RENOVATIONS TO DRIPPING SPRINGS SPORTS & RECREATION PARK ATHLETIC FIELDS LIGHTING DRIPPING SPRINGS, TEXAS



INDEX OF DRAWINGS

PROJECT PHASING PLAN E100

EDS101 ELECTRICAL DEMOLITION SITE PLAN

ELECTRICAL SITE PLAN

EP701 ELECTRICAL SYMBOLS & DETAILS

EP901 ELECTRICAL PANELBOARD SCHEDULES & RISER DIAGRAM

PARKS & RECREATION COMMISION

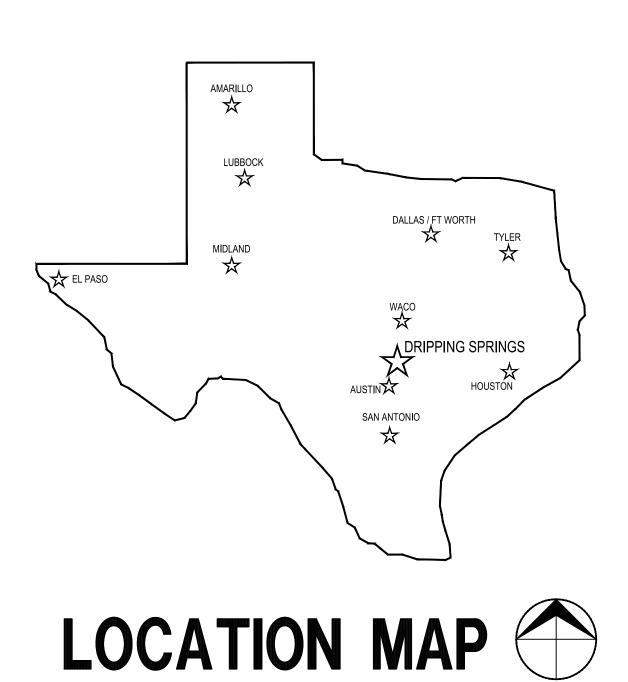
ERIC HENLINE WADE KING MATTHEW FOUGERAT MATTHEW ZARBOUGH **ROBBIE ZAMORA ERIC RUSSELL**

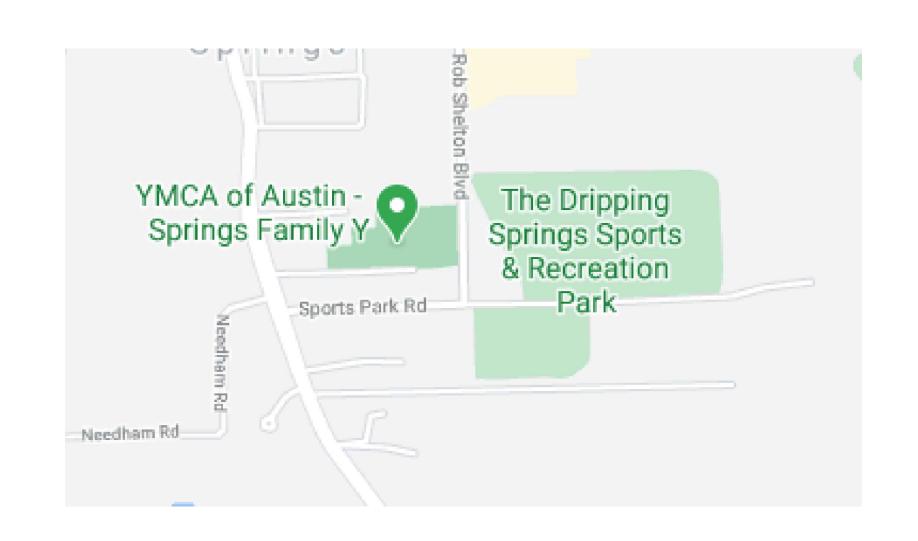
COMMISSIONER COMMISSIONER COMMISSIONER COMMISSIONER COMMISSIONER CHAIR CO-CHAIR

CITY COUNCIL

BILL FOULDS JR. TALINE MANASSIAN TRAVIS CROW WADE KING **TODD PURCELL** APRIL HARRIS ALLISON

MAYOR MAYOR PRO TEM COUNCIL MEMBER COUNCIL MEMBER COUNCIL MEMBER COUNCIL MEMBER





VICINITY MAP

DRAWN BY: CHECKED:

SHEET NUMBER **COVER** CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOE CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND

TEXAS P.E. 102427 Sep 01, 2020 Sep 01, 2020 SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE

August 24, 2020

FIELDS

PARK

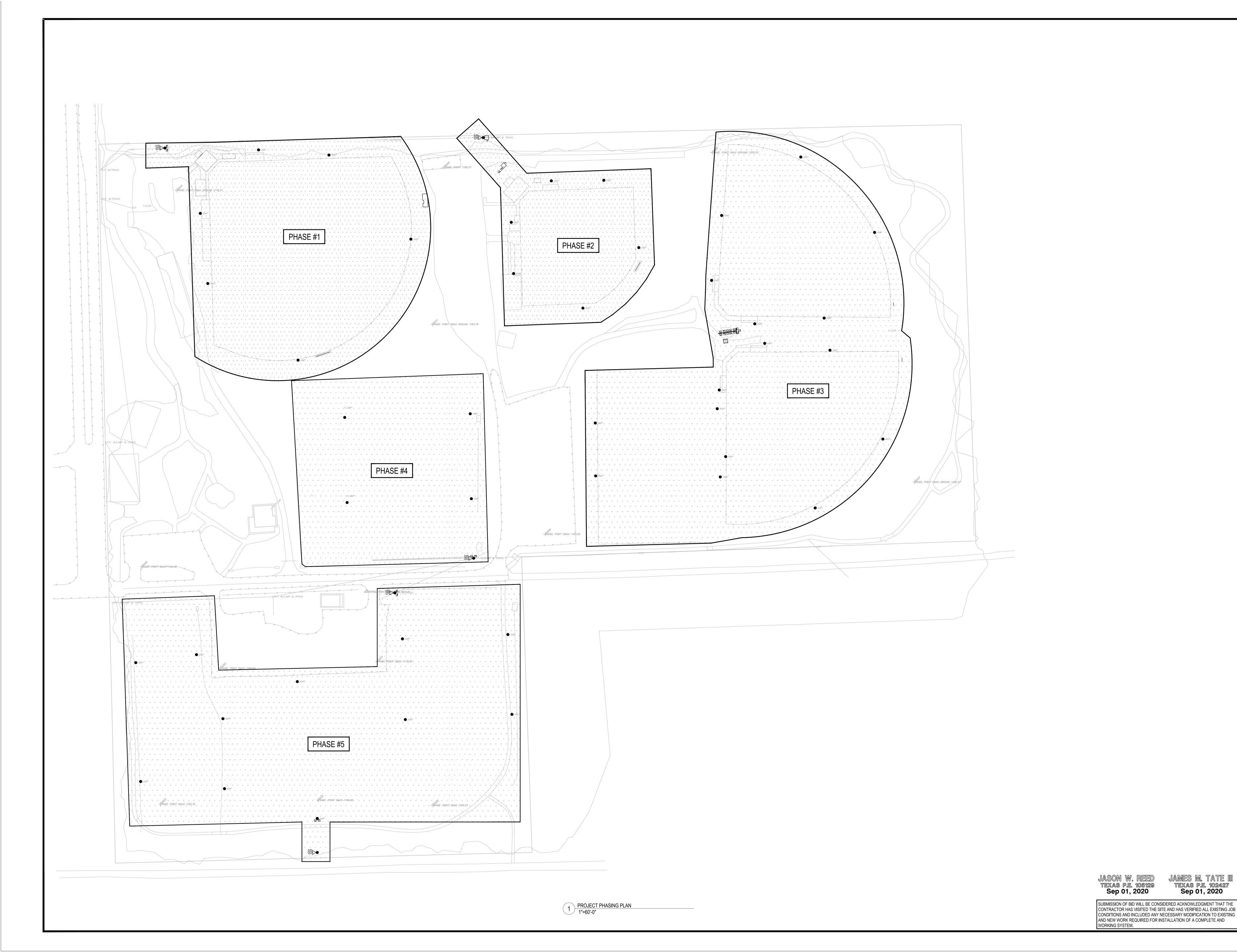
RECREATION

6

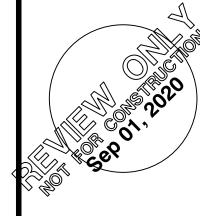
SPORTS

EMA JOB #: 2 001 1663 001

COVER SHEET



EMA Engineering and Consulting
Tyler = Austin = Houston
Phone: 1-800-933-0538 TBPE Firm Registration No. F-893 www.estesmcclure.com

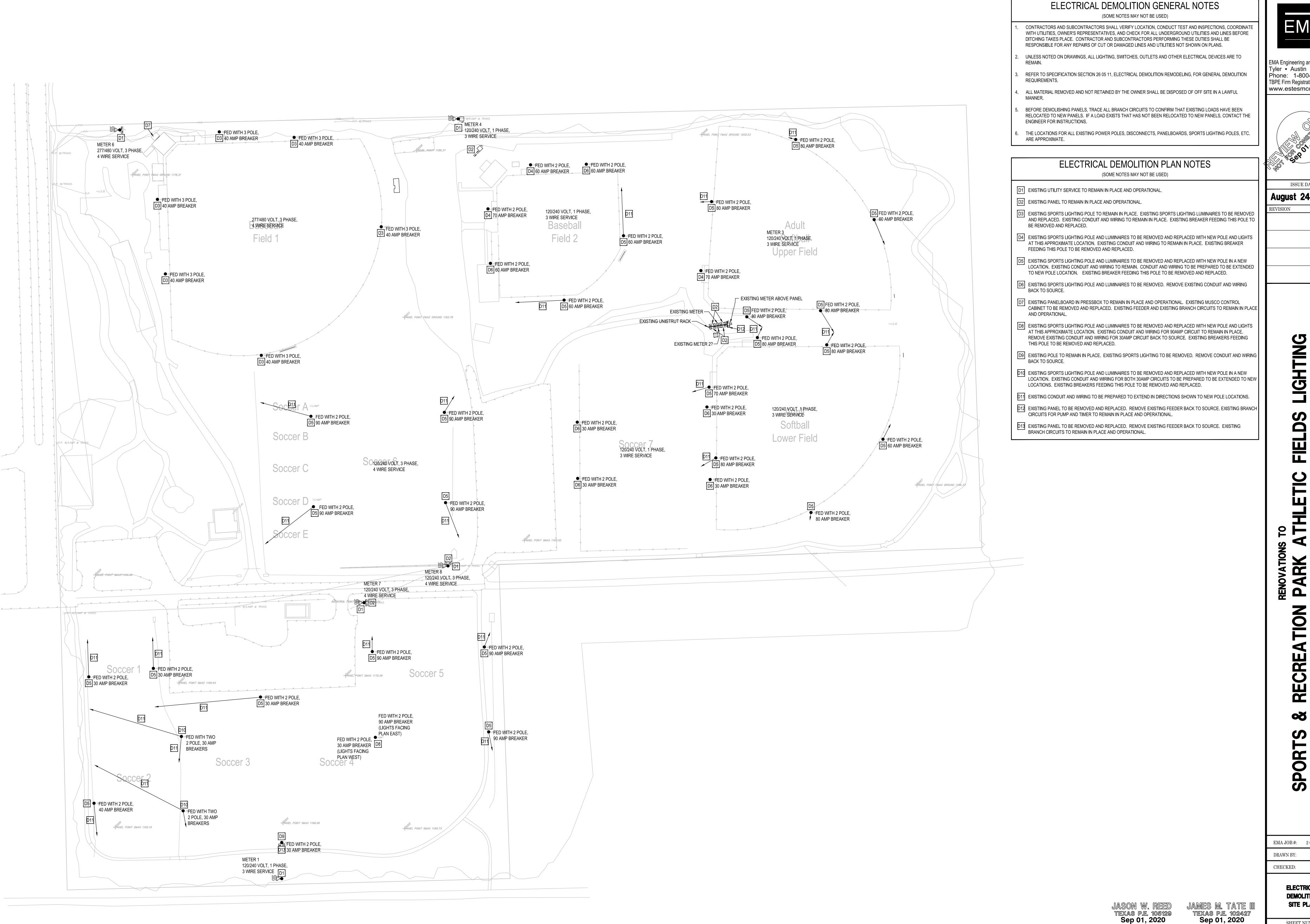


ISSUE DATE August 24, 2020

EMA JOB #: 2 001 1663 001 DRAWN BY: CHECKED:

> **PROJECT** PHASING PLAN

SHEET NUMBER E100



1 ELECTRICAL DEMOLITION SITE PLAN
1"=60'-0"

EMA Engineering and Consulting Tyler - Austin - Houston Phone: 1-800-933-0538 TBPE Firm Registration No. F-893 www.estesmcclure.com



ISSUE DATE

August 24, 2020

4 RECRE/

EMA JOB #: 2 001 1663 001

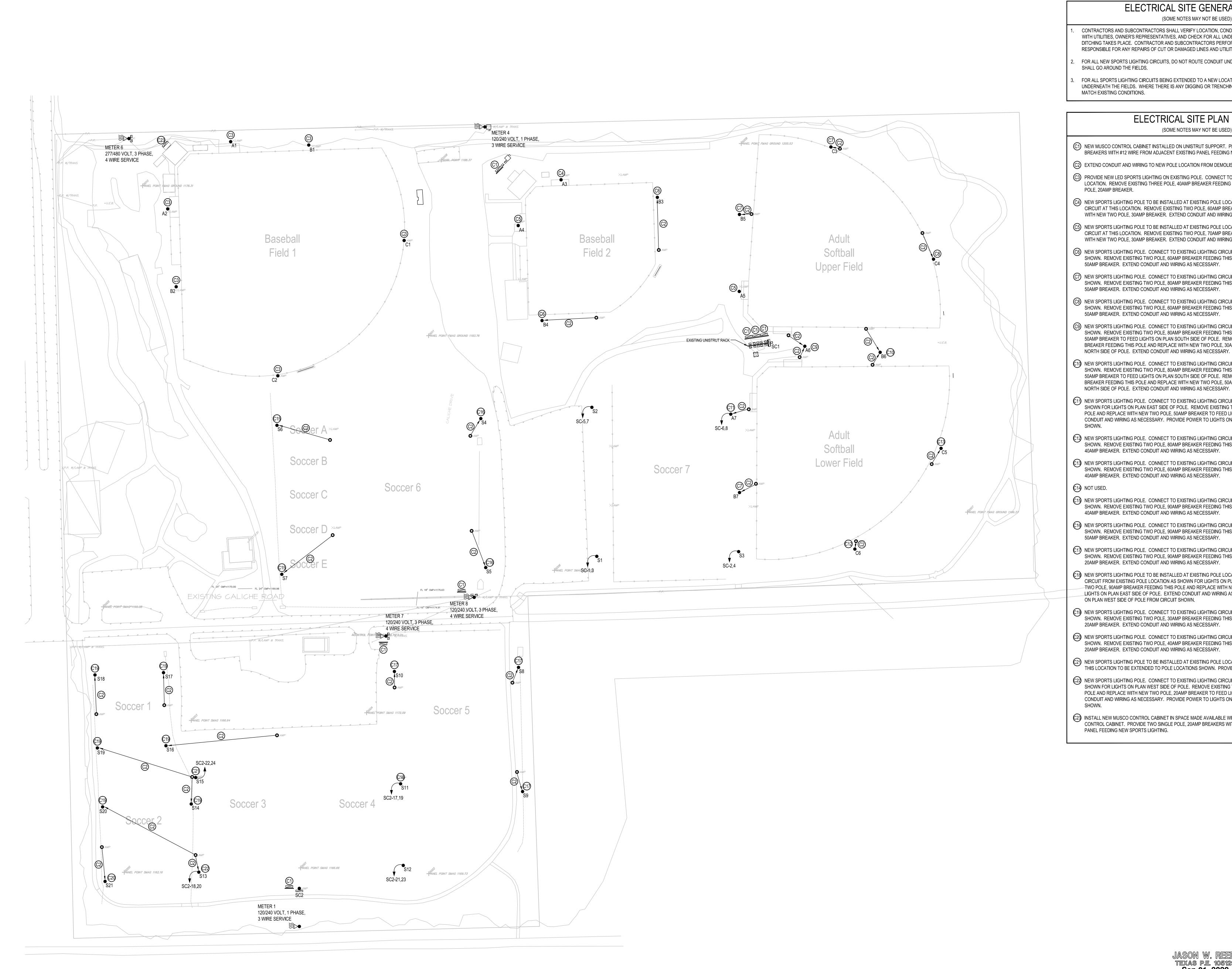
ELECTRICAL DEMOLITION

SITE PLAN

SHEET NUMBER

SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND

WORKING SYSTEM.

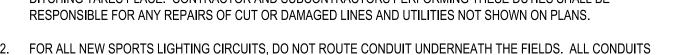


1 ELECTRICAL SITE PLAN 1"=60'-0"

ELECTRICAL SITE GENERAL NOTES

(SOME NOTES MAY NOT BE USED)

CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY LOCATION, CONDUCT TEST AND INSPECTIONS, COORDINATE WITH UTILITIES, OWNER'S REPRESENTATIVES, AND CHECK FOR ALL UNDERGROUND UTILITIES AND LINES BEFORE DITCHING TAKES PLACE. CONTRACTOR AND SUBCONTRACTORS PERFORMING THESE DUTIES SHALL BE



- SHALL GO AROUND THE FIELDS.
- FOR ALL SPORTS LIGHTING CIRCUITS BEING EXTENDED TO A NEW LOCATION, DO NOT ROUTE NEW CONDUIT UNDERNEATH THE FIELDS. WHERE THERE IS ANY DIGGING OR TRENCHING ON THE FIELDS, FILL IN DIRT AND SOD TO MATCH EXISTING CONDITIONS.

ELECTRICAL SITE PLAN NOTES

(SOME NOTES MAY NOT BE USED)

- (C1) NEW MUSCO CONTROL CABINET INSTALLED ON UNISTRUT SUPPORT. PROVIDE TWO SINGLE POLE, 20AMP BREAKERS WITH #12 WIRE FROM ADJACENT EXISTING PANEL FEEDING NEW SPORTS LIGHTING.
- (C2) EXTEND CONDUIT AND WIRING TO NEW POLE LOCATION FROM DEMOLISHED POLE LOCATION.
- (C3) PROVIDE NEW LED SPORTS LIGHTING ON EXISTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT AT THIS LOCATION. REMOVE EXISTING THREE POLE, 40AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW THREE POLE, 20AMP BREAKER.
- (C4) NEW SPORTS LIGHTING POLE TO BE INSTALLED AT EXISTING POLE LOCATION. CONNECT TO EXISTING LIGHTING CIRCUIT AT THIS LOCATION. REMOVE EXISTING TWO POLE, 60AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 30AMP BREAKER. EXTEND CONDUIT AND WIRING AS NECESSARY.
- (C5) NEW SPORTS LIGHTING POLE TO BE INSTALLED AT EXISTING POLE LOCATION. CONNECT TO EXISTING LIGHTING CIRCUIT AT THIS LOCATION. REMOVE EXISTING TWO POLE, 70AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 30AMP BREAKER. EXTEND CONDUIT AND WIRING AS NECESSARY.
- (C6) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN. REMOVE EXISTING TWO POLE, 60AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 50AMP BREAKER. EXTEND CONDUIT AND WIRING AS NECESSARY.
- (C7) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN. REMOVE EXISTING TWO POLE, 80AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 50AMP BREAKER. EXTEND CONDUIT AND WIRING AS NECESSARY.
- (C8) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN. REMOVE EXISTING TWO POLE, 60AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE,
- (C9) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUITS FROM EXISTING POLE LOCATIONS AS SHOWN. REMOVE EXISTING TWO POLE, 80AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 50AMP BREAKER TO FEED LIGHTS ON PLAN SOUTH SIDE OF POLE. REMOVE SECOND EXISTING TWO POLE, 80AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 30AMP BREAKER TO FEED LIGHTS ON PLAN
- ©10) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUITS FROM EXISTING POLE LOCATIONS AS SHOWN. REMOVE EXISTING TWO POLE, 80AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 50AMP BREAKER TO FEED LIGHTS ON PLAN SOUTH SIDE OF POLE. REMOVE SECOND EXISTING TWO POLE, 80AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 50AMP BREAKER TO FEED LIGHTS ON PLAN NORTH SIDE OF POLE. EXTEND CONDUIT AND WIRING AS NECESSARY.
- (C1) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN FOR LIGHTS ON PLAN EAST SIDE OF POLE. REMOVE EXISTING TWO POLE, 70AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 50AMP BREAKER TO FEED LIGHTS ON PLAN EAST SIDE OF POLE. EXTEND CONDUIT AND WIRING AS NECESSARY. PROVIDE POWER TO LIGHTS ON PLAN WEST SIDE OF POLE FROM CIRCUIT
- (12) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN. REMOVE EXISTING TWO POLE, 80AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 40AMP BREAKER. EXTEND CONDUIT AND WIRING AS NECESSARY.
- (C13) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN. REMOVE EXISTING TWO POLE, 60AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 40AMP BREAKER. EXTEND CONDUIT AND WIRING AS NECESSARY.
- (C15) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN. REMOVE EXISTING TWO POLE, 90AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 40AMP BREAKER. EXTEND CONDUIT AND WIRING AS NECESSARY.
- (C16) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN. REMOVE EXISTING TWO POLE, 90AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 50AMP BREAKER. EXTEND CONDUIT AND WIRING AS NECESSARY.
- (c17) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN. REMOVE EXISTING TWO POLE, 90AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 20AMP BREAKER. EXTEND CONDUIT AND WIRING AS NECESSARY.
- (18) NEW SPORTS LIGHTING POLE TO BE INSTALLED AT EXISTING POLE LOCATION. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN FOR LIGHTS ON PLAN EAST SIDE OF POLE. REMOVE EXISTING TWO POLE, 90AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 20AMP BREAKER TO FEED _LIGHTS ON PLAN EAST SIDE OF POLE. EXTEND CONDUIT AND WIRING AS NECESSARY. PROVIDE POWER TO LIGHTS ON PLAN WEST SIDE OF POLE FROM CIRCUIT SHOWN.
- (19) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN. REMOVE EXISTING TWO POLE, 30AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 20AMP BREAKER. EXTEND CONDUIT AND WIRING AS NECESSARY.
- (20) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN. REMOVE EXISTING TWO POLE, 40AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 20AMP BREAKER. EXTEND CONDUIT AND WIRING AS NECESSARY.
- (21) NEW SPORTS LIGHTING POLE TO BE INSTALLED AT EXISTING POLE LOCATION. BOTH EXISTING 30AMP CIRCUITS AT THIS LOCATION TO BE EXTENDED TO POLE LOCATIONS SHOWN. PROVIDE POWER TO LIGHTS FROM CIRCUIT SHOWN.
- (C22) NEW SPORTS LIGHTING POLE. CONNECT TO EXISTING LIGHTING CIRCUIT FROM EXISTING POLE LOCATION AS SHOWN FOR LIGHTS ON PLAN WEST SIDE OF POLE. REMOVE EXISTING TWO POLE, 30AMP BREAKER FEEDING THIS POLE AND REPLACE WITH NEW TWO POLE, 20AMP BREAKER TO FEED LIGHTS ON PLAN WEST SIDE OF POLE. EXTEND CONDUIT AND WIRING AS NECESSARY. PROVIDE POWER TO LIGHTS ON PLAN EAST SIDE OF POLE FROM CIRCUIT
- (23) INSTALL NEW MUSCO CONTROL CABINET IN SPACE MADE AVAILABLE WITH THE REMOVAL OF THE EXISTING MUSCO CONTROL CABINET. PROVIDE TWO SINGLE POLE, 20AMP BREAKERS WITH #12 WIRE FROM ADJACENT EXISTING PANEL FEEDING NEW SPORTS LIGHTING.



EMA Engineering and Consulting Tyler - Austin - Houston Phone: 1-800-933-0538 TBPE Firm Registration No. F-893 www.estesmcclure.com



ISSUE DATE

August 24, 2020

OVATION ARK

Q

4

EMA JOB #: 2 001 1663 001

DRAWN BY: CHECKED:

> **ELECTRICAL** SITE PLAN

SHEET NUMBER

ES101

SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND

TEXAS P.E. 105129

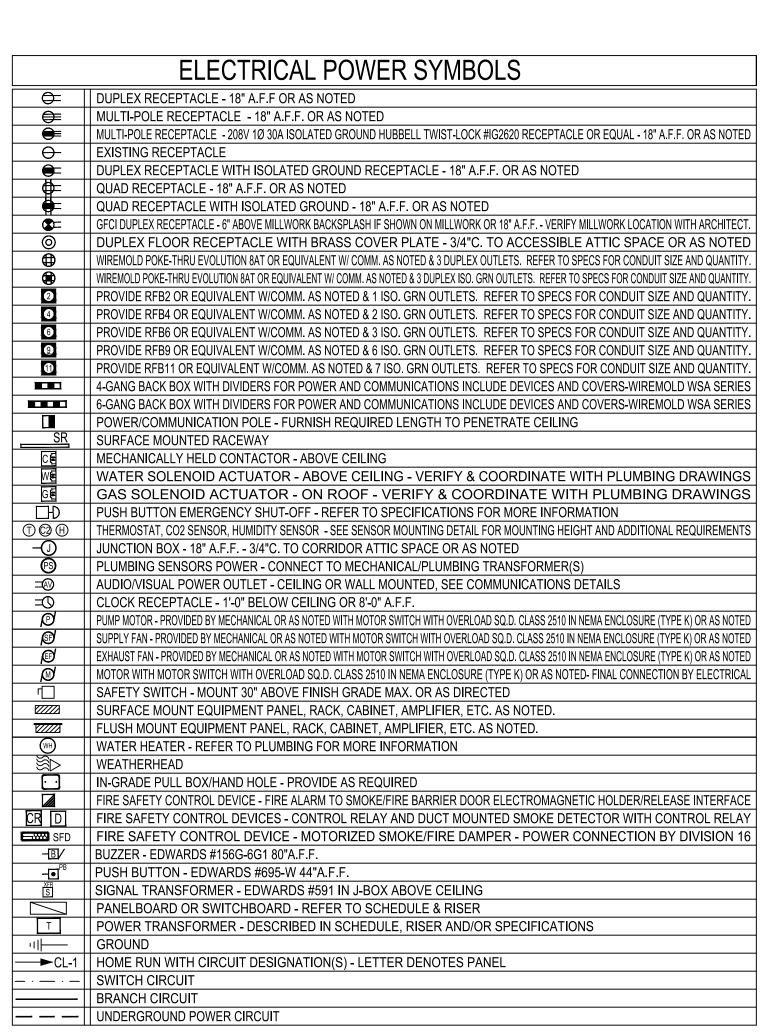
Sep 01, 2020

WORKING SYSTEM.

JAMES M. TATE III

TEXAS P.E. 102427

Sep 01, 2020



- 1. SOME SYMBOLS MAY NOT BE USED.
- 2. ACCESSIBLE DEVICES HIGHEST OPERABLE PART TO BE 46" MAXIMUM/18" MINIMUM A.F.F. REFER TO
- ARCHITECTURAL DRAWINGS. DIMENSIONS GIVEN A.F.F. ARE TO BOTTOM OF BOX.

ELECTRICAL EXISTING POWER SYMBOLS

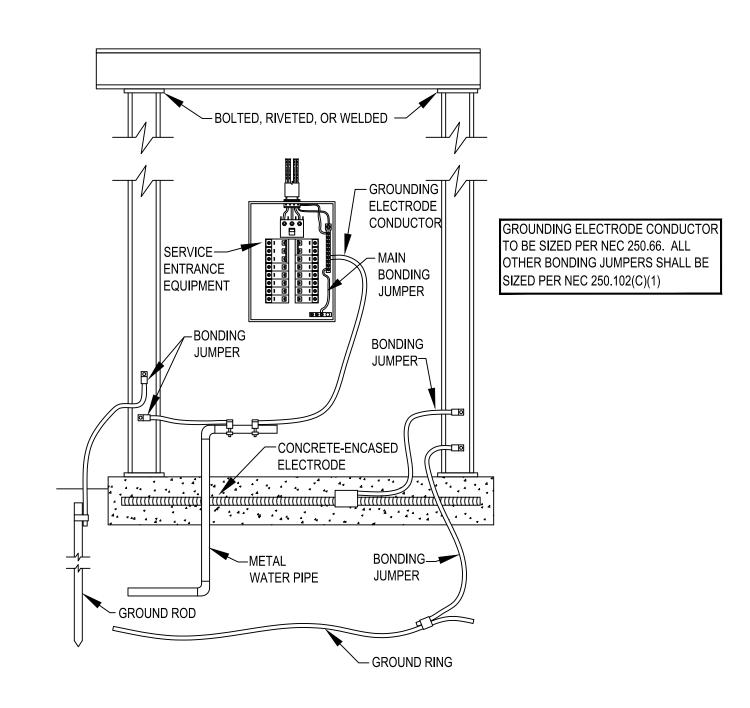
–(1)	JUNCTION BOX - 18" A.F.F 3/4"C. TO CORRIDOR ATTIC SPACE OR AS NOTED
4.3	SAFETY SWITCH - MOUNT 30" ABOVE FINISH GRADE MAX. OR AS DIRECTED
	PANELBOARD OR SWITCHBOARD - REFER TO SCHEDULE & RISER
[T]	POWER TRANSFORMER - DESCRIBED IN SCHEDULE, RISER AND/OR SPECIFICATIONS

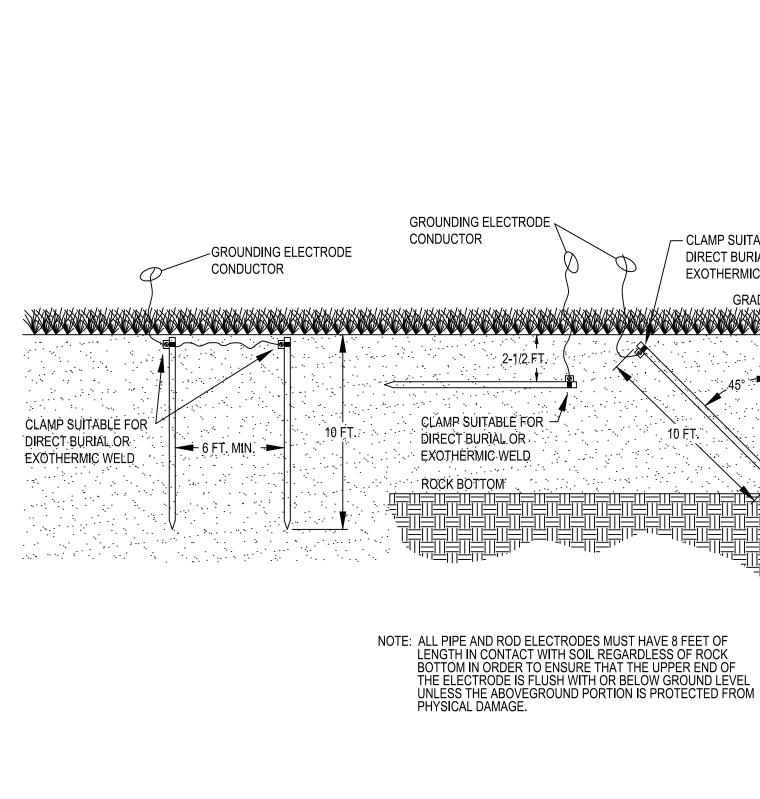
SOME SYMBOLS MAY NOT BE USED.

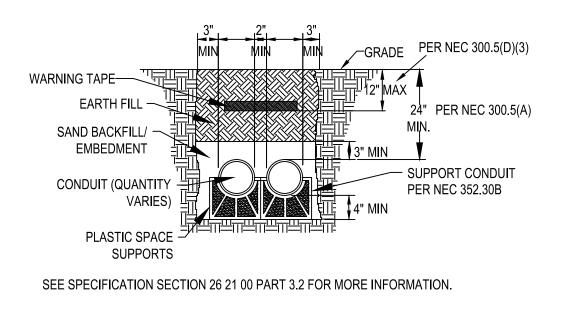
2. DIMENSIONS GIVEN A.F.F. ARE TO BOTTOM OF BOX.

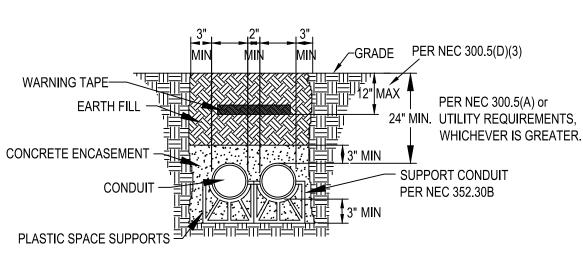
	LIGHTING SYMBOLS
\$ \$3 \$4	SWITCH LOCATION - STANDARD / PROGRAMMABLE, 3-WAY, 4-WAY - MOUNTED AT 44" A.F.F. UNLESS NOTED
\$K \$3K \$4K	KEYED SWITCH LOCATION - (SAME AS ABOVE) - KEY OPERATED, PROVIDE 12 EXTRA KEYS FOR OWNER
*	MOTION SENSOR - SEE SPECS FOR LOCATION, QUANTITY, COMMISSIONING, ETC.
©	PHOTOCELL - SEE SPECS FOR LOCATION, QUANTITY, COMMISSIONING, ETC.
回る由	LUMINAIRE - RECESSED / SURFACE / PENDANT - SEE LUMINAIRE SCHEDULE & SPECS - LETTER INDICATES TYPE
//////////////////////////////////////	EMERGENCY LUMINAIRE - (SAME AS ABOVE) - SWITCHED, WITH BATTERY, GENERATOR OR UPS BACKUP - MOUNTED AT 7'-6" A.F.F. UNLESS NOTED
	EMERGENCY LUMINAIRE - (SAME AS ABOVE) - NOT SWITCHED, WITH BATTERY, GENERATOR OR UPS BACKUP
Ø l Ø	ILLUMINATED EXIT SIGN - NOT SWITCHED, CONTINUOUSLY LIT, BATTERY OPERATED
•=	EXTERIOR LUMINAIRE - SEE LUMINAIRE SCHEDULE FOR MORE INFORMATION
— ► CL-1	HOME RUN WITH CIRCUIT DESIGNATION(S) - TEXT DENOTES PANEL AND CIRCUIT
- · — · –	SWITCH CIRCUIT, TYPICAL CONTROL PER SPACE
	BRANCH CIRCUIT, INDICATES LUMINAIRES ON A CIRCUIT, NOT INTENDED TO SHOW ROUTING
[UNDERGROUND BRANCH CIRCUIT - APPROXIMATE ROUTE SHOWN
— — — DZ —	DAYLIGHTING ZONE - REFER TO LIGHTING CONTROL CHART FOR MORE INFORMATION

- . SOME SYMBOLS MAY NOT BE USED.
- ACCESSIBLE DEVICES HIGHEST OPERABLE PART TO BE 46" MAXIMUM/18" MINIMUM A.F.F. REFER TO ARCHITECTURAL DRAWINGS. B. DIMENSIONS GIVEN A.F.F. ARE TO BOTTOM OF BOX.
- 4. SEE LIGHTING CONTROL CHART FOR SWITCH, MOTION SENSOR AND PHOTOCELL INFORMATION AND CONTROL.



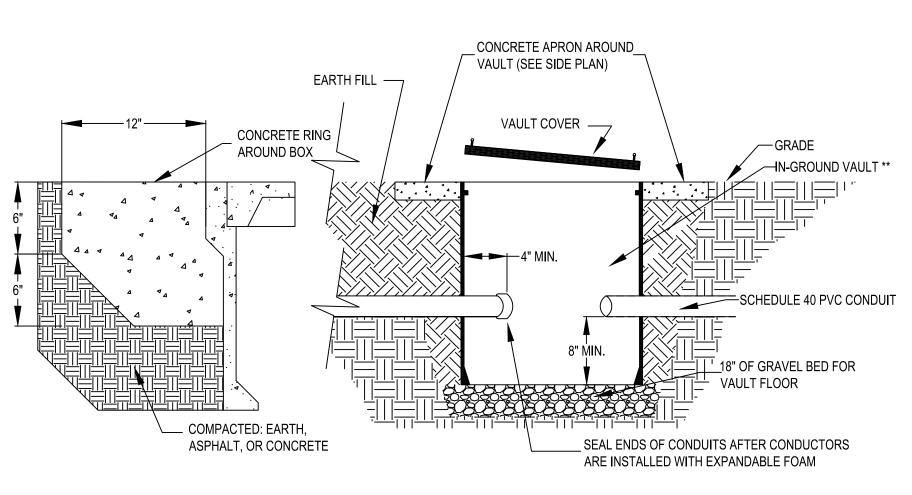




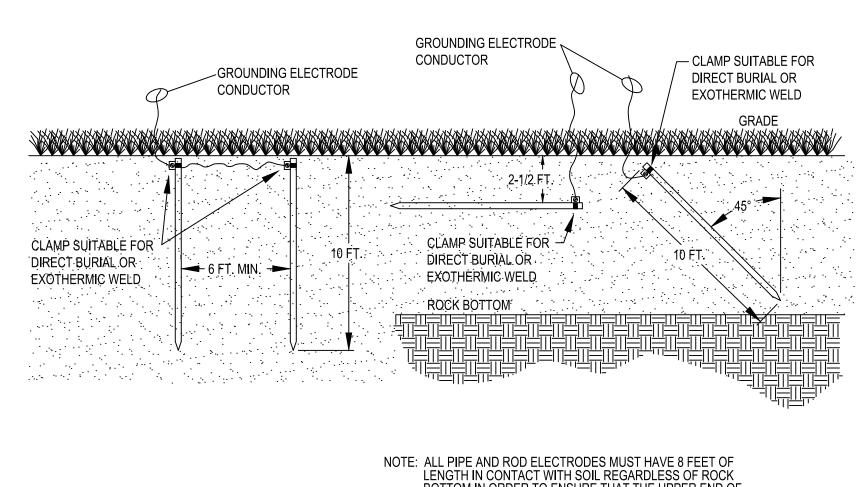


SEE SPECIFICATION SECTION 26 21 00 PART 3.2 FOR MORE INFORMATION.

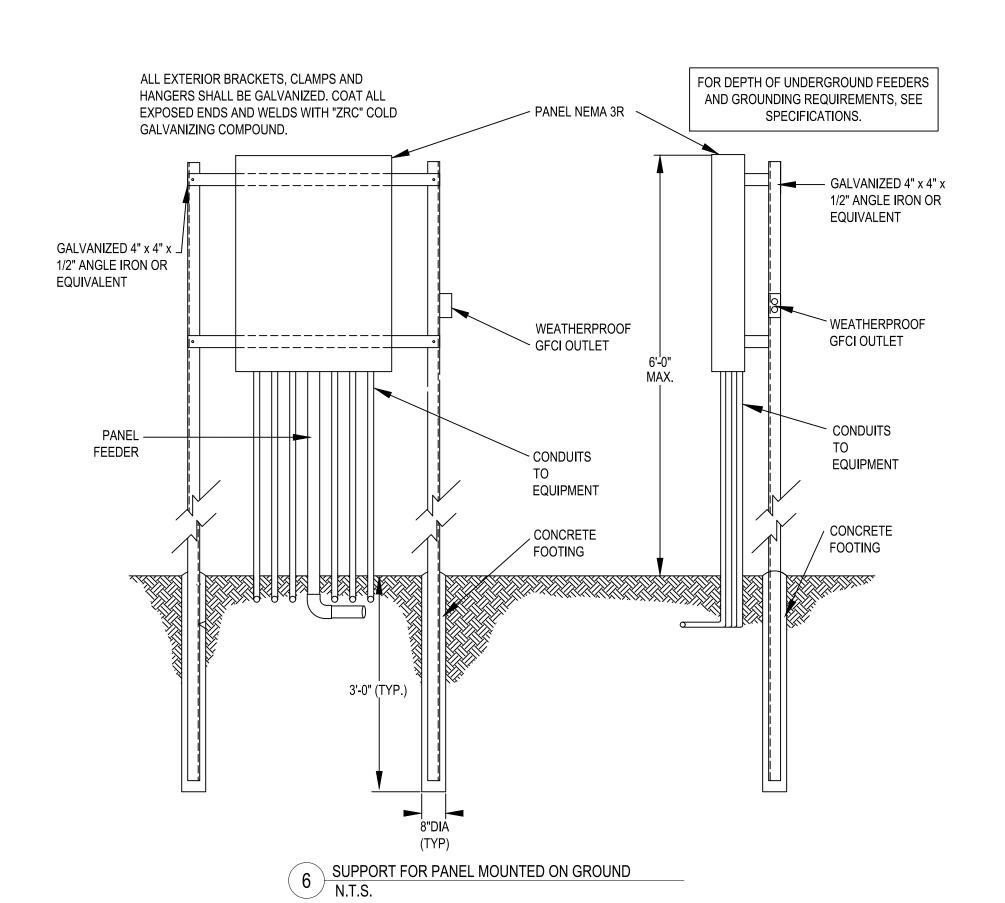
3 UNDERGROUND PRIMARY & SECONDARY CONDUITS N.T.S.

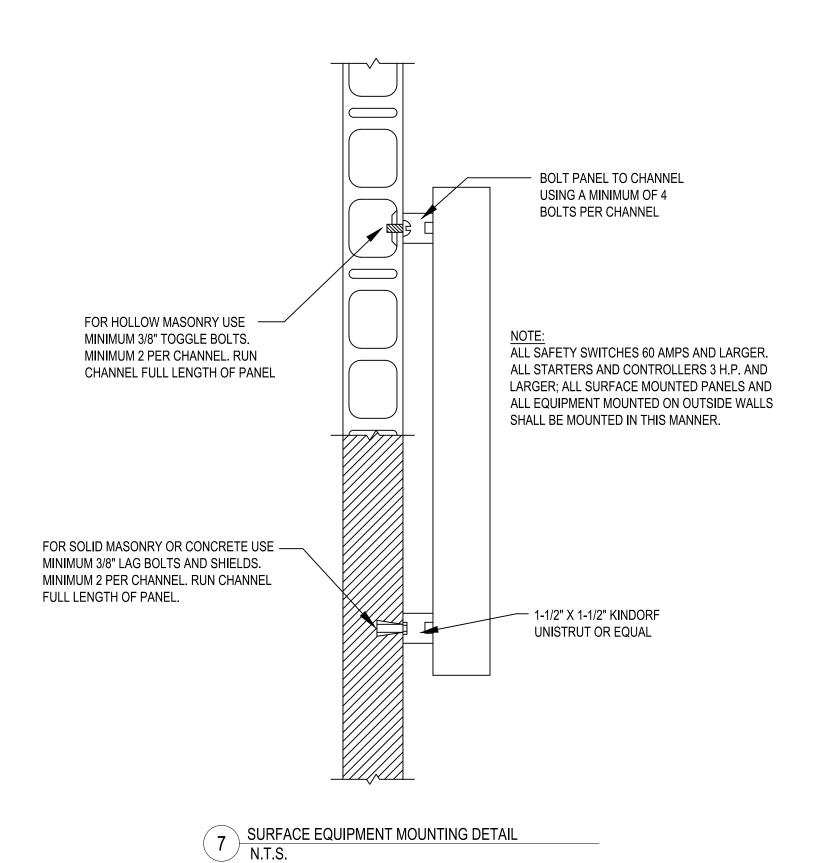


** IN-GROUND VAULT: CONSTRUCTION SHALL BE FIBERGLASS OR POLYMER-CONCRETE WITH A LOAD RATING APPROPRIATE FOR THE INSTALLED LOCATION. EACH ENCLOSURE SHALL BE AN IN-GROUND VAULT WITH A SURFACE-LEVEL COVER AND GRAVEL FLOOR. THE ENCLOSURE SHOULD BE SIZED FOR THE NUMBER OF CONDUITS AND CONFIGURATION REQUIRED. HATCH COVER SHALL BE SECURED WITH AT LEAST TWO PENTAGONAL-HEAD BOLTS.



NEC GROUNDING ROD DETAILS N.T.S.





EMA JOB #: 2 001 1663 001 DRAWN BY:

CHECKED:

 \blacktriangleleft

RECRE,

6

SPOR

EMA Engineering and Consultin

Tyler - Austin - Houston

Phone: 1-800-933-0538

TBPE Firm Registration No. F-893

www.estesmcclure.com

ISSUE DATE

August 24, 2020

DETAILS & SYMBOLS TEXAS P.E. 102427

Sep 01, 2020 Sep 01, 2020 SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND

TEXAS P.E. 105129

WORKING SYSTEM.

SHEET NUMBER

ELECTRICAL

EL701

PANEL - SC	Rating - 225A WITH 225MCB						225	MC	3	Located UTILITY ENCLOSURE Surface Mount - Outside (NEMA 3R)
Fed from - UTILITY (240V 1PH)		9	Servio	ce - :	120/240 1	LPH	3Wir	e		AIC - 65,000 Amps
**PROVIDE NEMA 3R ENCLOSURE										Div. Load (Kva) - 21 (A), 0 (C) or (178 Amps)
EQUIPMENT SERVED	POLE	TRIP	WIRE	CKT.	ø LOAD in VA	CKT.	WIRE	TRIP	POLE	EQUIPMENT SERVED
SPORTS LIGHTING POLE S1	2	40	2	1	A= 7104	2	4	40	2	SPORTS LIGHTING POLE S3
TO MUSCO DISCONNECT ON POLE 10' A.F.G.				3	C= 7104	4				TO MUSCO DISCONNECT ON POLE 10' A.F.G.
SPORTS LIGHTING POLE S2	2	40	4	5	A= 7104	6	6	40	2	SPORTS LIGHTING POLE A7
TO MUSCO DISCONNECT ON POLE 10' A.F.G.				7	C= 7104	8				TO MUSCO DISCONNECT ON POLE 10' A.F.G.
MUSCO CONTROL CABINET	1	20	12	9	A= 2412	10	10	30	2	EXISTING PUMP
MUSCO CONTROL CABINET	1	20	12	11	C= 2412	12				
SPACE	1	-	-	13	A= 1200	14	12	20	1	EXISTING TIMER
SPACE	1	-	_	15	C= 0	16	-	_		SPACE
SPACE	1	-	_	17	A= 0	18	-	-		SPACE
SPACE	1	-	_	19	C= 0	20	-	-		SPACE
SPACE	1	-	_	21	A= 0	22	-	-		SPACE
SPACE	1	-	-	23	C= 0	24	-	-	1	SPACE
CON AN ACRITIC. * DEEED TO DISCED DIA CON AN ACCOUNT										
COMMENTS - * REFER TO RISER DIAGRAM FOR WIR	<u>t SIZ</u>	<u> </u>								

PANEL - SC2		Ratii	ng -	40	OA WI	ТН	400	MCI	В	Located EXISTING POLE Surface Mount - Outside (NEMA 3R)
Fed from - UTILITY (240V 1PH)		5	Servio	ce - :	120/240	1PH	3Wir	e		AIC - 65,000 Amps
**PROVIDE NEMA 3R ENCLOSURE	•									Div. Load (Kva) - 35 (A), 0 (C) or (294 Amps)
EQUIPMENT SERVED		TRIP	WIRE	CKT.	ø LOAD in VA	CKT.	WIRE	TRIP	POLE	EQUIPMENT SERVED
POLE S13	2	20	-	1	A= 2904	2	-	20	2	POLE S18
TO MUSCO DISCONNECT ON POLE 10' A.F.G.				3	C= 2904	4				TO MUSCO DISCONNECT ON POLE 10' A.F.G.
POLE S14	2	20	-	5	A= 2904	6	_	20	2	POLE S19
TO MUSCO DISCONNECT ON POLE 10' A.F.G.				7	C= 2904	8				TO MUSCO DISCONNECT ON POLE 10' A.F.G.
POLE S16	2	20	_	9	A= 2904	10	-	20	2	POLE S20
TO MUSCO DISCONNECT ON POLE 10' A.F.G.				11	C= 2904	12				TO MUSCO DISCONNECT ON POLE 10' A.F.G.
POLE S17	2	20	-	13	A= 2904	14	-	20	2	POLE S21
TO MUSCO DISCONNECT ON POLE 10' A.F.G.				15	C= 2904	16				TO MUSCO DISCONNECT ON POLE 10' A.F.G.
POLE S11	2	60	2	17	A= 8280	18	6	40	2	POLE S13
TO MUSCO DISCONNECT ON POLE 10' A.F.G.				19	C= 8280	20				TO MUSCO DISCONNECT ON POLE 10' A.F.G.
POLE S12	2	40	6	21	A= 8280	22	2	60	2	POLE S15
TO MUSCO DISCONNECT ON POLE 10' A.F.G.				23	C= 8280	24				TO MUSCO DISCONNECT ON POLE 10' A.F.G.
MUSCO CONTROL CABINET	1	20	12	25	A= 24	26	12	20	1	MUSCO CONTROL CABINET
SPACE	1	-	-	27	C= 0	28	-	-	1	SPACE
SPACE	1	-	-	29	A= 0	30	-	-	1	SPACE
SPACE	1	-	-	31	C= 0	32	-	-	1	SPACE

CIRCUIT BREAKER LOCATIONS IN PANELBOARD "SC2" ARE FOR DETERMINING FULL LOAD AMPACITY FOR PANELBOARD AND ELECTRICAL SERVICE. CONTRACTOR TO INSTALL BREAKERS AS NECESSARY IN ORDER TO UTILIZE EXISTING BRANCH CIRCUITS BEING REUSED TO FEED NEW LIGHTS.

GENERAL RISER NOTES:

- 1. WHEREVER THE LENGTH OF THE SECONDARY CONDUCTORS OF ANY TRANSFORMER EXCEEDS TEN FEET, AN ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT IS REQUIRED TO BE PROVIDED WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS IN ACCORDANCE WITH NEC ARTICLE 240-21(C)(2). THIS OVERCURRENT DEVICE SHALL HAVE AN AMP RATING EQUAL TO THE AMP RATING OF THE PANEL BEING SERVED. IF THIS OCCURS AND THE PANEL IS IN THE SAME ROOM, THE PANEL BEING FED MAY BE CHANGED TO MAIN LUG ONLY.
- 2. SERVICE ENTRANCE FEEDERS DO NOT REQUIRE AN EQUIPMENT GROUNDING CONDUCTOR.
 HOWEVER, ALL FEEDERS AFTER THE MAIN SERVICE DISCONNECT(S) DO REQUIRE A GROUNDING
 CONDUCTOR. PER NEC 250.24, THE GROUNDING ELECTRODE CONDUCTOR SHALL BE INSTALLED AT
 THE MAIN SERVICE DISCONNECT. ADDITIONALLY, WHETHER LOCATED INSIDE OR OUTSIDE, ALL MAIN
 SERVICE DISCONNECTS AND BRANCH CIRCUIT DISCONNECTS 1000A OR MORE SHALL HAVE GFCI
 GROUND FAULT PROTECTION PER NEC 230.95 AND 210.13 RESPECTIVELY.
- 3. PROVIDE AND INSTALL BURNDY OR NSI (OR APPROVED EQUIVALENT) UL RATED COMPRESSION REDUCING PIN TERMINALS ON COPPER / ALUMINUM CONDUCTORS AS REQUIRED. SEE IMAGE TO THE RIGHT
- 4. UTILITY WORK SHOWN HERE IS PROPOSED AND MAY NOT INCLUDE ALL UTILITY COMPANY REQUIREMENTS. COORDINATE FINAL UTILITY LOCATION, EASEMENT REQUIREMENTS, TRANSFORMER SIZE AND LOCATION, TRANSFORMER PAD SIZE, MEANS OF DISCONNECT REQUIREMENTS, ETC. WITH UTILITY COMPANY BEFORE BIDDING.
- 5. COORDINATE THE EXACT LOCATION OF ALL OUTSIDE SWITCHGEAR, MAIN DISCONNECTS, METERS, ETC. WITH OWNER AND ARCHITECT BEFORE INSTALLATION. NEVER PLACE THESE ITEMS NEAR A FRONT ENTRANCE.
- 6. PER NEC 230.95, PROVIDE GFCI PROTECTION PER SPECS AT ALL SERVICE DISCONNECTS RATED 1000A OR MORE.
- 7. PER NEC 110.24(A), AT ALL SERVICE ENTRANCE EQUIPMENT PROVIDE, A LABEL (PER SPECS) INDICATING CALCULATED FAULT CURRENT AND DATE OF CALCULATIONS. THE DATE OF CALCULATIONS SHALL BE THE DATE ON THE SEAL IN THE BORDER. LABEL SHALL BE PERMANENT, DURABLE, 2" X 3" WITH BLUE LETTERING AND A WHITE BACKGROUND, MECHANICALLY FASTENED TO EQUIPMENT AND CAPABLE OF WITHSTANDING THE ENVIRONMENT INVOLVED.

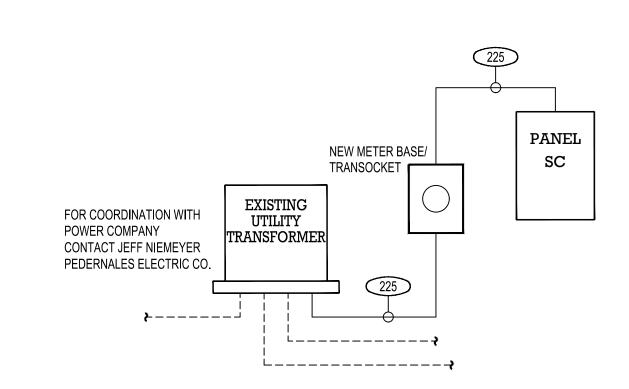
ELECTRICAL RISER NOTES: (SOME NOTES MAY NOT BE USED)

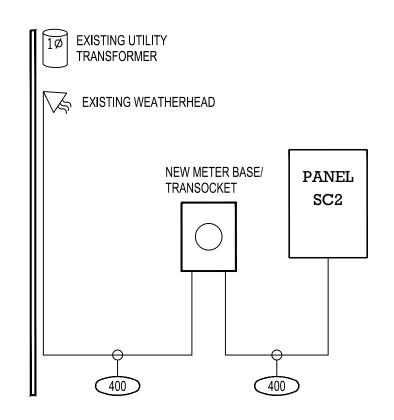
225 3-#4/0, 1-#4 GRN, 2 1/2"C.

400 2-2"C. WITH 3-#3/0, 1-#3 GRN IN EACH



SAMPLE REDUCING PIN TERMINAL





1 ELECTRICAL RISER DIAGRAM
1"=60'-0"

JASON W. REED Texas p.e. 105129 Sep 01, 2020

JAMES M. TATE III TEXAS P.E. 102427 Sep 01, 2020

SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING SYSTEM.

& RECREATION PARK ATHLE CITY OF DRIPPING SPRINGS

CITY OF DRIPPING SPRINGS

DRIPPING SPRINGS

TX

EMA Engineering and Consulting
Tyler • Austin • Houston
Phone: 1-800-933-0538
TBPE Firm Registration No. F-893
www.estesmcclure.com

ISSUE DATE

August 24, 2020

IGHTING

EMA JOB #: 2 001 1663 001

DRAWN BY: CLH

CHECKED: QC

SPORT

ELECTRICAL
PANELBOARD SCHEDULES
& RISER DIAGRAM

SHEET NUMBER

EL801