



July 22, 2013

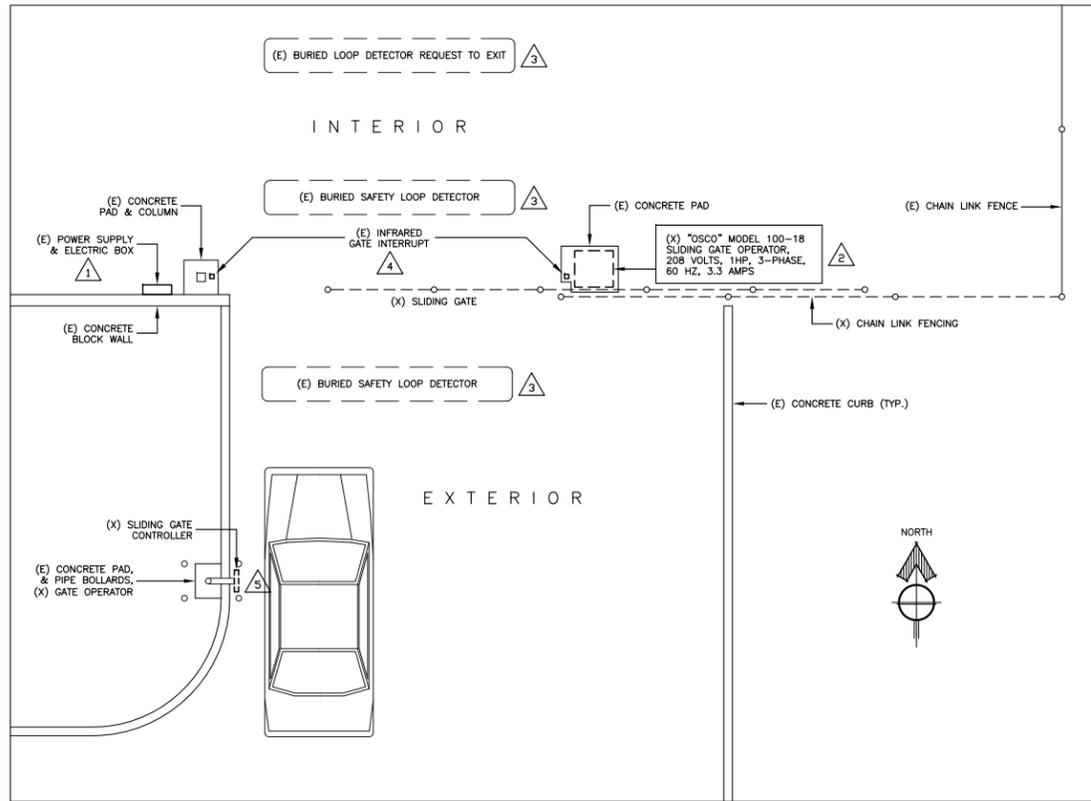
CBJ Bldg. Permit No. _____

ELECTRICAL DEMOLITION NOTES

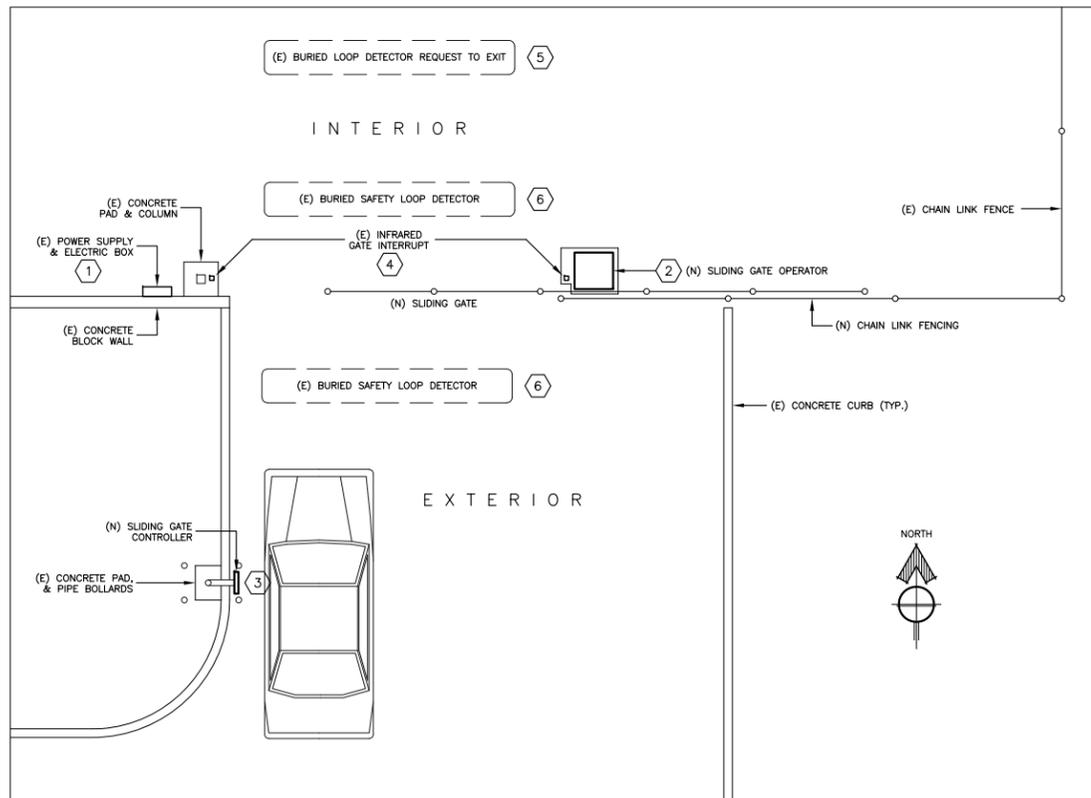
- 1 RETAIN THE EXISTING ELECTRIC POWER SUPPLY JUNCTION/TERMINATION BOX AND THE ASSOCIATED WIRING BACK TO THE ORIGINATING PANEL.
- 2 REMOVE THE EXISTING GATE OPERATOR AND WIRING AS REQUIRED TO INSTALL THE NEW EQUIPMENT.
- 3 RETAIN THE EXISTING BURIED LOOP DETECTORS AND THE ASSOCIATED WIRING BACK TO THE CONTROLLER/OPERATOR LOCATION.
- 4 RETAIN THE EXISTING INFRARED GATE INTERRUPTER DEVICES AND THE ASSOCIATED WIRING BACK TO THE OPERATOR LOCATION.
- 5 REMOVE THE EXISTING GATE CONTROLLER AND THE ASSOCIATED ELECTRICAL POWER AND CONTROL WIRING AS REQUIRED TO INSTALL THE NEW EQUIPMENT.

ELECTRICAL NEW WORK NOTES

- 1 RETAIN THE EXISTING ELECTRIC POWER SUPPLY JUNCTION/TERMINATION BOX AND THE ASSOCIATED WIRING BACK TO THE ORIGINATING PANEL.
- 2 PROVIDE CONNECTION OF THE NEW GATE OPERATOR AND THE ASSOCIATED ELECTRICAL POWER AND CONTROL WIRING AS REQUIRED TO INSTALL THE NEW EQUIPMENT.
- 3 PROVIDE RECONNECTION OF THE EXISTING GATE CONTROLLER AND THE ASSOCIATED WIRING BACK TO THE NEW OPERATOR.
- 4 PROVIDE RECONNECTION OF THE EXISTING INFRARED GATE INTERRUPTER DEVICES AND THE ASSOCIATED WIRING BACK TO THE NEW OPERATOR.
- 5 PROVIDE RECONNECTION OF THE EXISTING REQUEST TO EXIT BURIED LOOP DETECTOR AND THE ASSOCIATED WIRING BACK TO THE NEW OPERATOR. SEE DETAIL F/A5.
- 6 PROVIDE RECONNECTION OF THE EXISTING BURIED LOOP DETECTORS AND THE ASSOCIATED WIRING BACK TO THE NEW OPERATOR. SEE DETAIL F/A5.



A JPD GATE DEMOLITION PLAN
SCALE: 3/16" = 1'-0"



B JPD NEW GATE PLAN
SCALE: 3/16" = 1'-0"

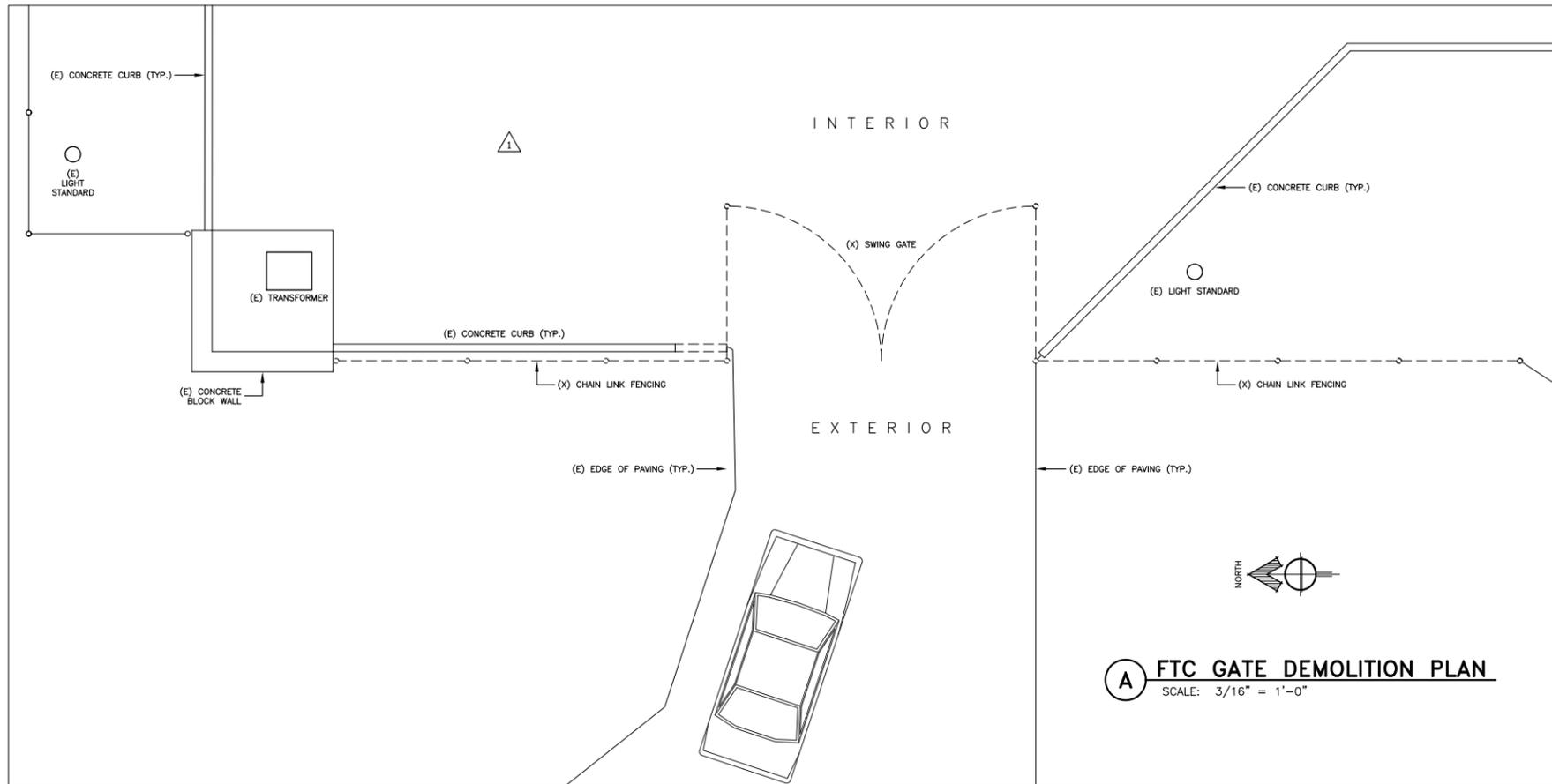
CONSTRUCTION DOCUMENTS
JPD & FTC - SECURITY ACCESS GATE INSTALLATION
6255 Alaway Avenue - 2601 Sherwood Lane
Juneau, Alaska 99801

Number	Date	By	Description of Revisions

Sheet Title
**JUNEAU POLICE DEPT:
GATE DEMOLITION &
NEW GATE PLANS &
NOTES**

Scale AS SHOWN (HALF SCALE AT 11X17)
Designed PG Drawn AER / PG
Date 7-22-13 Checked PG
Approved By PG Job Number AER23

Sheet Number



A FTC GATE DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

ELECTRICAL DEMOLITION NOTE

THERE IS NO ELECTRICAL DEMOLITION FOR THIS PORTION OF THE PROJECT.

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CBJ PROJECT NO.: E14-018
CITY AND BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY



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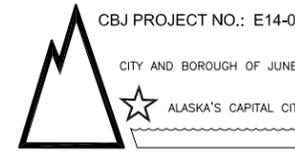
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ACCESS GATE INSTALLATION**
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**FIRE TRAINING CENTER:
GATE DEMOLITION PLAN**

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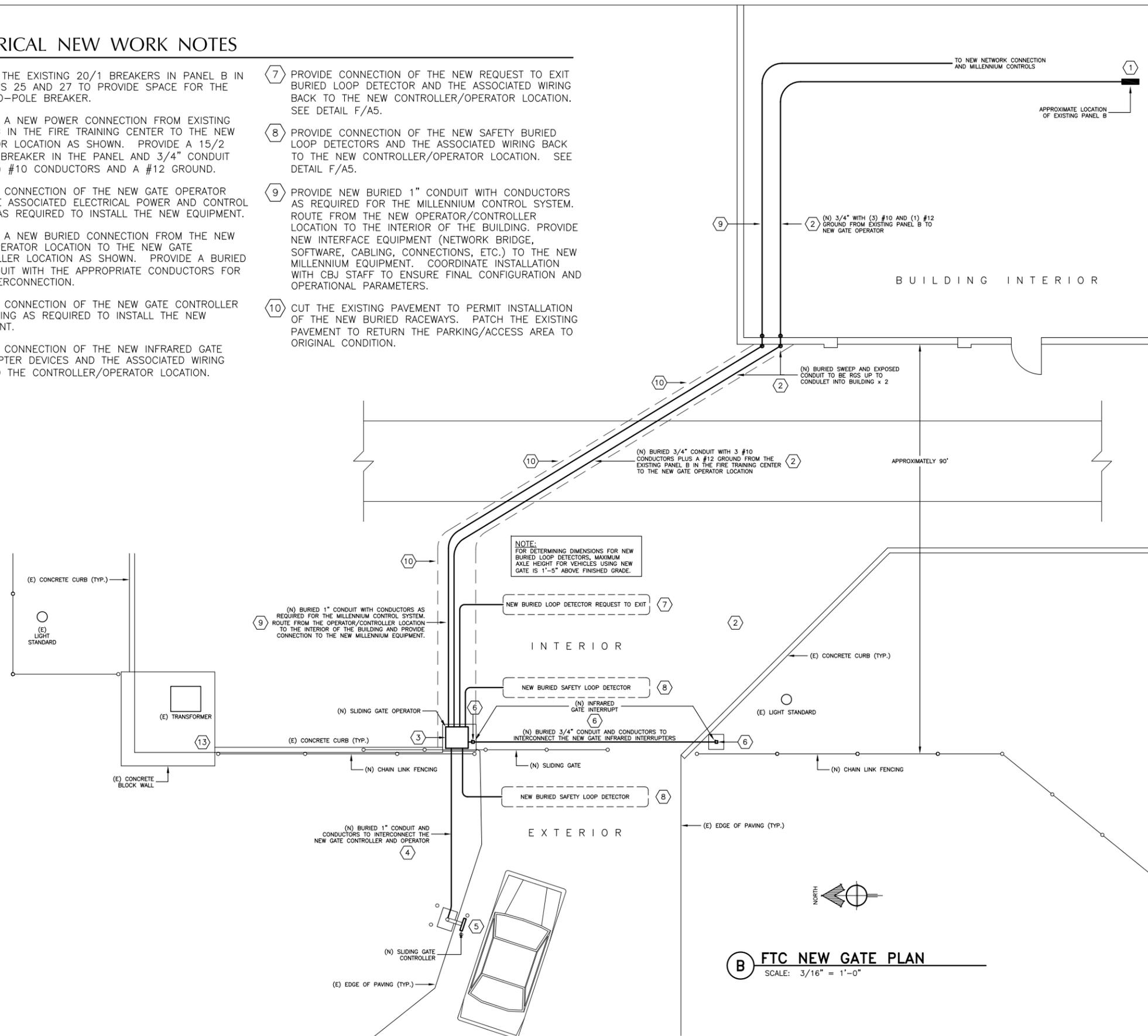


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ELECTRICAL NEW WORK NOTES

- 1 REMOVE THE EXISTING 20/1 BREAKERS IN PANEL B IN POSITIONS 25 AND 27 TO PROVIDE SPACE FOR THE NEW TWO-POLE BREAKER.
- 2 PROVIDE A NEW POWER CONNECTION FROM EXISTING PANEL B IN THE FIRE TRAINING CENTER TO THE NEW OPERATOR LOCATION AS SHOWN. PROVIDE A 15/2 CIRCUIT BREAKER IN THE PANEL AND 3/4" CONDUIT WITH (3) #10 CONDUCTORS AND A #12 GROUND.
- 3 PROVIDE CONNECTION OF THE NEW GATE OPERATOR AND THE ASSOCIATED ELECTRICAL POWER AND CONTROL WIRING AS REQUIRED TO INSTALL THE NEW EQUIPMENT.
- 4 PROVIDE A NEW BURIED CONNECTION FROM THE NEW GATE OPERATOR LOCATION TO THE NEW GATE CONTROLLER LOCATION AS SHOWN. PROVIDE A BURIED 1" CONDUIT WITH THE APPROPRIATE CONDUCTORS FOR THE INTERCONNECTION.
- 5 PROVIDE CONNECTION OF THE NEW GATE CONTROLLER AND WIRING AS REQUIRED TO INSTALL THE NEW EQUIPMENT.
- 6 PROVIDE CONNECTION OF THE NEW INFRARED GATE INTERRUPTER DEVICES AND THE ASSOCIATED WIRING BACK TO THE CONTROLLER/OPERATOR LOCATION.
- 7 PROVIDE CONNECTION OF THE NEW REQUEST TO EXIT BURIED LOOP DETECTOR AND THE ASSOCIATED WIRING BACK TO THE NEW CONTROLLER/OPERATOR LOCATION. SEE DETAIL F/A5.
- 8 PROVIDE CONNECTION OF THE NEW SAFETY BURIED LOOP DETECTORS AND THE ASSOCIATED WIRING BACK TO THE NEW CONTROLLER/OPERATOR LOCATION. SEE DETAIL F/A5.
- 9 PROVIDE NEW BURIED 1" CONDUIT WITH CONDUCTORS AS REQUIRED FOR THE MILLENNIUM CONTROL SYSTEM. ROUTE FROM THE NEW OPERATOR/CONTROLLER LOCATION TO THE INTERIOR OF THE BUILDING. PROVIDE NEW INTERFACE EQUIPMENT (NETWORK BRIDGE, SOFTWARE, CABLING, CONNECTIONS, ETC.) TO THE NEW MILLENNIUM EQUIPMENT. COORDINATE INSTALLATION WITH CBJ STAFF TO ENSURE FINAL CONFIGURATION AND OPERATIONAL PARAMETERS.
- 10 CUT THE EXISTING PAVEMENT TO PERMIT INSTALLATION OF THE NEW BURIED RACEWAYS. PATCH THE EXISTING PAVEMENT TO RETURN THE PARKING/ACCESS AREA TO ORIGINAL CONDITION.



B FTC NEW GATE PLAN
SCALE: 3/16" = 1'-0"

CONSTRUCTION DOCUMENTS

JPD & FTC - SECURITY ACCESS GATE INSTALLATION

6255 Alaway Avenue - 2601 Sherwood Lane
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ELECTRICAL SPECIFICATIONS

SECTION 16000 - SCOPE OF WORK

GENERAL REQUIREMENTS: This project requires the installation of new electrical components, in accordance with these Specifications, for the new gate installations at the Juneau Police Department and Hagevig Fire Training Center in Juneau, Alaska.

DESCRIPTION OF ELECTRICAL SYSTEMS:

• Demolition: As required for the electrical demolition and new construction, remove the existing connection to the existing gate operator at the Juneau Police Department site and all related equipment, appurtenances and controls not intended for reuse. No electrical demolition is required at the Hagevig Fire Training Center.

• Distribution: Provide new connections to the new and reused equipment at the Juneau Police Department site. Provide a new branch circuit from the existing panelboard for the new gate operator at the Hagevig Fire Training Center. Also provide new connections to the new equipment at the Hagevig Fire Training Center site. All branch circuits shall be run in metallic conduit unless completely buried. Provide separate equipment grounding conductors in all runs.

• Equipment: Provide final electrical connection to all architectural or Owner-furnished equipment specified herein or provided by others. Include disconnects, overcurrent protection, flexible connections, access and guards as required by these Specifications and pertinent codes.

COORDINATION: The Electrical Contractor shall review the Contract Documents of other trades involved in the Project and shall coordinate the installation of electrical features with the work of all other trades. Where conflicts are likely with structural, mechanical or other features, perform the electrical installation after the other trades and arrange to eliminate conflicts.

SECTION 16010 -- GENERAL PROVISIONS

DEFINITIONS

Accepted/Approved:	Shall mean accepted by the Project Representative.
Project Representative:	Shall mean the Owner-authorized representative.
Furnish:	Shall mean deliver to the project site.
Install:	Shall mean build into the work, including connections and all parts considered incidental to a complete installation.
Provide:	Shall mean furnish and install complete.
Work or Project:	Shall mean all work required by the Contract Agreement.

ABBREVIATIONS AND INITIALS: Any or all of the following may appear in the Specifications, and shall be applied per the following explanations:

AHJ	Authority Having Jurisdiction
AIC	Amperes Interrupting Capacity (RMS Symmetrical)
ANSI	American National Standards Institute
AWG	American Wire Gauge Size
EMT	Electrical Metallic Tubing
GND	Ground
HP	Horsepower
NEC	National Electrical Code
NECA	National Electrical Contractors Association, Inc.
NEMA	National Electrical Manufacturers Association
NIC	Not In Contract
OSHA	Occupational Safety and Health Administration
RGS	Rigid Galvanized Steel Conduit
UL	Underwriters Laboratories

SECTION 16012 -- SUBMITTALS

CONTRACTOR'S CERTIFICATION: Each submittal shall contain a certification stating that the Electrical Contractor has reviewed the list and the items proposed conform to the Contract requirements. The certification shall be signed by the Alaska Electrical Administrator's license holder, and a copy of the license shall be included.

GENERAL: Prior to the purchase of any materials or equipment, the Contractor shall submit to the Project Representative for acceptance data completely describing all items intended for use in the work. This data shall include the manufacturer and identifying number or nomenclature; the manufacturer's published data as to size, capacity, power requirements and dimensions; and such other information as necessary to properly describe each item. Catalog cuts fulfilling these requirements will be considered appropriate for this application. Such "commodity" items as those covered by Sections 16110, 16120, 16130, 16131, 16190, and 16450 need not be submitted if they are being provided exactly as specified.

SECTION 16020 -- WORK INCLUDED

GENERAL: Provide all work designated in these specifications for a complete, safe and functional installation. Unless otherwise noted, all materials shall be of new manufacture, American-made, of the manufacturer's standard construction for the application. The omission of express reference to any part, supplies, services, or facilities necessary for or incidental to a complete installation shall not be construed as a release from furnishing such items. Any deviations from the installation due to a particular manufacturer's requirements shall be made without additional cost to the Owner.

INSTALLATION: All materials shall be installed in a neat, orderly and secure fashion, as required by these specifications and commonly recognized standards of good workmanship, for which the Project Representative's judgment shall be final. In addition to the access and clearance requirements of the NEC, all items normally considered to be factory or field-serviceable shall be installed in such a manner as to be easily and safely accessible and removable without dismantling surrounding construction.

PROTECTION AND CLEANING: All electrical materials and equipment shall, both in shipment and during the entire duration of construction work, be protected against water, dust, debris, over-spray or any other contamination or damage, whether environmental in origin or as a result of handling or construction work. Any damaged items shall be replaced or repaired to original manufactured condition, at no additional cost to the Owner. All construction dust, debris, over-spray, scrap and surplus materials, etc. resulting from this work shall be cleared away, leaving the installation in completely clean condition.

WIRING OF UTILIZATION EQUIPMENT: Where equipment arrangement varies, making necessary additional disconnect switches in order to comply with the NEC, such disconnects shall be provided at no additional cost to the Owner. Prior to ordering materials or performing the installation, the Electrical Contractor shall verify the sizes, configurations, and locations of all equipment, to ensure that all required connections are correctly provided.

REPAIR OF EXISTING FEATURES: Where previously completed building surfaces or other features must be cut, penetrated or otherwise altered for the installation of electrical features, such work shall be carefully laid out and performed. The Owner shall provide and coordinate subsequent patching or repairs to be performed by skilled mechanics of the trades involved.

WORK INCIDENTAL TO SUBSTITUTIONS: When substitutions for specified methods or materials alter the relationship between the work actually required and that called for by the Specifications, the Contractor shall bear responsibility for all expenses incurred by any necessary revisions, including the work of other trades.

SECTION 16025 -- CODES AND FEES

CODES: All work shall comply with the latest editions of:

- The National Electrical Code (NEC).
- The National Electrical Safety Code (NESC).
- The NFPA Codes.
- OSHA Regulations.
- The International Building Code (IBC).
- The International Fire Code (IFC).
- Americans with Disabilities Act Accessibility Guidelines (ADAAG)
- All applicable Federal, State, and Local laws and regulations.

PERMITS AND FEES: The Contractor shall obtain and pay for all permits and connection fees required for the work in this Division.

OTHER STANDARDS: Unless otherwise noted or specified, all materials and work shall be in conformance with the applicable standards of the following organizations:

- American National Standards Institute (ANSI).
- American Society for Testing and Materials (ASTM).
- Institute of Electrical and Electronic Engineers (IEEE).
- National Electrical Contractors Association (NECA).
- National Electrical Manufacturers' Association (NEMA).
- Underwriters Laboratories (UL) or Factory Mutual (FM).

SECTION 16030 - TESTS AND INSPECTIONS

SCOPE: In addition to any tests required elsewhere in these Specifications, the Engineer may require appropriate tests and/or uncovering of any electrical features whose integrity he has reason to doubt. Such tests may include, but are not limited to, continuity, circuit resistance, and insulation resistance of circuits and equipment, including wires, cables, and grounding. Where such tests or uncovering are required, the Contractor shall furnish all personnel, equipment, and services necessary to conduct the tests, and/or uncovering and subsequent reconstruction.

In addition to any inspections required elsewhere in these specifications or requested by the Owner, the Engineer may conduct periodic inspections of the work as deemed appropriate. For all inspections, the Contractor shall make available qualified electrical personnel to answer questions, demonstrate operation of completed features of the work, provide safe access to enclosures, and the like.

SECTION 16031 - SYSTEM DEMONSTRATIONS

GENERAL: At a mutually agreed-upon time, as close as possible to the time of Beneficial Occupancy of the Project by the Owner, the Contractor shall instruct the Owner's maintenance personnel in the proper operation and maintenance of the electrical system.

The demonstrations shall cover the operation of all controls, protective devices, and the like, including emergency procedures.

The demonstrations shall involve all relevant systems including the electrical distribution system, the lighting system and all controls, the fire alarm system, the telephone system and the security system.

The demonstrations shall cover all preventive maintenance items that the Owner's personnel should routinely perform and shall continue for the length of time necessary to familiarize the Owner's personnel with the required items specified above.

DOCUMENTATION: Upon completion of the demonstrations, the Contractor shall prepare a written statement for the Owner's signature, attesting to the fact that the demonstrations were successfully completed and all equipment performed properly. A signed copy of this statement shall be bound into each copy of the Operation and Maintenance Manuals.

SECTION 16032 -- O & M MANUALS, AS-BUILTS

OPERATION & MAINTENANCE MANUALS: The electrical Contractor shall submit for review two (2) copies of Operation and Maintenance Manuals for the project. These manuals shall be bound and shall include:

- All information covered by the final accepted submittals, modified as necessary to reflect the final as-built condition.
- Complete listings of repair and replacement parts for all equipment, and names and addresses of the suppliers from which the equipment was obtained.
- Complete listing of all equipment that may require periodic servicing, with recommended schedules and complete instructions for performing said servicing. Service instructions shall include complete English-language narrative descriptions and illustrations necessary to describe all service operations.

AS-BUILT DRAWINGS: The Electrical Contractor shall at all times keep a current set of Contract Drawings on the project site. This set shall be kept in good condition, and shall be neatly and accurately marked to show the as-built condition of the electrical installation. Of particular importance are the precise locations of concealed features such as conductors, raceways and junction boxes. Upon completion of the project, the field-marked set of drawings shall be forwarded to the Project Representative, along with any supplementary drawings, sketches, notes or other materials necessary to completely describe the as-built condition of the electrical installation.

SECTION 16040 -- IDENTIFICATION

EQUIPMENT LABELING: Panelboards, disconnect switches, switches, circuit breakers and the like shall be labeled with laminated plastic labels engraved with white letters on black background. Lettering shall be block style, 1/4" tall, except where space limitations, drawing notes, or other requirements dictate otherwise. Labels shall be secured with pop rivets or fasteners per 16190. Adhesive attachment is not acceptable. Temporary markings will not be permitted to remain on equipment; they shall be removed, and any defaced finishes repaired to match original manufactured condition.

CONDUCTORS: All conductors in pull or junction boxes or other enclosures shall be permanently and legibly tagged or labeled with panel and circuit numbers or other data that clearly identifies their origin, function, and destination.

SECTION 16110 -- RACEWAYS

APPLICATIONS: All conductors shall be run in metal raceways as follows:

- Raceways Outdoors Buried in Ground: RGS Conduit or Schedule 80 PVC Conduit
- Raceways Exposed Outdoors: RGS Conduit
- Branch Raceways In Heated Areas Above Slab on Grade: EMT or MC Cable
- The final connection to any motor or other rotating or vibrating equipment, or equipment which may require position adjustment after installation, shall be made through a slack section of liquidtight flexible metal conduit 18" to 36" long.

LAYOUT: Raceways shall be concealed within finished walls and ceilings and as otherwise noted. Exposed raceways shall be run square with the building lines. Concealed raceways may be run in direct lines where practical.

ASSEMBLY: Raceways shall be physically and electrically continuous from enclosure to enclosure. Electrical continuity for non-metallic conduits shall be ensured by inclusion of an NEC-sized grounding conductor. For metallic conduits, all joints and fittings shall be free of foreign materials and made up wrench tight.

SECTION 16120 -- WIRE AND CABLE

CONDUCTORS: All conductors shall be copper. Conductors #10 AWG and smaller may be solid, unless otherwise noted or specified in a product that is only available stranded. Conductors #8 AWG or larger shall be stranded.

INSULATION TYPES: Branch circuit conductors shall be 600 volt insulated, and unless otherwise noted, shall have Type THHN/THWN or XHHW insulation. Exterior location conductors shall have Type XHHW-2 insulation. Nylon-jacketed conductors shall not be used in any location subject to ambient temperatures below 32°F.

SECTION 16130 -- OUTLET BOXES

LAYOUT: Provide outlet boxes for connection of branch circuits to equipment and devices as specified herein. Boxes shall be the products of Raco, Steel City, Appleton, Crouse-Hinds, or accepted equal.

INSTALLATION: Outlet boxes shall be installed plumb with, and securely fastened to, the structural framing of the surrounding construction.

SECTION 16131 -- PULL AND JUNCTION BOXES

GENERAL: Where necessary in raceway systems to facilitate conductor installation or to redirect raceway runs, provide conduit bodies or pullboxes as further specified herein. At the minimum, raceway runs shall have a pullbox or conduit body every 100 feet or after every 270° of bends, whichever comes first. Where otherwise necessary to tap or terminate raceway runs, provide junction boxes as specified herein.

LAYOUT: Unless otherwise noted, pull and junction boxes shall be sized according to NEC requirements for the number, size and entry configuration of the conduits and conductors entering.

INSTALLATION: Pull and junction boxes shall not be installed in visible locations in finished areas unless specifically called for or accepted by the Project Representative. Pull and junction boxes shall be securely fastened to the building structure by means independent of the raceways entering.

SECTION 16150 - MOTORS

SCOPE: Motors are furnished with the driven equipment, under other Divisions of these Specifications, unless otherwise noted. Complete connection shall be provided under this Division.

OTHER CHARACTERISTICS: Motor housings shall be open drip-proof, TEFC, or explosion proof, as appropriate for the use intended and the environment where installed, or as noted. All motors shall draw no more than nameplate amperage (not service factor amperage) when operating driven equipment within both the mechanical and electrical design parameters for this project.

SECTION 16170 - DISCONNECTS

SCOPE: Provide disconnect switches for motors and other circuits, as specified herein.

SUBMITTAL REQUIREMENTS: Provide submittal data, per Section 16012, for all disconnect switches.

DISCONNECT SWITCHES, GENERAL: Unless otherwise noted, disconnect switches shall have the proper NEMA enclosure to suit the location. Each disconnect shall be rated for the proper voltage to suit the circuit. Motor disconnects shall be sized according to their standard, not maximum, ratings.

Provide each disconnect with quick-make/quick-break mechanisms to disconnect all ungrounded conductors. Switch handle positions shall be marked to indicate the ON and OFF conditions. Handles shall be capable of being locked in the OFF or open position. Interlock each cover with the handle to prevent opening the cover while the switch is ON. Provide a means to permit qualified personnel to defeat this feature.

Disconnects shall be heavy duty rated switches. Fusible switches shall be suitable for use with "Class R" rejection feature fuses, unless otherwise noted. Where disconnects are not readily accessible, they shall be of the non-fusible type, and fusible protection for the circuit shall be provided in an accessible location.

INSTALLATION: Install disconnects in locations as required and utilize fastening hardware as specified herein. Ensure adequate operational and code required clearances are maintained. Install the correct number and size of fuses to comply with equipment requirements.

SECTION 16180 -- OVERCURRENT DEVICES

CIRCUIT BREAKERS: Unless otherwise noted, circuit breakers shall be of the molded-case thermal-magnetic type, with the size, number of poles and interrupting capacity as required by the installation. Ampere ratings shall be clearly visible, even when the breaker is installed in its appropriate enclosure. Each breaker pole shall provide both instantaneous and inverse-time tripping, with tripping clearly indicated, and a common-tripping tie to any other poles in the same breaker. Breakers shall be operated by a toggle handle and shall have a quick-make, quick-break, over-center switching mechanism that includes a trip-free feature so that the contacts cannot be held closed against tripping currents.

SECTION 16190 -- FASTENING HARDWARE

FASTENERS: Raceway supports, boxes, equipment and other electrical features shall be securely fastened by wood screws or sheet metal screws on wooden surfaces, toggle bolts on hollow masonry units, expansion bolts on concrete or brick, and machine screws or welded threaded studs on steel work. Threaded studs driven by a powder charge and provided with a lock washer, flat washer and nut(s) are acceptable in place of expansion bolts or machine or wood screws.

ASSOCIATED HARDWARE: All fasteners shall be provided with flat washers. All fasteners having non-tapered threads (such as machine screws) shall also be provided with a lock washer under the bolt head or nut, whichever is turned in the process of tightening. Fasteners through resilient materials shall have stop sleeves. Nuts, washers and sleeves shall be of the same material and finish as the fastener to which they are applied.

HARDWARE COMPOSITIONS AND FINISHES: In heated indoor areas, all threaded fasteners and associated hardware shall be steel, with a zinc or cadmium-plated finish. Where PVC or liquidtight flex is installed on wood construction in outdoor, damp or corrosive environments; fasteners shall be made of monel or a stainless steel alloy suitable for marine environments. Fasteners on steel construction in outdoor, damp, or corrosive environments shall be of the largest size that will fit the item being fastened, shall have the coarsest threads commercially available in that size and shall be hot-dip galvanized steel. Zinc electroplate will be acceptable only in the smaller sizes where hot-dip galvanized is not commercially available.

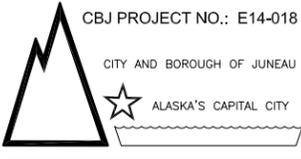
SECTION 16450 -- GROUNDING

SCOPE: All metal raceways, enclosures, other electrical equipment, as well as non-electrical equipment that may pick up harmful potentials from the electrical system, shall be bonded and grounded as required by the NEC.

CONDUCTORS: All grounding conductors and bonding jumpers shall be copper, sized according to the NEC. Where separate equipment grounding conductors are called for, they shall be green insulated where run with branch circuits and bare where run with feeders.

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