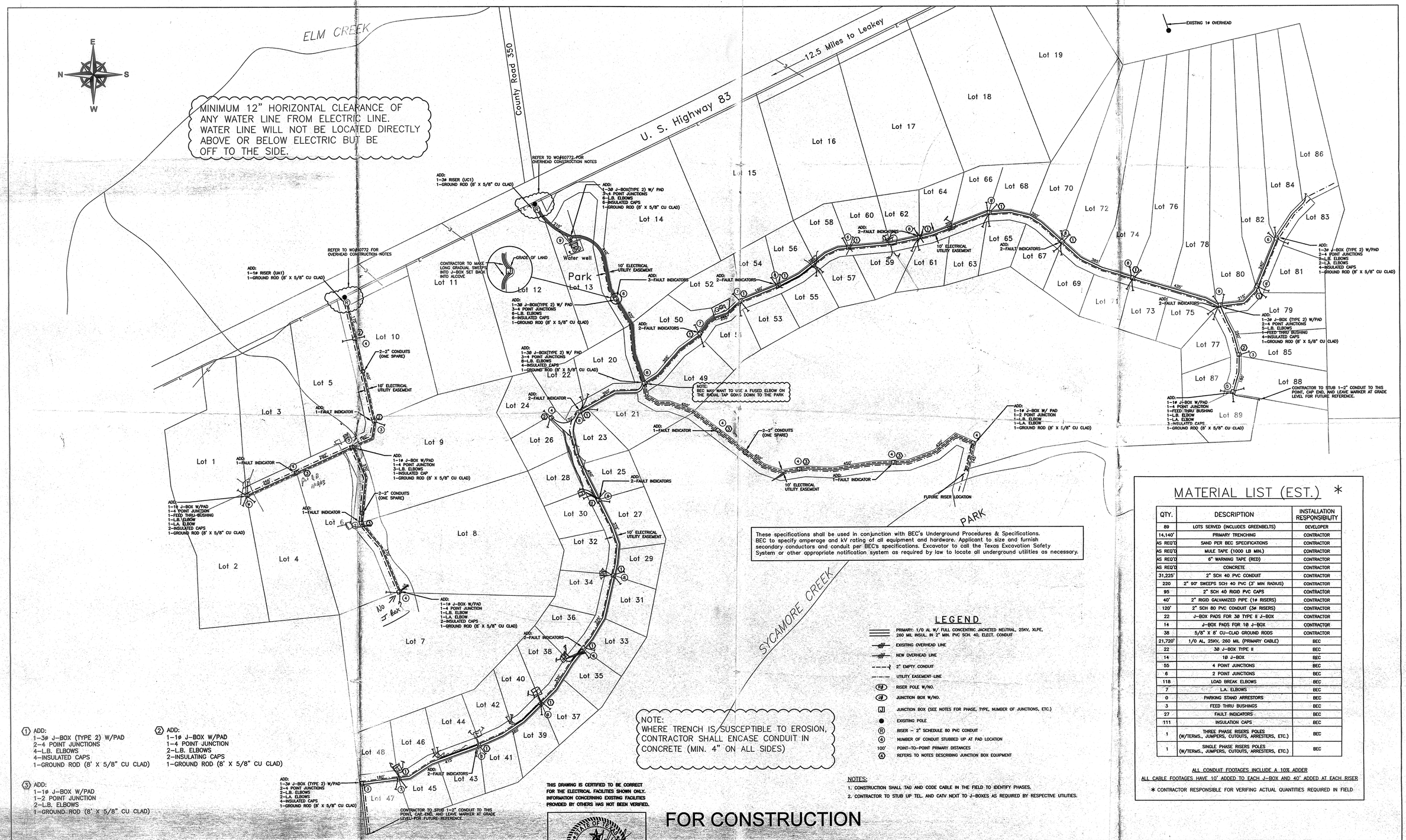


These specifications shall be used in conjunction with BEC's Underground Procedures & Specifications. BEC to specify amperage and kV rating of all equipment and hardware. Applicant to size and furnish secondary conductors and conduit per BEC's specifications. Excavator to call the Texas Excavation Safety System or other appropriate notification system as required by law to locate all underground utilities as necessary.

## MATERIAL LIST (EST.) *

| QTY. | DESCRIPTION | INSTALLATION RESPONSIBILITY |
|---|---|---|
| 89 | LOTS SERVED (INCLUDES GREENBELTS) | DEVELOPER |
| 14,140' | PRIMARY TRENCHING | CONTRACTOR |
| AS REQ'D | SAND PER BEC SPECIFICATIONS | CONTRACTOR |
| AS REQ'D | MULE TAPE (1000 LB MIN.) | CONTRACTOR |
| AS REQ'D | 6" WARNING TAPE (RED) | CONTRACTOR |
| AS REQ'D | CONCRETE | CONTRACTOR |
| 31,225' | 2" SCH 40 PVC CONDUIT | CONTRACTOR |
| 220 | 2" 90° SWEEPS SCH 40 PVC (3' MIN RADIUS) | CONTRACTOR |
| 95 | 2" SCH 40 RIGID PVC CAPS | CONTRACTOR |
| 40' | 2" RIGID GALVANIZED PIPE (1ø RISERS) | CONTRACTOR |
| 120' | 2" SCH 80 PVC CONDUIT (3ø RISERS) | CONTRACTOR |
| 22 | J-BOX PADS FOR 3ø TYPE II J-BOX | CONTRACTOR |
| 14 | J-BOX PADS FOR 1ø J-BOX | CONTRACTOR |
| 38 | 5/8" X 8' CU-CLAD GROUND RODS | CONTRACTOR |
| 21,720' | 1/0 AL, 25kV, 260 MIL (PRIMARY CABLE) | BEC |
| 22 | 3ø J-BOX TYPE II | BEC |
| 14 | 1ø J-BOX | BEC |
| 55 | 4 POINT JUNCTIONS | BEC |
| 6 | 2 POINT JUNCTIONS | BEC |
| 118 | LOAD BREAK ELBOWS | BEC |
| 7 | L.A. ELBOWS | BEC |
| 0 | PARKING STAND ARRESTORS | BEC |
| 3 | FEED THRU BUSHINGS | BEC |
| 27 | FAULT INDICATORS | BEC |
| 111 | INSULATION CAPS | BEC |
| 1 | THREE PHASE RISERS POLES (W/TERMS., JUMPERS, CUTOUTS, ARRESTERS, ETC.) | BEC |
| 1 | SINGLE PHASE RISERS POLES (W/TERMS., JUMPERS, CUTOUTS, ARRESTERS, ETC.) | BEC |

ALL CONDUIT FOOTAGES INCLUDE A 10% ADDER

ALL CABLE FOOTAGES HAVE 10' ADDED TO EACH J-BOX AND 40' ADDED AT EACH RISER

* CONTRACTOR RESPONSIBLE FOR VERIFING ACTUAL QUANTITIES REQUIRED IN FIELD

## LEGEND

- PRIMARY: 1/0 AL W/ FULL CONCENTRIC JACKETED NEUTRAL, 25KV, XLPE, 260 MIL INSUL. IN 2" MIN. PVC SCH. 40, ELECT. CONDUIT
- EXISTING OVERHEAD LINE
- NEW OVERHEAD LINE
- 2" EMPTY CONDUIT
- UTILITY EASEMENT LINE
- RISER POLE W/NO.
- JUNCTION BOX W/NO.
- JUNCTION BOX (SEE NOTES FOR PHASE, TYPE, NUMBER OF JUNCTIONS, ETC.)
- EXISTING POLE
- RISER – 2" SCHEDULE 80 PVC CONDUIT
- NUMBER OF CONDUIT STUBBED UP AT PAD LOCATION
- 100' POINT-TO-POINT PRIMARY DISTANCES
- REFERS TO NOTES DESCRIBING JUNCTION BOX EQUIPMENT

NOTES:

1. CONSTRUCTION SHALL TAG AND CODE CABLE IN THE FIELD TO IDENTIFY PHASES.
2. CONTRACTOR TO STUB UP TEL. AND CATV NEXT TO J-BOXES AS REQUIRED BY RESPECTIVE UTILITIES.

① ADD:
1-3ø J-BOX (TYPE 2) W/PAD
2-4 POINT JUNCTIONS
4-L.B. ELBOWS
4-INSULATED CAPS
1-GROUND ROD (8' X 5/8" CU CLAD)

② ADD:
1-1ø J-BOX W/PAD
1-4 POINT JUNCTION
2-L.B. ELBOWS
2-INSULATING CAPS
1-GROUND ROD (8' X 5/8" CU CLAD)

③ ADD:
1-1ø J-BOX W/PAD
1-2 POINT JUNCTION
2-L.B. ELBOWS
1-GROUND ROD (8' X 5/8" CU CLAD)

NOTE:
WHERE TRENCH IS SUSCEPTIBLE TO EROSION, CONTRACTOR SHALL ENCASE CONDUIT IN CONCRETE (MIN. 4" ON ALL SIDES)

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

STATE OF TEXAS
DONALD C. HOLCOMB
#3087
LICENSED
PROFESSIONAL ENGINEER

# FOR CONSTRUCTION

| NO | DATE | REVISION | BY | CHK | APPD | NO | DATE | REVISION | BY | CHK | APPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

SCHNEIDER ENGINEERING, LTD.
191 MENGER SPRINGS PARKWAY · BOERNE, TEXAS 78006 · (830) 249-3887

BANDERA ELECTRIC COOPERATIVE, INC.
VALLEY VISTA / WO#60057

URD
ELECTRICAL LAYOUT

| | DATE | BY |
|---|---|---|
| DRAWN | 3-23-07 | CTH |
| CHECKED | 3-29-07 | MCH |
| APPROVED | 4-26-07 | MCH |

SCALE: 1" = 200'

DRAWING NUMBER
7BEC007A