATIONS.

B. BACKFILL EXCAVATIONS AS PROMPTLY AS WORK PERMITS, BUT NOT UNTIL COMPLETION OF THE FOLLOWING:

1. ACCEPTANCE BY ARCHITECT OF CONSTRUCTION BELOW FINISH GRADE.
2. INSPECTION, TESTING APPROVAL, AND RECORDING LOCATIONS OF UNDERGROUND UTILITIES.
3. REMOVAL OF CONCRETE FORMWORK.
4. REMOVAL OF SHORING AND BRACING, AND BACKFILLING OF VOIDS WITH SATISFACTORY MATERIALS. CUT OFF TEMPORARY SHEET PILING DRIVEN BELOW BOTTOM OF STRUCTURES OR REMOVE IN MANNER TO PREVENT SETTLEMENT OF THE STRUCTURE OR UTILITIES, OR LEAVE IN PLACE IF REQUIRED.
5. REMOVAL OF TRASH AND DEBRIS.
6. PERMANENT OR TEMPORARY HORIZONTAL BRACING IS IN PLACE ON HORIZONTALLY SUPPORTED WALLS.

3.5 FIELD QUALITY CONTROL

A. QUALITY CONTROL TESTING DURING CONSTRUCTION: ALLOW OWNER'S INDEPENDENT TESTING LABORATORY TO INSPECT AND APPROVE EACH SUBGRADE AND FILL LAYER BEFORE FURTHER BACKFILL OR CONSTRUCTION WORK IS PERFORMED. THE IN–PLACE DENSITY AND WATER CONTENT SHALL BE DETERMINED BY THE INDEPENDENT TESTING LABORATORY BY USING THE ASTM D6938–10 STANDARD TEST METHOD.

1. UTILITY TRENCHES – ONE COMPACTION TEST PER 100 LINEAR FEET OF EACH LIFT AND A MINIMUM OF ONE TEST BETWEEN UTILITY STRUCTURES (CATCH–BASIN, MANHOLES, ETC.) PER LIFT.
2. UNDER AREAS OF PAVING – FOR AREAS UNDER 5,000 S.F., TWO COMPACTION TESTS PER 2,500 S.F. FOR EACH LIFT IS REQUIRED. FOR AREAS THAT EXCEED 5,000 S.F., TWO COMPACTION TESTS PER 5,000 S.F. FOR EACH LIFT IS REQUIRED.
3. IN INSTANCES WHERE MULTIPLE TESTS ARE REQUIRED, THE TEST LOCATIONS SHALL BE SELECTED BY THE ENGINEER OF RECORD TO PROVIDE THE MAXIMUM AVAILABLE DISTANCE BETWEEN THE TEST LOCATIONS.

B. REJECTION OF COMPACTED MATERIALS: IF IN OPINION OF OWNER'S INDEPENDENT TESTING LABORATORY, BASED ON TESTING SERVICE REPORTS AND INSPECTION, SUBGRADE OR FILLS THAT HAVE BEEN PLACED ARE BELOW SPECIFIED DENSITY, PERFORM ADDITIONAL COMPACTION AND TESTING UNTIL SPECIFIED DENSITY IS OBTAINED.

3.6 DISPOSAL OF EXCESS AND WASTE MATERIALS

A. REMOVAL FROM OWNER'S PROPERTY: REMOVE TRASH DEBRIS, EXCESS EXCAVATED MATERIAL AND WASTE MATERIALS AND LAWFULLY DISPOSE OF IT OFF THE OWNER'S PROPERTY AT REGULAR INTERVALS. DO NOT ALLOW MATERIALS TO ACCUMULATE ON SITE IN A MANNER THAT WOULD HAMPER DEWATERING OPERATIONS.

END OF SECTION 31 2001

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488–1317
JOB NO. 26065

MCA
Engineering & Construction
BATON ROUGE - NEW ORLEANS

JOB NO: TPR23002
BG: 801
PROJECT MANAGER: KIMBALL SCHLAFLY

TERREBONNE PARISH DISTRICT 82921TPRD10
TPR DIST. 10 BALLFIELD IDA
625 BAYOU DULARGE ROAD
HOUMA, LA. 70363

STAMP:
STATE OF LOUISIANA
JONATHAN A. SOFRANKO
REG. 28226
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/11/2026

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DATE 9/11/2026

DWG TITLE:

DWG No. S5