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|-----------|------------|
| JOB NO. | 21002 |
| DATE | 04/13/2021 |
| REVISIONS | |
| DRAWN BY | AD/M.G. |

4010 N. DOOLITTLE RD.
EDINBURG, TEXAS 78542

ECISD MONTE CRISTO MAIN ELEC SWITCHGEAR REPLACEMENT

MEP

SOLUTIONS

ENGINEERING

MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

SHEET

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GENERAL NOTES: ()

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

KEYED NOTES: O

- EXISTING SWITCHGEAR TO BE REMOVED. EXISTING FEEDERS SERVING EXISTING BUILDINGS SHALL BE RE-ROUTED TO NEW SWITCHGEAR. SWITCHGEAR FROM TRANSFORMER SHALL BE REMOVED. CONSULT TO REMAIN.
- NEW SWITCHGEAR MSB SHALL BE LOCATED FOR SERVICE CONDITIONS FROM TRANSFORMER SHALL BE RE-USED.
- FINISH AND INSTALL NEW WIREWAY FOR RE-USE OF EXISTING CONDUCTORS SERVING BUILDING. ELECTRICAL CONTRACTOR SHALL EXTEND CONDUCTORS IF REQUIRED TO NEW CIRCUIT BREAKERS.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTOR'S COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

NEW SWITCHBOARD MSB

| VOLUME: 480/277 VOLT 3 PHASE 4 WIRE 2000 A MAIN CIRCUIT BREAKER, LSG: EPW6010 METER BISES: MAIN - 2000 A; NEUTRAL - 100%; EQUIPMENT GROUND: SPD | | | | | | | | | |
|---|-----|-----|------------------|-------|-----|----|-----|-------|------|
| VAL | VAR | WAO | LOAD | BKR | CRT | PH | CRT | BKR | LOAD |
| | | | | 400/3 | 1 | A | 2 | 400/3 | |
| 70000 | | | PANEL H1 | - | 3 | B | 4 | - | |
| 70000 | | | | - | 5 | C | 4 | - | |
| 70000 | | | | - | 6 | A | 8 | - | |
| 70000 | | | PANEL H2 | 400/3 | 7 | A | 8 | 400/3 | |
| 70000 | | | | - | 9 | B | 10 | - | |
| 70000 | | | | - | 11 | C | 12 | - | |
| 50000 | | | TRANSFORMER T-4 | 400/3 | 13 | A | 14 | 400/3 | |
| 50000 | | | | - | 15 | B | 16 | - | |
| 50000 | | | | - | 17 | C | 18 | - | |
| 15000 | | | EXISTING CIRCUIT | 100/3 | 19 | A | 20 | 100/3 | |
| 15000 | | | | - | 21 | B | 22 | - | |
| 15000 | | | | - | 23 | C | 24 | - | |
| 30000 | | | 30000GSM | 200/3 | 25 | A | 26 | 400/3 | |
| 30000 | | | | - | 27 | B | 28 | - | |
| 30000 | | | | - | 29 | C | 30 | - | |
| | | | SPACE & BUS | 100/3 | 31 | A | 32 | 60/3 | |
| | | | | - | 33 | B | 34 | - | |
| | | | | - | 35 | C | 36 | - | |

NOTE: ALL BRANCH BREAKERS SHALL BE LSI.

VAL (LOADING)

VAR (LOADING)

WAO (OTHER)

WAO (OTHER)

AMPS: TOTAL

AMPS: TOTAL

AMPS: TOTAL

AMPS: TOTAL

AMPS: TOTAL

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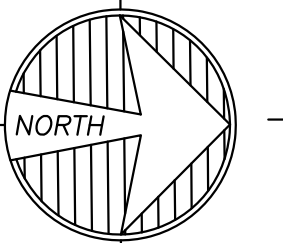
AMPS: TOTAL

AMPS: TOTAL

AMPS: TOTAL

E ELECTRICAL PANEL SCHEDULE

SCALE: N.T.S.



A ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

FEEDER / BRANCH CIRCUIT SCHEDULE

| MARK | PHASE | NEUTRAL | GROUND | REMARKS |
|------|------------|------------|------------|--------------------------------|
| | CONDUCTORS | CONDUCTORS | CONDUCTORS | |
| 1000 | 4" | 3-60KCMIL | 1-60KCMIL | 1-25KCMIL |
| | | | | FIVE PARALLEL FEEDERS REQUIRED |

B ELECTRICAL FEEDER/BRANCH CIRCUIT SCHEDULE

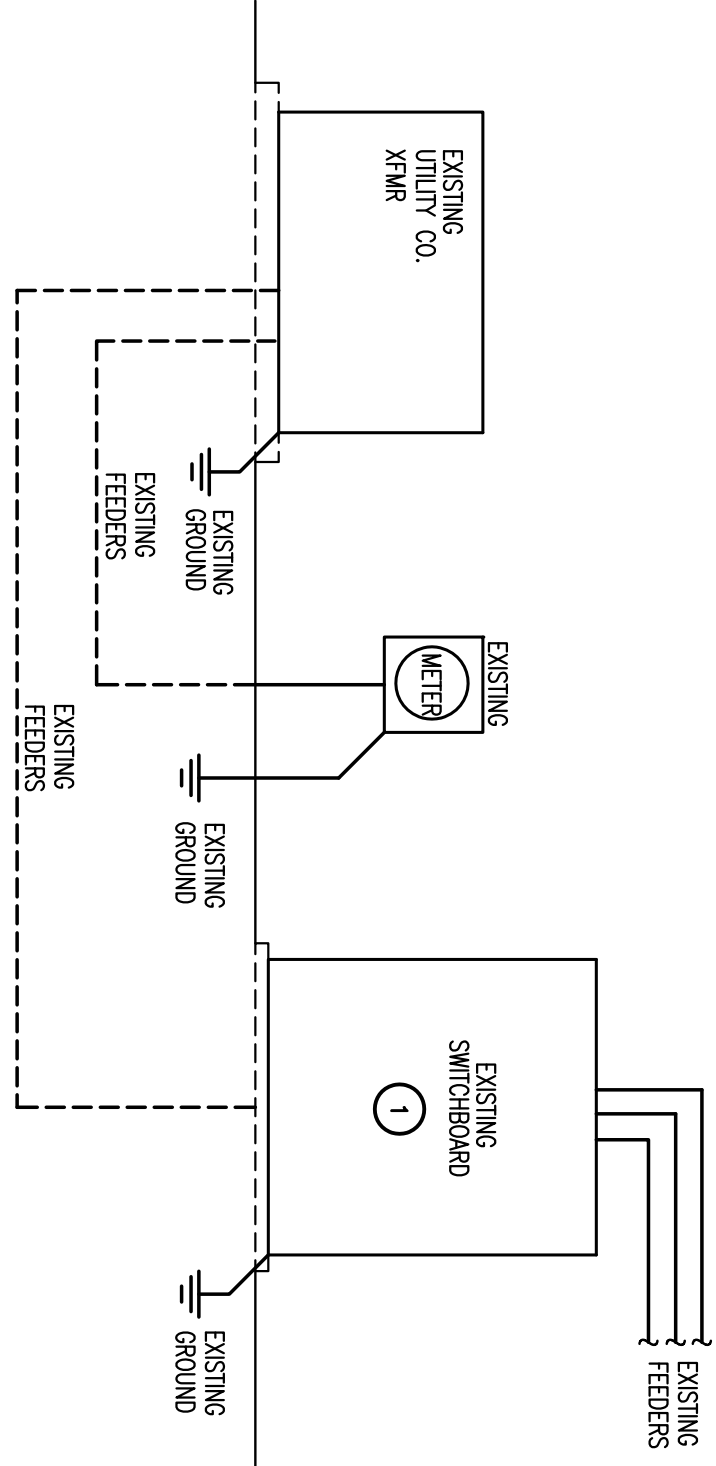
SCALE: N.T.S.

GENERAL NOTES:

- ELECTRICAL CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND CORRECTIONS MADE PRIOR TO BIDDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DISCREPANCIES AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL COORDINATE CONNECTION WITH UTILITY COMPANY.

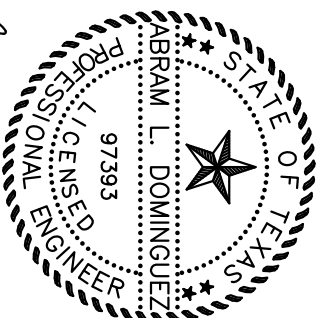
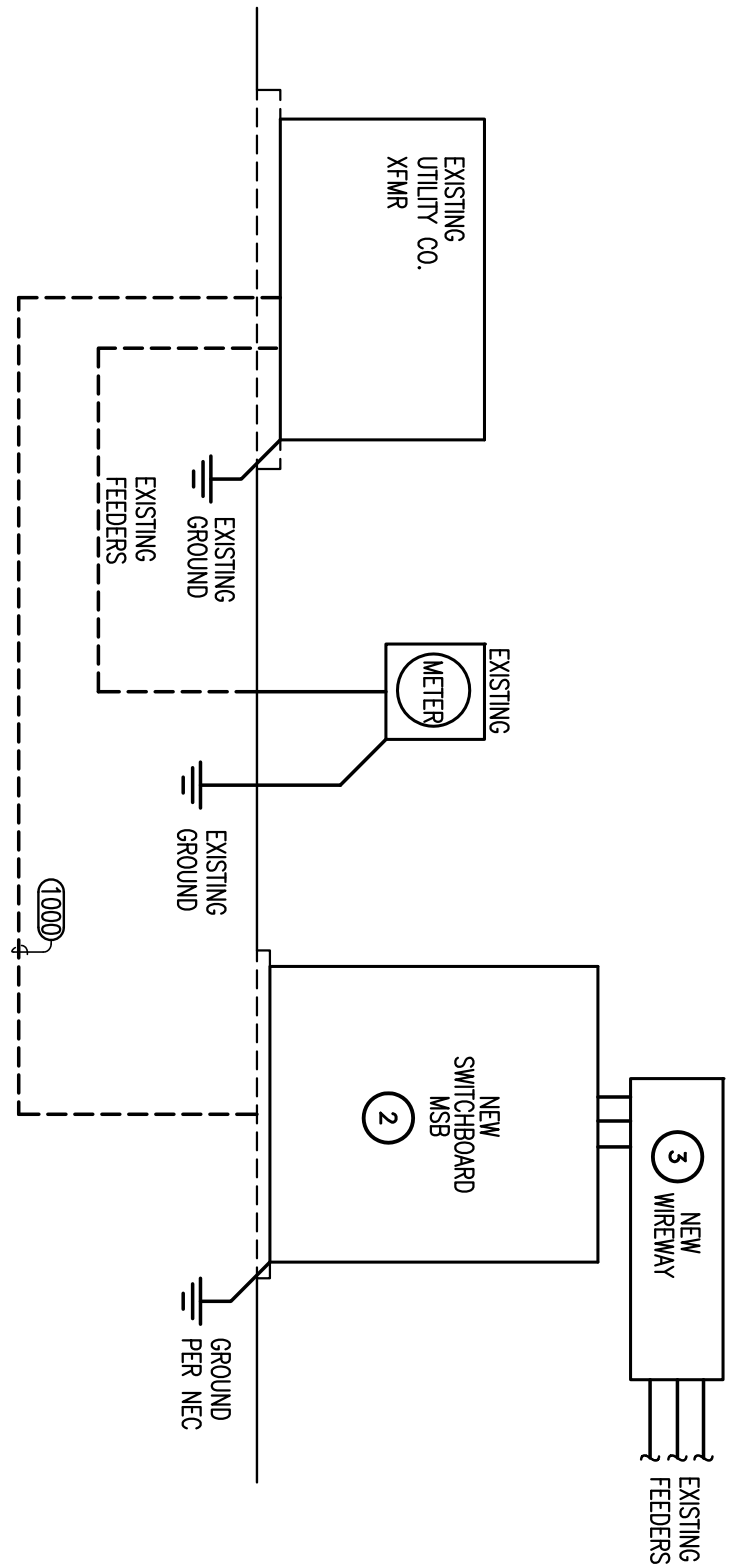
C EXISTING ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.



D NEW ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.



Abraham L. Dominguez
04.13.2021