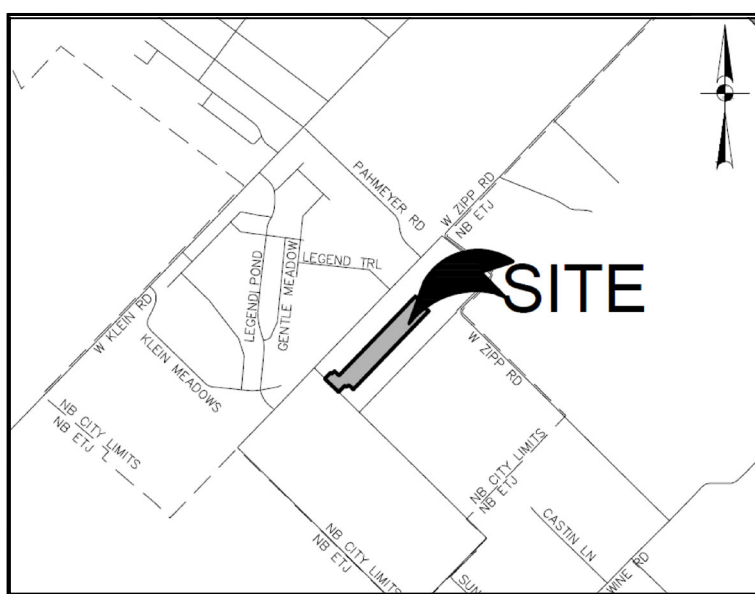
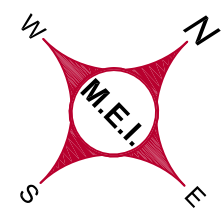


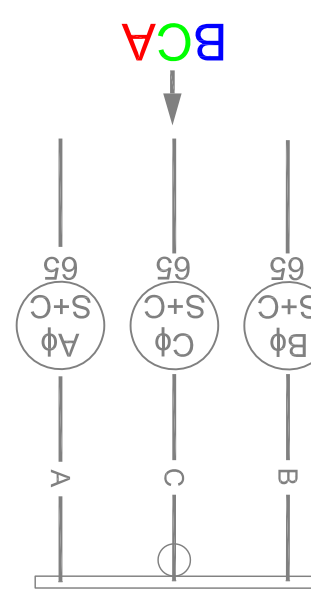
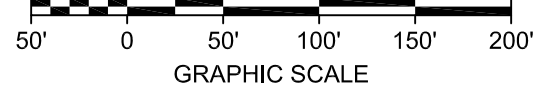


VICINITY MAP
NOT TO SCALE



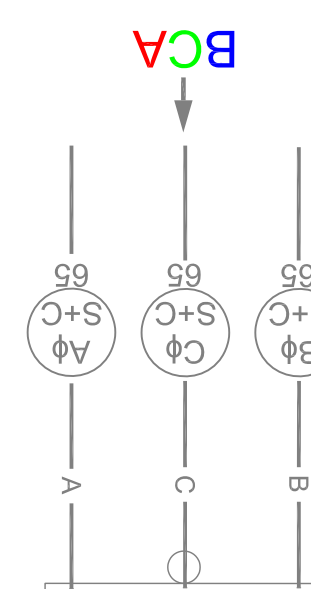
WO# 1828067
95 LOTS
9 LIGHTS

Upline Device
V401
14.4/24.9 kV



DETAIL 1: EXISTING RISER POLE

ON EXISTING RISER POLE:
- ONE (1) A ϕ RISER AND ONE (1) A ϕ 65 S&C FUSE
- ONE (1) B ϕ RISER AND ONE (1) B ϕ 65 S&C FUSE
- ONE (1) C ϕ RISER AND ONE (1) C ϕ 65 S&C FUSE

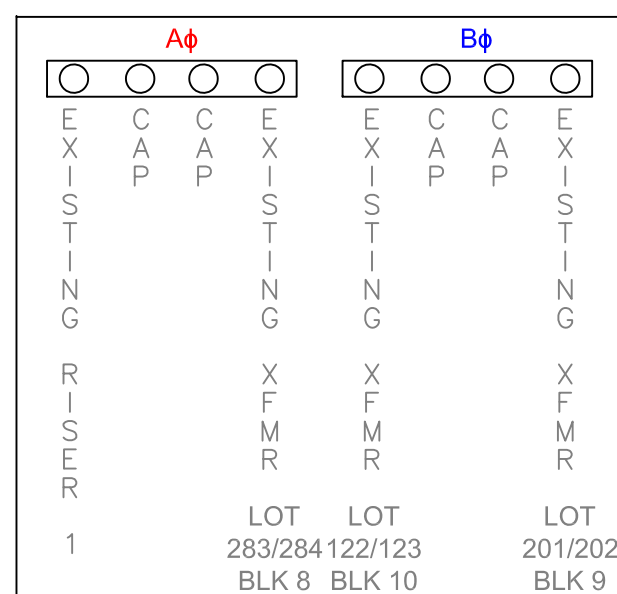
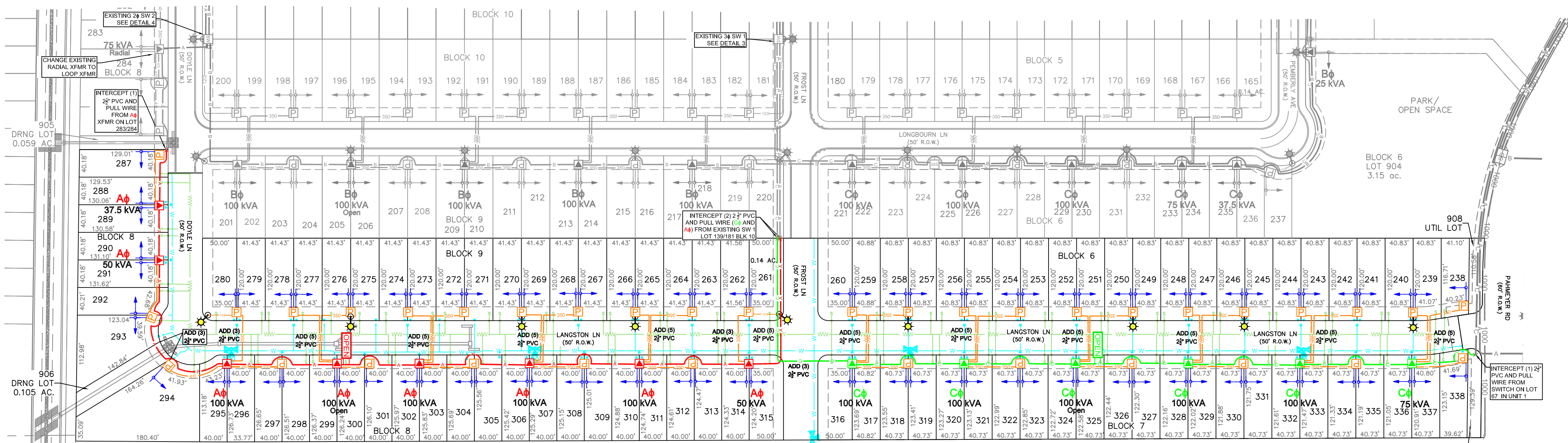


DETAIL 2: EXISTING RISER POLE

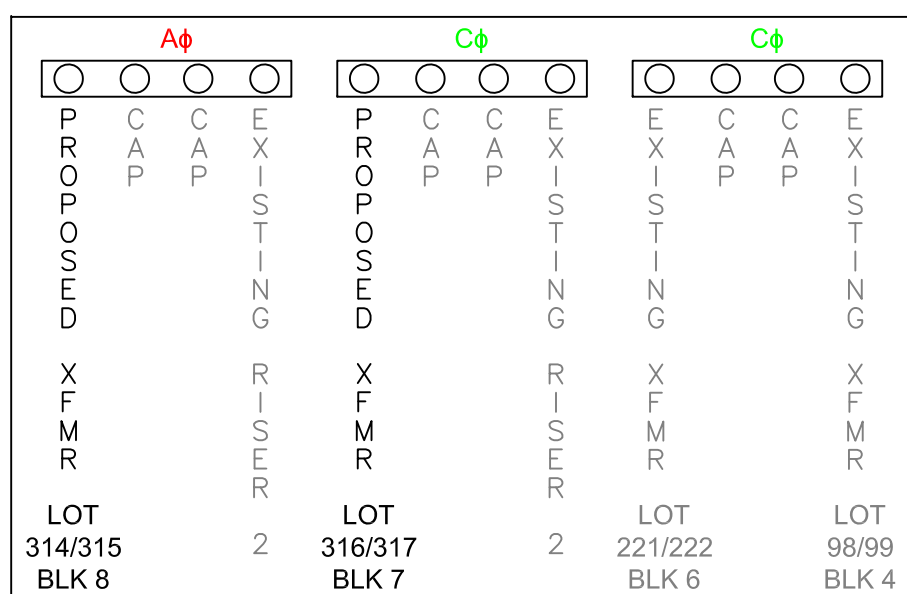
ON EXISTING RISER POLE:
- ONE (1) A ϕ RISER AND ONE (1) A ϕ 65 S&C FUSE
- ONE (1) B ϕ RISER AND ONE (1) B ϕ 65 S&C FUSE
- ONE (1) C ϕ RISER AND ONE (1) C ϕ 65 S&C FUSE

PHASE	LOTS		
	PROPOSED UNIT 4	EXISTING	TOTAL
A ϕ	49	6	55
B ϕ	0	55	55
C ϕ	0	61	61

PHASE	LOTS		
	PROPOSED UNIT 4	EXISTING	TOTAL
A ϕ	49	6	55
B ϕ	0	59	59
C ϕ	46	0	46



DETAIL 4: EXISTING SW 2
EXISTING 2 ϕ (A ϕ , B ϕ) SWITCH CABINET



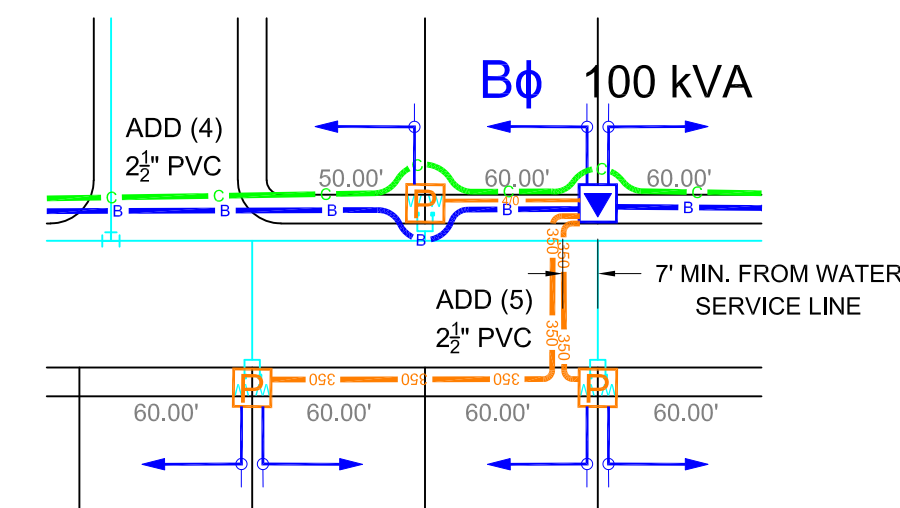
DETAIL 3: EXISTING SW 1
EXISTING 3 ϕ (A ϕ , B ϕ , C ϕ) SWITCH CABINET

LEGEND:

- PROPOSED POLE
- PROPOSED POLE WITH RISER(S)
- EXISTING POLE
- STREET LIGHT
- SINGLE PHASE PAD MOUNT TRANSFORMER
- THREE PHASE PAD MOUNT TRANSFORMER
- SINGLE PHASE POLE MOUNT TRANSFORMER (NOT INCLUDED IN PROJECT SCOPE)
- SECONDARY PEDESTAL
- OPEN POINT
- SWITCH
- SWITCHGEAR
- PULL BOX
- WATER METERS
- A-PHASE PRIMARY UNDERGROUND - 1/0 AL 25KV IN (1) 2 ϕ PVC CONDUIT
- B-PHASE PRIMARY UNDERGROUND - 1/0 AL 25KV IN (1) 2 ϕ PVC CONDUIT
- C-PHASE PRIMARY UNDERGROUND - 1/0 AL 25KV IN (1) 2 ϕ PVC CONDUIT
- ABC - 3-PHASE PRIMARY UNDERGROUND - 3-PHASE 1/0 AL 25KV IN (3) 2 ϕ PVC CONDUIT
- 1000 - PRIMARY UNDERGROUND - 3-PHASE 1000 MCM AL 25KV IN (3) 4" PVC CONDUIT WITH (1) 2 ϕ PVC CONDUIT FOR FIBER
- 350 - SECONDARY UNDERGROUND - 350 TPLX IN (1) 2 ϕ PVC CONDUIT WITH (1) 2 ϕ SPARE CONDUIT
- 4/0 - SECONDARY UNDERGROUND - 4/0 TPLX IN (1) 2 ϕ PVC CONDUIT
- #2 - SECONDARY UNDERGROUND - #2 TPLX IN (1) 2 ϕ PVC CONDUIT
- 12/2 - SECONDARY STREETLIGHT CIRCUIT - 12/2 W/GND IN (1) 1" PVC CONDUIT
- FUTURE SERVICE STUB-OUT (CONDUIT ONLY)
- PROPOSED WATER LINES (BY OTHERS)

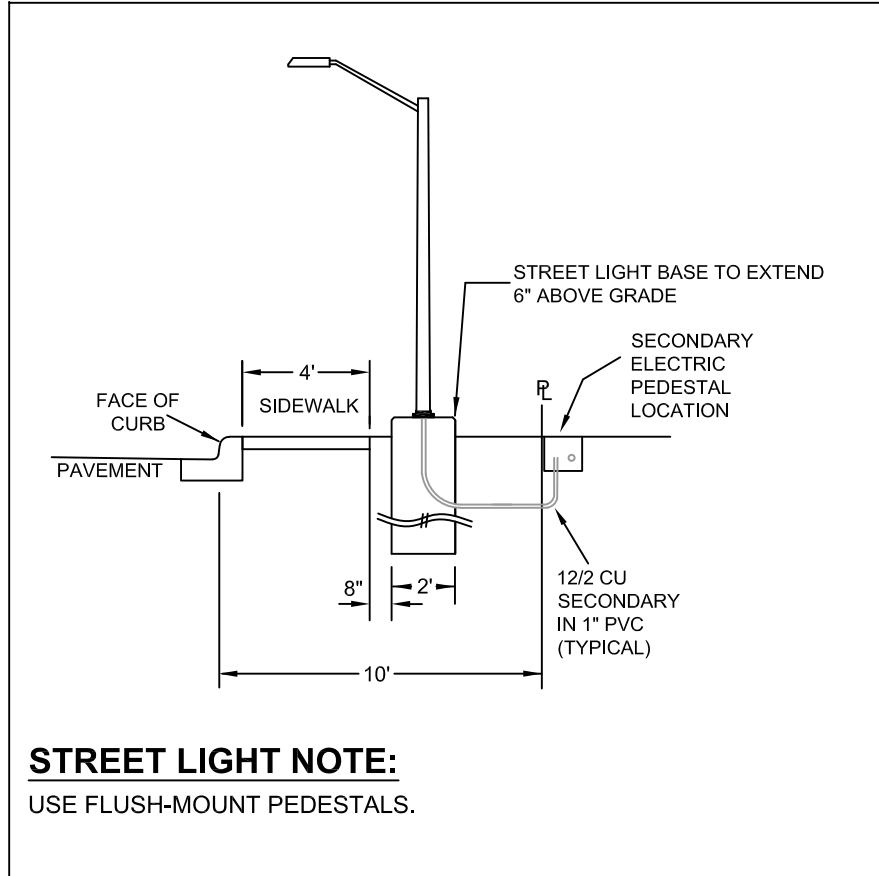
GENERAL NOTES:

- FOR FUTURE TEMPORARY SERVICE, STUB OUT (1) 2" FLEXIBLE ELECTRICAL PVC CONDUIT 6" BELOW GRADE CENTERED IN FRONT OF ALL TRANSFORMERS AND PEDESTALS. WHEN TEMPORARY SERVICE IS RETIRED, CUT OFF AND CAP 6" BELOW FINISHED GRADE.
- VERIFY ALL UNDERGROUND UTILITIES BEFORE DIGGING.
- GVEC STAFF WILL NOTIFY CONSTRUCTION CREWS WHEN TO PROCEED WITH INSTALLATION OF THE UNDERGROUND SYSTEM.
- GVEC TO HAVE A 5' WIDE ELECTRIC EASEMENT ON ALL ROAD CROSSINGS IN WHICH ELECTRIC LINES ARE PLACED.
- INSTALL THE CORRECT KV RATED PARKING STAND ARRESTORS AND LIGHTNING ARRESTORS FOR ALL OPEN POINT TRANSFORMERS.
- ALL UNDERGROUND CONDUIT FOR GVEC ELECTRIC FACILITIES TO BE SCHEDULE 40, GRAY PVC UNLESS OTHERWISE SPECIFIED BY GVEC STAFF.
- WATER PROVIDED BY GUADALUPE VALLEY SUD.
- SEWER PROVIDED BY GUADALUPE-BLANCO RIVER AUTHORITY.



ROAD CROSSING DETAIL - REQUIRED CLEARANCE
FROM WATER MAIN AND SERVICE LINES

ALL ELECTRIC CONDUITS PARALLEL WITH WATER MAIN OR SERVICE LINES TO HAVE SEVEN FOOT (7') HORIZONTAL CLEARANCE.



STREET LIGHT NOTE:
USE FLUSH-MOUNT PEDESTALS.

Material List		
Quantity	CU	Description
4,460	U1/0AL25KV	1/0 AL 25KV Aluminum URD Primary Cable
445	U12/2UFW/GRD	12/2 UF Copper with Ground Street Light Cable
4,109	U350ALT	350 MCM URD Triplex Secondary Cable
391	U4/0ALT	4/0 MCM URD Triplex Secondary Cable
31	UK6-350	Secondary Pedestal, Fed with 350 MCM URD Triplex
5	UK6-4-0	Secondary Pedestal, Fed with 4/0 MCM URD Triplex
9	UP30-5AL	30 ft. Aluminum Street Light Pole
9	M60-C3LED	54W LED Type 3 LT for Aluminum Pole
85	UPVC 1	1" Schedule 40 PVC
10,142	UPVC 2 1/2	2.5" Schedule 40 PVC
2	UVG5- Large	14.4 kv Single Phase Open Transformer (100kVA and Above)
4	UVG7- Small	14.4 kv Single Phase Loop Transformer (75kVA and Below)
8	UVG7- Large	14.4 kv Single Phase Loop Transformer (100kVA and Above)
10	100 PAD 14.4 120	100kVA Padmount Transformer
1	75 PAD 14.4 120	75kVA Padmount Transformer
2	50 PAD 14.4 120	50kVA Padmount Transformer
1	37.5 PAD 14.4 120	37.5kVA Padmount Transformer

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INITIAL REVIEW UNDER THE AUTHORITY OF:
REX N. WOODS, P.E. 87089
JUNE 10, 2025
IT IS NOT TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

PRELIMINARY
NOT FOR CONSTRUCTION
REVISION NO. 2

gvec
Delivering more.[™]
GUADALUPE VALLEY ELECTRIC CO-OP., INC.
P.O. BOX 118 - 825 E. SARAH DEWITT DR.
GONZALES, TEXAS 78629-0118
830-672-2871
1800-223-GVEC(4832)
FAX 210-672-9841
e-mail info@gvec.org

DATE	06/10/2025	JOB NAME	HIGHLAND RIDGE UNIT 4
DRAWN BY	CTP	DEVELOPER REVISION	
CHECKED BY			
DATE		WORK ORDER #	WO# 2039444
SCALE	1" = 100'		
SCALE	1" = 100'	DATE	06/10/2025
DRAWING	CTP	JOB CODE	GVC-3-H-21-A
		SHEET NO.	1 OF 1
		REV.	2