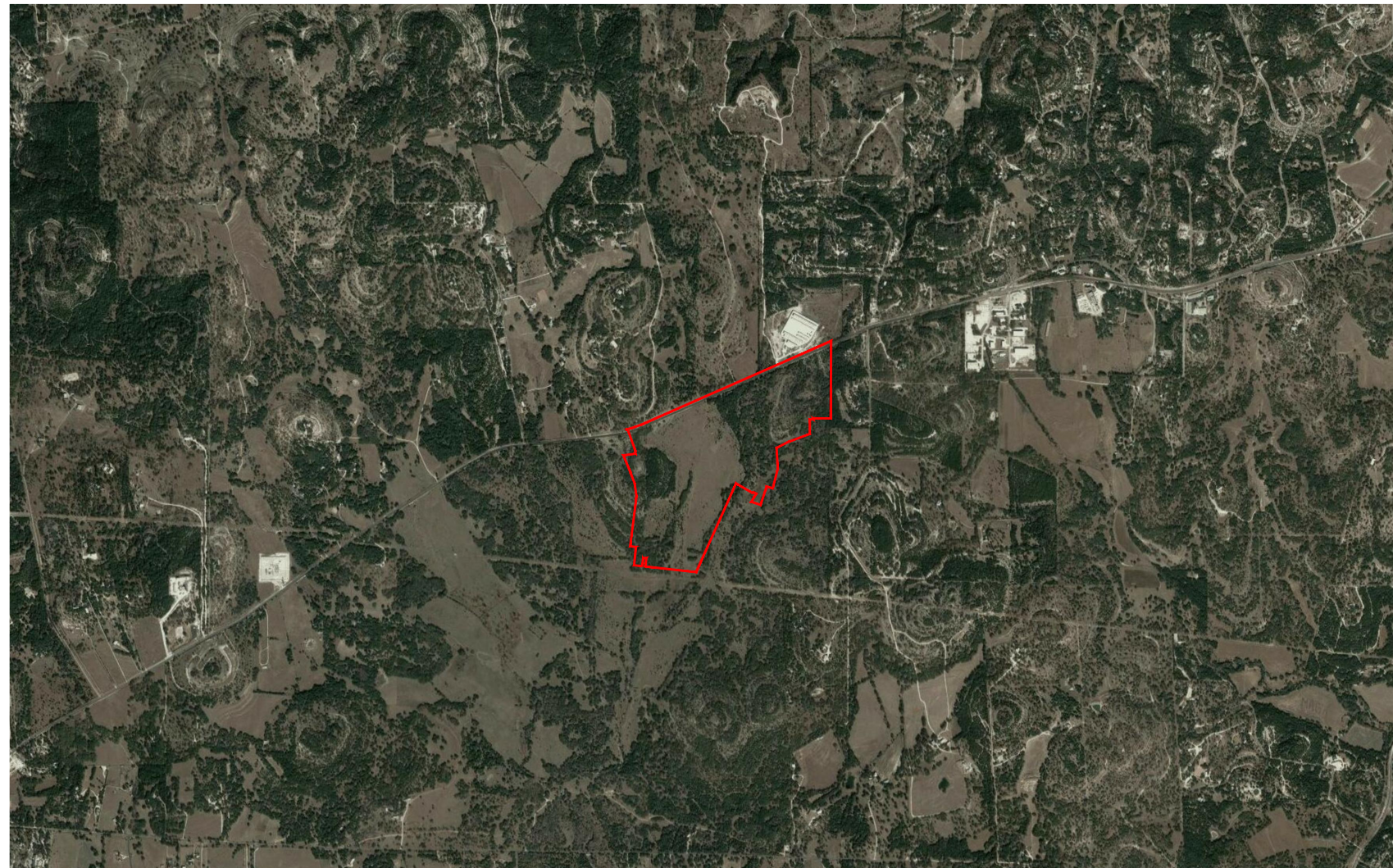
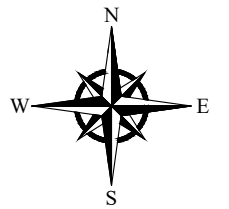


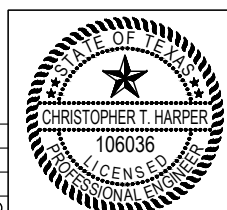
LOOKOUT BOERNE HOLDINGS, L.P.
GEORGE'S RANCH UNIT 1
UNDERGROUND ELECTRICAL PLANS



GENERAL DRAWINGS

E0	PROJECT COVER SHEET AND DRAWING LIST
E1	MASTER PLAN
E2	DRAWING MAP KEY
E3	UNDERGROUND ELECTRICAL LAYOUT (SHEET 1 OF 3)
E4	UNDERGROUND ELECTRICAL LAYOUT (SHEET 2 OF 3)
E5	UNDERGROUND ELECTRICAL LAYOUT (SHEET 3 OF 3)
E6	PEC UNDERGROUND DETAILS (SHEET 1 OF 2)
E7	PEC UNDERGROUND DETAILS (SHEET 2 OF 2)

ISSUED: 10-03-22
FOR CONSTRUCTION



	DATE	BY	WWW.SE-TEXAS.COM TEXAS REGISTRATION NUMBER F-1594
DRWN	12-14-21	CJB	
CHK	10-03-22	CTH	
APPD	10-03-22	CTH	



	CUDE ENGINEERS	PROJECT COVER SHEET AND DRAWING LIST	SCALE FOR 34 x 22 DWG N.T.S.
	GEORGE'S RANCH UNIT 1		DRAWING NO. E0

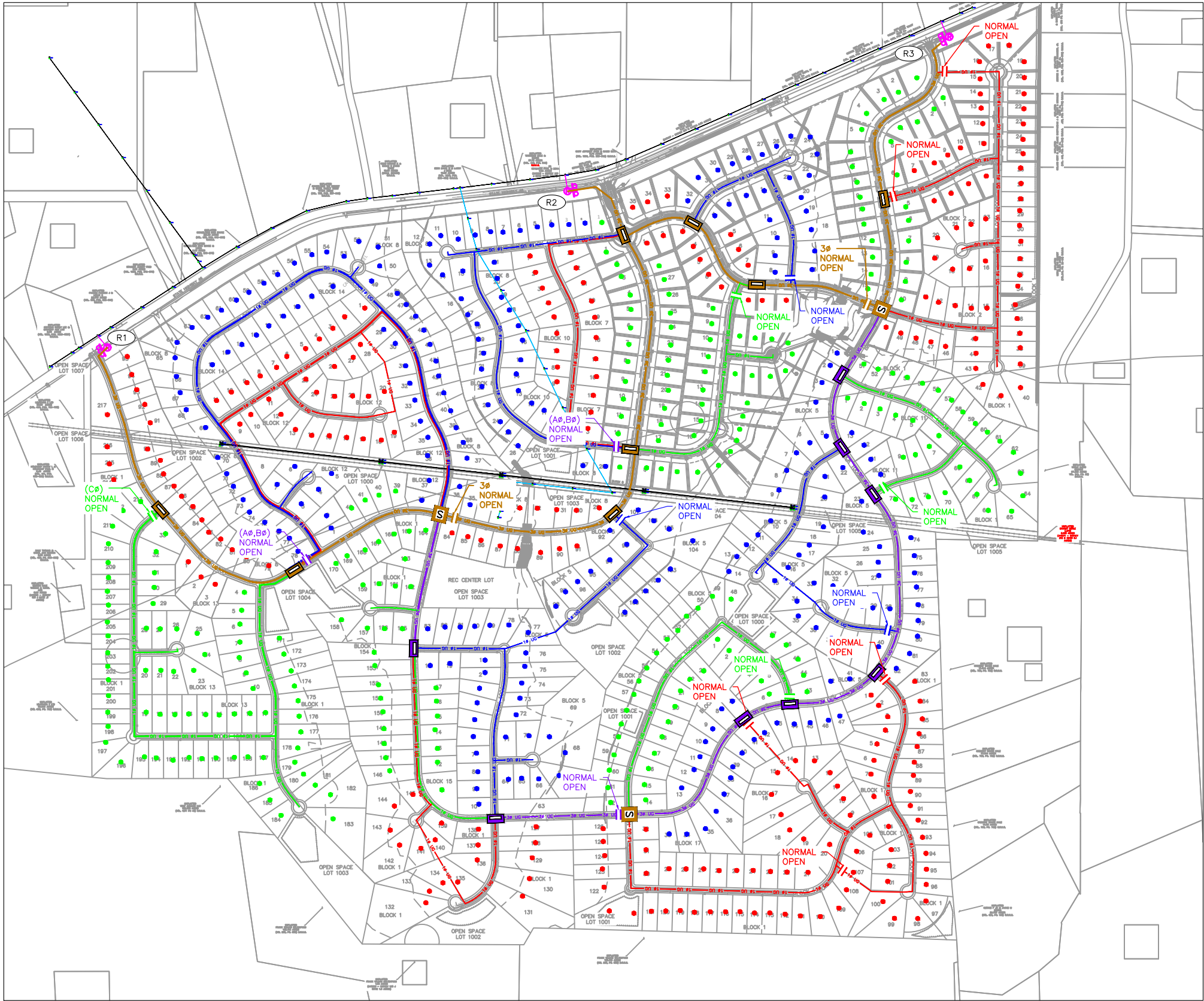
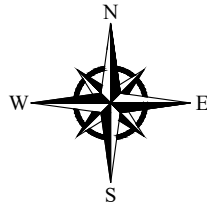
N:\CUDE\21CUDE3205 George's Ranch Unit 1\Drawings\Plan View\E0 - George's Ranch U1 Cover Sheet.dwg
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THIS DRAWING IS CERTIFIED TO BE CORRECT
FOR THE NEW FACILITIES SHOWN ONLY.
INFORMATION CONCERNING EXISTING FACILITIES
PROVIDED BY OTHERS HAS NOT BEEN VERIFIED.

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PHASE DISTRIBUTION

RISER 1:

AØ	BØ	CØ
74	117	108

RISER 2:

AØ	BØ	CØ
50	65	54

RISER 3:

AØ	BØ	CØ
139	77	98

TOTAL:

AØ	BØ	CØ
263	259	260

LEGEND

SERVICE PHASING

- AØ SERVICE
- BØ SERVICE
- CØ SERVICE

UNDERGROUND	OVERHEAD
EXISTING 3Ø	EXISTING 3Ø
REMOVAL 3Ø	REMOVAL 3Ø
PROPOSED 3Ø	PROPOSED 3Ø
EXISTING 1Ø	EXISTING 1Ø
REMOVAL 1Ø	REMOVAL 1Ø
PROPOSED 1Ø	PROPOSED 1Ø
PROPOSED AØ	PROPOSED AØ
PROPOSED BØ	PROPOSED BØ
PROPOSED CØ	PROPOSED CØ

ISSUED: 10-03-22
FOR CONSTRUCTION



DATE	BY
12-14-21	CJB
10-03-22	CTH
10-03-22	CTH



CUDE ENGINEERS

GEORGE'S RANCH UNIT 1

MASTER PLAN

SCALE FOR 34 x 22 DWG
1" = 500'
DRAWING NO. E1

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NO	DATE	REVISION	BY	CHK	APPD	NO	DATE	REVISION	BY	CHK	APPD

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ISSUED: 10-03-22
FOR CONSTRUCTION



DATE	BY	WWW.SE-TEXAS.COM
DRWN 12-14-21	CJB	
CHK 10-03-22	CTH	TEXAS REGISTRATION
APPD 10-03-22	CTH	NUMBER F-1594



CUDE ENGINEERS
GEORGE'S RANCH UNIT 1

DRAWING MAP
KEY

SCALE FOR 34 x 22 DWG
1" = 250'
DRAWING NO. **E2**

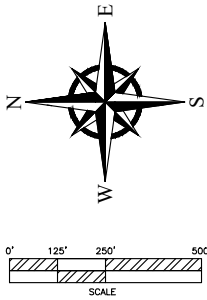


GENERAL NOTES:

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2. ALL PRIMARY CONDUIT SHALL BE SCHEDULE 40 3" PVC PER LEGEND.
3. CONSTRUCTION SHALL TAG AND CODE CABLE IN THE FIELD TO IDENTIFY PHASES.
4. ALL PRIMARY CABLE SHALL BE #1/0 AL 25 KV.
5. ALL PAD-MOUNTED ENCLOSURES INCLUDING TRANSFORMERS, SHALL BE GROUNDED IN SUCH A MANNER THAT TWO SEPARATE CONNECTIONS EXIST BETWEEN THE ENCLOSURE AND THE GROUND ROD(S). IF METER PEDESTALS, TRANSFORMERS, AND SECTIONALIZING CABINETS ARE WITHIN 10 FEET OF EACH OTHER A #2 CU. SOLID BARE WIRE SHALL TIE ALL GROUND RODS TOGETHER.
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GENERAL NOTE:

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SYMBOLS

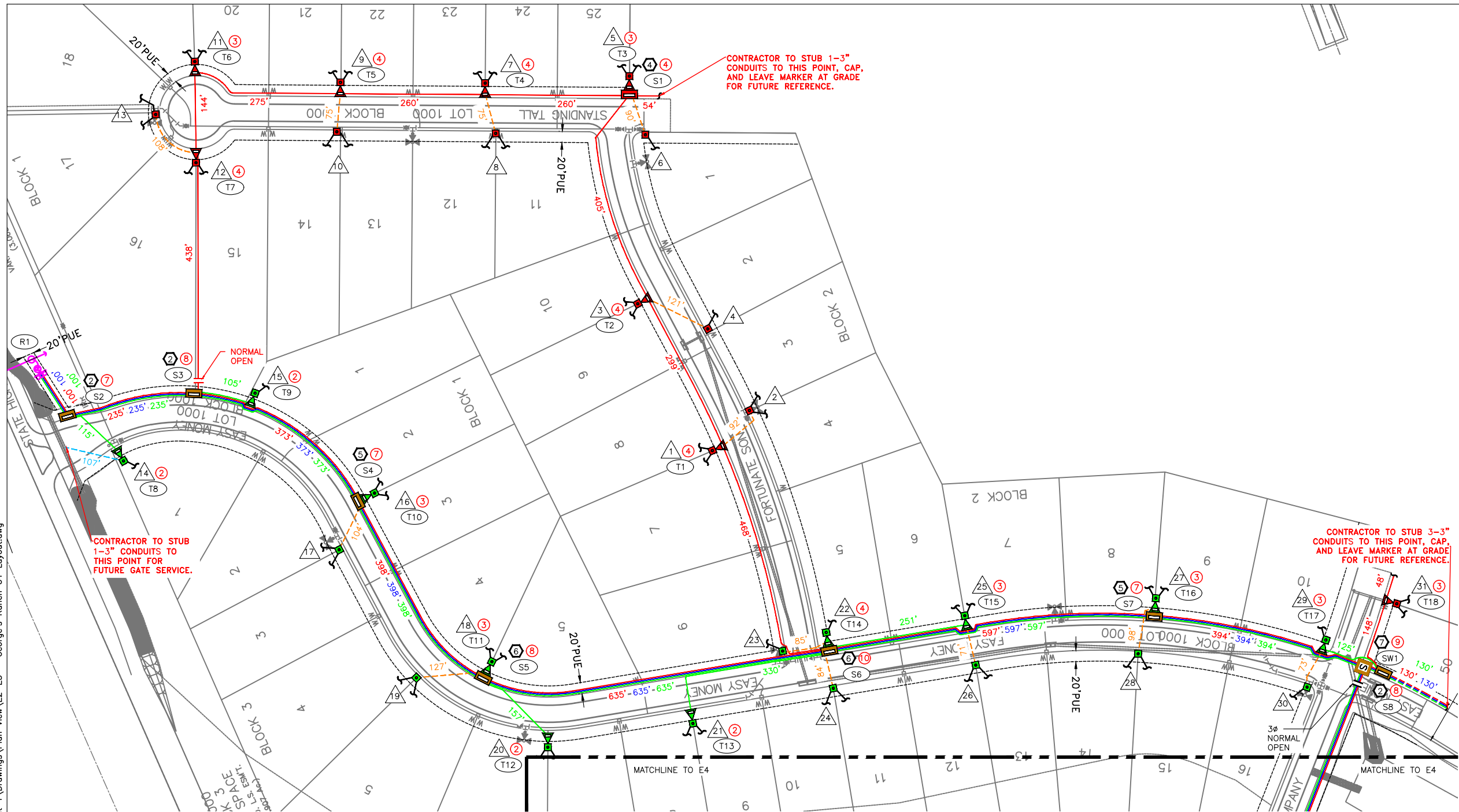
	POLE	RISER	TRANSFORMER
PROPOSED			
EXISTING			
REMOVAL			
	PROPOSED 30 SWITCHGEAR		
	30 SMALL SECTIONALIZING BOX		
	30 LARGE SECTIONALIZING BOX		
	10 OR 30 COMBINATION PADS (COLOR BY PHASE AND SIZE)		
	NEW 200A 10 SECTIONALIZING BOX		
NEW 10 TRANSFORMER (120/240)			
	NUMBER OF CONDUITS EXITING		
METER PEDESTAL			

LABELS

	SWITCHGEAR NO.
	SECTIONALIZING BOX NO.
	TRANSFORMER NO.
	RISER NO.
	SECONDARY PEDESTAL NO.

LEGEND

A0	PRIMARY: 1/0 AL W/ FULL CONCENTRIC JACKETED
B0	NEUTRAL, 25 KV, XLPE, 260 MIL INSUL. IN 3" MIN.
C0	PVC SCH. 40, ELECT. CONDUIT
100'	POINT TO POINT DISTANCE (COLOR BY PHASE)
	350 MCM AL, 600V, TRIPLEX IN 3" MIN. PVC SCH 40, ELECT. CONDUIT
	#10 CU, THHN, 600V IN 3" CONDUITS (3 EA. SERVICE FOR GATE)
	VACANT A0(EMPTY) 2" CONDUIT OR AS SPECIFIED
	VACANT B0(EMPTY) 2" CONDUIT OR AS SPECIFIED
	VACANT C0(EMPTY) 2" CONDUIT OR AS SPECIFIED
	EXISTING VACANT (EMPTY) 2" CONDUIT OR AS SPECIFIED
	EXISTING UNDERGROUND ELECTRIC
	ELECTRICAL UTILITY EASEMENT



SYMBOLS

	POLE	RISER	TRANSFORMER
PROPOSED			
EXISTING			
REMOVAL			



PROPOSED 3Ø SWITCHGEAR



3Ø SMALL SECTIONALIZING BOX



3Ø LARGE SECTIONALIZING BOX



1Ø OR 3Ø COMBINATION PADS
(COLOR BY PHASE AND SIZE)



A PHASE



B PHASE



C PHASE

NEW 1Ø TRANSFORMER (120/240)



A PHASE



B PHASE



C PHASE



NUMBER OF CONDUITS EXITING

METER PEDESTAL



A PHASE



B PHASE



C PHASE

LABELS	
	SWITCHGEAR NO.
	SECTIONALIZING BOX NO.
	TRANSFORMER NO.
	RISER NO.
	SECONDARY PEDESTAL NO.

LEGEND	
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---+---	VACANT Cø(EMPTY) 2" CONDUIT OR AS SPECIFIED
---+---	EXISTING VACANT (EMPTY) 2" CONDUIT OR AS SPECIFIED
---	EXISTING UNDERGROUND ELECTRIC
-----	ELECTRICAL UTILITY EASEMENT

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ISSUED: 10-03-22
FOR CONSTRUCTION



	DATE	BY	WWW.SE-TEXAS.COM TEXAS REGISTRATION NUMBER F-1594
DRWN	12-14-21	CJB	
CHK	10-03-22	CTH	
APPD	10-03-22	CTH	



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NO	DATE	REVISION	BY	CHK	APPD	NO	DATE	REVISION	BY	CHK	APPD

21 CUDE3205

CUDE ENGINEERS

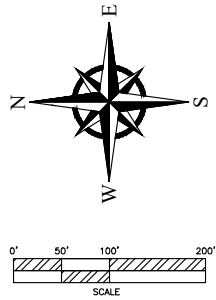
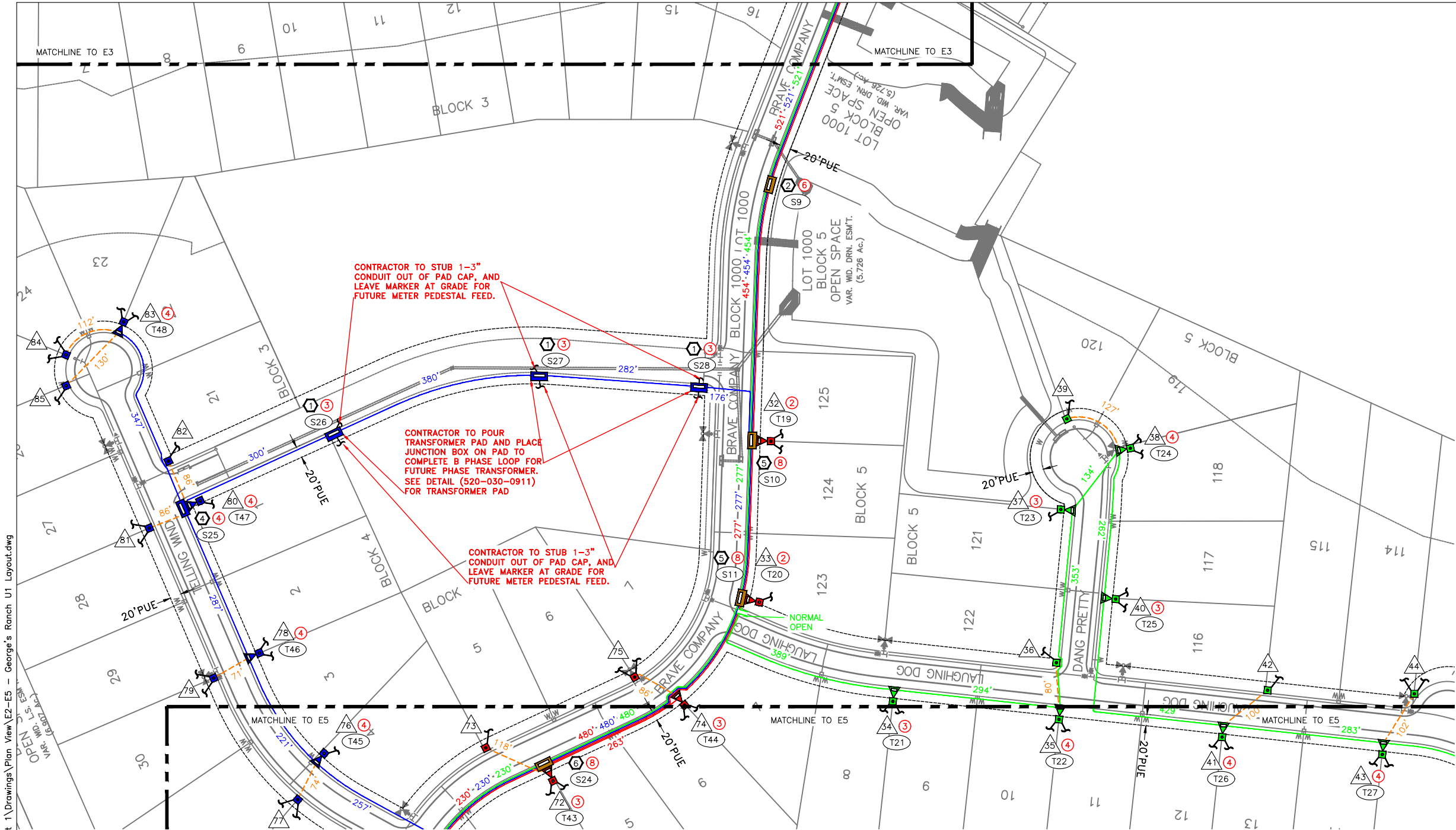
GEORGE'S RANCH UNIT 1

UNDERGROUND ELECTRICAL
LAYOUT
(SHEET 1 OF 3)

SCALE FOR 34 x 22 DWG
1" = 100'

DRAWING NO. E3

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SYMBOLS			
	POLE	RISER	TRANSFORMER
PROPOSED			
EXISTING			
REMOVAL			
PROPOSED 30 SWITCHGEAR			
30 SMALL SECTIONALIZING BOX			
30 LARGE SECTIONALIZING BOX			
10 OR 30 COMBINATION PADS (COLOR BY PHASE AND SIZE)			
NEW 200A 10 SECTIONALIZING BOX			
A PHASE B PHASE C PHASE			
NEW 10 TRANSFORMER (120/240)			
A PHASE B PHASE C PHASE			
NUMBER OF CONDUITS EXITING			
METER PEDESTAL			
A PHASE B PHASE C PHASE			

LABELS	
SW#	SWITCHGEAR NO.
S#	SECTIONALIZING BOX NO.
T#	TRANSFORMER NO.
R#	RISER NO.
X	SECONDARY PEDESTAL NO.

LEGEND	
A0	PRIMARY: 1/0 AL W/ FULL CONCENTRIC JACKETED
B0	NEUTRAL, 25 KV, XLPE, 260 MIL INSUL. IN 3" MIN.
C0	PVC SCH. 40, ELECT. CONDUIT
100' - POINT TO POINT DISTANCE (COLOR BY PHASE)	
350 MCM AL, 600V, TRIPLEX IN 3" MIN. PVC SCH 40, ELECT. CONDUIT	
#10 CU, THHN, 600V IN 3" CONDUITS (3 EA. SERVICE FOR GATE)	
---+ VACANT A0(EMPTY) 2" CONDUIT OR AS SPECIFIED	
---+ VACANT B0(EMPTY) 2" CONDUIT OR AS SPECIFIED	
---+ VACANT C0(EMPTY) 2" CONDUIT OR AS SPECIFIED	
---+ EXISTING VACANT (EMPTY) 2" CONDUIT OR AS SPECIFIED	
--- EXISTING UNDERGROUND ELECTRIC	
----- ELECTRICAL UTILITY EASEMENT	

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ISSUED: 10-03-22
FOR CONSTRUCTION



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12-14-21	CJB	
10-03-22	CTH	TEXAS REGISTRATION NUMBER F-1594
10-03-22	CTH	



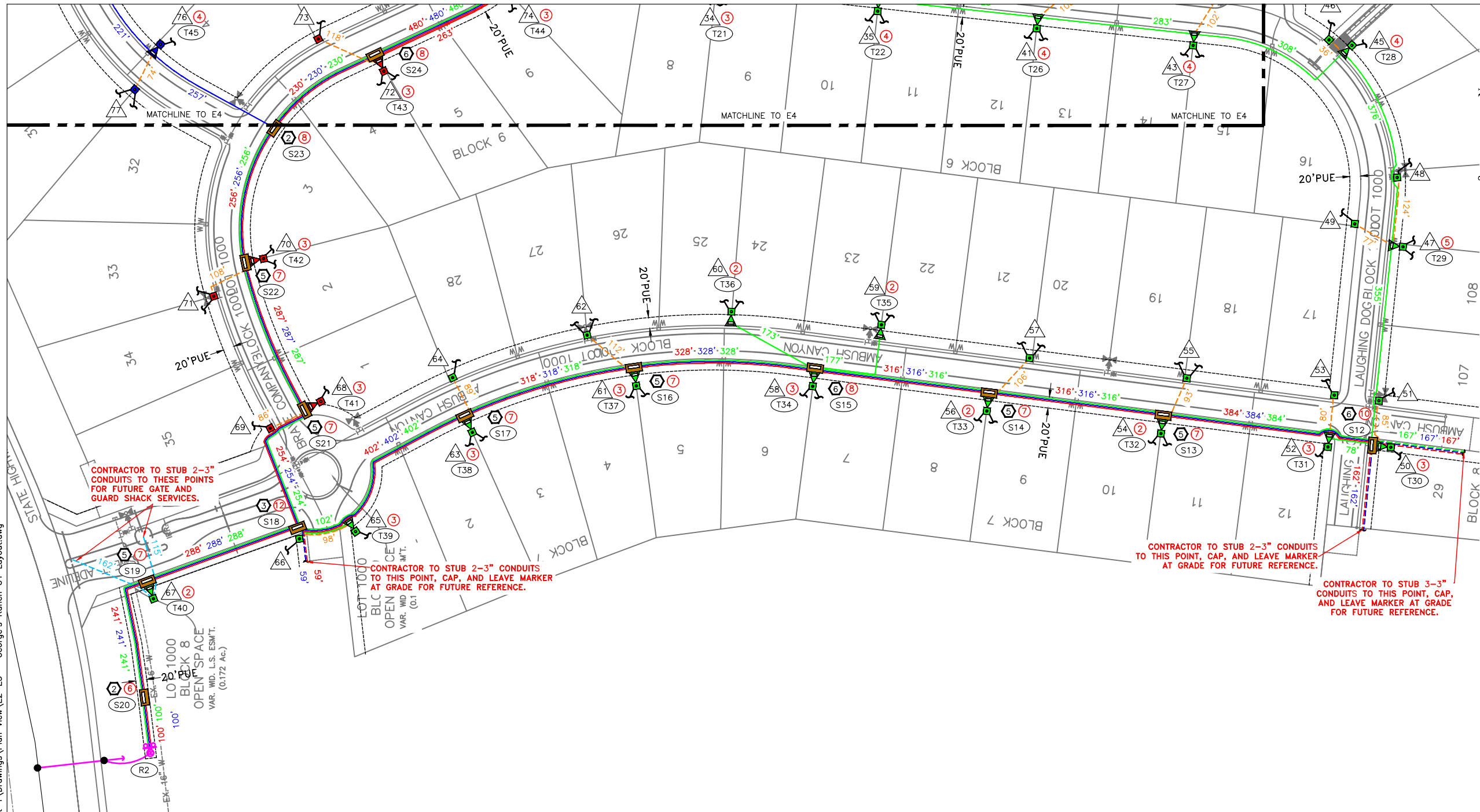
CUDE ENGINEERS
GEORGE'S RANCH UNIT 1

UNDERGROUND ELECTRICAL LAYOUT (SHEET 2 OF 3)

SCALE FOR 34 x 22 DWG 1" = 100'
DRAWING NO. E4

GENERAL NOTE:

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SYMBOLS

	POLE	RISER	TRANSFORMER
PROPOSED			
EXISTING			
REMOVAL			

 PROPOSED 3Ø SWITCHGEAR
 3Ø SMALL SECTIONALIZING BOX
 3Ø LARGE SECTIONALIZING BOX

 1Ø OR 3Ø COMBINATION PADS (COLOR BY PHASE AND SIZE)
NEW 200A 1Ø SECTIONALIZING BOX
 A PHASE  B PHASE  C PHASE
NEW 1Ø TRANSFORMER (120/240)
 A PHASE  B PHASE  C PHASE

 NUMBER OF CONDUITS EXITING
--

METER PEDESTAL
 A PHASE  B PHASE  C PHASE

LABELS	
	SWITCHGEAR NO.
	SECTIONALIZING BOX NO.
	TRANSFORMER NO.
	RISER NO.
	SECONDARY PEDESTAL NO.

LEGEND	
Aø	PRIMARY: 1/0 AL W/ FULL CONCENTRIC JACKETED
Bø	NEUTRAL, 25 kV, XLPE, 260 MIL INSUL. IN 3" MIN.
Cø	PVC SCH. 40, ELECT. CONDUIT
100' - POINT TO POINT DISTANCE (COLOR BY PHASE)	
---	350 MCM AL, 600V, TRIPLEX IN 3" MIN. PVC SCH 40, ELECT. CONDUIT
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NO	DATE	REVISION	BY	CHK	APPD	NO	DATE	REVISION	BY	CHK	APPD

21CUDE3205

CUDE ENGINEERS

GEORGE'S RANCH UNIT 1

UNDERGROUND ELECTRICAL
LAYOUT
(SHEET 3 OF 3)

SCALE FOR 34 x 22 DWG
1" = 100'

DRAWING NO. E5

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Typical All Pads

- Require 3" conduit (unless otherwise specified by PEC) with bell-end fittings to extend 1 1/2" to 2" above pad.
- Pads must extend a minimum of 4" above final grade and 1 1/2" below final grade. All pads must be placed on a slope less than or equal to 3:1. If greater than 3:1, contractor must bring slope to required grade.
- All disturbed soil underneath pad must be replaced by concrete.
- All ground rods shall be 3/4" X 10' copper-clad with clamp and must extend 3" above top of pad.
- Wood float finish leaving pad square and level with no dips or crown.
- Contact PEC before pouring concrete and comply with the following instructions:**
 - Pre-pour inspection: Check framing and layout of pad and conduit components.
 - Final inspection: Overall review of pad and conduits. Ensure bell ends are on conduit.

Typical For Single-Phase Transformer, Combination, Sectionalizer, and Secondary Pads

- Concrete to have minimum strength of 3,000 PSI.
- Steel reinforcing shall be 6" X 6" No. 10 wire mesh or 3/8" re-bar on 12" center to stop 1" from the sides.

Typical For Three-Phase Transformer Pads

- Concrete testing, 4,000 PSI; 4%-6% entrained air, 3/4" maximum-size aggregate.
- Steel reinforcement shall be 3/8" re-bar on 12" center to stop 1" from sides.
- Minimum concrete cover over reinforcing steel 2" unless noted.

Typical Trench Details

- Schedule 40 electrical grade PVC conduit. Schedule 80 electrical-grade conduit can be used in place of sand in secondary-only trenches.
- Initial backfill shall be manufactured or commercial sand. Minimum 3/8" pea gravel may be used for initial backfill in flood-prone areas.
- With PEC approval, minimum cover requirements may be reduced by six inches with every two inches of 3,000 PSI concrete poured directly onto conduit. ***Contact PEC before pouring concrete***
- If any type of vault or pedestal for the underground electric is planned, then all other utilities should be routed around these facilities.
- For 2" and smaller waterlines, special permission must be granted by PEC. Water lines larger than 2" will not be allowed in PEC trench.
- Refer to drawings 510-023 and 510-025 for PEC specifications and trench details on gas joint trench installations.

Legend
Typical in all drawings

(P)	Primary Conduit	(S)	Secondary Conduit	(CW)	Communications or Water	(G)	Gas line	(AS)	Alternate Secondary Conduit
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REV: B | DATE: 07/23/2020 | REVISION: | NOTE 4: 3/4" X 10' GROUND ROD WAS 5/8" X 8" | BY: RWC | CHK: SSS | APR: MMG

PEDERNALES ELECTRIC COOPERATIVE, INC. URD DEVELOPER'S SPECIFICATIONS

TYPICAL NOTES
REFERENCE PAGE
drawn: RWC approved: MMG date: 07/23/2020 drawing number: 510-009

Reference Drawing 510-009-0911 for Typical Trench Details

PEDERNALES ELECTRIC COOPERATIVE, INC. URD DEVELOPER'S SPECIFICATIONS

1Ø Conduit Arrangement for Primary 601 to 50,000 Volts
drawn: JBS approved: MJB date: December 12, 2011 drawing number: 510-010-0911

Reference Drawing 510-009-0911 for Typical Trench Details

PEDERNALES ELECTRIC COOPERATIVE, INC. URD DEVELOPER'S SPECIFICATIONS

1Ø Conduit Arrangement for Primary and Secondary
drawn: JBS approved: MJB date: December 12, 2011 drawing number: 510-012-0911

Reference Drawing 510-009-0911 for Typical Trench Details

PEDERNALES ELECTRIC COOPERATIVE, INC. URD DEVELOPER'S SPECIFICATIONS

1Ø Conduit Arrangement for Service 0 to 600 Volts
drawn: JBS approved: MJB date: December 12, 2011 drawing number: 510-016-0911

Reference Drawing 510-009-0911 for Typical Trench Details

PEDERNALES ELECTRIC COOPERATIVE, INC. URD DEVELOPER'S SPECIFICATIONS

3Ø Conduit Arrangement Joint with Other Utilities
drawn: JBS approved: MJB date: December 12, 2011 drawing number: 510-022-0911

Reference Drawing 510-009-0911 for Typical Notes

PEDERNALES ELECTRIC COOPERATIVE, INC. URD DEVELOPER'S SPECIFICATIONS

Pad for Service Meter Pedestal
drawn: JBS approved: MJB date: December 12, 2011 drawing number: 520-010-0911

Reference Drawing 510-009-0911 for Typical Notes

PEDERNALES ELECTRIC COOPERATIVE, INC. URD DEVELOPER'S SPECIFICATIONS

3Ø RISER POLE USING STANDOFF BRACKETS
drawn: RWC approved: MMG date: 07/09/2020 drawing number: 560-025

Reference Drawing 510-009-0911 for Typical Notes

PEDERNALES ELECTRIC COOPERATIVE, INC. URD DEVELOPER'S SPECIFICATIONS

Working Clearances around Padmount Transformers
drawn: JBS approved: MJB date: February 28, 2013 drawing number: 570-015-0911

THIS DRAWING IS CERTIFIED TO BE CORRECT FOR THE NEW FACILITIES SHOWN ONLY. INFORMATION CONCERNING EXISTING FACILITIES PROVIDED BY OTHERS HAS NOT BEEN VERIFIED.

ISSUED: 10-03-22
FOR CONSTRUCTION



DATE	BY	WWW.SE-TEXAS.COM
DRWN 12-14-21	CJB	
CHK 10-03-22	CTH	TEXAS REGISTRATION NUMBER F-1594
APPD 10-03-22	CTH	

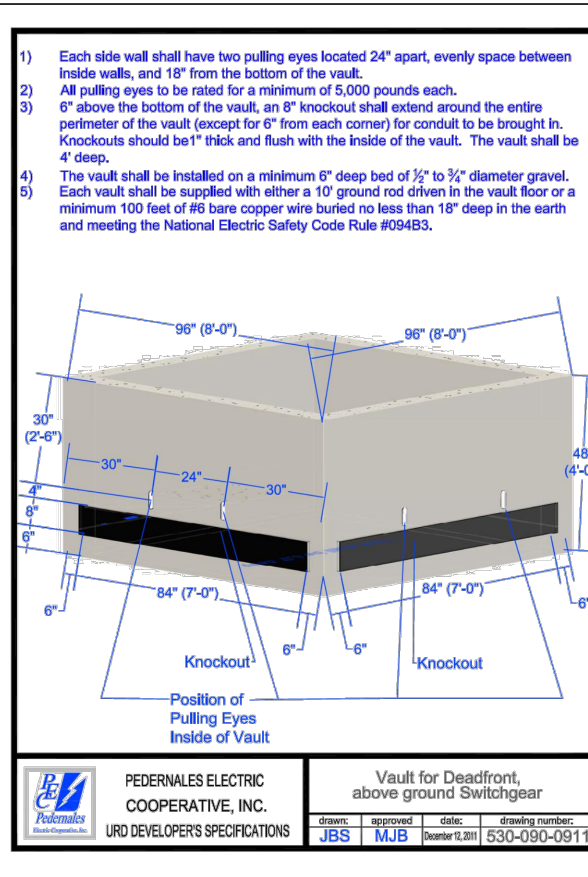
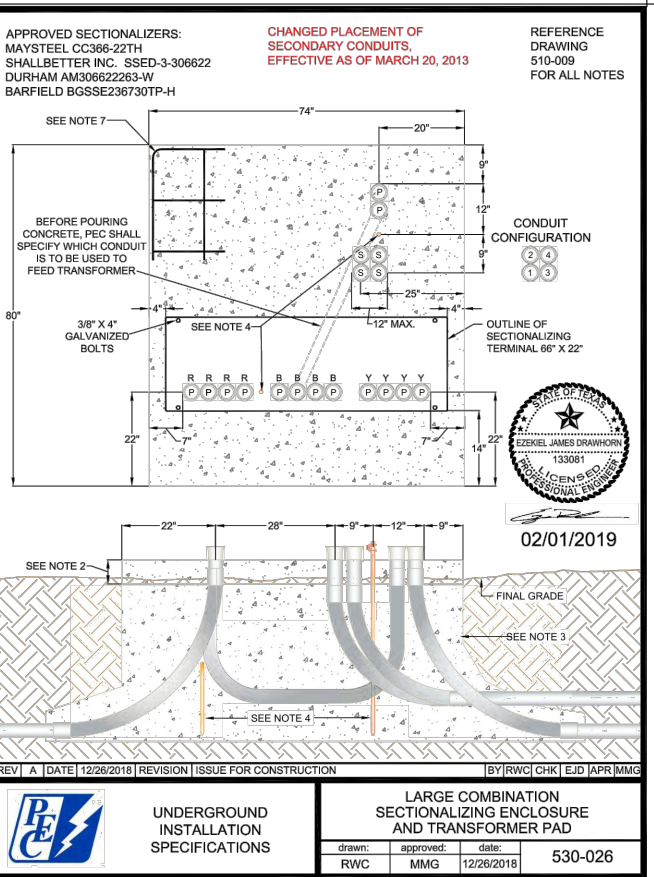
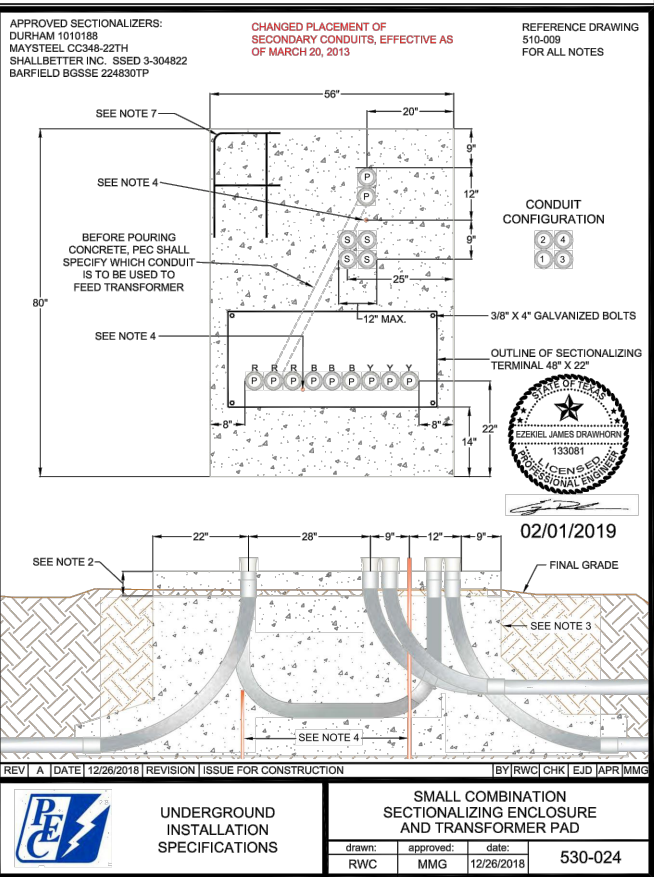
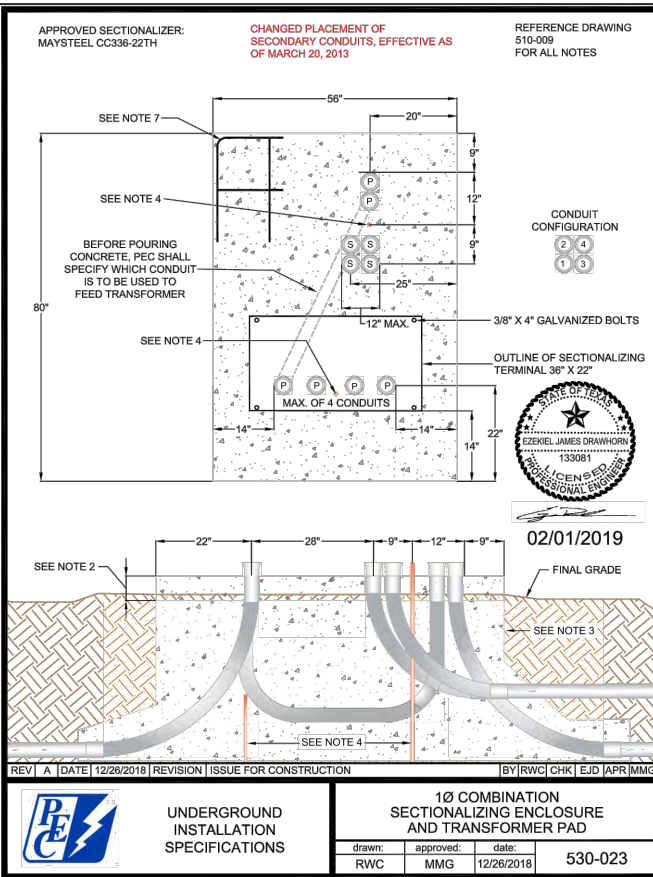
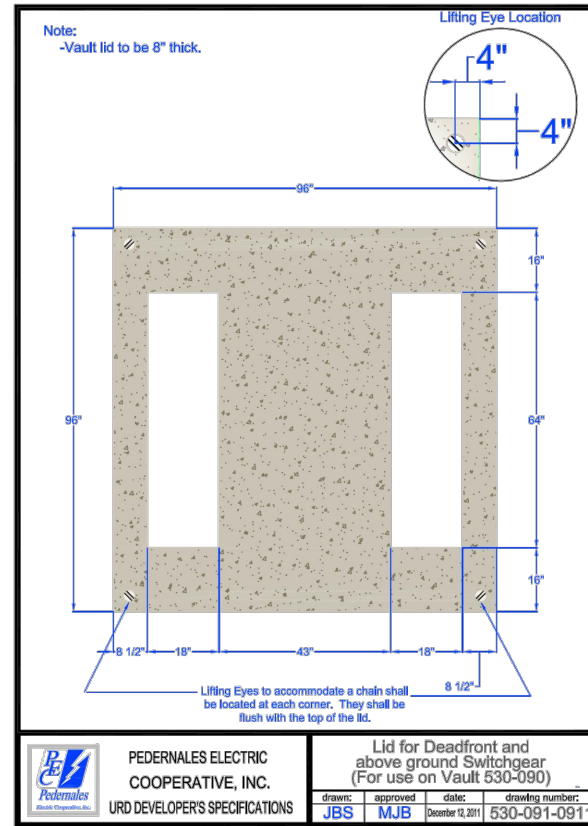
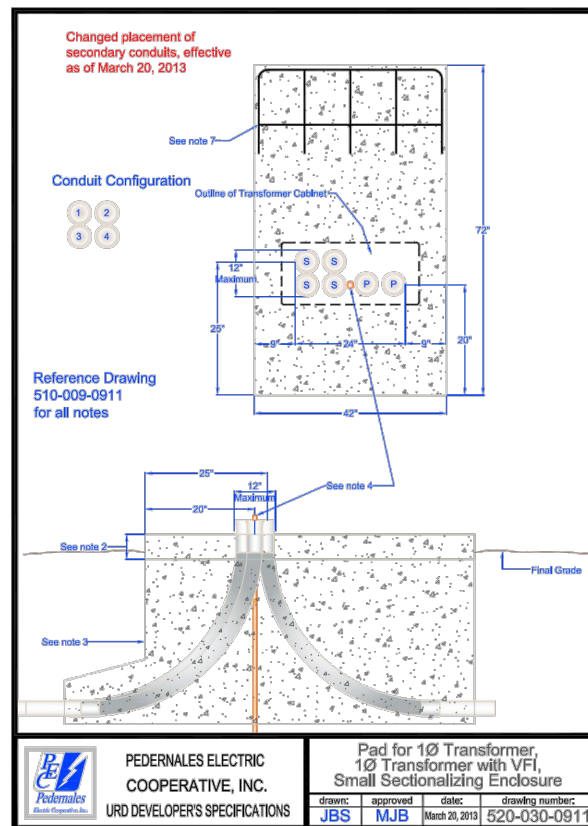
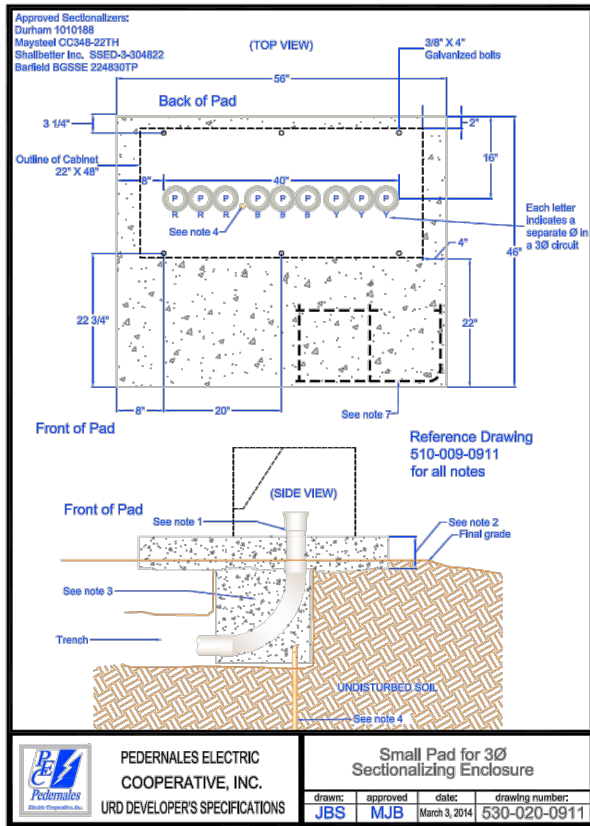
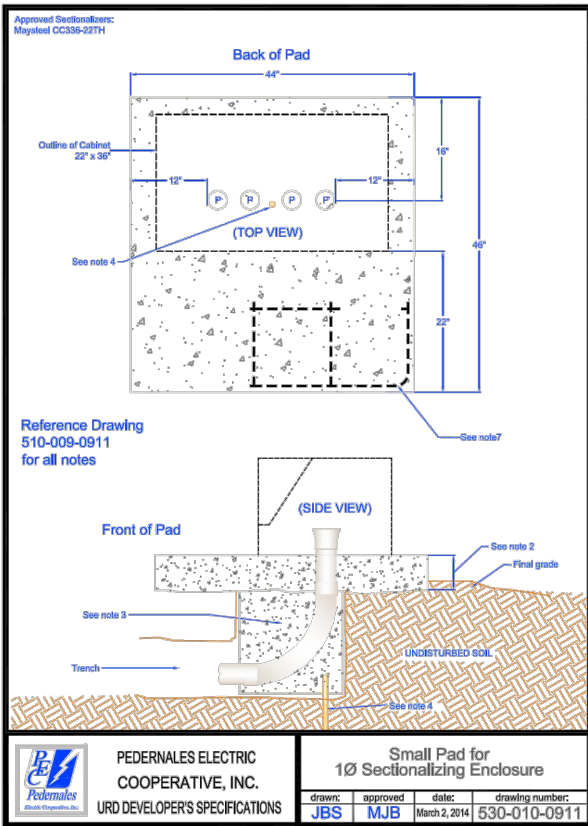


CUDE ENGINEERS
GEORGE'S RANCH UNIT 1

PEC UNDERGROUND
DETAILS
(SHEET 1 OF 2)

SCALE FOR 34 x 22 DWG
N.T.S.
DRAWING NO. E6

09/30/2022 2:27 PM * cbarajas * N:\CUDE\21CUDE3205 George's Ranch Unit 1\Drawings\Plan View E6-E7-PEC URD DETAILS Amenty.dwg



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ISSUED: 10-03-22
FOR CONSTRUCTION



DATE	BY
12-14-21	CJB
10-03-22	CTH
10-03-22	CTH



CUDE ENGINEERS
GEORGE'S RANCH UNIT 1

PEC UNDERGROUND
DETAILS
(SHEET 2 OF 2)

SCALE FOR 34 x 22 DWG
N.T.S.
DRAWING NO. E7