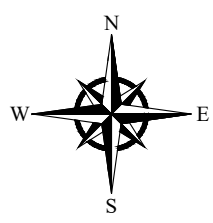


LOOKOUT BOERNE HOLDINGS, L.P.

GEORGE'S RANCH UNIT 2A

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 4)
- E4 UNDERGROUND ELECTRICAL LAYOUT (SHEET 2 OF 4)
- E5 UNDERGROUND ELECTRICAL LAYOUT (SHEET 3 OF 4)
- E6 UNDERGROUND ELECTRICAL LAYOUT (SHEET 4 OF 4)

ISSUED: 04-24-25
PRELIMINARY FOR REVIEW

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	DATE	BY
DRWN	03-27-25	PS
CHK	04-24-25	CTH
APPD	04-24-25	CTH

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TEXAS REGISTRATION NUMBER F-1594



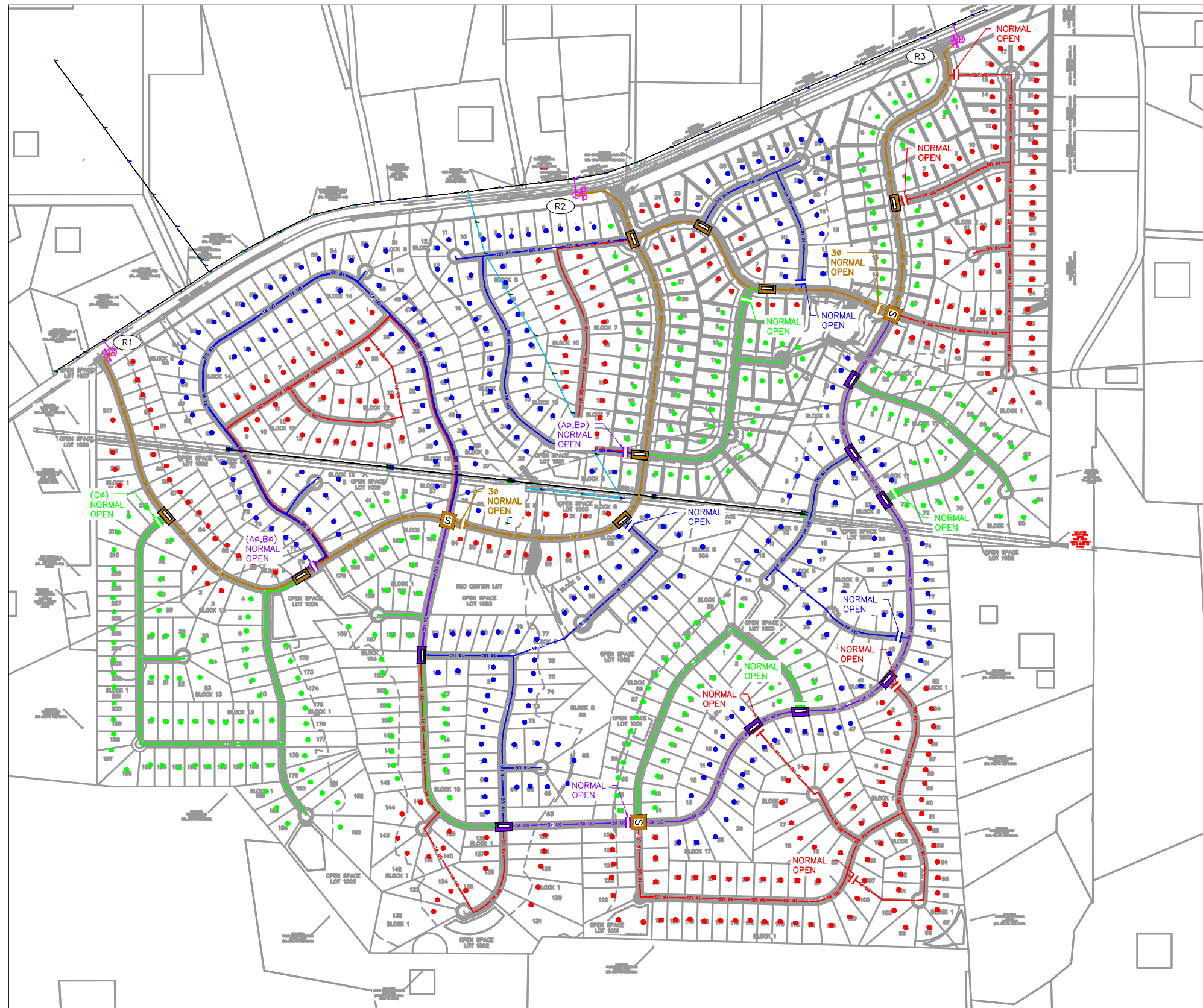
CUDE ENGINEERS
GEORGE'S RANCH UNIT 2A

PROJECT COVER SHEET AND DRAWING LIST

SCALE FOR 34 x 22 DWG N.T.S.
DRAWING NO. E0

09/30/2022 2:27 PM * psolinas * N:\CUDE\P25CUDE32-P00000000612 George's Ranch Unit 2A\Drawings\Plan View\E0 - George's Ranch U1 Cover Sheet.dwg

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



AØ	BØ	CØ
74	117	108

AØ	BØ	CØ
50	65	54

Aø	Bø	Cø
139	77	98

TOTAL:		
AØ	BØ	CØ
263	259	260

SERVICE PHASING	
	AØ SERVICE
	BØ SERVICE
	CØ SERVICE

UNDERGROUND		OVERHEAD
 30 kV UG	EXISTING 30	 30 kV OH
 30 kV UG	REMOVAL 30	 30 kV OH
 30 kV UG	PROPOSED 30	 30 kV OH
 18 kV UG	EXISTING 18	 18 kV OH
 18 kV UG	REMOVAL 18	 18 kV OH
 18 kV UG	PROPOSED A0	 18 kV OH
 18 kV UG	PROPOSED B0	 18 kV OH
 16 kV UG	PROPOSED C0	 16 kV OH

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CUDE ENGINEERS

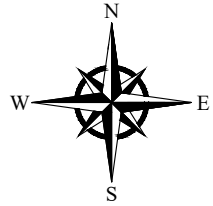
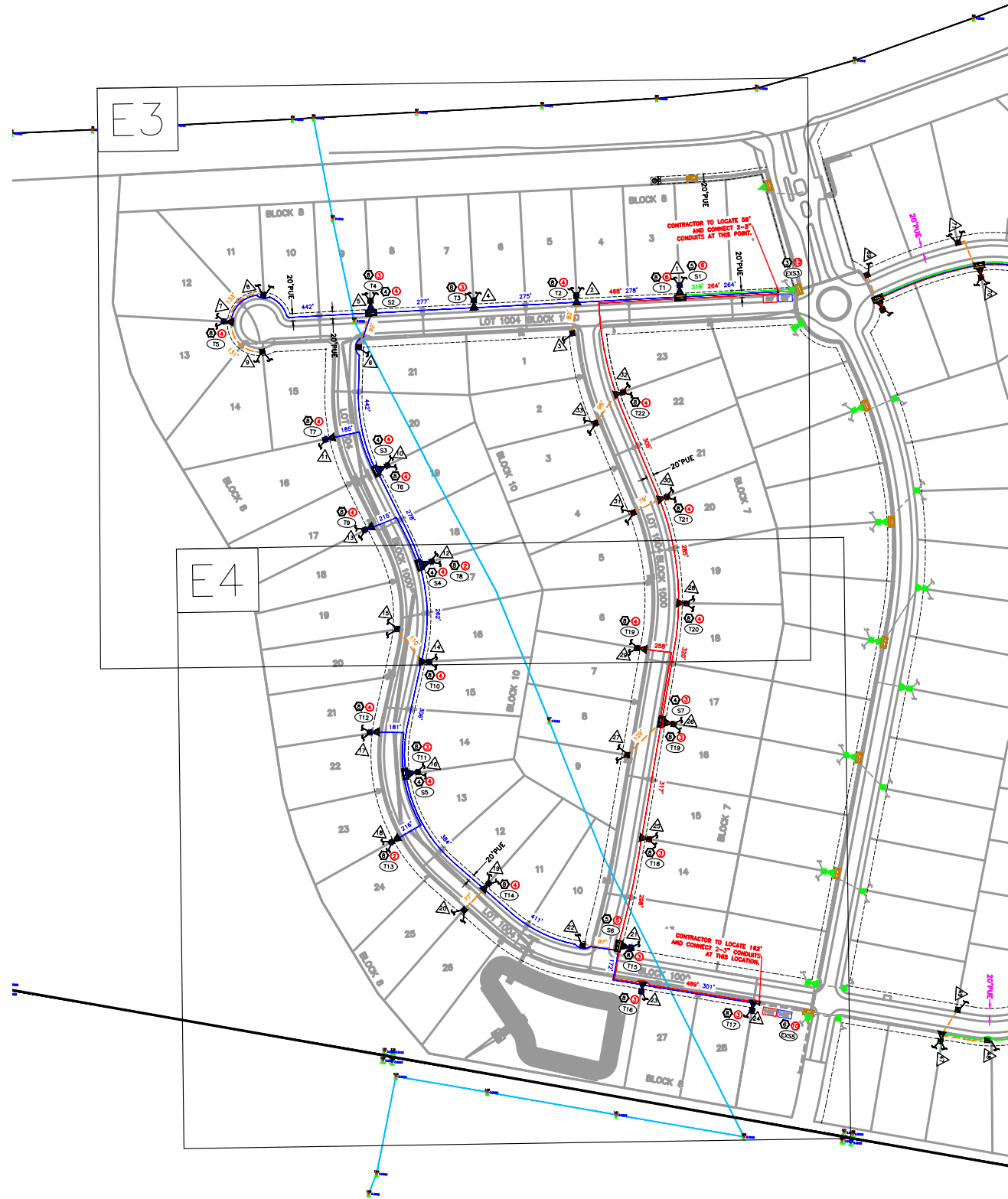
GEORGE'S RANCH UNIT 2A

MASTER PLAN

SCALE FOR 34 x 22 DWG
1" = 500'

DRAWING NO. E1

09/30/2022 2:27 PM * psalinas * N:\CUDE\P25CUD32--P00000000612 George's Ranch Unit 2A\Drawings\Plan View\E2 -- E4 -- George's Ranch layout.dwg



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	
#10 CU, THHN, 600V IN 3" CONDUITS (3 EA. SERVICE FOR GATE)	
VACANT AØ(EMPTY) 2" CONDUIT OR AS SPECIFIED	
VACANT BØ(EMPTY) 2" CONDUIT OR AS SPECIFIED	
VACANT CØ(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	●	⊕	⊗
S PROPOSED 3Ø SWITCHGEAR			
EXISTING SECTIONALIZING BOX (PHASE BY COLOR)			
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

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

GENERAL NOTES:

- ALL SECONDARY CONDUIT SHALL BE SCHEDULE 40 3" PVC.
- ALL PRIMARY CONDUIT SHALL BE SCHEDULE 40 3" PVC PER LEGEND.
- CONSTRUCTION SHALL TAG AND CODE CABLE IN THE FIELD TO IDENTIFY PHASES.
- ALL PRIMARY CABLE SHALL BE #1/0 AL 25 KV.
- 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.
- SECTIONALIZING CABINETS, TRANSFORMERS, EASEMENTS, CABLE, AND WIRE ARE NOT SHOWN TO SCALE IN THIS DRAWING.
- EASEMENTS TO BE DEDICATED BY DEVELOPER TO COVER ALL ELECTRIC FACILITIES.
- ALL ELECTRIC STREET CROSSINGS AND SERVICE EXTENSION TRENCHES TO INCLUDE TEL. & CATV.
- IF ANY ELECTRIC FACILITIES ARE SUSCEPTIBLE TO DAMAGE FROM VEHICULAR TRAFFIC, BOLLARDS SHALL BE PLACED AROUND THE EQUIPMENT TO PREVENT DAMAGE.
- FOR ANY PAD LOCATED IN DRAINAGE EASEMENT OR EROSION PRONE AREAS, CONTRACTOR SHALL BUILD UP PAD SITE AND REINFORCE WITH CONCRETE TO PREVENT EROSION.
- TRANSFORMER AND SECONDARY SERVICE SIZE EVALUATION SHOULD BE PERFORMED AT THE TIME OF EACH SERVICE REQUEST.
- ELECTRICAL FACILITIES SHALL BE INSTALLED A MINIMUM OF 4 FEET FROM FIRE HYDRANTS.
- CONTRACTOR TO INSTALL SECONDARY CONDUIT FROM TRANSFORMER TO METER PEDESTAL.
- SECONDARY CONDUIT FROM METER PEDESTAL INTO EACH LOT WILL BE INSTALLED IN THE FUTURE AFTER MEMBER APPLIES FOR ELECTRIC SERVICE.

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CUDE ENGINEERS
GEORGE'S RANCH UNIT 2A

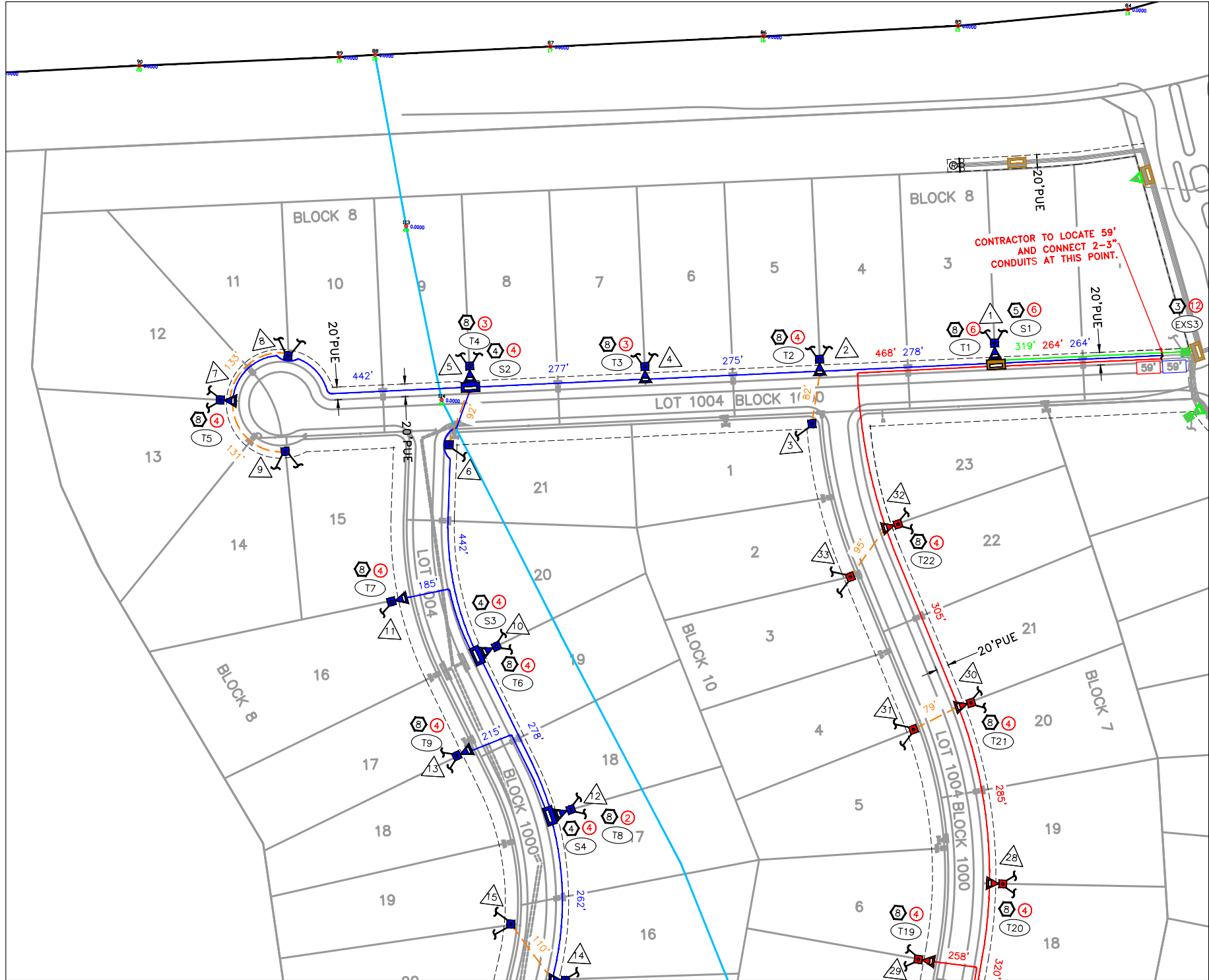
DRAWING MAP
KEY

SCALE FOR 34 x 22 DWG
N.T.S.
DRAWING NO. E2

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

21CUDE3205

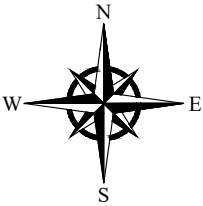
09/30/2022 2:27 PM * psalinas * N:\CUDE\P25CUD32-P00000000612 George's Ranch Unit 2A\Drawings\Plan View\E2 - E4 - George's Ranch layout.dwg



SYMBOLS			
	POLE	RISER	TRANSFORMER
PROPOSED			
EXISTING			
REMOVAL			
[S] PROPOSED 3Ø SWITCHGEAR			
[Box] EXISTING SECTIONALIZING BOX (PHASE BY COLOR)			
[Box] 3Ø SMALL SECTIONALIZING BOX			
[Box] 3Ø LARGE SECTIONALIZING BOX			
[Pad] 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			
[Circle] NUMBER OF CONDUITS EXITING			
METER PEDESTAL			
A PHASE B PHASE C PHASE			

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	
#10 CU, THHN, 600V IN 3" CONDUITS (3 EA. SERVICE FOR GATE)	
VACANT AØ(EMPTY) 2" CONDUIT OR AS SPECIFIED	
VACANT BØ(EMPTY) 2" CONDUIT OR AS SPECIFIED	
VACANT CØ(EMPTY) 2" CONDUIT OR AS SPECIFIED	
EXISTING VACANT (EMPTY) 2" CONDUIT OR AS SPECIFIED	
EXISTING UNDERGROUND ELECTRIC	
ELECTRICAL UTILITY EASEMENT	

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



GENERAL NOTES:

- ALL SECONDARY CONDUIT SHALL BE SCHEDULE 40 3" PVC.
- ALL PRIMARY CONDUIT SHALL BE SCHEDULE 40 3" PVC PER LEGEND.
- CONSTRUCTION SHALL TAG AND CODE CABLE IN THE FIELD TO IDENTIFY PHASES.
- ALL PRIMARY CABLE SHALL BE #1/0 AL 25 kV.
- 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.
- SECTIONALIZING CABINETS, TRANSFORMERS, EASEMENTS, CABLE, AND WIRE ARE NOT SHOWN TO SCALE IN THIS DRAWING.
- EASEMENTS TO BE DEDICATED BY DEVELOPER TO COVER ALL ELECTRIC FACILITIES.
- ALL ELECTRIC STREET CROSSINGS AND SERVICE EXTENSION TRENCHES TO INCLUDE TEL. & CATV.
- IF ANY ELECTRIC FACILITIES ARE SUSCEPTIBLE TO DAMAGE FROM VEHICULAR TRAFFIC, BOLLARDS SHALL BE PLACED AROUND THE EQUIPMENT TO PREVENT DAMAGE.
- FOR ANY PAD LOCATED IN DRAINAGE EASEMENT OR EROSION PRONE AREAS, CONTRACTOR SHALL BUILD UP PAD SITE AND REINFORCE WITH CONCRETE TO PREVENT EROSION.
- TRANSFORMER AND SECONDARY SERVICE SIZE EVALUATION SHOULD BE PERFORMED AT THE TIME OF EACH SERVICE REQUEST.
- ELECTRICAL FACILITIES SHALL BE INSTALLED A MINIMUM OF 4 FEET FROM FIRE HYDRANTS.
- CONTRACTOR TO INSTALL SECONDARY CONDUIT FROM TRANSFORMER TO METER PEDESTAL.
- SECONDARY CONDUIT FROM METER PEDESTAL INTO EACH LOT WILL BE INSTALLED IN THE FUTURE AFTER MEMBER APPLIES FOR ELECTRIC SERVICE.

GENERAL NOTE:

- CONTRACTOR SHALL REFER TO PEC'S UNDERGROUND DEVELOPERS SPECIFICATIONS DOCUMENT FOUND ON THEIR WEBSITE: WWW.PEC.COOP/HOME/BUILDERSCONTRACTORS.ASPX FOR INSTALLATION OF ELECTRICAL FACILITIES.

- PROPOSED: SMALL PAD FOR 1Ø SECTIONALIZING ENCLOSURE (DETAIL 530-010-0911)
- PROPOSED: SMALL PAD FOR 3Ø SECTIONALIZING ENCLOSURE (DETAIL 530-020-0911)
- PROPOSED: LARGE PAD FOR 3Ø SECTIONALIZING ENCLOSURE (DETAIL 530-022-0911)
- PROPOSED: 1Ø COMBINATION SECTIONALIZING ENCLOSURE AND TRANSFORMER PAD (DETAIL 530-023)
- PROPOSED: 3Ø SMALL COMBINATION SECTIONALIZING ENCLOSURE AND TRANSFORMER PAD (DETAIL 530-024)
- PROPOSED: 3Ø LARGE COMBINATION SECTIONALIZING ENCLOSURE AND TRANSFORMER PAD (DETAIL 530-026)
- PROPOSED: 3Ø SWITCHGEAR PAD
- PROPOSED: 1Ø TRANSFORMER WITH VFI SMALL SECTIONALIZING ENCLOSURE (DETAIL 520-020)

ISSUED: 04-24-25
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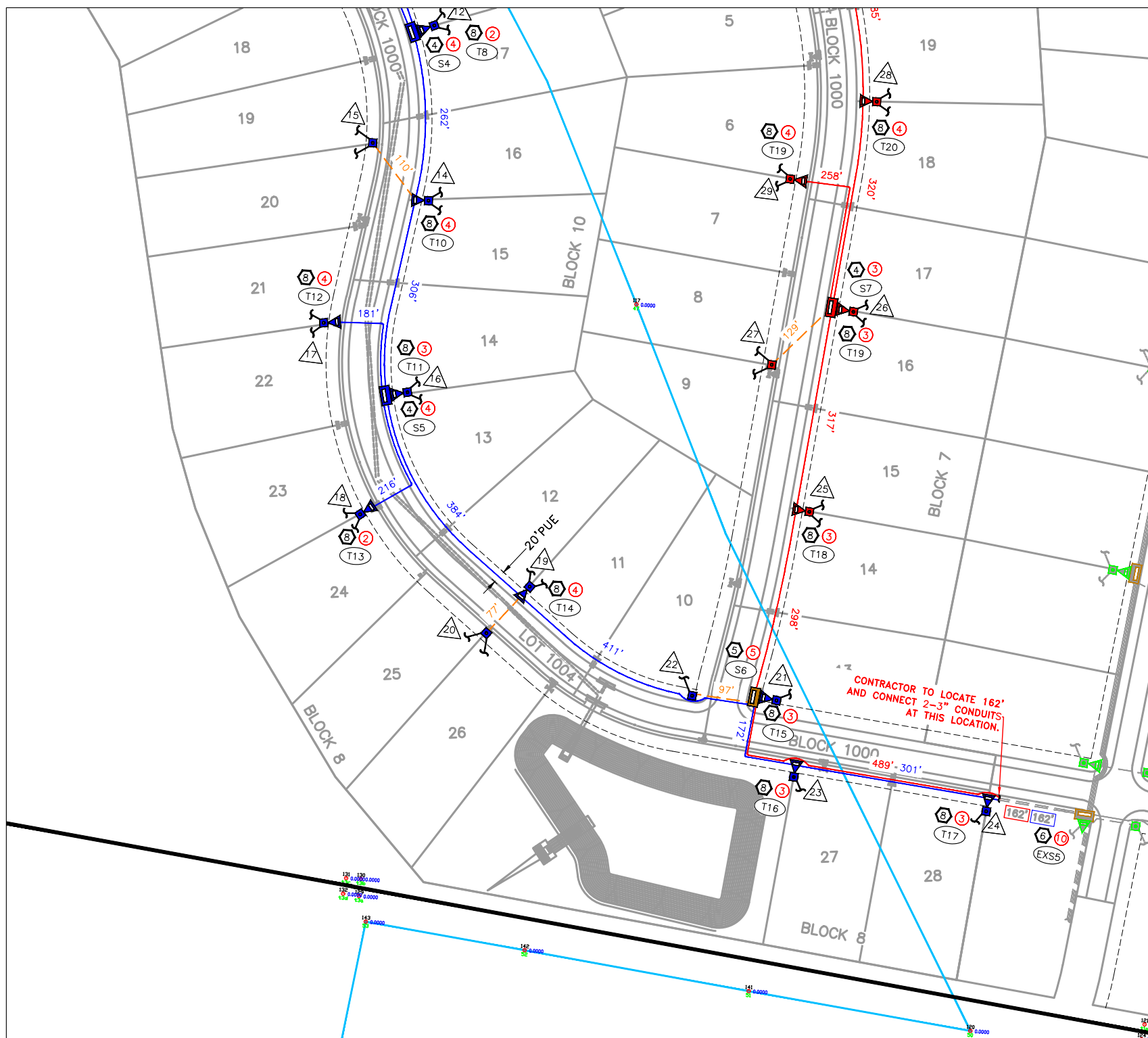
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CUDE ENGINEERS
GEORGE'S RANCH UNIT 2A

UNDERGROUND ELECTRICAL LAYOUT (SHEET 1 OF 2)

SCALE FOR 34 x 22 DWG 1" = 100'
DRAWING NO. E3



SYMBOLS

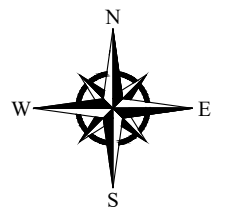
	POLE	RISER	TRANSFORMER
PROPOSED			
EXISTING			
REMOVAL			
 PROPOSED 3Ø SWITCHGEAR			
 EXISTING SECTIONALIZING BOX (PHASE BY COLOR)			
 3Ø SMALL SECTIONALIZING BOX			
 3Ø LARGE SECTIONALIZING BOX			
 1Ø OR 3Ø COMBINATION PADS (COLOR BY PHASE AND SIZE)			
NEW 200A 1Ø SECTIONALIZING BOX			
 A PHASE	 B PHASE	 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	

LEGEND

 PRIMARY: 1/0 AL W/ FULL CONCENTRIC JACKETED  NEUTRAL, 25 kV, XLPE, 260 MIL INSUL. IN 3" MIN.  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 Aø(EMPTY) 2" CONDUIT OR AS SPECIFIED  VACANT Bø(EMPTY) 2" CONDUIT OR AS SPECIFIED  VACANT Cø(EMPTY) 2" CONDUIT OR AS SPECIFIED  EXISTING VACANT (EMPTY) 2" CONDUIT OR AS SPECIFIED
 EXISTING UNDERGROUND ELECTRIC
 ELECTRICAL UTILITY EASEMENT

LABELS

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



GENERAL NOTES:

1. ALL SECONDARY CONDUIT SHALL BE SCHEDULE 40 3" PVC.
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.
6. SECTIONALIZING CABINETS, TRANSFORMERS, EASEMENTS, CABLE, AND WIRE ARE NOT SHOWN TO SCALE IN THIS DRAWING.
7. EASEMENTS TO BE DEDICATED BY DEVELOPER TO COVER ALL ELECTRIC FACILITIES.
8. ALL ELECTRIC STREET CROSSINGS AND SERVICE EXTENSION TRENCHES TO INCLUDE TEL. & CATV.
9. IF ANY ELECTRIC FACILITIES ARE SUSCEPTIBLE TO DAMAGE FROM VEHICULAR TRAFFIC, BOLLARDS SHALL BE PLACED AROUND THE EQUIPMENT TO PREVENT DAMAGE.
10. FOR ANY PAD LOCATED IN DRAINAGE EASEMENT OR EROSION PRONE AREAS, CONTRACTOR SHALL BUILD UP PAD SITE AND REINFORCE WITH CONCRETE TO PREVENT EROSION.
11. TRANSFORMER AND SECONDARY SERVICE SIZE EVALUATION SHOULD BE PERFORMED AT THE TIME OF EACH SERVICE REQUEST.
12. ELECTRICAL FACILITIES SHALL BE INSTALLED A MINIMUM OF 4 FEET FROM FIRE HYDRANTS.
13. CONTRACTOR TO INSTALL SECONDARY CONDUIT FROM TRANSFORMER TO METER PEDESTAL.
14. SECONDARY CONDUIT FROM METER PEDESTAL INTO EACH LOT WILL BE INSTALLED IN THE FUTURE AFTER MEMBER APPLIES FOR ELECTRIC SERVICE.

GENERAL NOTE:

1. CONTRACTOR SHALL REFER TO PEC'S UNDERGROUND DEVELOPERS SPECIFICATIONS DOCUMENT FOUND ON THEIR WEBSITE: WWW.PEC.COOP/HOME/BUILDERSCONTRACTORS.ASPX FOR INSTALLATION OF ELECTRICAL FACILITIES.

- ① PROPOSED:
SMALL PAD FOR 1Ø
SECTIONALIZING ENCLOSURE
(DETAIL 530-010-0911)
- ② PROPOSED:
SMALL PAD FOR 3Ø
SECTIONALIZING ENCLOSURE
(DETAIL 530-020-0911)
- ③ PROPOSED:
LARGE PAD FOR 3Ø
SECTIONALIZING ENCLOSURE
(DETAIL 530-022-0911)
- ④ PROPOSED:
1Ø COMBINATION SECTIONALIZING
ENCLOSURE AND TRANSFORMER PAD
(DETAIL 530-023)
- ⑤ PROPOSED:
3Ø SMALL COMBINATION SECTIONALIZING
ENCLOSURE AND TRANSFORMER PAD
(DETAIL 530-024)
- ⑥ PROPOSED:
3Ø LARGE COMBINATION SECTIONALIZING
ENCLOSURE AND TRANSFORMER PAD
(DETAIL 530-026)
- ⑦ PROPOSED:
3Ø SWITCHGEAR PAD
- ⑧ PROPOSED:
1Ø TRANSFORMER WITH VFI
SMALL SECTIONALIZING ENCLOSURE
(DETAIL 520-020)

ISSUED: 04-24-25
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CUDE ENGINEERS

GEORGE'S RANCH UNIT 2A

UNDERGROUND ELECTRICAL LAYOUT

(SHEET 2 OF 2)

SCALE FOR 34 x 22 DWG
1" = 100'

DRAWING NO. **E4**