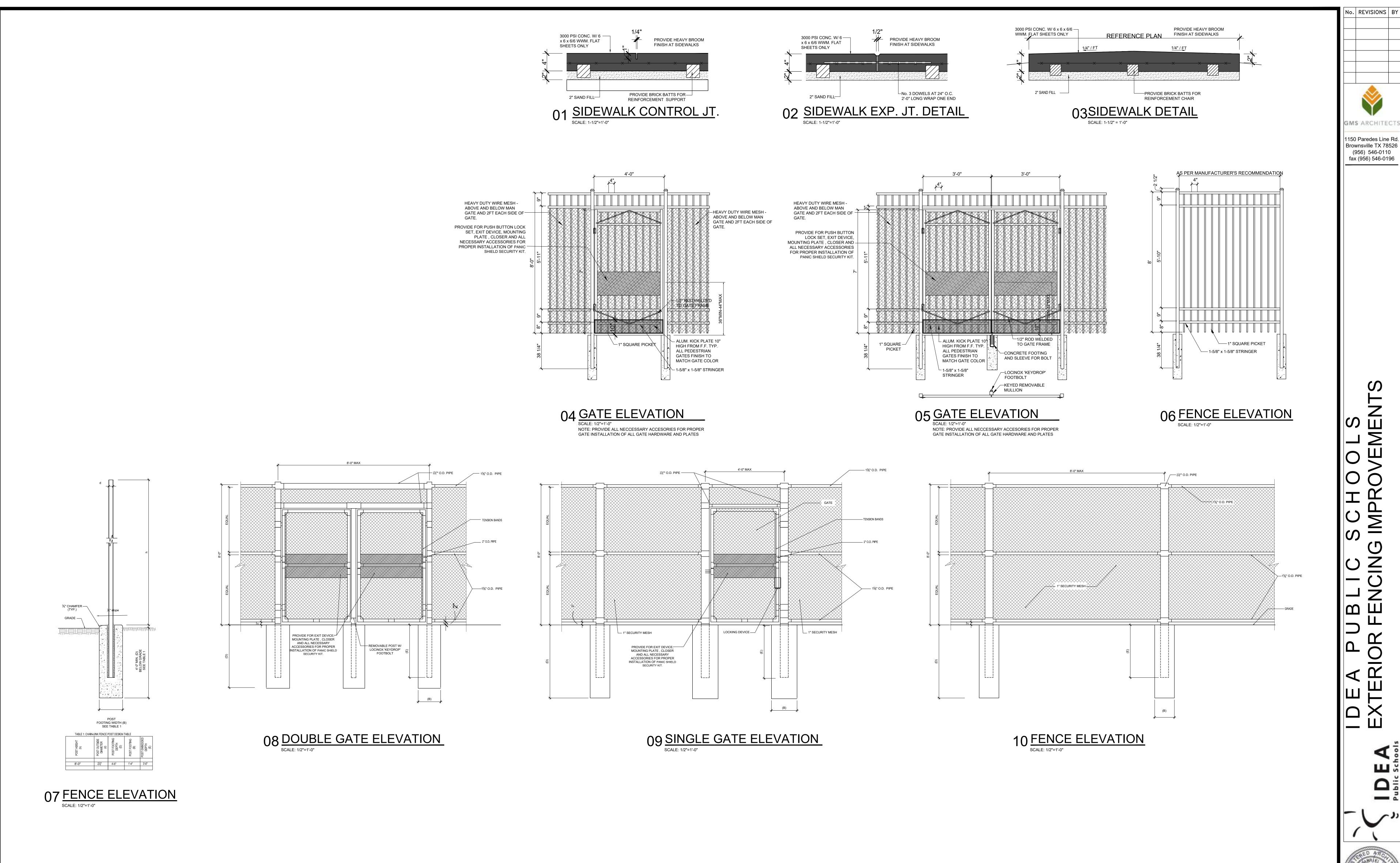
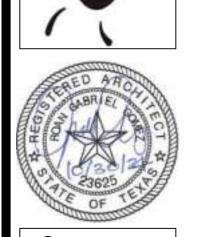


IDEA Exterior Fencing

SB1.01

Nov 18, 2024 — 6:20pmC:\Users\RoanGomez\Dropbox\2024 IDEA Facilities\Security Fencing\San Benito\SB1.01.dwg





© Copyright 2024 Gomez Mendez Saenz Inc. Architects-Planners Interior Designers November 2024 Roan Gomez, AlA

IDEA Exterior Fencing

A1.02

## **ELECTRICAL GENERAL NOTES:**

- 1. ALL ELECTRICAL WORK SHALL BE UNDER THE MASTER ELECTRICIAN WHO PULLED THE PERMIT AND ITS JOURNEYMAN ELECTRICIANS.
- 2. PERFORM ALL WORK PER ADOPTED N.E.C. AND APPLICABLE STATE STANDARDS, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.
- 3. UNLESS NOTED OTHERWISE, MINIMUM POWER CIRCUIT IS TO BE #12 THWN WITH #12 GROUND IN 1/2" CONDUIT, WITH THE EXCEPTION THAT ANY CIRCUIT LONGER THAN 100 FEET SHALL BE MINIMUM #10 AWG WITH #10 GROUND WIRE. CIRCUIT LONGER THAN 200 FEET SHALL BE MINIMUM #8 AWG WITH #10 GROUND WIRE MINIMUM.
- 4. ALL EXISTING ID NAMETAGS AND CIRCUIT IDENTIFICATION MUST BE REVISED TO REFLECT CURRENT CONDITIONS FOR ALL EQUIPMENT WHICH IS NEW, REPLACED, OR DEMOLISHED. REMOVE ID NAMETAGS FOR DEMOLISHED EQUIPMENT. REPLACE EXISTING NAMETAGS WITH NEW FOR REPLACED EQUIPMENT, IF REPLACEMENT EQUIPMENT HAS DIFFERENT NAME. PROVIDE NEW NAMETAGS FOR ALL NEW EQUIPMENT. ALL CIRCUIT BREAKER DIRECTORIES FOR PANELS IN WHICH NEW WORK TAKES PLACE ARE TO BE REPLACED WITH NEW DIRECTORIES WHICH LIST EXISTING CIRCUITS AND NEW. ALL UNUSED CIRCUITS ARE TO BE MARKED AS "SPARE" IN THE DIRECTORIES. DIRECTORIES ARE TO BE COMPUTER GENERATED; NO HAND WRITTEN DIRECTORIES ARE ACCEPTABLE.
- 5. HAND-WRITTEN CIRCUIT BREAKER DIRECTORIES WILL NOT BE ACCEPTED. DIRECTORIES MUST BE COMPUTER GENERATED AND PRINTED TO REFLECT FINAL INSTALLED CONDITIONS.
- 6. MARK ALL J-BOXES WITH INDELIBLE INK, INDICATING POWER CIRCUITRY INFORMATION. LABEL ALL EQUIPMENT ITEMS PER SPECIFICATIONS.
- 7. ALL EXTERIOR RACEWAYS ABOVE GROUND SHALL BE RIGID GALVANIZED.
- 8. UNDER NO CIRCUMSTANCES SHALL MORE THAN THREE CIRCUITS SHARE THE SAME NEUTRAL, AND SUCH CIRCUITS MUST BE SEPARATE PHASE.
- 9. SINCE ELECTRICAL CHARACTERISTIC OF EQUIPMENT (SUCH AS HORSEPOWER, KW, AMPERAGE, VOLTAGE, ETC.) SUBMITTED MAY DIFFER FROM THOSE SPECIFIED IN DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND OTHER CONTRACTORS TO ENSURE COMPATIBILITY BETWEEN ELECTRICAL AND MECHANICAL EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
- 10. USE LONG-SWEEPS ELBOWS FOR ALL CHANGES IN DIRECTION ON CONDUIT
- 11. ALL INTERIOR RACEWAYS SHALL BE EMT.
- 12. FIELD VERIFY PROJECT SITE EXISTING CONDITIONS AND ELEVATIONS PRIOR TO BEGINNING ANY WORK.
- 13. PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER DRAWINGS AND SPECIFICATIONS.
- 14. ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR. INCLUDE ALL COSTS OF CHANGES, IF/AS REQUIRED IN BID PROPOSAL.
- 15. ELECTRICAL WIRING SHALL NOT BE SPLICED BELOW GRADE.
- 16. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF
- 17. NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
- 18. COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
- 19. SEAL AROUND ELECTRICAL RACEWAYS AT ALL WALLS AND WALL LOUVER PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.
- 20. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND ELECTRICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
- 21. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
- 22. AFFIX ID TAGS TO ALL DIVISION 26 EQUIPMENT.
- 23. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
- 24. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
- 25. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
- 26. SLEEVE ALL EXTERIOR WALL PENETRATIONS.
- 27. ALL UNDERGROUND RACEWAYS SHALL BE SCH. 40 PVC.
- 28. PRIOR TO ANY DEMOLITION, CONTRACTOR SHALL CONDUCT A DETAILED INSPECTION OF EXISTING CONDITIONS AND COMPARE AGAINST DEMOLITION DRAWINGS. CONTRACTOR SHALL REQUEST CLARIFICATION AS TO THE REMOVAL OF ANY ELECTRICAL COMPONENTS FOUND IN THE FIELD THAT ARE NOT SPECIFICALLY NOTED TO BE DEMOLISHED.
- 29. PROVIDE ADDITIONAL SPARE MATERIALS DESCRIBED BELOW. PROVIDE PROTECTIVE COVERING FOR STORAGE & IDENTIFIED WITH LABELS DESCRIBING THE CONTENTS. INCLUDE THE INSTALLATION COST, FITTINGS AND SUPPORTS IN THE BASE BID PROPOSAL: A. 250 LINEAR FEET - 1" RMC RACEWAY
- B. 250 LINEAR FEET 1" PVC SCH. 40 RACEWAY C. 250 LINEAR FEET — TRENCHING AND BACKFIL
- 30. PRIOR TO SUBMITTING BID CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND MAKE PROVISION IN THEIR BID FOR CONDITIONS. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE CONSIDERED JUSTIFICATION FOR THE OMISSION OF FAULTY INSTALLATION OF ANY WORK COVERED BY THE CONTRACT DOCUMENTS.
- 31. IN THE EVENT A CONFLICT BETWEEN AND/OR SPECIFICATIONS ARISES, THE GREATER AMOUNT OF TOTAL COST SHALL BE PRICED. CONFLICT SHALL BE PRESENTED TO ENGINEER FOR FURTHER DIRECTION(S).
- 32. DRAWINGS ARE SCHEMATIC IN NATURE AND NOT NECESSARILY REFLECT ALL WORK REQUIRED TO COMPLETE PROJECT. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT AS REQUIRED TO COMPLETE PROJECT WITHIN DESIGN INTENT AT NO ADDITIONAL COST TO OWNER.

# SCOPE OF WORK

1. GENERAL: THE "IDEA PUBLIC SCHOOLS EXTERIOR FENCING IMPROVEMENTS" CONSISTS OF EXISTING SINGLE STORY BUILDING. THESE BUILDINGS WILL GENERALLY BE OPERATED FROM 7:00AM TO 6:00PM. (MONDAY THROUGH FRIDAY) WITH OCCASIONAL AFTER HOURS AND WEEKENDS USE. 2. ELECTRICAL: PROVIDE ALL MATERIALS AND LABOR ASSOCIATED WITH COMPLETE OPERATIONAL ELECTRICAL DISTRIBUTION SYSTEM. MAJOR ITEMS OF WORK INCLUDE, BUT ARE NOT LIMITED TO:

#### (a) ELECTRICAL SERVICE: TO REMAIN AS IS.

- (b) POWER SYSTEMS: PROVIDE CONNECTIONS AND POWER FOR DOOR ACCESS EQUIPMENT.
- (c) ACCESS CONTROL SYSTEM: EXPAND EXISTING VERKADA SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES, INCLUDING HARDWARE AND SOFTWARE. PROVIDE DOOR READERS FOR NEW SECURITY GATES ON ENTRY SIDE. CONNECT NEW DOOR HARDWARE TO EXISTING DOOR CONTROLLERS OR PROVIDE NEW IF NECESSARY. COORDINATE WORK WITH DOOR HARDWARE SUBCONTRACTOR.
- (d) ALL WIRING ABOVE ACCESSIBLE CEILING SHALL BE SECURED VIA J-HOOKS.
- (e) BELOW CEILINGS METAL STUDS WALLS (ACCESSIBLE WALL CAVITY): WHEN THIS CONDITION EXISTS, ALL WIRING SHALL BE MC CABLE TYPE CONCEALED INSIDE THE WALL CAVITY.
- (f)BELOW CEILING CMU WALL (NON-ACCESSIBLE WALL CAVITY): CONTRACTOR TO PROVIDE ONE-PIECE METAL SURFACE RACEWAY (PAINTED TO MATCH EXISTING FINISH) WITH ALL ASSOCIATED FITTINGS AND BOXES TO CONCEAL ALL WIRING.

### **ACCESS CONTROL GENERAL NOTES:**

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. SECURITY CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT AND REMOTE POWER SUPPLIES (TYPICAL).
- 2. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILES.
- 3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONDUIT, SLEEVES, AND PROTECTIVE BUSHINGS REQUIRED TO INSTALL COMPLETE SECURITY SYSTEM. PROVIDE ALL CONDUITS REQUIRED AT EXTERIOR DOORS ANNOTATED WITH DOOR CONTACTS OR CARD READERS TO ALLOW FOR INSTALLATION OF DOOR CONTACT POSITION SENSORS AND CARD READERS.
- 4. SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE MONITORING SERVICE.
- 5. ALL EXPOSED SECURITY SYSTEMS WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE
- 6. ENSURE ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.
- 7. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.
- 8. ALL LOW VOLTAGE CABLING SHALL BE INDIVIDUALLY ROUTED TO HEAD END POINT AND SUPPORTED IN PROPER CABLE SUPPORT SYSTEM FOR ENTIRE LENGTH OF RUN.
- 9. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE

#### **CEILING GENERAL NOTES:**

- 1. PRIOR TO REMOVAL OF CEILINGS REQUIRED FOR NEW ELECTRICAL WORK PREPARE REFLECTED CEILING PLAN SKETCH SHOWING LOCATIONS OF ALL CEILING COMPONENTS AND DEVICES TO BE RE-USED INCLUDING BUT NOT LIMITED TO: EXISTING LIGHT FIXTURES. SPEAKERS. FIRE ALARM DEVICES. EMERGENCY LIGHTING. WIRELESS ACCESS POINTS, ETC. IF ANY OF THE ABOVE ITEMS ARE IN NON-WORKING CONDITION, SUBMIT A WRITTEN REPORT TO OWNER/ENGINEER.
- 2. CONTRACTOR TO EVALUATE CEILING GRID PRIOR TO REMOVAL AND DOCUMENT ALL BROKEN, CRACKED, MISSING TILES, ETC. AND PROVIDE REPORT TO OWNER AND
- 3. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THEIR OWN ROUTES FROM SECURED ENTRIES TO DOOR CONTROLLERS.
- 4. CONTRACTOR IS RESPONSIBLE FOR REPLACING TILES DAMAGED DURING PERFORMING

#### GENERAL SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	UNDERGROUND RACEWAY	AS REQUIRED
	CONCEALED RACEWAY	AS REQUIRED

# ABBREVIATIONS:

ABC	ABOVE CEILING LINE	EMT	ELECTRICAL METALLIC TUBING
ACP	ACCESS CONTROL PANEL	EX	EXISTING
AFF	ABOVE FINISHED FLOOR	RMC	RIGID METAL CONDUIT
ALT	ALTERNATE	NTS	NOT TO SCALE
В.	воттом	PNL	PANELBOARD
BLC.	BELOW CEILING LINE	RM.	ROOM
C.	CONDUIT OR COMMON	U.N.O	UNLESS NOTED OTHERWISE
CLG.	CEILING OR COOLING	WP	WEATHER PROOF
COND.	CONDUIT		

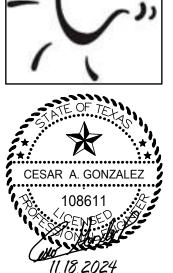


o. | REVISIONS | BY



GMS ARCHITEC

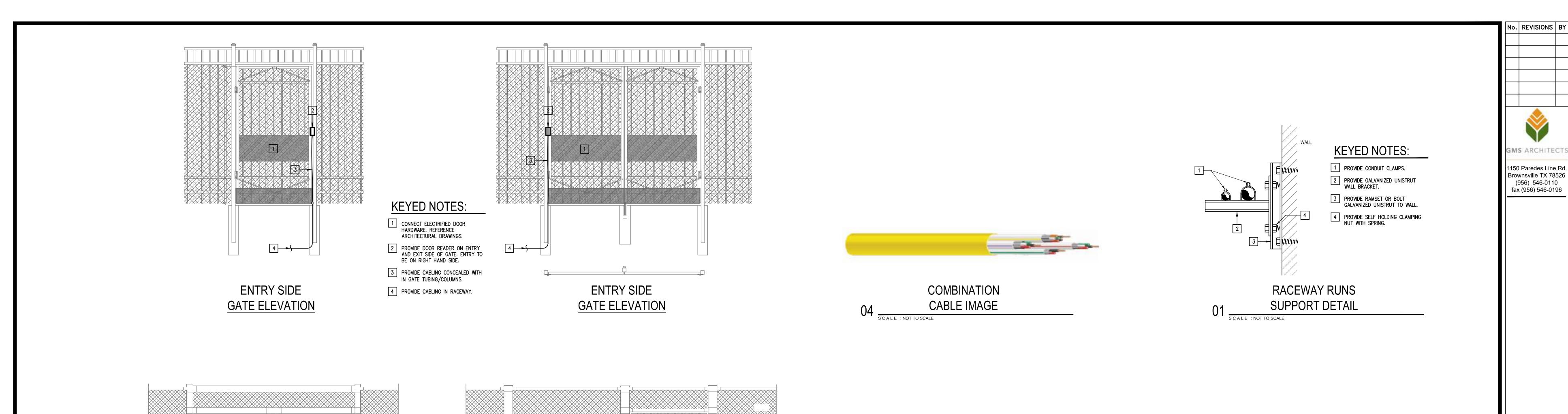
1150 Paredes Line Rd Brownsville TX 78526 (956) 546-0110 fax (956) 546-0196

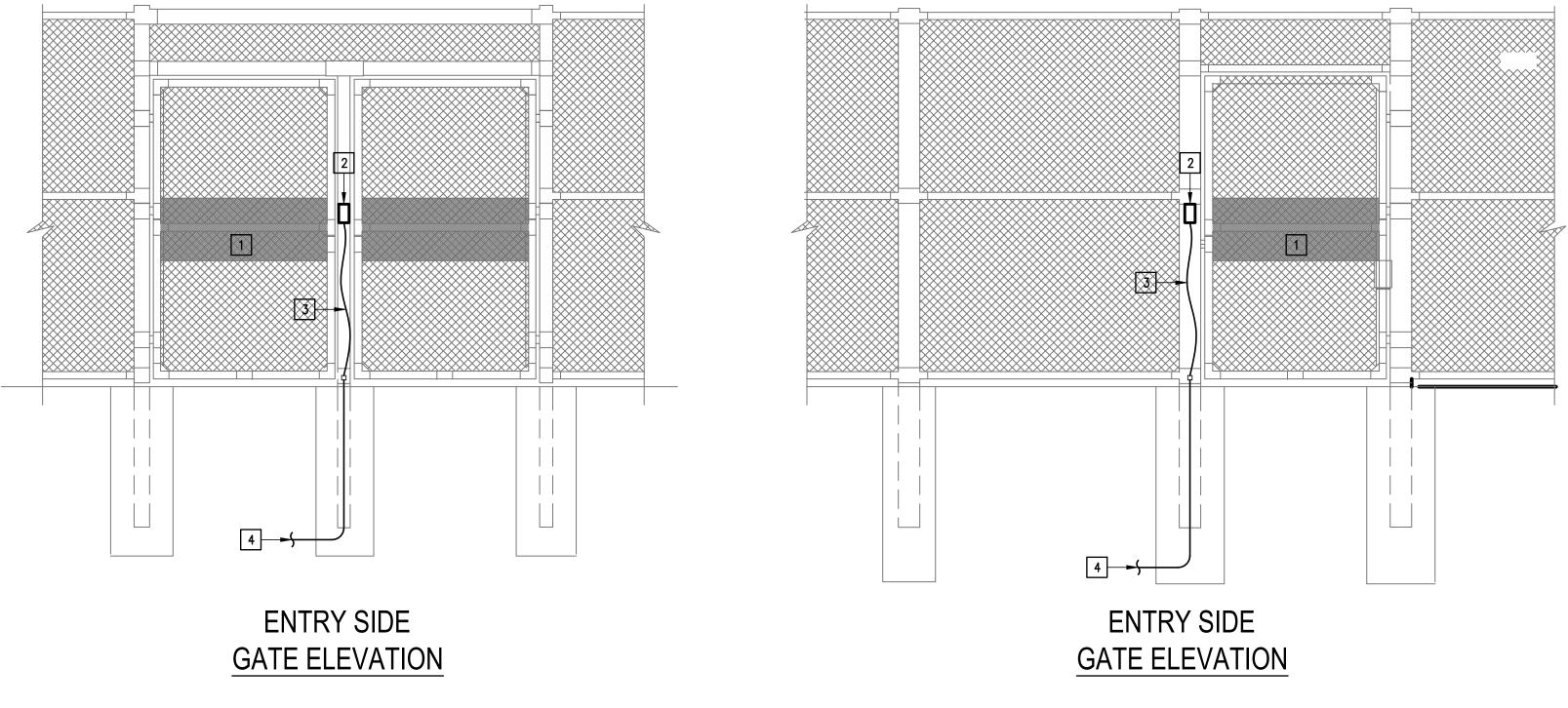


© Copyright 2024 Gomez Mendez Saenz Ind Architects-Planners

November 18,202

IDEA Exterior Fencing

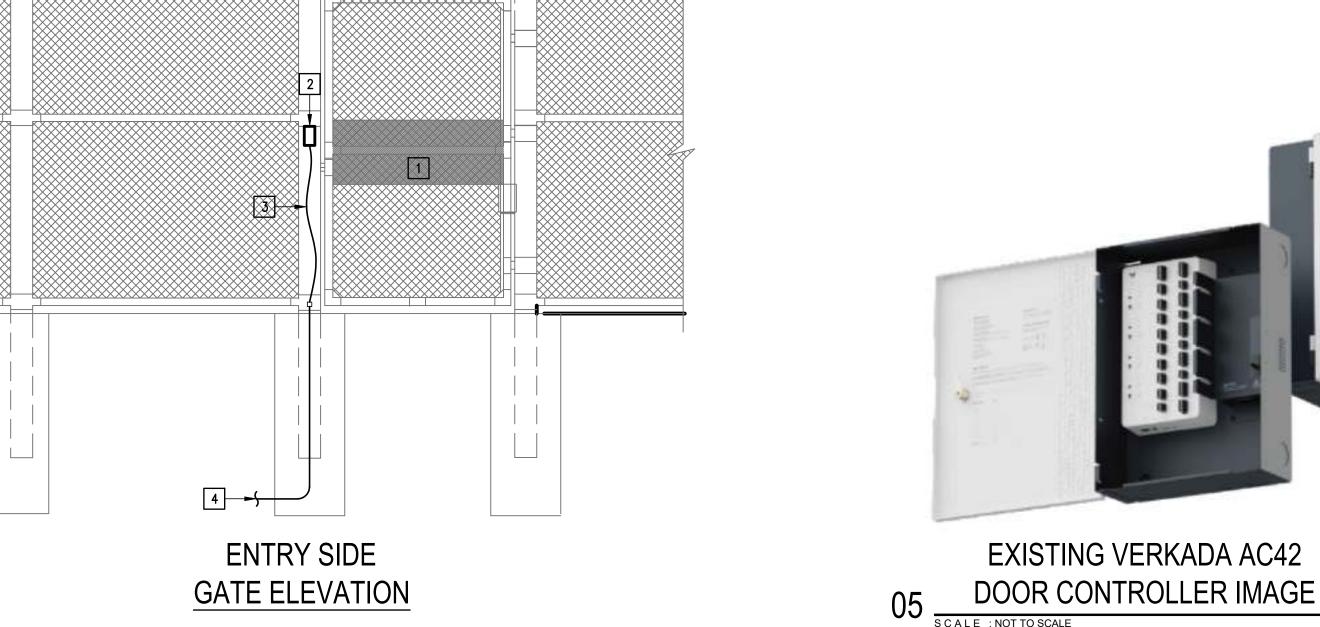


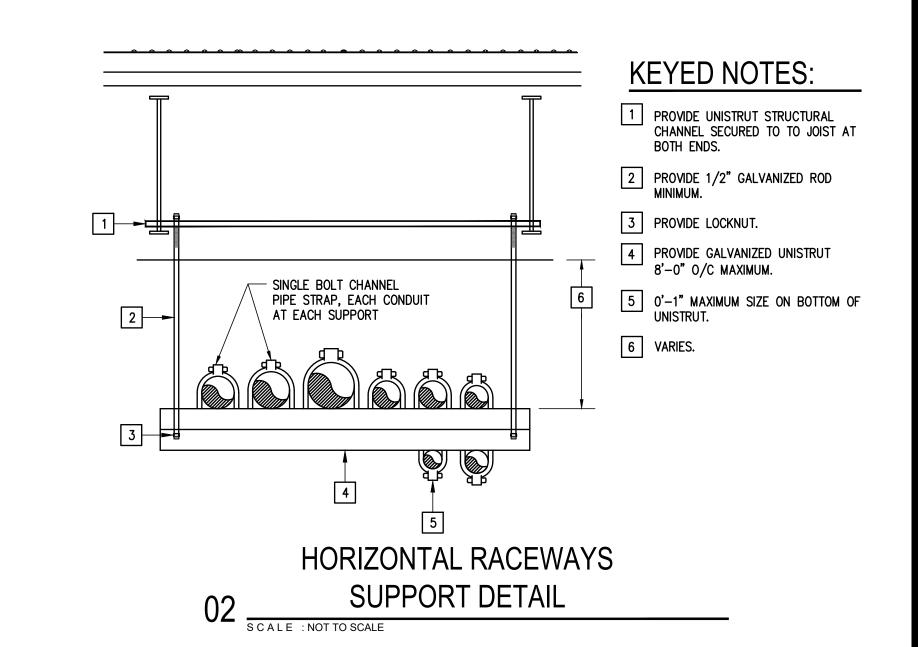


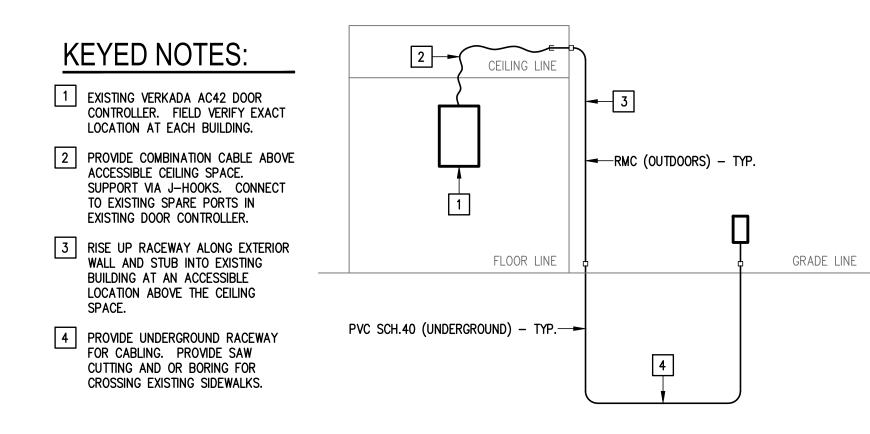
SECURED ENTRY

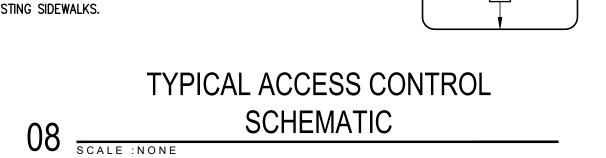
**DETAILS** 

S C A L E : NOT TO SCALE

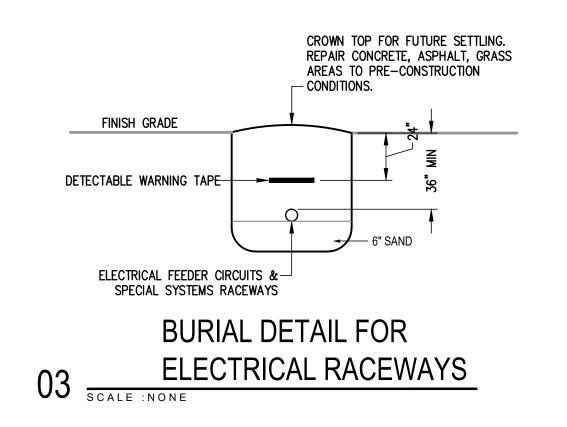














TT %

IMPR

© Copyright 2024
Gomez Mendez Saenz Inc. Architects-Planners

November 18,202 Roan Gomez, Al IDEA Exterior Fencing

