Addendum #002

TO ALL CONTRACTORS:
This Addendum is hereby made a part of the Contract Documents dated 3/30/2026

April 28, 2026

New Jetson Center for Youth
Baker, Louisiana
Project # 08-403-04-02, F.08000078, 08-403-24-01, F.08000165

The following items shall be considered part of the contract documents and shall be included in the same when Construction Contract is executed. Changes made by Addenda shall take precedence over Original Documents. Any changes, which may affect construction or proper installation of materials, equipment or fixtures, not specifically mentioned in this addendum, shall be brought to the attention of Designer before submitting bid. Otherwise, such conditions, if found later to exist, must be worked out in an acceptable manner without additional cost to the Owner. Prime Contractors are hereby advised to call attention of all subcontractors to changes, which may affect their work.

CIVIL

QUESTIONS

1. **RFI Question:** Pump Station. What are the required phases, voltage, and amperage?

   Response: 3-phase, 460V, 5.5amps

SPECIFICATIONS:

1. **SECTION 32 1216 – ASPHALT PAVING**
   a. Section 32 1216 Asphalt Paving is being **ISSUED** as part of this Addendum.

DRAWINGS:

1. **SHEET C500 – STORM DRAINAGE & UTILITY INFO**
   a. Drawing Sheet is being **REVISED** and **REISSUED** as part of this Addendum.

2. **SHEET C501 – STORM DRAINAGE & UTILITY LAYOUT**
   a. Drawing Sheet is being **REVISED** and **REISSUED** as part of this Addendum.

3. **SHEET C502 – STORM DRAINAGE & UTILITY LAYOUT**
   a. Drawing Sheet is being **REVISED** and **REISSUED** as part of this Addendum.

4. **SHEET C503 – SANITARY SEWER LAYOUT**
   a. Drawing Sheet is being **REVISED** and **REISSUED** as part of this Addendum.
5. **SHEET C504 – PLAN & PROFILE**
   a. Drawing Sheet is being **REVISED** and **REISSUED** as part of this Addendum.

6. **SHEET C602 – CIVIL DETAILS**
   a. Drawing Sheet is being **REVISED** and **REISSUED** as part of this Addendum.

ARCHITECTURAL

QUESTIONS

1. **RFI Question:** On Sheet A102, the overview drawing shows (3) benches at the outdoor court.
    a. 1. Do you want backrests on the benches?
    b. 2 .What length do you want them to be? Standard lengths are 15' 21' and 24'
    c. 3. Do you want these to be portable or anchored down?

    Response: The lines shown on AS101 & A102 on the outdoor basketball court are not benches. They are part of the court striping, if required.

2. **RFI Question:** Interior CMU and concrete paint. Specs call for catalyzed epoxy at masonry. Is catalyzed epoxy required at all cmu, or only cmu wet walls?

    Response: Catalyzed epoxy or pre-catalyzed epoxy is to be provided as wet wall areas only, unless specifically noted otherwise.

3. **RFI Question:** Please Provide Spec for Lockers

    Response: Locker specification is currently included within Project Documents as Specification Section 10 5100 “Lockers”.

4. **RFI Question:** Detention: A125H should it be in set D8.0 with other youth restroom doors in lieu of D9.0 ?

    Response: Being addressed as part of this Addendum via revised specifications & drawing notes.

5. **RFI Question**: Detention: D9.0: Door S134, staff restroom should it be in set D15 as it is not controlled or monitored on SEC drawings?

    Response: Being addressed as part of this Addendum via revised specifications & drawing notes.

6. **RFI Question**: Detention: D13.0:Door R110 & R112 are commercial doors/frames ,is detention hardware set D13.0 required?

    Response: Being addressed as part of this Addendum via revised specifications & drawing notes.

7. **RFI Question**: Detention: D15.0: R115 is a commercial door/frame is detention hardware set D15.0 required?

    Response: Being addressed as part of this Addendum via revised specifications & drawing notes.

8. **RFI Question:** Detention: A601 schedule: A101- Type B Commercial Elevation-should door and frame material be changed to HM as it has builders hardware set 40?

    Response: Being addressed as part of this Addendum via revised specifications & drawing notes.

9. **RFI Question:** Detention: A601 schedule: J118, S109 & T106 (B-40) – Is 12 ga det frame and door required as they are shown on BH-39 or B40?

    Response: Being addressed as part of this Addendum via revised specifications & drawing notes.

10. **RFI Question:** Detention: A601 schedule: R100B-Is detention door type A and frame required as it's shown on BH-38 set?

    Response: Being addressed as part of this Addendum via revised specifications & drawing notes.

11. **RFI Question:** Detention: A6.01 schedule: Door E103-Please verify this is a type C wood door with 12 ga det frame and D17.0 detention hardware?

    Response: Being addressed as part of this Addendum via revised specifications & drawing notes.

12. **RFI Question:** Detention: D21.0: Please verify T100A is a NJ frame, hardware and SEC drawing show-monitored only and not a wide jamb frame as shown on A101a?

    Response: Being addressed as part of this Addendum via revised specifications & drawing notes.

13. **RFI Question:** Detention: D23.0: Lists R122A which is not found on plans?

    Response: Door R122A no longer occurs within project & Door Hardware sets have been revised & are being reissued as part of this Addendum.

SPECIFICATIONS

1. **SECTION 00 0001 – TABLE OF CONTENTS**
    a. Table of Contents are being **REVISED** and **REISSUED** as part of this Addendum.

2. **SECTION 01 9113 – GENERAL COMMISSIONING REQUIREMENTS**
    a. Section 01 9113 General Commissioning Requirements is being **ISSUED** as part of this Addendum.

3. **SECTION 08 7100 – DOOR HARDWARE**
    a. Some Doors and Door Hardware Sets have been **REVISED, REMOVED OR ADDED** and this Section is being **REISSUED** as part of this Addendum.

4. **SECTION 11 1900 – DETENTION EQUIPMENT**
    a. Some Doors and Door Hardware Sets have been **REVISED** and this Section is being **REISSUED** as part of this Addendum.

DRAWINGS:

1. **SHEET G001 – DRAWING INDEX + GENERAL INFORMATION**
    a. Drawing Index is being **REISSUED** as part of this Addendum and has been **REVISED** to include any additional & revised sheets being issued via this Addendum.

2. **SHEET A101a – FLOOR PLAN – SECTOR A**
    a. Floor Plan Sector A has been **REVISED** and is being **REISSUED** as part of this Addendum. Some window tags have been revised & window elevation tags added.

3. **SHEET A101b – FLOOR PLAN – SECTOR B**
    a. Floor Plan Sector B has been **REVISED** and is being **REISSUED** as part of this Addendum. Some window tags have been revised & window elevation tags added.

4. **SHEET A101c – FLOOR PLAN – SECTOR C**

a. Floor Plan Sector C has been **REVISED** and is being **REISSUED** as part of this Addendum. Some window tags have been revised & window elevation tags added.

5. **SHEET A601 – DOOR SCHEDULE**
   a. Door Schedule and Door Elevations have been **REVISED** and sheet is being **REISSUED** as part of this Addendum.

STRUCTURAL

DRAWINGS:

1. **SHEET S1.2a – SLAB PLAN AREA A**
   a. Drawing Sheet is being **REVISED** and **REISSUED** as part of this Addendum.

2. **SHEET S1.2b – SLAB PLAN AREA B**
   a. Drawing Sheet is being **REVISED** and **REISSUED** as part of this Addendum.

3. **SHEET S1.2c – SLAB PLAN AREA C**
   a. Drawing Sheet is being **REVISED** and **REISSUED** as part of this Addendum.

4. **SHEET S1.3a – TILT-UP WALL PLAN – AREA A**
   a. Drawing Sheet is being **REVISED** and **REISSUED** as part of this Addendum.

5. **SHEET S1.3c – TILT-UP WALL PLAN – AREA C**
   a. Drawing Sheet is being **REVISED** and **REISSUED** as part of this Addendum.

6. **SHEET S6.7 – TILT-UP WALL DETAILS**
   a. Drawing Sheet is being **REVISED** and **REISSUED** as part of this Addendum.

MECHANICAL

SPECIFICATIONS:

1. **SECTION 23 0810 – MECHANICAL SYSTEMS COMMISSIONING**
   a. Section 23 0810 Mechanical Systems Commissioning is being **ISSUED** as part of this Addendum.

ELECTRICAL

QUESTIONS

1. **RFI Question:** Please provide a grounding oneline indicating location and requirements for all grounding required on the project, including all grounding needed for all systems equipment

   Response: Such grounding parameters and requirements are shown in the project Electrical Riser Diagram on Revised Electrical Drawing Sheets E603 and E604, which were included as part of Addendum No. 1.

2. **RFI Question:** Sheet E101C - In Mechanical Room M114, is an occupancy sensor and low voltage switch required in this room?

   Response: Yes. The missing occupancy sensor and low voltage switch is being added as a revision on Sheet E101C as part of this addendum.

3. **RFI Question**: . Division 27 - Confirm that data cabling can be run above accessible ceilings.

   Response: Data cabling may be routed without raceways where such cabling is routed directly above accessible ceilings, and shall be supported by proper "J" hooks which are located, as high as possible, at the true ceiling above the accessible ceilings. Reference Project Specification Division 27 0000 for additional requirements.

4. **RFI Question**: Please indicate the systems conduit requirements needed to serve the Sallyport area's and gates. Please include ant N4X enclosures being provided by Detention Contractor in the details provided.

   Response: The project requirements for all underground and above-ground, exterior, electrical raceways are covered in Project Specification Division 26 0000.

5. **RFI Question**: Please indicate any power and systems conduit requirements needed to serve what appears to be fence mounted cameras on the East side of basketball courts. Please include in the detail all the N4X enclosures being provided bu Detention contractor.

   Response: The project requirements for all underground and above-ground, exterior, electrical raceways are covered in Project Specification Division 26 0000.

6. **RFI Question**: Is MC cable acceptable for light fixture whips?

   Response: No. The Facility Planning and Control Electrical Standards does not allow MC cable.

7. **RFI Question**: Please confirm or revise that as needed that the special systems vendors (Div. 11 & 28) will be installing and connecting their grounding as needed by their systems within their equipment and racks.

   Response: The project electrical specifications are being revised, as part of this addendum, to add such grounding requirements.

8. **RFI Question**: Where are you locating the DR Dimming Relay Switchpacks? Some of these areas do not appear to have accessible ceilings.

   Response: Locate such switchpacks above the respectively-nearest accessible ceilings.

9. **RFI Question**: Where there is centralized LCP control called out on the LCP schedule, there are multiple local digital lighting control devices in the individual areas with room specific zone control. Lighting Keynote 4, 5 and 6 of the LC Sequence of Operations call out "Lighting branch circuits in the room shall be fed through a relay in the LCP for time switch control. See Central Lighting Control System for Control Schedules". Is it the intention that the Dimming Relay Switchpacks for each local individual zone are to be located downstream and powered on and off from the LCP relay? Or is each relay and dimming channel going to be centrally located in the LCP? Switching power to digital local control devices is not typically recommended by most lighting control manufacturers.

   Response: For such a lighting control, an individual relay (which is programmed for time-of-day "on" and "off") in the LCP should energize and de-energize the respective lighting circuit (feeding the lighting fixtures in the general area)

accordingly. The local switch in each room (or small area) should allow the lighting fixture(s) in such room (or small area) to be switched off, if needed, while such circuit is energized (during an "on" episode).

10. **RFI Question**: What potential integration needs to be accounted for with the lighting control system?

Response: As stipulated on the project electrical drawings, the lighting fixtures in the Dormitory areas are required to be controlled by the lighting-control functions of the Security Electronics computer systems/equipment in the dormitories. The project electrical subcontractor needs to coordinate all requirements with the project Security Electronics subcontractor. Also, and as specified, the lighting control system is required to include communication-network protocols which are required for interfacing with, being complete compatible with, and networking with, the user agency's local area (data) network and the user agency's wide area (data) network (via internet).

SPECIFICATIONS

1. **SECTION 26 0000 – ELECTRICAL**
    a. Revise Paragraph 1.01TT of Project Specification to read as follows:
        i. TT. For the project Medical Areas, the project medical-equipment manual, which has been furnished by the owner and/or by the architects, all associated equipment information (including the equipment schedules, details, elevations, sections, etc.), and all medical-equipment information which is included on the architectural drawings and in the architectural specifications, form an integral part of these project construction documents (drawings and specifications), particularly Division 26 0000, and contain project requirements which shall be followed the same as if such information was bound with the remainder of the project Division 26 0000 construction documents (drawings and specifications). Request and obtain, in advance, copies of such equipment information and such equipment-requirement information, and copies of all applicable architectural drawings, schedules, details, elevations, sections, etc.; thoroughly review, and take into consideration, all information which is contained therein and thereon including, but not limited to, all required power connections and circuiting, rough-in requirements, outlet boxes, junction boxes, raceways (conduits), interconnecting wiring, grounding requirements, etc.; figure the project proposal accordingly; and construct the project in strict accordance with the information, parameters, and requirements which are contained therein and thereon. All references in such documents to work being "provided by customer" shall be interpreted to mean "provided by this (the project) contractor". In each instance where there is a conflict between the requirements of such documents and the requirements of the other portions of the Division 26 0000 documents (drawings and/or specifications), the more stringent requirements shall govern; however, if such conflict is not a matter of stringency, the requirements of such documents shall govern.
    b. Revise Paragraph 1.0UU of Project Specification to read as follows:
        i. UU. The project food-service-equipment drawings (i.e., the "FS" sheets), which were prepared by Futch Design Associates, Inc.; 7948 Goodwood Boulevard; Baton Rouge, Louisiana 70806; phone: 225-923-1289; Attention: Mr. Greg Futch, email: greg@futchdesign.com or Mr. Chad Tate, email: chad@futchdesign.com, and all associated equipment information (including the equipment schedules, details, elevations, sections, etc.), and all food-service-equipment information which is included on the architectural drawings and in the architectural specifications, form an integral part of these project construction documents (drawings and specifications), particularly Division 26 0000, and contain project requirements which shall be followed the same as if such information was bound with the remainder of the project Division 26 0000 construction documents (drawings and specifications). Request and obtain, in advance, copies of such equipment and equipment-requirement information, and copies of all applicable architectural drawings, schedules, details, elevations, sections, etc.; thoroughly review, and take into consideration, all information which is contained therein and thereon including, but not limited to, all required power connections and circuiting, rough-in requirements, outlet boxes, junction boxes, raceways (conduits), interconnecting wiring, grounding requirements, etc.; figure the project proposal accordingly; and construct the project in strict accordance with the information, parameters, and requirements which are contained therein and thereon. All references in

such documents to work being "provided by customer" shall be interpreted to mean "provided by this (the project) contractor". In each instance where there is a conflict between the requirements of such documents and the requirements of the other portions of the Division 26 0000 documents (drawings and/or specifications), the more stringent requirements shall govern; however, if such conflict is not a matter of stringency, the requirements of such documents shall govern.

2. **SECTION 27 0000 – COMMUNICATIONS**
    a. Revise Paragraph 1.02E of Project Specification to read as:
        i. E. Provide 4'-0" wide x 8'-0" high x 3/4" thick, fireproofed-plywood, main, telecommunications backboards on all walls of the main, communications, equipment/wiring room (which is identified on the drawings and herein as the "Main Distribution Frame" or "MDF"), where and as required, whether indicated on the drawings or not. Such backboards shall be painted with a fire-retardant, light-grey paint. Provide on such backboards the appropriate number of Category-6A-compliant, 110-type, termination/connection blocks, having the appropriate capacities that are required for all voice cables, except for the project voice-over-IP (VoIP) station cables which shall be terminated at dedicated VoIP patch panels. Before cutting and terminating each such voice cable at the telecommunication backboards, leave 10'-0" of slack cable. Provide all required cross-connects and patch cords. Provide, at and for such backboards, 1/4" thick x 2" high, copper, telecommunication equipment-ground bars for the full width of such backboards; insulate such equipment-ground bars from such backboards and from the walls, and label each such equipment-ground bar as "telecommunication ground bar". Provide a No. 6 AWG, green-insulated, copper, equipment-grounding cable, in a 1/2" PVC Schedule 40 conduit, from such equipment-ground bars to the incoming electrical-service, system-grounding electrode, and provide the proper grounding connections.
    b. Revise Paragraph 1.03B of Project Specification to read as:
        i. B. Contact directly, and coordinate directly with, such audio-visual-system subcontractor; determine exactly which rough-ins, electrical-power connections/circuiting, and grounding will be required for the systems; and provide, as part of this project construction contract, all such required system rough-ins, electrical-power connections/circuiting, and grounding. Therefore, and as a clarification, all project work regarding and/or involved with the rough-ins, electrical-power connections/circuiting, and grounding which are required for the systems shall fall under the scope and responsibility of the project electrical subcontractor (i.e., under this division of the project).
    c. Revise Paragraph 1.03C of Project Specification to read as:
        i. C. The rough-ins for the systems shall include, but not be limited to, all required outlet boxes, trim rings, junction boxes, pull boxes, cover plates, raceways, pull wires, grounding apparatuses, etc. (verify all requirement in advance, and provide accordingly).

3. **SECTION 28 0000 – ELECTRONIC SAFETY AND SECURITY**
    a. Revise Paragraph 1.03B of Project Specification to read:
        i. B. Contact directly, and coordinate directly with, such security-system subcontractor; determine exactly which rough-ins, electrical-power connections/circuiting, and grounding will be required for the systems; and provide, as part of this project construction contract, all such required system rough-ins, electrical-power connections/circuiting, and grounding. Therefore, and as a further clarification, all project work regarding and/or involved with the rough-ins, electrical-power connections/circuiting, and grounding which are required for the systems shall fall under the scope and responsibility of the project electrical subcontractor (i.e., under this division of the project).
    b. Revise Paragraph 1.03C of Project Specification to read:
        i. C. As a clarification, all required rough-ins, power connections/circuiting, and grounding which are required for the systems shall be provided by the project electrical subcontractor.
    c. Revise Paragraph 1.03D.1 of Project Specification to read:
        i. D.1 Provide, under Division 28 0000 of the project, all labor, material, and equipment, and all other items of work, which are required for the rough-ins, power connections/circuiting, and grounding for the systems. Verify all parameters and requirements in advance, and provide accordingly;
    d. Revise Paragraph 1.03D.4 of Project Specification to read:

i. D.4 Reference the project, electronic safety-and-security-systems-and-equipment divisions, including all of the Security Electronics Drawings (i.e., the "SE" Sheets), and reference the architectural specifications and drawings, for rough-in, power-connection, and grounding requirements, including, but not limited to, the respective quantities, descriptions, and locations for required backboxes (outlet boxes, junction boxes, etc.); the respective quantities, sizes, and routing for raceways (conduits, etc.) and pull wires; the respective raceway (conduit) stub-up locations; the respective, data outlets (weatherproof for exterior locations), jacks (weatherproof for exterior locations), station cables (outdoor-rated for exterior locations), etc.; the required power connections; the required grounding apparatuses; etc., as well as other aspects of, and requirements for, such accommodations, and provide all such project work accordingly;

e. Revise Paragraph 1.03D.7 of Project Specification to read:

i. D.7 Reference the Security Electronics Drawings (i.e., the "SE" Sheets) for the respective backbox (outlet-box, junction-box), outlet-box, and data-outlet requirements and locations, conduit-size requirements, power-connection locations, etc., and all other rough-in and grounding requirements;

f. Revise Paragraph 1.03E of Project Specification to read:

i. E. The rough-ins for the systems shall include, but not be limited to, all required outlet boxes, trim rings, junction boxes, pull boxes, cover plates, raceways, pull wires, grounding apparatuses, etc. (verify all requirement in advance, and provide accordingly).

g. Revise Paragraph 1.03G of Project Specification to read:

i. G. Provide all required rough-ins, electrical-power connections/circuiting, and grounding for the systems in a timely manner, the schedule for which shall be established and/or approved in advance by such security-system subcontractor, and by the user agency (facility management).

DRAWINGS:

1. **SHEET ES101 – SITE PLAN ELECTRIAL**
    a. Make changes to the “Site Electrical Plan” as shown
2. **SHEET E100 – ELECTRICAL FLOOR PLAN - OVERALL**
    a. Make changes to the “Electrical Floor Plan - Overall” as shown
3. **SHEET E101a – ELECTRICAL LIGHTING PLAN – SECTOR A & LIGHTING CONTROL SEQUENCE OF OPERATIONS**
    a. Make changes to the “Electrical Lighting Plan - Sector A” as shown.
4. **SHEET E101b – ELECTRICAL LIGHTING PLAN – SECTOR B**
    a. Make changes to the “Electrical Lighting Plan - Sector B” as shown
5. **SHEET E101c – ELECTRICAL LIGHTING PLAN – SECTOR C**
    a. Make changes to the “Electrical Lighting Plan - Sector C” as shown.
6. **SHEET E201b – ELECTRICAL POWER PLAN – SECTOR B**
    a. Make changes to the “Electrical Power Plan - Sector B” as shown.
7. **SHEET E201c – ELECTRICAL POWER PLAN – SECTOR C**
    a. Make changes to the “Electrical Power Plan - Sector C” as shown.
8. **SHEET E301b - ELECTRICAL SPECIAL SYSTEMS & MECHANICAL ELECTRICAL CONNECTIONS PLAN – SECTOR B**
    a. Make changes to the “Electrical Special Systems & Mechanical Electrical Connections Plan - Sector B” as shown.
9. **SHEET E301c - ELECTRICAL SPECIAL SYSTEMS & MECHANICAL ELECTRICAL CONNECTIONS PLAN – SECTOR C**
    a. Make changes to the “Electrical Special Systems & Mechanical Electrical Connections Plan - Sector C” as shown.
10. **SHEET E501 – ELECTRICAL SYMBOL & ABBREVIATION SCHEDULE**
    a. Note changes to the “Electrical Symbol & Abbreviation Schedule” as shown.
11. **SHEET E503 – ELECTRICAL NOTES**
    a. Note changes to the “Lighting Fixture Schedule” as shown.
12. **SHEET E504 – ELECTRICAL PANEL SCHEDULES**

a. Note changes to the Electrical Panel Schedules on this sheet as shown.

13. **SHEET E505 – ELECTRICAL PANEL SCHEDULES**
    a. Note changes to the Electrical Panel Schedules on this sheet as shown.
14. **SHEET E506 – ELECTRICAL PANEL SCHEDULES**
    a. Note changes to the Electrical Panel Schedules on this sheet as shown.
15. **SHEET E507 – ELECTRICAL PANEL SCHEDULES**
    a. Note changes to the Electrical Panel Schedules on this sheet as shown
16. **SHEET E508 – ELECTRICAL PANEL SCHEDULES & CENTRAL LIGHTING CONTROL SYSTEM CONTROL SCHEDULE**
    a. Note changes to the Electrical Panel Schedules on this sheet as shown
17. **SHEET E603 – ELECTRICAL RISER DIAGRAM**
    a. Note changes to the "Electrical Riser Diagram" sheet as shown.
18. **SHEET E604 – ELECTRICAL RISER DIAGRAM**
    a. Note changes to the "Electrical Riser Diagram" sheet as shown.
19. **SHEET E605 – SEWER PUMP-STATION ELECTRICAL RISER DIAGRAM & SEWER PUMP-STATION ELECTRICAL PLAN**
    a. Note addition of new sheet for "Sewer Pump Station Electrical Riser Diagram" as shown.
    b. Note addition of new sheet for "Sewer Pump Station Electrical Plan" as shown.

END OF ADDENDUM NO. TWO

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SECTION 019113 - GENERAL COMMISSIONING REQUIREMENTS – ADDENDUM NO. 2

PART 1 GENERAL

1.01 SUMMARY

A. Commissioning is intended to achieve the following specific objectives; this section specifies the Contractor's responsibilities for commissioning:
   1. Verify that the work is installed in accordance with Contract Documents and the manufacturer’s recommendations and instructions, and that it receives adequate operational checkout prior to startup: Startup reports and Prefunctional Checklists executed by Contractor are utilized to achieve this.
   2. Verify and document that functional performance is in accordance with Contract Documents: Functional Tests executed by Contractor and witnessed by the Commissioning Provider are utilized to achieve this.
   3. Verify that operation and maintenance manuals submitted to Owner are complete: Detailed operation and maintenance (O&M) data submittals by Contractor are utilized to achieve this.
   4. Verify that the Owner’s operating personnel are adequately trained: Formal training conducted by Contractor is utilized to achieve this.

B. Commissioning, including Functional Tests, O&M documentation review, and training, is to occur after startup and initial checkout and be completed before Substantial Completion.

C. The Commissioning Provider directs and coordinates all commissioning activities; this section describes some but not all of the Commissioning Provider's responsibilities.

D. The Commissioning Provider is employed by Owner.

1.02 SCOPE OF COMMISSIONING

A. The following are to be commissioned:
   1. Building envelope:
      a. Thermal and moisture integrity.
      b. Air tightness.
   2. HVAC System, including:
      a. Major and minor equipment items.
      b. Piping systems and equipment.
      c. Ductwork and accessories.
      d. Terminal units.
      e. Control system.
      f. Sound control devices.
      g. Vibration control devices.
      h. Variable frequency drives.
   3. Special Ventilation:
      a. Specialty fans.
   4. Electrical Systems:
      a. Emergency power systems.
      b. Lighting controls other than manual switches.
   5. Electronic Safety and Security:
      a. Security system, including doors and hardware.

B. Other equipment and systems explicitly identified elsewhere in Contract Documents as requiring commissioning.

1.03 RELATED REQUIREMENTS

A. Section 017800 - Closeout Submittals: Scope and procedures for operation and maintenance manuals and project record documents.

1.04 REFERENCE STANDARDS

A. ASTM E779 - Standard Test Method for Determining Air Leakage Rate by Fan Pressurization; 2019.

B. ASTM E1827 - Standard Test Methods for Determining Airtightness of Buildings Using an Orifice Blower Door; 2022.

C. NEBB S110 - Whole Building Technical Commissioning of New Construction; 2019, with Errata (2022).

D. PECI (Samples) - Sample Forms for Prefunctional Checklists and Functional Performance Tests; Current Edition.

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures; except:
   1. Make all submittals specified in this section, and elsewhere where indicated for commissioning purposes, directly to the Commissioning Provider, unless they require review by Architect; in that case, submit to Architect first.
   2. Submit one copy to the Commissioning Provider, not to be returned.
   3. Make commissioning submittals on time schedule specified by Commissioning Provider.
   4. Submittals indicated as "Draft" are intended for the use of the Commissioning Provider in preparation of Prefunctional Checklists or Functional Test requirements; submit in editable .rtf or .docx electronic format.
   5. As soon as possible after submittals made to Architect are approved, submit copies of approved submittals to Commissioning Provider.

B. Product Data: If submittals to Architect do not include the following, submit copies as soon as possible:
   1. Manufacturer's product data, cut sheets, and shop drawings.
   2. Manufacturer's installation instructions.
   3. Startup, operating, and troubleshooting procedures.
   4. Fan and pump curves.
   5. Factory test reports.
   6. Warranty information, including details of Owner's responsibilities in regard to keeping warranties in force.

C. Manufacturers' Instructions: Submit copies of all manufacturer-provided instructions that are shipped with the equipment as soon as the equipment is delivered.

D. Startup Plans and Reports.

E. Completed Prefunctional Checklists.

F. Commissioning Issues Log:
   1. Construction observations.
   2. Supporting photographs.

1.06 QUALITY ASSURANCE

A. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

PART 2 PRODUCTS

2.01 TEST EQUIPMENT

A. Provide all standard testing equipment required to perform startup and initial checkout and required Functional Testing; unless otherwise noted such testing equipment will NOT become the property of Owner.

B. Calibration Tolerances: Provide testing equipment of sufficient quality and accuracy to test and/or measure system performance with the tolerances specified. If not otherwise noted, the following minimum requirements apply:

1. Temperature Sensors and Digital Thermometers: Certified calibration within past year to accuracy of 0.5 degree F (0.3 degree C) and resolution of plus/minus 0.1 degree F (0.05 degree C).
2. Pressure Sensors: Accuracy of plus/minus 2.0 percent of the value range being measured (not full range of meter), calibrated within the last year.
3. Calibration: According to the manufacturer's recommended intervals and when dropped or damaged; affix calibration tags or keep certificates readily available for inspection.

C. Equipment-Specific Tools: Where special testing equipment, tools and instruments are specific to a piece of equipment, are only available from the vendor, and are required in order to accomplish startup or Functional Testing, provide such equipment, tools, and instruments as part of the work at no extra cost to Owner; such equipment, tools, and instruments are to become the property of Owner.

D. Dataloggers: Independent equipment and software for monitoring flows, currents, status, pressures, etc. of equipment.
1. Dataloggers required for Functional Tests will be provided by the Commissioning Provider and will not become the property of Owner.

PART 3 EXECUTION

3.01 COMMISSIONING PLAN

A. Commissioning Provider has prepared the Commissioning Plan.
1. Attend meetings called by the Commissioning Provider for purposes of completing the commissioning plan.
2. Require attendance and participation of relevant subcontractors, installers, suppliers, and manufacturer representatives.

B. Contractor is responsible for compliance with the Commissioning Plan.

C. Commissioning Plan: The commissioning schedule, procedures, and coordination requirements for all parties in the commissioning process.

D. Basis of Design Documentation (BOD): Detailed documentation of the functional requirements of the project; descriptions of the systems, components, and methods chosen to meet the design intent; assumptions underlying the design intent.
1. Basis of Design Documentation is to be prepared by Architect.

E. Commissioning Schedule:
1. Submit anticipated dates of startup of each item of equipment and system to Commissioning Provider within 60 days after award of contract.
2. Re-submit anticipated startup dates monthly, but not less than 4 weeks prior to startup.
3. Prefunctional Checklists and Functional Tests are to be performed in sequence from components, to subsystems, to systems.
4. Provide sufficient notice to Commissioning Provider for delivery of relevant Checklists and Functional Test procedures to avoid delay.

3.02 STARTUP PLANS AND REPORTS

A. Startup Plans: For each item of equipment and system for which the manufacturer provides a startup plan, submit the plan not less than 8 weeks prior to startup.

B. Startup Reports: For each item of equipment and system for which the manufacturer provides a startup checklist (or startup plan or field checkout sheet), document compliance by submitting the completed startup checklist prior to startup, signed and dated by responsible entity.

C. Submit directly to the Commissioning Provider.

3.03 PREFUNCTIONAL CHECKLISTS

A. A Prefunctional Checklist is required to be filled out for each item of equipment or other assembly specified to be commissioned.
1. No sampling of identical or near-identical items is allowed.

2. These checklists do not replace manufacturers' recommended startup checklists, regardless of apparent redundancy.
3. Prefunctional Checklist forms will not be complete until after award of the contract; the following types of information will be gathered via the completed Checklist forms:
    a. Certification by installing contractor that the unit is properly installed, started up, and operating and ready for Functional Testing.
    b. Confirmation of receipt of each shop drawing and commissioning submittal specified, itemized by unit.
    c. Manufacturer, model number, and relevant capacity information; list information "as specified," "as submitted," and "as installed."
    d. Serial number of installed unit.
    e. List of inspections to be conducted to document proper installation prior to startup and Functional Testing; these will be primarily static inspections and procedures; for equipment and systems may include normal manufacturer’s start-up checklist items and minor testing.
    f. Sensor and actuator calibration information.
4. PECI (Samples) found at http://www.peci.org/library/mcpgs.htm indicate anticipated level of detail for Prefunctional Checklists.

B. Contractor is responsible for filling out Prefunctional Checklists, after completion of installation and before startup; witnessing by the Commissioning Provider is not required unless otherwise specified.
1. Each line item without deficiency is to be witnessed, initialed, and dated by the actual witness; checklists are not complete until all line items are initialed and dated complete without deficiencies.
2. Checklists with incomplete items may be submitted for approval provided the Contractor attests that incomplete items do not preclude the performance of safe and reliable Functional Testing; re-submission of the Checklist is required upon completion of remaining items.
3. Individual Checklists may contain line items that are the responsibility of more than one installer; Contractor shall assign responsibility to appropriate installers or subcontractors, with identification recorded on the form.
4. If any Checklist line item is not relevant, record reasons on the form.
5. Contractor may independently perform startup inspections and/or tests, at Contractor's option.
6. Regardless of these reporting requirements, Contractor is responsible for correct startup and operation.
7. Submit completed Checklists to Commissioning Provider within 2 days of completion.

C. Commissioning Provider is responsible for furnishing the Prefunctional Checklists to Contractor.
1. Initial Drafts: Contractor is responsible for initial draft of Prefunctional Checklist where so indicated in Contract Documents.
2. Provide all additional information requested by Commissioning Provider to aid in preparation of checklists, such as shop drawing submittals, manufacturers' startup checklists, and O&M data.
3. Commissioning Provider may add any relevant items deemed necessary regardless of whether they are explicitly mentioned in Contract Documents or not.
4. When asked to review the proposed Checklists, do so in a timely manner.

D. Commissioning Provider Witnessing: Required for:
1. Each piece of primary equipment, unless sampling of multiple similar units is allowed by the commissioning plan.
2. A sampling of non-primary equipment, as allowed by the commissioning plan.

E. Deficiencies: Correct deficiencies and re-inspect or re-test, as applicable, at no extra cost to Owner.

1. If difficulty in correction would delay progress, report deficiency to the Commissioning Provider immediately.

3.04 FUNCTIONAL TESTS

A. A Functional Test is required for each item of equipment, system, or other assembly specified to be commissioned, unless sampling of multiple identical or near-identical units is allowed by the final test procedures.

B. Contractor is responsible for execution of required Functional Tests, after completion of Prefunctional Checklist and before closeout.

C. Commissioning Provider is responsible for witnessing and reporting results of Functional Tests, including preparation and completion of forms for that purpose.

D. Contractor is responsible for correction of deficiencies and re-testing at no extra cost to Owner; if a deficiency is not corrected and re-tested immediately, the Commissioning Provider will document the deficiency and the Contractor's stated intentions regarding correction.
   1. Deficiencies are any condition in the installation or function of a component, piece of equipment or system that is not in compliance with Contract Documents or does not perform properly.
   2. When the deficiency has been corrected, the Contractor completes the form certifying that the item is ready to be re-tested and returns the form to the Commissioning Provider; the Commissioning Provider will reschedule the test, and the Contractor shall re-test.
   3. Identical or Near-Identical Items: If 10 percent, or three, whichever is greater, of identical or near-identical items fail to perform due to material or manufacturing defect, all items will be considered defective; provide a proposal for correction within 2 weeks after notification of defect, including provision for testing sample installations prior to replacement of all items.
   4. Contractor shall bear the cost of Owner and Commissioning Provider personnel time witnessing re-testing.
   5. Contractor shall bear the cost of Owner and Commissioning Provider personnel time witnessing re-testing if the test failed due to failure to execute the relevant Prefunctional Checklist correctly; if the test failed for reasons that would not have been identified in the Prefunctional Checklist process, Contractor shall bear the cost of the second and subsequent re-tests.

E. Functional Test Procedures:
   1. Some test procedures are included in Contract Documents; where Functional Test procedures are not included in Contract Documents, test procedures will be determined by the Commissioning Provider with input by and coordination with Contractor.
   2. Examples of Functional Testing:
      a. Test the dynamic function and operation of equipment and systems (rather than just components) using manual (direct observation) or monitoring methods under full operation (e.g., the chiller pump is tested interactively with the chiller functions to see if the pump ramps up and down to maintain the differential pressure setpoint).
      b. Systems are tested under various modes, such as during low cooling or heating loads, high loads, component failures, unoccupied, varying outside air temperatures, fire alarm, power failure, etc.
      c. Systems are run through all the HVAC control system’s sequences of operation and components are verified to be responding as the sequence's state.
      d. Traditional air or water test and balancing (TAB) is not Functional Testing; spot checking of TAB by demonstration to the Commissioning Provider is Functional Testing.
   3. PECI (Samples) found at http://www.peci.org/library/mcpgs.htm indicated anticipated level of detail for Functional Tests.

F. Deferred Functional Tests: Some tests may need to be performed later, after substantial completion, due to partial occupancy, equipment, seasonal requirements, design or other site

conditions; performance of these tests remains the Contractor's responsibility regardless of timing.

G. Factory Tests: Commissioning Provider and Contractor are responsible for coordinating testing of equipment at the factory by factory personnel to ensure compliance with commissioning requirements.

3.05 SENSOR AND ACTUATOR CALIBRATION

A. Calibrate all field-installed temperature, relative humidity, carbon monoxide, carbon dioxide, and pressure sensors and gauges, and all actuators (dampers and valves) on this piece of equipment shall be calibrated. Sensors installed in the unit at the factory with calibration certification provided need not be field calibrated.

B. Calibrate using the methods described below; alternate methods may be used, if approved by Architect beforehand. See PART 2 for test instrument requirements. Record methods used on the relevant Prefunctional Checklist or other suitable forms, documenting initial, intermediate, and final results.

C. All Sensors:
   1. Verify that sensor location is appropriate and away from potential causes of erratic operation.
   2. Verify that sensors with shielded cable are grounded only at one end.
   3. For sensor pairs that are used to determine a temperature or pressure difference, for temperature make sure they are reading within 0.2 degree F (0.1 degree C) of each other, and for pressure, within tolerance equal to 2 percent of the reading, of each other.
   4. Tolerances for critical applications may be tighter.

D. Sensors Without Transmitters - Standard Application:
   1. Make a reading with a calibrated test instrument within 6 inches (150 mm) of the site sensor.
   2. Verify that the sensor reading, via the permanent thermostat, gauge or building automation system, is within the tolerances in the table below of the instrument-measured value.
   3. If not, install offset, calibrate or replace sensor.

E. Sensors With Transmitters - Standard Application.
   1. Disconnect sensor.
   2. Connect a signal generator in place of sensor.
   3. Connect ammeter in series between transmitter and building automation system control panel.
   4. Using manufacturer’s resistance-temperature data, simulate minimum desired temperature.
   5. Adjust transmitter potentiometer zero until 4 mA is read by the ammeter.
   6. Repeat for the maximum temperature matching 20 mA to the potentiometer span or maximum and verify at the building automation system.
   7. Record all values and recalibrate controller as necessary to comply with specified control ramps, reset schedules, proportional relationship, reset relationship and P/I reaction.
   8. Reconnect sensor.
   9. Make a reading with a calibrated test instrument within 6 inches (150 mm) of the site sensor.
   10. Verify that the sensor reading, via the permanent thermostat, gauge or building automation system, is within the tolerances in the table below of the instrument-measured value.
   11. If not, replace sensor and repeat.
   12. For pressure sensors, perform a similar process with a suitable signal generator.

F. Sensor Tolerances for Standard Applications: Plus/minus the following maximums:
   1. Watthour, Voltage, Amperage: 1 percent of design.
   2. Pressure, Air, Water, Gas: 3 percent of design.

3. Air Temperatures (Outside Air, Space Air, Duct Air): 0.4 degrees F (0.2 degree C).
4. Relative Humidity: 4 percent of design.
5. Barometric Pressure: 0.1 inch of Hg (340 Pa).
6. Flow Rate, Air: 10 percent of design.
7. Flow Rate, Water: 4 percent of design.
8. AHU Wet Bulb and Dew Point: 2.0 degrees F (1.1 degrees C).

G. Critical Applications: For some applications more rigorous calibration techniques may be required for selected sensors. Describe any such methods used on an attached sheet.

H. Valve/Damper Stroke Setup and Check:
1. For all valve/damper actuator positions checked, verify the actual position against the control system readout.
2. Set pump/fan to normal operating mode.
3. Command valve/damper closed; visually verify that valve/damper is closed and adjust output zero signal as required.
4. Command valve/damper to open; verify position is full open and adjust output signal as required.
5. Command valve/damper to a few intermediate positions.
6. If actual valve/damper position does not reasonably correspond, replace actuator or add pilot positioner (for pneumatics).

I. Isolation Valve or System Valve Leak Check: For valves not associated with coils.
1. With full pressure in the system, command valve closed.
2. Use an ultra-sonic flow meter to detect flow or leakage.

3.06 TEST PROCEDURES - GENERAL

A. Provide skilled technicians to execute starting of equipment and to execute the Functional Tests. Ensure that they are available and present during the agreed upon schedules and for sufficient duration to complete the necessary tests, adjustments and problem-solving.

B. Provide all necessary materials and system modifications required to produce the flows, pressures, temperatures, and conditions necessary to execute the test according to the specified conditions. At completion of the test, return all affected equipment and systems to their pre-test condition.

C. Sampling: Where Functional Testing of fewer than the total number of multiple identical or near-identical items is explicitly permitted, perform sampling as follows:
1. Identical Units: Defined as units with same application and sequence of operation; only minor size or capacity difference.
2. Sampling is not allowed for:
   a. Major equipment.
   b. Life-safety-critical equipment.
   c. Prefunctional Checklist execution.
3. XX = the percent of the group of identical equipment to be included in each sample; defined for specific type of equipment.
4. YY = the percent of the sample that if failed will require another sample to be tested; defined for specific type of equipment.
5. Randomly test at least XX percent of each group of identical equipment, but not less than three units. This constitutes the "first sample."
6. If YY percent of the units in the first sample fail, test another XX percent of the remaining identical units.
7. If YY percent of the units in the second sample fail, test all remaining identical units.
8. If frequent failures occur, the Commissioning Provider may stop the testing and require Contractor to perform and document a checkout of the remaining units prior to continuing testing.

D. Manual Testing: Use hand-held instruments, immediate control system readouts, or direct observation to verify performance (contrasted to analyzing monitored data taken over time to make the “observation”).

E. Simulating Conditions: Artificially create the necessary condition for the purpose of testing the response of a system; for example apply hot air to a space sensor using a hair dryer to see the response in a VAV box.

F. Simulating Signals: Disconnect the sensor and use a signal generator to send an amperage, resistance or pressure to the transducer and control system to simulate the sensor value.

G. Over-Writing Values: Change the sensor value known to the control system in the control system to see the response of the system; for example, change the outside air temperature value from 50 degrees F to 75 degrees F to verify economizer operation.

H. Indirect Indicators: Remote indicators of a response or condition, such as a reading from a control system screen reporting a damper to be 100 percent closed, are considered indirect indicators.

I. Monitoring: Record parameters (flow, current, status, pressure, etc.) of equipment operation using dataloggers or the trending capabilities of the relevant control systems; where monitoring of specific points is called for in Functional Test Procedures:
   1. All points that are monitored by the relevant control system shall be trended by Contractor; at the Commissioning Provider's request, Contractor shall trend up to 20 percent more points than specified at no extra charge.
   2. Other points will be monitored by the Commissioning Provider using dataloggers.
   3. At the option of the Commissioning Provider, some control system monitoring may be replaced with datalogger monitoring.
   4. Provide hard copies of monitored data in columnar format with time down left column and at least 5 columns of point values on same page.
   5. Graphical output is desirable and is required for all output if the system can produce it.
   6. Monitoring may be used to augment manual testing.

3.07 BUILDING ENVELOPE COMMISSIONING

A. General: Comply with the following procedural requirements:
   1. NEBB S110 Whole Building Technical Commissioning of New Construction.
   2. ASTM E779 Standard Test Method for Determining Air Leakage Rate by Fan Pressurization.
   3. ASTM E1827 Standard Test Methods for Determining Airtightness of Buildings Using an Orifice Blower Door.

B. Verify that the building envelope has been sufficiently completed for testing to commence.

C. Conduct ongoing inspections as construction progresses to document satisfactory installation conditions. related to thermal and moisture integrity of the building envelope that become concealed upon completion of construction.

D. Submit a detailed narrative of proposed pressure test procedures prior to the test. Include a plan view showing proposed installation locations (personnel doors or other similar openings) for blower doors (or flexible ducts for trailer-mounted fans, if used).

E. Avoid testing on days forecast to experience high winds, rain, or snow.

F. Test the completed building and demonstrate that the air leakage rate of the building envelope does not exceed the specified requirements.

G. Determine location and nature of undesirable air leakage pathways using methods specified in ASTM E1186-17 Standard Practices for Air Leakage Site Detection in Building Envelopes and Air Barrier Systems.

H. Deficiencies: Correct deficiencies and re-inspect or re-test, as applicable, at no extra cost to Owner.

1. If difficulty in correction would delay progress, report deficiency to the Commissioning Provider immediately.

3.08 OPERATION AND MAINTENANCE MANUALS

A. See Section 017800 - Closeout Submittals for additional requirements.

B. Add design intent documentation furnished by Architect to manuals prior to submission to Owner.

C. Submit manuals related to items that were commissioned to Commissioning Provider for review; make changes recommended by Commissioning Provider.

D. Commissioning Provider will add commissioning records to manuals after submission to Owner.

END OF SECTION

SECTION 087100 – DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.
2. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 08 Section “Flush Wood Doors”.
3. Division 08 Section “Aluminum-Framed Entrances and Storefronts”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ANSI/SDI A250.13 - Testing and Rating of Severe Windstorm Resistant Components for Swing Door Assemblies.
3. ICC/IBC - International Building Code.
4. NFPA 70 - National Electrical Code.
5. NFPA 80 - Fire Doors and Windows.
6. NFPA 101 - Life Safety Code.
7. NFPA 105 - Installation of Smoke Door Assemblies.
8. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C – Positive Pressure Fire Tests of Door Assemblies.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:
    a. Type, style, function, size, label, hand, and finish of each door hardware item.
    b. Manufacturer of each item.
    c. Fastenings and other pertinent information.
    d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    e. Explanation of abbreviations, symbols, and codes contained in schedule.
    f. Mounting locations for door hardware.
    g. Door and frame sizes and materials.
    h. Warranty information for each product.
    i. Operational narratives for electrified hardware.
4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:
1. Wiring Diagrams: As part of the hardware submittals, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
    a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
2. Point to Point Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
    a. Complete (risers, point-to-point) access control system block wiring diagrams.
    b. Wiring instructions for each electronic component scheduled herein.
3. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
4. Provide engineered diagrams specific to each opening. Individual wiring instructions shipped with devices are not considered a complete diagram.

D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. Informational Submittals:

1. Hurricane Resistant Openings: Exterior hurricane opening assemblies to be tested according to ASTM E330, ASTM E1886, ASTM E1996 standards, and certified by a qualified independent third party testing agency acceptable to authority having jurisdiction, with labeling indicating compliance with the wind load and design pressure level requirements specified for the Project.
2. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

D. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

E. Hurricane Resistant Exterior Openings: Provide exterior door hardware as complete and tested assemblies, or component assemblies, including approved doors and frames specified under Section 081113 "Hollow Metal Doors and Frames", to meet the wind loads, design pressures, debris impact resistance, and glass and glazing requirements applicable to the Project.

1. Test units according to ASTM E330, ASTM E1886, ASTM E1996 standards, certified by a qualified independent third party testing agency acceptable to authority having jurisdiction, and bearing a third party certification agency permanent label indicting windstorm approved product.

F. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
2. Review sequence of operation narratives for each unique access controlled opening.
3. Review and finalize construction schedule and verify availability of materials.
4. Review the required inspecting, testing, commissioning, and demonstration procedures

I. Pre-Installation Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s),

Installer(s), and Contractor(s) to review proper methods and the procedures for installing door hardware.

1. Prior to installation of door hardware, door hardware supplier shall conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Hardware supplier shall engage factory personnel for installation training on locks, exit devices and door closers.

J. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.

C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:

1. Ten years for mortise locks and latches.
2. Five years for exit hardware.
3. Ten years for manual overhead door closer bodies.
4. Twenty five years for manual overhead door closer bodies.
5. Five years for motorized electric latch retraction exit devices.
6. Two years for electromechanical door hardware.

1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
   1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
   1. Quantity: Provide the following hinge quantity:
      a. Two Hinges: For doors with heights up to 60 inches.
      b. Three Hinges: For doors with heights 61 to 90 inches.
      c. Four Hinges: For doors with heights 91 to 120 inches.
      d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
   2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
      a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
      b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.
   3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
      a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
      b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
   4. Hinge Options: Comply with the following:
      a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.
   5. Manufacturers:
      a. Ives (IV).
      b. McKinney Products (MK).
      c. Stanley Hardware (ST).

B. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge. with minimum 0.120-inch thick extruded 6060 T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
   1. Manufacturers:
      a. Ives (IV).
      b. Pemko Products (PE).
      c. Stanley Hardware (ST).

C. Pivots: ANSI/BHMA A156.4, Grade 1, certified. Space intermediate pivots equally not less than 25 inches on center apart or not more than 35 inches on center for doors over 121 inches high. Pivots to be UL listed for windstorm where applicable.
   1. Manufacturers:
      a. Ives (IV).
      b. Rixson Door Controls (RF).

2.3 POWER TRANSFER DEVICES

A. Electrified Quick Connect Transfer Hinges: Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
   1. Manufacturers:
      a. McKinney Products (MK) - QC Option.
      b. Ives (IV) – CON Option.
      c. Stanley Hardware (ST) – C Option.

B. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
   1. Manufacturers:
      a. Securitron (SU) - EL-CEPT Series.
      b. Stanley Hardware (ST) EPT-12C Series.
      c. Von Duprin (VD) - EPT-10 CON Series.

C. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.
   1. Manufacturers:
      a. McKinney Products (MK) – QC-C Series.
      b. Von Duprin (VD) – CON Series.
      c. Stanley Hardware (ST) – WH Series.

D. Hurricane and Tornado Resistance Compliance: Power transfer devices to be U.L. listed for windstorm components where applicable.

2.4 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
5. Manufacturers:
    a. Ives (IV).
    b. Rockwood Products (RO).
    c. Trimco (TC).

B. Coordinators: ANSI/BHMA A156.3 certified door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.
1. Manufacturers:
    a. Ives (IV).
    b. Rockwood Products (RO).
    c. Trimco (TC).

C. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.
5. Manufacturers:
    a. Ives (IV).
    b. Rockwood Products (RO).
    c. Trimco (TC).

2.5 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

C. Cylinders: Original manufacturer cylinders complying with the following:
1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.
2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored-Lock Type: Cylinders with tailpieces to suit locks.
4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
5. Keyway: Manufacturer’s Standard.

D. Interchangeable Cores: Provide small format interchangeable cores as specified, core insert, removable by use of a special key; usable with other manufacturers' cylinders.

E. Patented Cylinders: ANSI/BHMA A156.5, Grade 1, certified patented cylinders employing a utility patented and restricted keyway requiring the use of a patented key. Cylinders are to be protected from unauthorized manufacture and distribution by manufacturer’s United States

patents. Cylinders are to be factory keyed with owner having the ability for on-site original key cutting.

1. Patented key systems shall not be established with products that have an expired patent. Expired systems shall only be specified and supplied to support existing systems.
2. Manufacturers:
   a. Medeco (MC) – X4.

F. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. New System: Key locks to a new key system as directed by the Owner.

G. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).
4. Construction Control Keys (where required): Two (2).
5. Permanent Control Keys (where required): Two (2).

H. Construction Keying: Provide temporary keyed construction cores.

I. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 KEY CONTROL

A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

1. Manufacturers:
   a. Lund Equipment (LU).
   b. MMF Industries (MM).
   c. Telkee (TK).

2.7 MECHANICAL LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.

1. Where specified, provide status indicators with highly reflective color and wording for “locked/unlocked” or “vacant/occupied” with custom wording options if required. Indicator to be located above the cylinder with the inside thumb-turn not blocking the visibility of the indicator status. Indicator window size to be a minimum of 2.1” x 0.6” with a curved design allowing a 180 degree viewing angle with protective covering to prevent tampering.
2. Manufacturers:
   a. dormakaba Best (BE) – 45H Series.
   b. Sargent Manufacturing (SA) – 8200 Series.
   c. Schlage (SC) – L9000 Series.

2.8 ELECTROMECHANICAL LOCKING DEVICES

A. Electromechanical Mortise Locksets, Grade 1 (Heavy Duty): Subject to same compliance standards and requirements as mechanical mortise locksets, electrified locksets to be of type and design as specified below.

1. Electrified Lock Options: Where indicated in the Hardware Sets, provide electrified options including: outside door lock/unlock trim control, latchbolt and lock/unlock status monitoring, deadbolt monitoring, and request-to-exit signaling. Support end-of-line resistors contained within the lock case. Unless otherwise indicated, provide electrified locksets standard as fail secure.
2. Manufacturers:
    a. Sargent Manufacturing (SA) - 8200 Series.
    b. Schlage (SC) - L9000 EL/EU/RX Series.
    c. dormakaba Best (BE) - 40HW EL/EU Series.

B. Hurricane and Tornado Resistance Compliance: Electromechanical locking devices to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or tornado resistant products that have been independent third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.

2.9 AUXILIARY LOCKS

A. Mortise Deadlocks, Small Case: ANSI/BHMA A156.36, Grade 1, small case mortise type deadlocks constructed of heavy gauge wrought corrosion resistant steel. Steel or stainless steel bolts with a 1" throw and hardened steel roller pins. Deadlocks to be products of the same source manufacturer and keyway as other specified locksets.
1. Manufacturers:
    a. Sargent Manufacturing (SA) - 4870 Series.
    b. Schlage (SC) - L460 Series.
    c. dormakaba Best (BE) - 48H Series.

B. Behavioral Health, Mortise: ANSI/BHMA A156.13, Series 1000, Operational and Security Grade 1 mortise type manufactured to accepted Office of Mental Health (OMH) requirements with behavioral health lever and escutcheon trim. Locksets to be manufactured with a corrosion resistant, formed steel case. Levers and escutcheons are manufactured from stainless steel material. Provide optional lead-lining (lock body), Torx® fasteners, and Antimicrobial coating as specified in Hardware Sets.
1. Manufacturers:
    a. Sargent Manufacturing (SA) - 8200 BHW Series.
    b. Schlage (SC) – HSLR Series.
    c. Accurate Lock (AT) – CP Crescent Pull Series.

2.10 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.

B. Standards: Comply with the following:
1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.11 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
   1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
   2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
   3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
   4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
   5. Flush End Caps: Provide flush end caps made of architectural metal in the same finish as the devices as in the Hardware Sets. Plastic end caps will not be acceptable.
   6. Electromechanical Options: Subject to same compliance standards and requirements as mechanical exit devices, electrified devices to be of type and design as specified in hardware sets. Include any specific controllers when conventional power supplies are not sufficient to provide the proper inrush current.
   7. Motorized Electric Latch Retraction: Devices with an electric latch retraction feature must use motors which have a maximum current draw of 600mA. Solenoid driven latch retraction is not acceptable.
   8. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
      a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
      b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
   9. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
   10. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
   11. Rail Sizing: Provide exit device rails factory sized for proper door width application.
   12. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.
   1. Manufacturers:
      a. Sargent Manufacturing (SA) - 80 Series.
      b. dormakaba Precision (PR) - Apex 2000 Series.
      c. Von Duprin (VD) - 98 Series.

C. Tube Steel Removable Mullions: ANSI/BHMA A156.3 removable steel mullions with malleable-iron top and bottom retainers and a primed paint finish.
   1. At openings designed for severe wind load conditions due to hurricanes or tornadoes, provide manufacturer's certified mullion and accessories to meet applicable state and local windstorm codes.
   2. Provide keyed removable feature where specified in the Hardware Sets.

3. Provide stabilizers and mounting brackets as required.
4. Provide electrical quick connection wiring options as specified in the hardware sets.
5. Manufacturers:
    a. Same as exit device manufacturer.

2.12 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:
1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
1. Manufacturers:
    a. LCN Closers (LC) – 4040XP Series.
    b. Norton Door Controls (NO) – 7500 Series.
    c. Sargent Manufacturing (SA) – 351 Series.

C. Door Closers, Overhead Concealed (Heavy Duty): ANSI/BHMA 156.4 Grade 1 Certified Products Directory (CPD) listed heavy duty door closers with closers with spring power adjustment. Closers to have fully concealed body in the frame head and track assembly in the door, rack and pinion type construction, either offset or center hung applications, with separate and independent valves for closing speed, latch speed, and backcheck adjustments. Overhead concealed closers require a minimum 4-inch frame head for mounting.
1. Manufacturers:
    a. LCN Closers (LC) – 2010 Series.
    b. Norton Door Controls (NO) – 7900 Series.
    c. Sargent Manufacturing (SA) – 268/269/278 Series.

D. Door Closers, Overhead Concealed (Narrow Profile): ANSI/BHMA 156.4 certified Grade 1 door closers designed for narrow profile frames and doors. Closers to have fully concealed body in the frame head for offset hung applications, with separate and independent valves for closing speed and backcheck adjustments.
1. Manufacturers:
    a. LCN Closers (LC) - 2030 Series.
    b. Rixson Door Controls (RF) - 91 Series.

2.13 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:
    a. Stainless Steel: 300 grade, 050-inch thick.
5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:
    a. Ives (IV).
    b. Rockwood Products (RO).
    c. Trimco (TC).

2.14 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
1. Manufacturers:
    a. Ives (IV).
    b. Rockwood Products (RO).
    c. Trimco (TC).
    d. Kingsway Group (KG).

C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
1. Manufacturers:
    a. dormakaba (DO).
    b. Rixson Door Controls (RF).
    c. Glynn Johnson (GJ).
    d. Architectural Builders Hardware (ABH).

2.15 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
   1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Hurricane and Tornado Resistance Compliance: Architectural seals to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or tornado resistant products that have been independent third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.

G. Manufacturers:
   1. National Guard Products (NG).
   2. Pemko Products (PE).
   3. Zero (ZE).

2.16 ELECTRONIC ACCESSORIES

A. Door Position Switches: Door position switches specifically designed for use in high security door applications. On recessed models the contact and magnetic housing shall be mortised into the door and frame and secured with security screw fasteners. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.
   1. Manufacturers:
      a. Detex (DE) – MS-2049F Series.
      b. Security Door Controls (SD) – MC4M Series.
      c. Schlage Electronics (SH) – 7764 Series.

2.17 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.18 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
   1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
   1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
   2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
   3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
   4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.5 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.6 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.7 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
   1. Quantities listed are for each pair of doors, or for each single door.
   2. The supplier is responsible for handing and sizing all products.
   3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

B. Manufacturer's Abbreviations:

1. SS - Southern Steel
2. MK - McKinney
3. PE - Pemko
4. MR - Markar
5. SU - Securitron
6. RO - Rockwood
7. SA - SARGENT
8. AD - Adams Rite
9. MC - Medeco
10. TC - Trimco
11. AH - Architectural Builders Hardware
12. NO - Norton
13. RF - Rixson
14. SH - Schlage Electronic Security
15. RU - Corbin Russwin
16. OT - Other

Hardware Sets

Set: 1.0
Doors: B100
Description: Pair Exterior ALD (CR)

2	Continuous Hinge	CFM SLF-HD1 PT Torx		PE
2	Electric Power Transfer	EL-CEPT TORX	630	SU
1	Concealed Vert Rod Exit, Dummy	LC 36 55 56 ADPE8410 P106	US32D	SA
1	Concealed Vert Rod Exit, Exit Only	36 55 56 ADPE8410 EO	US32D	SA
1	Rim Cylinder	33602032N MK x Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
2	Door Pull	BF168 Mtg-Type 12XHD	US32D316	RO
2	Conc Overhead Stop	102_A SEC	US32D	AH
2	Surface Closer	PR7500 TORX	689	NO
2	Drop Plate	7788	689	NO
2	Blade Stop	6891	689	NO
2	Sweep	315CN Torx		PE
1	Threshold	2705AT Torx		PE
2	Position Switch	7764		SU
2	ElectroLynx Harness	QC-C as Required (Door)		MK
2	ElectroLynx Harness	QC-C1500		MK
1	Power Supply	By Access Control Provider		OT

Notes: Perimeter seal and astragal by door supplier.

Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the access control system. When devices are locked then the card reader grants access upon presentation of a valid credential. Exit devices mechanically lock during power failure with a mechanical key override entry.
2. Egress always free from inside by depressing inside push pad.
3. Request to exit switch in the push pad to signal authorized egress to the access control system.
4. Door position switch to signal door open/closed to the access control system.

Set: 2.0 – Not Used

Set: 3.0
Doors: B164B, C111B, C115B
Description: Single Exterior Equipment, Break, Corridor (CR)

2	Hinge, Full Mortise, Hvy Wt	T4A3386 NRP 4-1/2" x 4-1/2" TXS	US32D	MK
1	Hinge, Full Mortise, Hvy Wt	T4A3386 QC8 4-1/2" x 4-1/2" TXS	US32D	MK
1	Fail Secure Lock	LC RX 37 8271-24V LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	CLP7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Gasketing	290APK Torx (Jambs)		PE
1	Gasketing	2891APK Torx (Head)		PE
1	Rain Guard	346C Torx		PE
1	Sweep	315CN Torx		PE
1	Threshold	2705AT Torx		PE
1	Position Switch	7764		SU
1	ElectroLynx Harness	QC-C as Required (Door)		MK
1	ElectroLynx Harness	QC-C1500		MK
1	Power Supply	By Access Control Provider		OT
1	Latch Protector	320-RKW	US2C	RO

Notes: Install perimeter seal prior to closer. Special templating required.

Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the access control system. When outside lever is locked the card reader grants access upon presentation of a valid credential. Locksets mechanically lock during power failure with a mechanical key override entry.
2. Egress always free from inside by depressing inside lever.
3. Request to exit switch in lever to signal authorized egress to the access control system.
4. Door position switch to signal door open/closed to the access control system.

Set: 4.0
Doors: M101, M102, M105, M106, M110, M114, M117, M118, M121
Description: Single Exterior Mechanical, Chase (DPS)

3	Hinge, Full Mortise, Hvy Wt	T4A3386 NRP 5" x 4-1/2" TXS	US32D	MK
1	Storeroom/Closet Lock	LC 37 8204 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	CLP7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO

1	Gasketing	290APK Torx (Jambs)		PE
1	Gasketing	2891APK Torx (Head)		PE
1	Rain Guard	346C Torx		PE
1	Sweep	315CN Torx		PE
1	Threshold	2705AT Torx		PE
1	Position Switch	7764		SU
1	Latch Protector	320-RKW	US2C	RO

Notes: Install perimeter seal prior to closer. Special templating required.

Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: 5.0
Doors: A100A
Description: Single Exterior Chase (DPS)

3	Hinge, Full Mortise, Hvy Wt	T4A3386 NRP 4-1/2" x 4-1/2" TXS	US32D	MK
1	Storeroom/Closet Lock	LC 37 8204 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	CLP7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Gasketing	290APK Torx (Jambs)		PE
1	Gasketing	2891APK Torx (Head)		PE
1	Rain Guard	346C Torx		PE
1	Sweep	315CN Torx		PE
1	Threshold	2705AT Torx		PE
1	Position Switch	7764		SU
1	Latch Protector	320-RKW	US2C	RO

Notes: Install perimeter seal prior to closer. Special templating required.

Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: 6.0
Doors: U100A
Description: Single Exterior Maintenance (DPS)

3	Hinge, Full Mortise, Hvy Wt	H T4A3386xNRP 4-1/2" x 4-1/2" TXS	US32D	MK
1	Storeroom/Closet Lock	LC 8204 BHL	US32D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Concealed Closer	7970	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Gasketing	290APK Torx (Jambs)		PE
1	Gasketing	2891APK Torx (Head)		PE
1	Rain Guard	346C Torx		PE
1	Sweep	315CN Torx		PE
1	Threshold	2705AT Torx		PE
1	Position Switch	7764		SU
1	Latch Protector	320-RKW	US2C	RO

Notes:
Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: 7.0
Doors: E102A, E102B, E105
Description: Single Exterior Electrical (DPS)

3	Hinge, Full Mortise, Hvy Wt	T4A3386 NRP 5" x 4-1/2" TXS	US32D	MK
1	Rim Exit Device, Storeroom	LC 36 PE8804 WEJ	US32D	SA
1	Rim Cylinder	33602032N MK x Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	CLP7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Gasketing	2891APK Torx (Head & Jambs)		PE
1	Rain Guard	346C Torx		PE
1	Sweep	315CN Torx		PE
1	Threshold	2705AT Torx		PE
1	Position Switch	7764		SU

Notes: Install perimeter seal prior to closer, exit device, and strike. Special templating required.

Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: 8.0
Doors: C111A
Description: Single Corridor (CR)

2	Hinge, Full Mortise, Hvy Wt	T4A3786 NRP 4-1/2" x 4-1/2" TXS	US26D	MK
1	Hinge, Full Mortise, Hvy Wt	T4A3786 QC8 4-1/2" x 4-1/2" TXS	US26D	MK
1	Fail Secure Lock	LC RX 37 8271-24V LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	CPS7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
3	Silencer	608-RKW		RO
1	Position Switch	7764		SU
1	ElectroLynx Harness	QC-C as Required (Door)		MK
1	ElectroLynx Harness	QC-C1500		MK
1	Power Supply	By Access Control Provider		OT

Notes: Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the access control system. When outside lever is locked the card reader grants access upon presentation of a valid credential. Locksets mechanically lock during power failure with a mechanical key override entry.
2. Egress always free from inside by depressing inside lever.
3. Request to exit switch in lever to signal authorized egress to the access control system.
4. Door position switch to signal door open/closed to the access control system.

Set: 9.0
Doors: B104B, B133, B137, B147, B148~~, E153~~
Description: Single IT, File, Records (CR)

2	Hinge, Full Mortise, Hvy Wt	T4A3786 4-1/2" x 4-1/2" TXS	US26D	MK
1	Hinge, Full Mortise, Hvy Wt	T4A3786 QC8 4-1/2" x 4-1/2" TXS	US26D	MK
1	Fail Secure Lock	LC RX 37 8271-24V LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO
1	Position Switch	7764		SU
1	ElectroLynx Harness	QC-C as Required (Door)		MK
1	ElectroLynx Harness	QC-C1500		MK
1	Power Supply	By Access Control Provider		OT

Notes: Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the access control system. When outside lever is locked the card reader grants access upon presentation of a valid credential. Locksets mechanically lock during power failure with a mechanical key override entry.
2. Egress always free from inside by depressing inside lever.
3. Request to exit switch in lever to signal authorized egress to the access control system.
4. Door position switch to signal door open/closed to the access control system.

Set: 10.0
Doors: B137B
Description: Single Server (CR)

2	Hinge, Full Mortise, Hvy Wt	T4A3786 4-1/2" x 4-1/2" TXS	US26D	MK
1	Hinge, Full Mortise, Hvy Wt	T4A3786 QC8 4-1/2" x 4-1/2" TXS	US26D	MK
1	Fail Secure Lock	LC RX 37 8271-24V LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surf Overhead Stop	902_A SEC	US32D	AH
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
3	Silencer	608-RKW		RO
1	Position Switch	7764		SU
1	ElectroLynx Harness	QC-C as Required (Door)		MK
1	ElectroLynx Harness	QC-C1500		MK
1	Power Supply	By Access Control Provider		OT

Notes: Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the access control system. When outside lever is locked the card reader grants access upon presentation of a valid credential. Locksets mechanically lock during power failure with a mechanical key override entry.
2. Egress always free from inside by depressing inside lever.
3. Request to exit switch in lever to signal authorized egress to the access control system.
4. Door position switch to signal door open/closed to the access control system.

Set: 11.0
Doors: A121A, A121B, A169
Description: Single Med Supply, Cart, Records Rated (CR)

2	Hinge, Full Mortise, Hvy Wt	T4A3786 4-1/2" x 4-1/2" TXS	US26D	MK
1	Hinge, Full Mortise, Hvy Wt	T4A3786 QC8 4-1/2" x 4-1/2" TXS	US26D	MK

1	Fail Secure Lock	LC RX 37 8271-24V LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Stop	400 or 481H TORX as Req'd	US26D	RO
1	Gasketing	P88D		PE
1	Position Switch	7764		SU
1	ElectroLynx Harness	QC-C as Required (Door)		MK
1	ElectroLynx Harness	QC-C1500		MK
1	Power Supply	By Access Control Provider		OT

Notes: Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the access control system. When outside lever is locked the card reader grants access upon presentation of a valid credential. Locksets mechanically lock during power failure with a mechanical key override entry.
2. Egress always free from inside by depressing inside lever.
3. Request to exit switch in lever to signal authorized egress to the access control system.
4. Door position switch to signal door open/closed to the access control system.

Set: 12.0
Doors: U101, U103A
Description: Single Storage

3	Hinge, Full Mortise, Hvy Wt	H T4A3386 4-1/2" x 4-1/2" TXS	US32D	MK
1	Storeroom/Closet Lock	LC 8204 BHL	US32D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Concealed Closer	7970	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	KG182GR Torx	630	KG
1	Gasketing	P88D		PE

Notes: Template closer for maximum degree of opening.

Set: 13.0
Doors: U104
Description: Single Storage

3	Hinge, Full Mortise, Hvy Wt	H T4A3386 4-1/2" x 4-1/2" TXS	US32D	MK
1	Storeroom/Closet Lock	LC 8204 BHL	US32D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Concealed Closer	7970	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Door Stop	466-RKW TORX	Black	RO
1	Gasketing	P88D		PE

Notes: Template closer for maximum degree of opening.

Set: 14.0
Doors: E101, E153, S125A
Description: Single Storage Rated (DPS)

3	Hinge, Full Mortise	TA2714 NRP 4-1/2" x 4-1/2" TXS	US26D	MK
1	Storeroom/Closet Lock	LC 37 8204 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	CLP7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Gasketing	P88D		PE
1	Position Switch	7764		SU

Notes: Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: 15.0
Doors: B131
Description: Single Storage

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK
1	Storeroom/Closet Lock	LC 37 8204 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
1	Gasketing	P88D		PE
~~3~~	~~Silencer~~	~~608-RKW~~		~~RO~~

Set: 16.0
Doors: B122
Description: Single Janitor

3	Hinge, Full Mortise	TA2714 NRP 4-1/2" x 4-1/2" TXS	US26D	MK
1	Storeroom/Closet Lock	LC 8204 BHL	US32D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	CLP7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
3	Silencer	608-RKW		RO

Set: 17.0
Doors: A149, A157, A178, B141A, B166, R110
Description: Single Janitor, Storage, Housekeeping Rated

3	Hinge, Full Mortise	TA2714 NRP 4-1/2" x 4-1/2" TXS	US26D	MK
1	Storeroom/Closet Lock	LC 37 8204 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	CLP7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Gasketing	P88D		PE

Set: 18.0
Doors: E101, E102
Description: Single IT, Elec (DPS)

3	Hinge, Full Mortise	TA2714 NRP 4-1/2" x 4-1/2" TXS	US26D	MK
1	Storeroom/Closet Lock	LC 37 8204 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	CLP7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
3	Silencer	608-RKW		RO
1	Position Switch	7764		SU

Notes: Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: 19.0
Doors: R102
Description: Single Laundry Equipment Rated (DPS)

3	Hinge, Full Mortise, Hvy Wt	T4A3786 NRP 5" x 4-1/2" TXS	US26D	MK
1	Storeroom/Closet Lock	LC 37 8204 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	PR7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
1	Gasketing	P88D		PE
1	Position Switch	7764		SU

Notes: Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: 20.0 ~~– Not Used~~
Doors: E103
Description: Single Electrical

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK
1	Storeroom/Closet Lock	LC 37 8204 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
1	Gasketing	P88D		PE
1	Position Switch	7764		SU

Notes: Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: 21.0
Doors: B106B, B106C
Description: Single Training Room

3	Hinge, Full Mortise, Hvy Wt	T4A3786 NRP 4-1/2" x 4-1/2" TXS	US26D	MK
1	Classroom Lock	LC 37 8237 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC

1	Surface Closer	CLP7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
3	Silencer	608-RKW		RO

Set: 22.0
Doors: B137A
Description: Single Work Room

3	Hinge, Full Mortise	TA2714 NRP 4-1/2" x 4-1/2" TXS	US26D	MK
1	Classroom Lock	LC 37 8237 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	PR7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 23.0
Doors: B145
Description: Single Conference

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK
1	Classroom Lock	LC 37 8237 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 24.0
Doors: ~~B141A,~~ J112A, R112, R115
Description: Single Storage

3	Hinge, Full Mortise	TA2714 NRP 4-1/2" x 4-1/2" TXS	US26D	MK
1	Storeroom/Closet Lock	LC 37 8204 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	PR7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 25.0
Doors: S123
Description: Single Office

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK
1	Office/Entry Lock	LC LB 37 8205 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	PR7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 26.0
Doors: B126, B128, B130, B132, B134, B135, B139, B144, B146, B150, B155, B157, B159, B161, B163A, B163B
Description: Single Office

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK
1	Office/Entry Lock	LC LB 37 8205 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 27.0
Doors: B165
Description: Single Office

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK
1	Office/Entry Lock	LC LB 37 8205 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surf Overhead Stop	902_A SEC	US32D	AH
3	Silencer	608-RKW		RO

Set: 28.0
Doors: A155, A160, A161, A163, A165, A166, A167, A168, A170, A171, A172, A173, A175, A176, A180, A182, A184
Description: Single Office Rated

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK
1	Office/Entry Lock	LC LB 37 8205 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
1	Gasketing	P88D		PE

Set: 29.0
Doors: S115A
Description: Single Work/Copy

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK
1	Pull Plate	BF 111x70C TORX	US32D	RO
1	Push Plate	70C-RKW TORX	US32D	RO
1	Surface Closer	PR7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 30.0
Doors: S113
Description: Single Break

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK

1	Pull Plate	BF 111x70C TORX	US32D	RO
1	Push Plate	70C-RKW TORX	US32D	RO
1	Surf Overhead Stop	902_A SEC	US32D	AH
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
3	Silencer	608-RKW		RO

Set: 31.0
Doors: B164A
Description: Single Break

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK
1	Pull Plate	BF 111x70C TORX	US32D	RO
1	Push Plate	70C-RKW TORX	US32D	RO
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 32.0
Doors: B104A, B124, S119
Description: Single Staff Restroom

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK
1	Privacy Lock	LB V20 37 8266 LNJ	US26D	SA
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 33.0
Doors: B149, B151, S117
Description: Single Staff Restroom

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK
1	Privacy Lock	LB V20 37 8266 LNJ	US26D	SA
1	Surf Overhead Stop	902_A SEC	US32D	AH
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 34.0
Doors: B120A
Description: Single Staff Restroom

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2" TXS	US26D	MK
1	Privacy Lock	LB V20 37 8266 LNJ	US26D	SA
1	Surface Closer	CPS7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 35.0

Doors: A151
Description: Single Staff Restroom Rated

3	Hinge, Full Mortise, Hvy Wt	T4A3786 4-1/2" x 4-1/2" TXS	US26D	MK
1	Privacy Lock	LB V20 37 8266 LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
1	Gasketing	P88D		PE

Set: 36.0 – Not Used

Set: 37.0
Doors: U102
Description: Single Staff Restroom

3	Hinge, Full Mortise, Hvy Wt	T4A3786 4-1/2" x 4-1/2" TXS	US26D	MK
1	Storeroom Deadbolt	LC 8251 BHL x 186PALP	US32D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 38.0
Doors: R100B, R117
Description: Single Staff Restroom

3	Hinge, Full Mortise, Hvy Wt	H T4A3386 4-1/2" x 4-1/2" TXS	US32D	MK
1	Storeroom Deadbolt	LC 8251 BHL x 186PALP	US32D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	PR7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 39.0
Doors: S109
Description: Single Staff Restroom Rated

3	Hinge, Full Mortise, Hvy Wt	H T4A3386 4-1/2" x 4-1/2" TXS	US32D	MK
1	Storeroom Deadbolt	LC 8251 BHL x 186PALP	US32D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	PR7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
1	Gasketing	P88D		PE

Set: 40.0

Doors: A101, J118, T106
Description: Single Staff Restroom Rated

3	Hinge, Full Mortise, Hvy Wt	H T4A3386xNRP 4-1/2" x 4-1/2" TXS	US32D	MK
1	Storeroom Deadbolt	LC 8251 BHL x 186PALP	US32D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
1	Surface Closer	CPS7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Gasketing	P88D		PE

Set: 41.0
Doors: B108, B110
Description: Single Corridor Restroom

3	Hinge, Full Mortise, Hvy Wt	T4A3786 4-1/2" x 4-1/2" TXS	US26D	MK
1	Pull Plate	BF 111x70C TORX	US32D	RO
1	Push Plate	70E TORX	US32D	RO
1	Surface Closer	S7500 TORX	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	400 TORX	US26D	RO
3	Silencer	608-RKW		RO

Set: 42.0
Doors: B106A
Description: Pair Storage Rated

6	Hinge, Full Mortise, Hvy Wt	T4A3786 NRP 4-1/2" x 4-1/2" TXS	US26D	MK
2	Flush Bolt	555 TORX	US26D	RO
1	Dust Proof Strike	570 TORX	US26D	RO
1	Storeroom/Closet Lock	LC 8204 7/8" Lip Length LNJ	US26D	SA
1	Mortise Cylinder	33602012N MK x Cam/Collar as Req.	26	MC
1	Small Format Inter Core	33600006BICCK	26	MC
2	Surface Closer	CPS7500T	689	NO
2	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Astragal	357SP (Paint to match door)		PE
2	Silencer	608-RKW		RO

Notes: Mount astragal on pull side of active leaf and size doors for 1/8” clearance between leaves. Paint astragal to match doors.

Set: 43.0
Doors: 100C, 100D, J110B, J110C, R104A, R108A, R108B, T105B, T107C, U100B, U103B
Description: Overhead Door (DPS)

1	Position Switch	Type as Required for OHD		SU

Notes: All hardware furnished by door manufacturer.

Operation:
1. Door position switch to signal door open/closed to the access control system.

END OF SECTION

SECTION 11 1900 - DETENTION EQUIPMENT

PART 1 – GENERAL

1.01 DESCRIPTION

A. This section must be provided under this contract by a qualified DEC contractor.

B. This Section consists of furnishing all plant, labor equipment, appliances, services and materials to perform all work in connection with the installation of detention equipment complete, in strict accordance with the specifications and the applicable drawings. The types of work included in this section are as follows:

1. Detention hollow metal doors and frames.
2. Detention hollow metal borrowed light frames and Security Glass.
3. Detention Access Doors.
4. Related items of work to be performed by others include the following:
    a. Electronic Wiring and termination for all above controls.
    b. Unloading, handling and setting of items, which are to be embedded in masonry or concrete.
    c. Field cleaning, touch-up and finish painting.
    d. Installation of all mechanical connections and plumbing connections.
    e. All concrete, masonry work and caulking.
5. Related Documents:
    a. Detention Contractors Work:
        1) The work consists of the provision and installation of all detention items delineated within the detention drawings and specifications.
        2) The scope of the work includes all work required for the complete installation of detention hollow metal doors, detention frames, security glazing including 1/2" polycarbonate.
    b. The following sections shall be provided by one DEC contractor:
        1) Section 111900 – Detention Equipment
        2) Section 111910 – Detention Furnishing
        3) Section 111940 – Security Glazing
        4) All related Division 28 Sections
        5) The detention contractor shall be responsible for the coordination, supply and layout of all steel imbeds as required for a complete installation of windows and furnishings.
        6) Detention contractor shall set, brace, level and plumb all Security Door Frames.
        7) If the Detention Contractor needs additional AC Power other than as shown on drawings, the cost of additional power shall be responsibility of the Detention Contractor.
6. The following items are by the General Contractor:
    a. All Security Caulking.
    b. All Finish Painting.
7. The following items are furnished and installed by the Detention Equipment Contractor:
    a. Security Hollow Metal Door Frames. Frames shall be properly braced prior to masonry being installed. Any frame out of tolerance shall be removed and reinstalled at the Detention Contractor’s expense.
    b. Security Doors.
    c. Security Hardware - DEC shall furnish and install all detention locking hardware for work of project.
    d. Security Glazing.

1.02 QUALITY ASSURANCE

A. Qualifications of Detention Equipment Contractor:

B. Any Detention Equipment Contractor who intends on submitting a bid on this section of the specifications shall specialize in and be experienced in the manufacturing, delivery, installation and maintenance of detention equipment. Each Detention Equipment Contractor including those listed herein must submit the following information as herein listed.
   1. Evidence that the Detention Equipment Contractor as named on bid documents has documented experience and has documented experience in successfully completing projects of equal scope and magnitude with the same specified herein. DEC to provide list of previous completed projects that indicate experience. List is to include an overall scope and size description of project, total construction cost, total DEC contract amount, and general contractor and architect's current contact information.
   2. A list of all jobs in the past five (5) years in which the Detention Equipment Contractor has been involved in litigation with a local, state and/or federal governmental agency and the status thereof.
   3. Grounds for disqualification shall exist if it is proven that the information submitted is inaccurate or, in the opinion of the Owner, Architect, Engineer, does not satisfy the qualification requirements.
   4. Approval of a Security Contractor does not relieve the Detention Equipment Contractor of furnishing information listed above or from furnishing materials from the manufacturers herein specified.
   5. Qualification of the Detention Equipment Contractor, Manufacturer: Throughout the specification and drawings, type of material may be specified by the manufacturer's name and catalog number in order to establish standards of quality and performance. The bidder shall include all items as specified. Substitutions must be submitted seven (7) working days prior to receipt of bids. Approved products, items will be published and issued by addenda (only). Substitutions will NOT be considered after deadline. Should the substituted items not be accepted, the bidder must provide, furnish and install the specified approved product, item. The following submittal requirements must be strictly adhered to when submitting a substitute product to the Architect for approval.
      a. Submittal Requirements: In addition to a written request for equality, a sample of each lock, device, control, etc. performance data, catalog information, and a written list showing names, locations, and Architects, engineers of seven (7) institutions of which similar materials have been installed for a period of seven (7) years shall also be submitted.
      b. Operating and Maintenance Manuals: Detention equipment contractor shall furnish three (3) copies of a parts manual for all security locks, hardware, control systems equipment and provide instructions for the operation and care of the equipment. Manuals shall be scanned and provided on CD for inclusion with other manuals.
   6. Detention Hollow Metal: Provide products and items from manufacturers who have not less than seven (7) years successful experience with, and shall now be actively engaged in, the design and manufacturing of detention hollow-metal doors, frames of the type required for this project. The same manufacturer shall produce all detention hollow-metal doors and frames.
      a. Submittal Requirements: In addition to a written request for equality, a full-size corner sample of each type door and frame showing door construction, face stiffening, insulation, and top hinge reinforcement; details of each type of door and frame, performance data; catalog information and a written list showing the names, locations, and architects of a minimum of seven (7) institutions for which similar materials have been installed for a period of seven (7) years shall be submitted.

1.03 CODES

A. All work shall be in compliance with the latest editions (and revisions thereto) of the following codes and requirements:
   1. State and Local codes and ordinances.
   2. National Electrical Code.

3. Local electrical code at location of installation.
4. Occupational Safety and Health Administration, U.S. Department of Labor.
5. Test Reports: As required herein.

1.04 GUARANTEE

A. Prior to final acceptance, Detention Equipment Contractor shall provide a written warranty-covering door operating and locking mechanisms. Warranty shall guarantee the satisfactory operation of all doors operating and locking mechanisms for a period of two (2) years (except on paint finish) after final acceptance. During this period, Detention Equipment Contractor shall, without cost to Owner, make any necessary adjustments to the mechanism or replace any worn or broken parts due either to faulty material or defective construction within twenty-four (24) hours of notification.

B. The Detention Equipment Contractor is to warranty his material and workmanship on this project for a period of two (2) years (except on paint finish) after date of acceptance by Owner. Detention Equipment Contractor agrees to repair replace any defective security materials and to correct any defective security work when given written notice during the warranty period. In no event shall the Detention Equipment Contractor be liable for consequential, incidental special damages. Vandalism, misuse or excessive abuse is also excluded from this warranty.

1.05 DELIVERY AND HANDLING OF DETENTION EQUIPMENT

A. Embedded items of Detention Equipment that are to be set in concrete or masonry by the General Contractor shall be furnished and delivered by the Detention Equipment Contractor, F.O.B. his truck or common carrier, to the building site and there unloaded by the General Contractor so as not to delay the truck's departure from the building site. General contractor shall be responsible for security of the embedded items of detention equipment at the job site.

B. The General Contractor shall provide the required openings of sufficient size through the outside walls to permit the placing of the detention equipment in the areas of the building where it is to be installed, as designated by Detention Equipment Contractor.

C. The Detention Equipment Contractor shall deliver and be responsible for placing in the building, all Detention Equipment that he is to install as part of his contract.

1.06 COORDINATION OF DOOR CONTROL INTERFACE RESPONSIBILITIES

A. DEC to coordinate all door control interface responsibilities. Reference Division 28 "Electronic Safety and Security" for Security Equipment Contractor responsibilities.

B. Detention Equipment Contractor responsibilities shall include the following:
   1. Furnish wiring drawings and other information as required for design and installation of the door control system. Shop drawings shall be furnished to the SEC for coordination and installation.
   2. Provide boxes or pockets in the door frame for the door position switches, locks, keyswitches, push buttons, etc.
      a. Extend the lock pocket to accommodate jamb mounted push buttons and/or keyswitches or provide a means to install and maintain these devices.
      b. Provide interconnecting conduit in the door frame to interconnect the boxes and pockets.
      c. Provide door locks, door position switches, limit switches, lock feature switches, keyswitches, and push buttons for the system to perform the functions specified throughout all specification sections.
         1) Locking hardware that has direct current (DC) solenoids shall include diodes for transient protection.
      d. Interconnect all components described herein to a cable harness that provides a single point of interconnection for the SEC.
         1) For swing doors, the interface point between the door control system and the door hardware shall be the lock pocket.

2) The cable harness shall include a 6 inch minimum "pigtail" terminated with Molex type connectors. This connector(s) shall provide all of the interconnection between the components at the door and the control system.

e. Adjust all locks and switches for proper mechanical alignment after installation. The door position switch shall be adjusted to provide an open indication before the door or gate is opened far enough to provide a 1/16 inch gap between the strike plate and the lock.

PART 2 – PRODUCTS

2.01 MATERIALS

A. All materials required for the work specified herein shall be new and produced especially for the detention use or shall conform to accepted standards of the detention equipment industry.

B. Electrical components, including motors, switches and relays, shall be the best of their kind and quality manufactured by nationally recognized manufacturers.

2.02 DETENTION LOCKS AND HARDWARE

A. All detention locks and cylinders shall be provided by a single manufacturer for work of project. Approved manufacturers of Detention Hardware for the project are Southern Steel, Folger Adams, RR Brink, and Airteq.

B. Institutional Mortise Locks: Mortise Locks shall be as indicated in the Detention Hardware Schedule based on Southern Steel 10500/10600 Series. Include mogul cylinder operation. Standard features include the following:
   1. Lever handles.
   2. Faceplate with security fasteners.
   3. High security roses with security fasteners.
   4. Deadlock indication switch at electrified locks.

C. Electro/Mechanical Detention locks: Doors to be provided with Electro/Mechanical Detention Locks shall be as indicated on the Detention Door/Hardware schedule. Interior mechanism of the detention lock shall provide for the following:
   1. Remote electric push-button unlocking with indications.
   2. Manual unlocking by key at the door.
   3. Automatic mechanical deadlocking of door upon closing.
   4. Electro/Mechanical Lock shall be mounted in special pocket in doorframe as shown on drawings/templates.
   5. Swinging doors to be equipped with an Electro/Mechanical Detention Lock shall be provided with heavy-duty institutional concealed door closer with built-in door position switch indicator included as indicated on security hardware schedule.

D. Door closers: Shall be Norton 7970 Series, Sargent 269 Series, or LCN 2210 Series, to be provided where indicated by the Detention Door Hardware Schedule or where indicated to have a door position switch on the Security Electronics plans, and shall function as follows:
   1. All detention doors to have a closer.
   2. All exterior detention doors to be insulated.
   3. All exterior detention doors to have weather stripping and ADA compliant threshold.
   4. All fire-rated doors to have a closer and gasketing.
   5. All smoke doors to have gasketing.

E. Keys: Mogul Detention Keys shall be silicon bronze/copper alloy having a tensile strength of 60,000 p.s.i., a yield strength of 20,000 p.s.i., and a Rockwell hardness of B-73/75. Furnish three (3) keys for each key change. All keys are to be stamped with designated identifying number of letter.

F. Key Schedule: Furnish complete key schedule for all locks to be provided under this section. The Owner's representative shall provide Detention Equipment Contractor with the

required information for preparation of the key schedule. Owner and DEC to coordinate key schedule after information is provided.

G. Keying Conference: Conduct conference at Project site and is to be at attended by Architect, Owner, Umbrella Agency and User Agency, hardware consultant and hardware supplier. Keying conference to incorporate the following criteria into the final keying schedule document:
   1. Function of building, purpose of each area and degree of security required.
   2. Plans for existing and future key system expansion.
   3. Requirements for key control system.
   4. Installation of permanent keys and cylinder cores.
   5. Address and requirements for delivery of keys.

H. Detention Door Hinges: Detention Type Hollow Metal Swinging Doors shall be hung on four (4) #4-1/2 x 4-1/2 butt hinges. Plate Detention Swing Doors or Tube Detention Swing Doors shall be hung on four (4) 5" x 5" butt weld on hinges. Hinges shall be ASTM Grade 1 and manufactured by a U. S. manufacturer.

I. Detention Door Pulls: Shall be flush pulls as indicated in Drawings, and as fabricated by Trimco 1115B Flush Pull Set, Rockwood 94 Series Flush Pull, Southern Steel 214S or prior approved equal.

J. Door Stops: Detention Doors/Hardware Schedule indicates doors to be with stops for limiting swings of doors in the open position. Detention Hollow Metal doors under this section shall be provided, where indicated, with heavy-duty dome type floor-mounted bumpers.

K. Kick Plates: Shall be based on Rockwood K1050 series as specified the Detention Hardware Schedule. Provide beveled edges and countersunk screw holes. Equal manufacturers include Ives and Trimco.

L. Thresholds and Weatherstrip: Thresholds, weatherstripping, and gasket seals to be of type and design as specified in the Detention Hardware Schedule. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated. Products based on Pemko. Equal manufacturers include Zero and National Guard Products.

2.03 DETENTION DOOR HARDWARE SETS

A. Manufacturer Abbreviations:
   1. SS - Southern Steel
   2. KG – Kingsway Group
   3. PE - Pemko
   4. RO - Rockwood
   5. TC - Trimco
   6. NO – Norton

Set: D1.0
Doors: 100A, 100B, A102, A103A, A115, C107A, J101, R108C, S108B, S139B, T107A, T110A
Description: Single Exterior (Control)

4	Institutional Hinge	204FMSS	US32D	SS
1	Full Cycle Deadlatch	10120AM-2 24V	GALV	SS
2	Mogul Cylinder	Mogul Cylinder	US26D	SS
1	Flush Pull	214S - Push Side Mount	US26D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO

1	Detention Door Stop	420	BLACK	SS
1	Gasketing	290APK Torx (Head & Jambs)		PE
1	Rain Guard	346C Torx		PE
1	Sweep	315CN Torx		PE
1	Threshold	2705AT Torx		PE
1	Magnetic Switch	200MRS TB		SS

Notes: Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the central control system. When doors are locked central control grants access. Locksets mechanically lock during power failure with a mechanical key override.
2. Door position switch to signal door open/closed to the central control system.

Set: D2.0
Doors: D108, D108B, F108, F108B, G108, G108B, H108, H108B, J100B, K108, K108B, L108, L108B, N108, N108B, P108, P108B, Q108, Q108B
Description: Single Exterior (Control)

4	Institutional Hinge	204FMSS	US32D	SS
1	Full Cycle Deadlatch	10120AM-2 24V	GALV	SS
2	Mogul Cylinder	Mogul Cylinder	US26D	SS
1	Flush Pull	214S - Push Side Mount	US26D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970	689	NO
1	Detention Door Stop	420	BLACK	SS
1	Gasketing	290APK Torx (Head & Jambs)		PE
1	Rain Guard	346C Torx		PE
1	Sweep	315CN Torx		PE
1	Threshold	2705AT Torx		PE
1	Magnetic Switch	200MRS TB		SS

Notes: Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the central control system. When doors are locked central control grants access. Locksets mechanically lock during power failure with a mechanical key override.
2. Door position switch to signal door open/closed to the central control system.

Set: D3.0
Doors: A100, A103B, A108A, A121, A123C, B102A, B102B, C101A, C104, C105, C107, C116, S108A, S139A, T110B
Description: Single Interior (Control)

4	Institutional Hinge	204FMSS	US32D	SS
1	Full Cycle Deadlatch	10120AM-2 24V	GALV	SS
2	Mogul Cylinder	Mogul Cylinder	US26D	SS
1	Flush Pull	214S - Push Side Mount	US26D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	KG182GR Torx	630	KG
1	Silencer	608-RKW		RO

Notes: Template closer for maximum degree of opening.

Operation:

1. Doors electrically unlocked or locked during established time zones as programmed by the central control system. When doors are locked central control grants access. Locksets mechanically lock during power failure with a mechanical key override.
2. Door position switch to signal door open/closed to the central control system.

Set: D4.0
Doors: D103, F103, G103, H103, K103, L103, N103, P103, Q103
Description: Single Interior (Control)

4	Institutional Hinge	204FMSS	US32D	SS
1	Full Cycle Deadlatch	10120AM-2 24V	GALV	SS
2	Mogul Cylinder	Mogul Cylinder	US26D	SS
1	Flush Pull	214S - Push Side Mount	US26D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Wall Stop	KG182GR Torx	630	KG
1	Silencer	608-RKW		RO

Notes: Template closer for maximum degree of opening.

Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the central control system. When doors are locked central control grants access. Locksets mechanically lock during power failure with a mechanical key override.
2. Door position switch to signal door open/closed to the central control system.

Set: D5.0
Doors: A104, A105, A110A, A123A, B103, B103A, B103B, B103C, B103D, B104, C100, C100A, C103, C106, C110, C118, C120, C122, D101, D102, D106, D107, F101, F102, F106, F107, G101, G102, G106, G107, H101, H102, H106, H107, K101, K102, K106, K107, L101, L102, L106, L107, N101, N102, N106, N107, P101, P102, P106, P107, Q101, Q102, Q106, Q107, R107A, R108
Description: Single Interior (Control)

4	Institutional Hinge	204FMSS	US32D	SS
1	Full Cycle Deadlatch	10120AM-2 24V	GALV	SS
2	Mogul Cylinder	Mogul Cylinder	US26D	SS
1	Flush Pull	214S - Push Side Mount	US26D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Detention Door Stop	420	BLACK	SS
1	Silencer	608-RKW		RO

Notes: Template closer for maximum degree of opening. Eliminate stop where not viable.

Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the central control system. When doors are locked central control grants access. Locksets mechanically lock during power failure with a mechanical key override.
2. Door position switch to signal door open/closed to the central control system.

Set: D6.0
Doors: A109A, A110B, A120A, A123B, A125, A128, A145A, A145B, A153A, A153B, B102C, C102, C108, C112A, C112B, C114, D100, F100, G100, H100, K100, L100, N100, P100, Q100, R104, S116, S125
Description: Single Interior Rated (Control)

4	Institutional Hinge	204FMSS	US32D	SS
1	Full Cycle Deadlatch	10120AM-2 24V	GALV	SS
2	Mogul Cylinder	Mogul Cylinder	US26D	SS
1	Flush Pull	214S - Push Side Mount	US26D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Detention Door Stop	420	BLACK	SS
1	Gasketing	P88D		PE

Notes: Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the central control system. When doors are locked central control grants access. Locksets mechanically lock during power failure with a mechanical key override.
2. Door position switch to signal door open/closed to the central control system.

Set: D7.0
Doors: J100A, R100, R106, R107, S100, S101, S102, S103, S104, S105, S106, S131, S133, S135, S137, S138, S140, T100, T105, T108
Description: Single Interior Rated (Control)

4	Institutional Hinge	204FMSS	US32D	SS
1	Full Cycle Deadlatch	10120AM-2 24V	GALV	SS
2	Mogul Cylinder	Mogul Cylinder	US26D	SS
1	Flush Pull	214S - Push Side Mount	US26D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Detention Door Stop	420	BLACK	SS
1	Gasketing	P88D		PE

Notes: Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the central control system. When doors are locked central control grants access. Locksets mechanically lock during power failure with a mechanical key override.
2. Door position switch to signal door open/closed to the central control system.

Set: D8.0
Doors: A106, A107, A122, A125A, A125B, A125C, A125D, A125E, A125F, A130, D104, F104, G104, H104, J114, K104, L104, N104, P104, Q104, R106B, ~~S107, S136, T102~~
Description: Single Holding Cell, Youth Restroom (Control)

4	Institutional Hinge	204FMSS	US32D	SS
1	Full Cycle Deadlatch	10120AM-1 24V	GALV	SS
1	Mogul Cylinder	Mogul Cylinder	US26D	SS
1	Flush Pull	214S - Push Side Mount	US26D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Detention Door Stop	420	BLACK	SS
3	Silencer	608-RKW		RO

Notes: Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the central control system. When doors are locked central control grants access. Locksets mechanically lock during

power failure with a mechanical key override.
2. Door position switch to signal door open/closed to the central control system.

Set: D9.0
Doors: A125H, D110, D111, D112, D113, D114, D115, D116, D117, D118, D119, F110, F111, F112, F113, F114, F115, F116, F117, F118, F119, G110, G111, G112, G113, G114, G115, G116, G117, G118, G119, H110, H111, H112, H113, H114, H115, H116, H117, H118, H119, K110, K111, K112, K113, K114, K115, K116, K117, K118, K119, L110, L111, L112, L113, L114, L115, L116, L117, L118, L119, N110, N111, N112, N113, N114, N115, N116, N117, N118, N119, P110, P111, P112, P113, P114, P115, P116, P117, P118, P119, Q110, Q111, Q112, Q113, Q114, Q115, Q116, Q117, Q118, Q119, S134
Description: Single Holding Cell, Youth Restroom Rated (Control)

4	Institutional Hinge	204FMSS	US32D	SS
1	Full Cycle Deadlatch	10120AM-1 24V	GALV	SS
1	Mogul Cylinder	Mogul Cylinder	US26D	SS
1	Flush Pull	214S - Push Side Mount	US26D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Wall Stop	KG182GR Torx	630	KG
1	Gasketing	P88D		PE

Notes: Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the central control system. When doors are locked central control grants access. Locksets mechanically lock during power failure with a mechanical key override.
2. Door position switch to signal door open/closed to the central control system.

Set: D10.0
Doors: A122, A124, A126, S107, S136, T102
Description: Single Holding Cell, Youth Restroom Rated (Control)

4	Institutional Hinge	204FMSS	US32D	SS
1	Full Cycle Deadlatch	10120AM-1 24V	GALV	SS
1	Mogul Cylinder	Mogul Cylinder	US26D	SS
1	Flush Pull	214S - Push Side Mount	US26D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Detention Door Stop	420	BLACK	SS
1	Gasketing	P88D		PE

Notes: Operation:
1. Doors electrically unlocked or locked during established time zones as programmed by the central control system. When doors are locked central control grants access. Locksets mechanically lock during power failure with a mechanical key override.
2. Door position switch to signal door open/closed to the central control system.

Set: D11.0
Doors: S116A
Description: Single College Academy

4	Institutional Hinge	204FMSS	US32D	SS
1	Roller Latch	590 TORX	US26D	RO
1	Deadlock	10516	US32D	SS
1	Flush Pull	214S - Push Side Mount	US26D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC

1	Concealed Closer	7970	689	NO
1	Detention Door Stop	420	BLACK	SS
3	Silencer	608-RKW		RO

Set: D12.0
Doors: A129, A133, A141, A143, A147
Description: Single Dentist, Opt, Exam, Lab Rated

4	Institutional Hinge	204FMSS	US32D	SS
1	Storeroom Lock	10572 SK x SK	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970	689	NO
1	Detention Door Stop	420	BLACK	SS
1	Gasketing	P88D		PE

Set: D13.0
Doors: A112, ~~R110, R112~~
Description: Single Storage, Office

4	Institutional Hinge	204FMSS	US32D	SS
1	Storeroom Lock	10573	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Detention Door Stop	420	BLACK	SS
3	Silencer	608-RKW		RO

Set: D14.0
Doors: A129A, A129B
Description: Single XRAY, Equipment

4	Institutional Hinge	204FMSS	US32D	SS
1	Storeroom Lock	10573	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	KG182GR Torx	630	KG
3	Silencer	608-RKW		RO

Set: D15.0
Doors: ~~R115~~Not Used
Description: Single Janitor

4	Institutional Hinge	204FMSS	US32D	SS
1	Storeroom Lock	10573 SK	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970	689	NO
1	Wall Stop	KG182GR Torx	630	KG
3	Silencer	608-RKW		RO

Set: D16.0
Doors: R100A, R100C
Description: Single Storage

4	Institutional Hinge	204FMSS	US32D	SS

1	Storeroom Lock	10573 SK	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970	689	NO
1	Detention Door Stop	420	BLACK	SS
3	Silencer	608-RKW		RO

Set: D17.0
Doors: B115, ~~E103,~~ E104, E106, E107, E108, E109, E112, E113, E114, E115, E116, E117, E120, E121, E122, E123, R100D, S115, S121
Description: Single Invest, Chase, Work, Elec Rated (DPS)

4	Institutional Hinge	204FMSS	US32D	SS
1	Storeroom Lock	10573	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Detention Door Stop	420	BLACK	SS
1	Gasketing	P88D		PE

Notes: Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: D18.0
Doors: A127, B111, B113, T101
Description: Single Bio, Office, Break, Commander Rated

4	Institutional Hinge	204FMSS	US32D	SS
1	Storeroom Lock	10573	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Detention Door Stop	420	BLACK	SS
1	Gasketing	P88D		PE

Set: D19.0
Doors: M109, S108C, T100A, T104
Description: Single Mech, Chase Rated (DPS)

4	Institutional Hinge	204FMSS	US32D	SS
1	Storeroom Lock	10573	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Wall Stop	KG182GR Torx	630	KG
1	Gasketing	P88D		PE

Notes: Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: D20.0 – Not Used
~~Description: Single Elec Rated (DPS)~~

~~4~~	~~Institutional Hinge~~	~~204FMSS~~	~~US32D~~	~~SS~~
~~1~~	~~Storeroom Lock~~	~~10573~~	~~US32D~~	~~SS~~
~~1~~	~~Concealed Closer~~	~~7970DPS~~	~~689~~	~~NO~~

~~1~~	~~Kick Plate~~	~~K1050 10" x 2" LDW BEV CSK TORX~~	~~US32D~~	~~RO~~
~~1~~	~~Wall Stop~~	~~KG182GR Torx~~	~~630~~	~~KG~~
~~1~~	~~Gasketing~~	~~P88D~~		~~PE~~

~~Notes: Operation:~~
~~1. Door position switch to signal door open/closed to the access control system.~~

Set: D21.0
Doors: A111, A125G, D105, F105, F109, G105, H105, J116, K105, K109, L105, N105, P105, Q105, ~~T100A,~~ T105A
Description: Single Storage, Chase, Office, Snack, Staff Restroom (DPS)

4	Institutional Hinge	204FMSS	US32D	SS
1	Storeroom Lock	10573	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Kick Plate	K1050 10" x 2" LDW BEV CSK TORX	US32D	RO
1	Detention Door Stop	420	BLACK	SS
3	Silencer	608-RKW		RO

Notes: Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: D22.0
Doors: J110, J112
Description: Single Office, Snack (DPS)

4	Institutional Hinge	204FMSS	US32D	SS
1	Storeroom Lock	10573 SK	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Detention Door Stop	420	BLACK	SS
3	Silencer	608-RKW		RO

Notes: Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: D23.0
Doors: R121, R122, ~~R122A,~~ S114, S140A
Description: Single Storage Rated

4	Institutional Hinge	204FMSS	US32D	SS
1	Storeroom Lock	10573 SK	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970	689	NO
1	Detention Door Stop	420	BLACK	SS
1	Gasketing	P88D		PE

Set: D24.0
Doors: J120, S112
Description: Single Storage Rated (DPS)

4	Institutional Hinge	204FMSS	US32D	SS
1	Storeroom Lock	10573 SK	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC

1	Concealed Closer	7970DPS	689	NO
1	Detention Door Stop	420	BLACK	SS
1	Gasketing	P88D		PE

Notes: Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: D25.0
Doors: T107
Description: Single Storage Rated (DPS)

4	Institutional Hinge	204FMSS	US32D	SS
1	Storeroom Lock	10573 SK	US32D	SS
1	Flush Pull	1115 TORX - Pull Side Mount	630	TC
1	Concealed Closer	7970DPS	689	NO
1	Detention Door Stop	420	BLACK	SS
1	Gasketing	P88D		PE

Notes: Mount pull above safety knob on pull side.

Operation:
1. Door position switch to signal door open/closed to the access control system.

Set: D26.0
Doors: A108B
Description: Single Manual Sliding Door

Notes: All hardware by door supplier. Include manual slider with mechanically keyed locking.

Set: D27.0
Doors: G1, G2, G5, G6, GD108, GF108, GH108, GK108, GL108, GP108
Description: Single Detention Gate (Control)

1	Electric Gate Lock	1050D		SS

Notes: Balance of hardware including hinges and closer furnished by gate manufacturer. Gates to be prepped and reinforced to accept hardware. Prior to ordering hardware or fabricating gates, coordinate to ensure hardware is compatible with gate system.

Set: D28.0
Doors: G7
Description: Single Gate

Notes: All hardware by gate supplier.

Set: D29.0
Doors: G8
Description: Pair Gate

Notes: All hardware by gate supplier.

Set: D30.0
Doors: G3, G4, G9
Description: Sliding Gate

Notes: All hardware by gate manufacturer.

2.04 DETENTION HOLLOW METAL

A. Items covered under this section of the specifications are:
   1. Detention type doors of all types and all related items necessary to complete the work-related items necessary to complete the work indicted on the drawings and as described in the specifications.
   2. Detention type frames of all types including sidelights, visitation area framing and all related items necessary to complete the work indicated on the drawing, and as described in the specifications.
   3. Quality Assurance
      a. Experience Criteria: Documented experience in manufacturing detention hollow metal products.
      b. Product Supplier: one company shall manufacture both doors and frames. Supply samples of each type of door and frame.
      c. Shop Assembly: Pre-assemble products in shop to greatest extent possible to minimize field splicing and assembly. Disassemble products only as necessary for shipping and handling limitations. Clearly mark products for reassemble.
      d. Fire Rated Assemblies:
         1) Wherever a detention hollow metal assembly is located in a fire-rated wall/partition, the detention hollow metal assembly must meet or exceed the fire rating of the wall/partition. Identify each fire door and frame with UL labels indicating applicable fire rating.
         2) Install assemblies to comply with NFPA standard #80.
      e. Performance Testing:
         1) Submit an independent testing laboratory report certifying the following minimum performance of the manufacturer's typical prison door.
         2) Static Load Test: Under centrally applied load of 14,000 lbs. At quarter points, the maximum permitted deflection shall be 0.45" with a rebound of 0.010" after release of load.
         3) Rack Test: Under a concentrated load of 7,000 lbs., maximum deflection shall not exceed 3.5" without failure
      f. Delivery, Storage and Protection:
         1) Delivery of detention hollow metal doors crated to provide protection during transit. Frames shall ship with two (2) spreader bards.
         2) Inspect hollow metal work upon delivery for damage.
         3) Store doors and frames under cover. Place units on at least 4" high wood sills or on floors in a manner that will prevent rust or damage. Avoid the use of non-vented plastic or canvas, which could create a humidity chamber. Provide a ¼" space between stacked doors to promote air circulation.
   4. Applicable Reference Standards:
      a. Comply with the following standards:
         1) ASTM A569-Hot rolled low carbon steel sheets.
         2) ASTM A366-Cold rolled low carbon steel sheets.
         3) ASTM A525-Zinc coated by hot dipped process steel sheets.
         4) ASTM A526-Zinc coated by hot dipped process steel sheets.
   5. Submittal:
      a. Shop Drawings:
         1) Submit composite type drawings showing detailed construction including door and frame elevations, sections, anchors, visitation areas detail and related type of construction. (All drawings must be computer generated).
         2) Submit on-site instructions.
   6. Acceptable Manufacturers:

a. The following manufacturers are pre-approved to furnish detention hollow metal for this project:
b. **Basis of Design:** R & S Corporation
c. Habersham
d. Trussbilt
e. Pioneer Industries
f. Other manufacturers requesting approval must meet the requirements specified in Section 1.2, C, 1 and furnish the additional information listed below:
    1) List of projects completed in the last five (5) years (include Owner and Architect's address and phone number).
    2) List of projects under construction (include Owner and Architect's address and phone number).

7. Fabrication:
    a. Detention Doors:
        1) General: Provide detention-type hollow metal doors and related frames where designated on drawings.
        2) Door Construction:
            (a) Type: Detention hollow metal doors, nominal 2" thick jambs, unless indicated otherwise or as required to fit existing door frame conditions, and 4" head sections as designated on drawings; flush design, with smooth seamless steel faces and side edges of 12 gauge steel unless otherwise noted. Use galvanized steel at exterior doors.
            (b) Vertical steel channel or steel hat sections full height of door with flanges occurring against each door face at not more than 3" on centers, each welded to face sheets at maximum 4" o.c. or inner reinforcements may be a continuous true truss design form with flat apexes occurring against each door face at not more than 3" o.c. and each apex spot welded to face sheet at maximum 4" o.c.
            (c) Channel perimeter reinforcement: Minimum 10 gauge welded to face sheets at maximum 4" o.c. around full perimeter of door.
            (d) Insulation: 6 lb. density wool filling voids within door panel.
        3) Hardware Preparation:
            (a) Prepare and reinforce doors for operation and hardware specified in detention door hardware schedule.
            (b) Where hardware requires fastener attachment, provide additional concealed reinforcing, drill and tap to receive tamper-resistant security fasteners. Through bolting will not be accepted in place of additional reinforcing.
            (c) For mortise hinges, provide back-up reinforcement of 3/16" x 1-1/2" x 9" steel plate at each hinge, welded to perimeter channel of door.
            (d) For surface hinges when applicable, provide additional back-up reinforcement of minimum 3/8" x 9" steel plat at each hinge, welded into door between vertical reinforcement.
            (e) Provide special reinforced lock pockets where detention locks are required consisting 3/16" steel plate on sides and perimeter edges of pocket, and provide for removable lock cover plate on secure side of door to be flush with door face.
        4) Door Edges:
            (a) Bevel vertical edges of swinging doors as required to prevent binding, but no greater than 1/8" in 2".
            (b) Top and bottom edges of door of flush construction, top watertight when exposed to weather elements. Side edges flush and seamless produced by continuously welding joint of face sheets and grinding smooth. Furnish astragal for door pairs in exterior walls.

5) Vision Panels:
   (a) Prepare and enforce doors for vision panels where required. Provide frame and stops to accommodate glazing.
   (b) Weld frame and stop to door on "detention" side. Attach frame and stop on "non-secure" side with tamper-resistant security fasteners at 4" o.c.
6) Accessory Items:
   (a) Provide for installation of accessory items for doors.
   (b) Prepare and reinforce doors for these accessory items to maintain rigidity and security of basic door construction.
   (c) Provide flush side edges at opening, welded and ground smooth.
7) Detention Door Frames:
   (a) Detention hollow metal frames: Formed with integral stops, fabricated to size and profile shown using minimum 12 gauge steel unless otherwise noted.
      (1) Corners of frames shall be fully mitered, continuously welded and ground smooth.
      (2) Fabricated from galvanized sheet steel at exterior locations.
   (b) Anchors: Provide door frames built-in to concrete or masonry with a floor anchor at each jamb and minimum 4 wall anchors, each jamb of type detailed and suitable for wall construction involved.
      (1) For conditions, which require welded anchorage, provide for such welded anchorage.
      (2) Furnish frames to job-site with temporary bottom spreader.
   (c) Hardware Preparation:
      (1) Prepare and reinforce frame for operation and hardware specified in detention door hardware schedule.
      (2) Where hardware requires fastener attachment, drill and tap to receive tamper-resistant security fasteners.
      (3) For mortise hinges, provide minimum 3/16" x 1-1/2" x 9" steel plate reinforcement welded to frame at each hinge.
      (4) For surface hinges, provide minimum 3/8" x 1-1/2" x 9" steel plate reinforcement welded to frame at hinge.
      (5) Provide reinforced lock pockets for jamb mounted Electro/mechanical locks consisting of minimum 3/16" steel plate back-up reinforcement welded to frame, and provide for removable lock cover plate on secure side of frame, flush with face of frame unless otherwise detailed.
      (6) Provide slots in frames to receive latch and lock bolts as applicable and provide for strike plate for bolt keeper plate as required.
      (7) Provide steel mortar guard at lock bolt keeper slot and behind other cutouts for mortise hardware as applicable.
      (8) Provide factory installed metal junction boxes and metal conduit between lock pocket and door position indicator on door frames receiving jamb-mounted electric lock and concealed door closure. Junction box, minimum 1/2" conduit and related connectors shall be UL approved.
   (d) Sidelight/Transom Frames:
      (1) Provide fixed stops and loose steel stops as detailed. Use loose stops on "non-secure" side of opening and attach at countersunk tamper-resistant security fasteners.
      (2) Verify thickness of glazing material and clearances required for installation, prior to fabrication of frames and stops.
   (e) Edge Clearances: Provide the following edge clearances:
      (1) Between doors and frames at head and jamb: 1/8"
      (2) Between meeting stiles: 1/8"

(3) Sill without threshold: 1/2"
(4) Sill with threshold: 1/8" between threshold and door.

PART 3 - EXECUTION

3.01 GENERAL REQUIREMENTS:

A. Examine and inspect all surfaces, anchors and grounds that are to receive materials, fixtures, assemblies and equipment specified herein. Report all unsatisfactory conditions in writing to the Architect and Construction Manager.

B. Check location, "roughing in", and field dimensions prior to beginning work.

C. Do not begin installation until all satisfactory conditions have been corrected

3.02 RESPONSIBILITIES:

A. The Electrical Contractor shall be responsible for the following:
   1. Electrical power to factory installed terminal blocks and power outlets including cut-off switches and all other electrical equipment incidental to supply power.
   2. The DEC shall be responsible for the installation and final adjustments of the following items:
      a. Security doors and locking systems
      b. Security glass

3.03 CONDUIT AND WIRING:

A. All Conduit and Wiring associated with the Detention Equipment Contractor Work to be provided and installed as specified in Division 28 "ELECTRONIC SAFETY AND SECURITY".

END OF SECTION

SECTION 23 08 10 - MECHANICAL SYSTEMS COMMISSIONING - ADDENDUM NO. 2

PART 1 - GENERAL

1.1 DESCRIPTION

A. The commissioning agent shall be hired by the owner under separate contract. See qualifications within section below.

B. Commissioning requires the participation of Division 23 to ensure that all mechanical systems are operating in a manner consistent with the Contract Documents.

C. Commissioning agent shall comply with section 1.2 CxA Qualifications.

D. Abbreviations. The following are common abbreviations used in the *Specifications* and in the *Commissioning Plan.*

A/E-	Architect and design engineers	FT-	Functional performance test
CxA-	Commissioning Authority	GC-	General contractor (prime)
CC-	Controls contractor	MC-	Mechanical contractor
CM-	Construction Manager (the Owner's representative)	PC-	Prefunctional checklist
Cx-	Commissioning	PM-	Project manager
Cx Plan-	Commissioning Plan document	Subs-	Subcontractors to General
EC-	Electrical contractor	TAB-	Test and balance contractor

1.2 CxA QUALIFICATIONS

A. The commissioning agent shall have a certification in good standing with AEE, NEBB or AABC.

B. Commissioning agent shall have experience in the commissioning of a minimum of 5 project similar to this project is equipment and size.

C. Commissioning agent shall not be owned by the contractor or the design team associated with the project.

1.3 RESPONSIBILITIES

A. Mechanical, Controls and TAB Contractors. The commissioning responsibilities applicable to each of the mechanical, controls and TAB contractors of Division 23 are as follows (all references apply to commissioned equipment only):

Construction and Acceptance Phases

1. Attend a commissioning scoping meeting and other meetings necessary to facilitate the Cx process.
2. Contractors shall provide the CxA with normal cut sheets and shop drawing submittals of commissioned equipment.
3. Provide additional requested documentation, prior to normal O&M manual submittals, to the CxA for development of start-up and functional testing procedures.
    a. Typically this will include detailed manufacturer installation and start-up, operating, troubleshooting and maintenance procedures, full details of any owner-contracted tests, fan and pump curves, full factory testing reports, if any, and full warranty information, including all responsibilities of the Owner to keep the warranty in force clearly identified. In addition, the installation, start-up and checkout materials that are actually shipped inside the equipment and the actual field checkout sheet forms to be used by the factory or field technicians shall be submitted to the Commissioning Agent.
    b. The Commissioning Agent may request further documentation necessary for the commissioning process.

c. This data request may be made prior to normal submittals.

4. Provide a copy of the O&M manuals and submittals of commissioned equipment, through normal channels, to the CxA for review and approval.
5. Contractors shall assist (along with the design engineers) in clarifying the operation and control of commissioned equipment in areas where the specifications, control drawings or equipment documentation is not sufficient for writing detailed testing procedures.
6. Provide limited assistance to the CxA in preparing the specific functional performance test procedures. Subs shall review test procedures to ensure feasibility, safety and equipment protection and provide necessary written alarm limits to be used during the tests.
7. Develop a full start-up and initial checkout plan using manufacturer's start-up procedures and the prefunctional checklists from the CxA for all commissioned equipment. Submit to CxA for review and approval prior to startup.
8. During the startup and initial checkout process, execute the mechanical-related portions of the prefunctional checklists for all commissioned equipment.
9. Perform and clearly document all completed startup and system operational checkout procedures, providing a copy to the CxA.
10. Address current A/E punch list items before functional testing. Air and water TAB shall be completed with discrepancies and problems remedied before functional testing of the respective air related systems.
11. Provide skilled technicians to execute starting of equipment and to execute the functional performance tests. Ensure that they are available and present during the agreed upon schedules and for sufficient duration to complete the necessary tests, adjustments and problem-solving.
12. Correct deficiencies (differences between specified and observed performance) as interpreted by the CxA, CM and A/E and retest the equipment.
13. Prepare O&M manuals according to the Contract Documents, including clarifying and updating the original sequences of operation to as-built conditions.
14. During construction, maintain as-built red-line drawings for all drawings and final CAD as-builts for contractor-generated coordination drawings. Update after completion of commissioning (excluding deferred testing).
15. Provide training of the Owner's operating staff using expert qualified personnel, as specified.
16. Coordinate with equipment manufacturers to determine specific requirements to maintain the validity of the warranty.

Warranty Period

1. Execute seasonal or deferred functional performance testing, witnessed by the CxA, according to the specifications.
2. Correct deficiencies and make necessary adjustments to O&M manuals and as-built drawings for applicable issues identified in any seasonal testing.

B. Mechanical Contractor. The responsibilities of the HVAC mechanical contractor, during construction and acceptance phases in addition to those listed in (A) are:

1. Provide startup for all HVAC equipment, except for the building automation control system.
2. Assist and cooperate with the TAB contractor and CxA by:
   a. Putting all HVAC equipment and systems into operation and continuing the operation during each working day of TAB and commissioning, as required.
   b. Including cost of sheaves and belts that may be required by TAB.
   c. Providing test holes in ducts and plenums where directed by TAB to allow air measurements and air balancing. Providing an approved plug.

d. Providing temperature and pressure taps according to the Construction Documents for TAB and commissioning testing.

3. Prepare a preliminary schedule for Division 23 pipe and duct system testing, flushing and cleaning, equipment start-up and TAB start and completion for use by the CxA. Update the schedule as appropriate.

4. Notify the PM or CxA depending on protocol, when pipe and duct system testing, flushing, cleaning, startup of each piece of equipment and TAB will occur. Be responsible to notify the PM or CxA, ahead of time, when commissioning activities not yet performed or not yet scheduled will delay construction. Be proactive in seeing that commissioning processes are executed and that the CxA has the scheduling information needed to efficiently execute the commissioning process.

C. Controls Contractor. The commissioning responsibilities of the controls contractor, during construction and acceptance phases in addition to those listed in (A) are:

1. Sequences of Operation Submittals. The Controls Contractor's submittals of control drawings shall include complete detailed sequences of operation for each piece of equipment, regardless of the completeness and clarity of the sequences in the specifications. They shall include:

a. An overview narrative of the system (1 or 2 paragraphs) generally describing its purpose, components and function.

b. All interactions and interlocks with other systems.

c. Detailed delineation of control between any packaged controls and the building automation system, listing what points the BAS monitors only and what BAS points are control points and are adjustable.

d. Written sequences of control for packaged controlled equipment. (Equipment manufacturers' stock sequences may be included, but will generally require additional narrative).

e. Start-up sequences.

f. Warm-up mode sequences.

g. Normal operating mode sequences.

h. Unoccupied mode sequences.

i. Shutdown sequences.

j. Capacity control sequences and equipment staging.

k. Temperature and pressure control: setbacks, setups, resets, etc.

l. Detailed sequences for all control strategies, e.g., economizer control, optimum start/stop, staging, optimization, demand limiting, etc.

m. Sequences for all alarms and emergency shut downs.

n. Initial and recommended values for all adjustable settings, setpoints and parameters that are typically set or adjusted by operating staff; and any other control settings or fixed values, delays, etc. that will be useful during testing and operating the equipment.

o. Schedules, if known.

p. To facilitate referencing in testing procedures, all sequences shall be written in small statements, each with a number for reference. For a given system, numbers will not repeat for different sequence sections, unless the sections are numbered.

2. Control Drawings Submittal

a. The control drawings shall have a key to all abbreviations.

b. The control drawings shall contain graphic schematic depictions of the systems and each component.

c. The schematics will include the system and component layout of any equipment that the control system monitors, enables or controls, even if the equipment is primarily controlled by packaged or integral controls.

d. Provide a full points list with at least the following included for each point:

1) Controlled system

2) Point abbreviation

3) Point description

4) Display unit

5) Control point or setpoint (Yes / No)

6) Monitoring point (Yes / No)

7) Intermediate point (Yes / No)

8) Calculated point (Yes / No)

Key:

Point Description: DB temp, airflow, etc.

Control or Setpoint: Point that controls equipment and can have its setpoint changed (OSA, SAT, etc.)

Intermediate Point: Point whose value is used to make a calculation which then controls equipment (space temperatures that are averaged to a virtual point to control reset).

Monitoring Point: Point that does not control or contribute to the control of equipment, but is used for operation, maintenance, or performance verification.

Calculated Point: "Virtual" point generated from calculations of other point values.

The Controls Contractor shall keep the CxA informed of all changes to this list during programming and setup.

3. An updated as-built version of the control drawings and sequences of operation shall be included in the final controls O&M manual submittal.

4. Assist and cooperate with the TAB contractor in the following manner:

a. Meet with the TAB contractor prior to beginning TAB and review the TAB plan to determine the capabilities of the control system toward completing TAB. Provide the TAB any needed unique instruments for setting terminal unit boxes and instruct TAB in their use (handheld control system interface for use around the building during TAB, etc.).

b. For a given area, have all required prefunctional checklists, calibrations, startup and selected functional tests of the system completed and approved by the CxA prior to TAB.

c. Provide a qualified technician to operate the controls to assist the TAB contractor in performing TAB, or provide sufficient training for TAB to operate the system without assistance.

5. Assist and cooperate with the CxA in the following manner:

a. Using a skilled technician who is familiar with this building, execute the functional testing of the controls system as specified for the controls contractor. Assist in the functional testing of all equipment specified. Provide two-way radios during the testing.

b. Execute all control system trend logs specified.

D. TAB Contractor. The duties of the TAB contractor, in addition to those listed in (A) are:

1. Six weeks prior to starting TAB, submit to the PM the qualifications of the site technician for the project, including the name of the contractors and facility managers of recent projects the technician on which was lead. The Owner will approve the site technician's qualifications for this project.
2. Submit the outline of the TAB plan and approach for each system and component to the CxA, PM and the controls contractor six weeks prior to starting the TAB. This plan will be developed after the TAB has some familiarity with the control system.
3. The submitted plan will include:
    a. Certification that the TAB contractor has reviewed the construction documents and the systems with the design engineers and contractors to sufficiently understand the design intent for each system.
    b. An explanation of the intended use of the building control system. The controls contractor will comment on feasibility of the plan.
    c. All field checkout sheets and logs to be used that list each piece of equipment to be tested, adjusted and balanced with the data cells to be gathered for each.
    d. Discussion of what notations and markings will be made on the duct and piping drawings during the process.
    e. Final test report forms to be used.
    f. Detailed step-by-step procedures for TAB work for each system and issue: terminal flow calibration (for each terminal type), diffuser proportioning, branch / submain proportioning, total flow calculations, rechecking, diversity issues, expected problems and solutions, etc. Criteria for using air flow straighteners or relocating flow stations and sensors will be discussed. Provide the analogous explanations for the water side.
    g. List of all air flow, water flow, sound level, system capacity and efficiency measurements to be performed and a description of specific test procedures, parameters, formulas to be used.
    h. Details of how *total* flow will be determined (Air: sum of terminal flows via BAS calibrated readings or via hood readings of all terminals, supply (SA) and return air (RA) pitot traverse, SA or RA flow stations. Water: pump curves, circuit setter, flow station, ultrasonic, etc.).
    i. The identification and types of measurement instruments to be used and their most recent calibration date.
    j. Specific procedures that will ensure that both air and water side are operating at the lowest possible pressures and provide methods to verify this.
    k. Confirmation that TAB understands the outside air ventilation criteria under all conditions.
    l. Details of whether and how minimum outside air cfm will be verified and set, and for what level (total building, zone, etc.).
    m. Details of how building static and exhaust fan / relief damper capacity will be checked.
    n. Proposed selection points for sound measurements and sound measurement methods.
    o. Details of methods for making any specified coil or other system plant capacity measurements.
    p. Details of any TAB work to be done in phases (by floor, etc.), or of areas to be built out later.
    q. Details regarding specified deferred or seasonal TAB work.
    r. Details of any specified false loading of systems to complete TAB work.

s. Details of all exhaust fan balancing and capacity verifications, including any required room pressure differentials.

t. Details of any required interstitial cavity differential pressure measurements and calculations.

u. Plan for hand-written field technician logs of discrepancies, deficient or uncompleted work by others, contract interpretation requests and lists of completed tests (scope and frequency).

v. Plan for formal progress reports (scope and frequency).

w. Plan for formal deficiency reports (scope, frequency and distribution).

4. A running log of events and issues shall be kept by the TAB field technicians. Submit hand-written reports of discrepancies, deficient or uncompleted work by others, contract interpretation requests and lists of completed tests to the CxA and PM at least twice a week.

5. Communicate in writing to the controls contractor all setpoint and parameter changes made or problems and discrepancies identified during TAB which affect the control system setup and operation.

6. Provide a draft TAB report within two weeks of completion. A copy will be provided to the CxA. The report will contain a full explanation of the methodology, assumptions and the results in a clear format with designations of all uncommon abbreviations and column headings. The report should follow the latest and most rigorous reporting recommendations by AABC, NEBB or ASHRAE Standard 111.

7. Provide the CxA with any requested data, gathered, but not shown on the draft reports.

8. Provide a final TAB report for the CxA with details, as in the draft.

9. Conduct functional performance tests and checks on the original TAB as specified for TAB.

1.3 RELATED WORK

A. Refer to Division 23.

PART 2 - PRODUCTS

2.1 TEST EQUIPMENT

A. Division 23 shall provide all test equipment necessary to fulfill the testing requirements of this Division. Commissioning agent does not supply any test equipment or perform any testing. All testing will be done by the mechanical contractor.

PART 3 - EXECUTION

3.1 SUBMITTALS

A. Division 23 shall provide submittal documentation relative to commissioning as required in this Section Part 1.

3.2 STARTUP

A. The HVAC mechanical and controls contractors shall follow the start-up and initial checkout procedures listed in the Responsibilities list in this section. Division 23 has start-up responsibility and is required to complete systems and sub-systems so they are fully functional, meeting the design objectives of the Contract Documents. The commissioning procedures and functional testing do not relieve or lessen this responsibility or shift that responsibility partially to the commissioning agent or Owner.

B. Functional testing is intended to begin upon completion of a system. Functional testing may proceed prior to the completion of systems or sub-systems at the discretion of the CxA and PM. Beginning system testing before full completion does not relieve the Contractor from fully completing the system, including all prefunctional checklists as soon as possible.

3.3 TAB

A. Refer to the TAB responsibilities in Part 1.2 above.

3.4 FUNCTIONAL PERFORMANCE TESTS

A. All HVAC systems shall be commissioned.

3.5 OPERATION AND MAINTENANCE (O&M) MANUALS

A. The following O&M manual requirements do not replace O&M manual documentation requirements elsewhere in these specifications.

B. Division 23 shall compile and prepare documentation for all equipment and systems covered in Division 23 and deliver this documentation to the GC for inclusion in the O&M manuals, according to the specifications, prior to the training of owner personnel.

C. The CxA shall receive a copy of the O&M manuals for review.

D. Special Control System O&M Manual Requirements. In addition to documentation that may be specified elsewhere, the controls contractor shall compile and organize at minimum the following data on the control system in labeled 3-ring binders with indexed tabs.

1. Three copies of the controls training manuals in a separate manual from the O&M manuals.
2. Operation and Maintenance Manuals containing:
    a. Specific instructions on how to perform and apply all functions, features, modes, etc. mentioned in the controls training sections of this specification and other features of this system. These instructions shall be step-by-step. Indexes and clear tables of contents shall be included. The detailed technical manual for programming and customizing control loops and algorithms shall be included.
    b. Full as-built set of control drawings (refer to Submittal section above for details).
    c. Full as-built sequence of operations for each piece of equipment.
    d. Full points list. In addition to the updated points list required in the original submittals (Part 1 of this section), a listing of all rooms shall be provided with the following information for each room:
        1) Floor
        2) Room number
        3) Room name
        4) Air handler unit ID
        5) Reference drawing number
    e. Full print out of all schedules and set points after testing and acceptance of the system.
    f. Full as-built print out of software program.
    g. Electronic copy on disk of the entire program for this facility.
    h. Marking of all system sensors and thermostats on the as-built floor plan and mechanical drawings with their control system designations.
    i. Maintenance instructions, including sensor calibration requirements and methods by sensor type, etc.
    j. Control equipment component submittals, parts lists, etc.
    k. Warranty requirements.
    l. Copies of all checkout tests and calibrations performed by the Contractor (not commissioning tests).
3. The manual shall be organized and subdivided with permanently labeled tabs for each of the following data in the given order:
    a. Sequences of operation

b. Control drawings
c. Points lists
d. Controller / module data
e. Thermostats and timers
f. Sensors and DP switches
g. Valves and valve actuators
h. Dampers and damper actuators
i. Program setups (software program printouts)

4. Field checkout sheets and trend logs should be provided to the CxA for inclusion in the Commissioning Record Book.

E. Special TAB Documentation Requirements. The TAB will compile and submit the following with other documentation that may be specified elsewhere in the *Specifications.*

1. Final report containing an explanation of the methodology, assumptions, test conditions and the results in a clear format with designations of all uncommon abbreviations and column headings.
2. The TAB shall mark on the drawings where all traverse and other critical measurements were taken and cross reference the location in the TAB report.

F. Review and Approvals. Review of the commissioning related sections of the O&M manuals shall be made by the A/E and by the CxA.

3.6. TRAINING OF OWNER PERSONNEL

A. The GC shall be responsible for training coordination and scheduling and ultimately to ensure that training is completed.

B. The CxA shall be responsible for overseeing and approving the content and adequacy of the training of Owner personnel for commissioned equipment.

C. Mechanical Contractor. The mechanical contractor shall have the following training responsibilities:

1. Provide the CxA with a training plan two weeks before the planned training.
2. Provide designated Owner personnel with comprehensive orientation and training in the understanding of the systems and the operation and maintenance of each piece of HVAC equipment including, but not limited to air conditioning units, air handling units, fans, fan coil units, controls and water treatment systems, etc.
3. Training shall normally start with classroom sessions followed by hands-on training on each piece of equipment, which shall illustrate the various modes of operation, including startup, shutdown, fire/smoke alarm, power failure, etc.
4. During any demonstration, should the system fail to perform in accordance with the requirements of the O&M manual or sequence of operations, the system will be repaired or adjusted as necessary and the demonstration repeated.
5. The appropriate trade or manufacturer's representative shall provide the instructions on each major piece of equipment. This person may be the start-up technician for the piece of equipment, the installing contractor or manufacturer’s representative. Practical building operating expertise as well as in-depth knowledge of all modes of operation of the specific piece of equipment are required. More than one party may be required to execute the training.
6. The controls contractor shall attend sessions other than the controls training, as requested, to discuss the interaction of the controls system as it relates to the equipment being discussed.

7. The training sessions shall follow the outline in the Table of Contents of the operation and maintenance manual and illustrate whenever possible the use of the O&M manuals for reference.
8. Training shall include:
    a. Use of the printed installation, operation and maintenance instruction material included in the O&M manuals.
    b. A review of the written O&M instructions emphasizing safe and proper operating requirements, preventative maintenance, special tools needed and spare parts inventory suggestions. The training shall include start-up, operation in all modes possible, shut-down, seasonal changeover and any emergency procedures.
    c. Discussion of relevant health and safety issues and concerns.
    d. Discussion of warranties and guarantees.
    e. Common troubleshooting problems and solutions.
    f. Explanatory information included in the O&M manuals and the location of all plans and manuals in the facility.
    g. Discussion of any peculiarities of equipment installation or operation.
    h. Classroom sessions shall include the use of overhead projections, slides, video/audio-taped material as might be appropriate.
9. Hands-on training shall include start-up, operation in all modes possible, including manual, shut-down and any emergency procedures and preventative maintenance for all pieces of equipment.
10. The mechanical contractor shall fully explain and demonstrate the operation, function and overrides of any local packaged controls, not *controlled* by the central control system.
11. Training shall occur after functional testing is complete, unless approved otherwise by the Project Manager.
12. Duration of training as necessary to properly train owner's staff.

D. Controls Contractor. The controls contractor shall have the following training responsibilities:
1. Provide the CxA with a training plan four weeks before the planned training.
2. The controls contractor shall provide designated Owner personnel training on the control system in this facility. The intent is to clearly and completely instruct the Owner on all the capabilities of the control system.
3. Training manuals. The standard operating manual for the system and any special training manuals will be provided for each trainee, with three extra copies left for the O&M manuals. In addition, copies of the system technical manual will be demonstrated during training and three copies submitted with the O&M manuals. Manuals shall include detailed description of the subject matter for each session. The manuals will cover all control sequences and have a definitions section that fully describes all relevant words used in the manuals *and* in all software displays. Manuals will be approved by the CxA. Copies of audiovisuals shall be delivered to the Owner.
4. The trainings will be tailored to the needs and skill-level of the trainees.
5. The trainers will be knowledgeable on the system and its use in buildings. For the on-site sessions, the most qualified trainer(s) will be used. The Owner shall approve the instructor prior to scheduling the training.
6. During any demonstration, should the system fail to perform in accordance with the requirements of the O&M manual or sequence of operations, the system will be repaired or adjusted as necessary and the demonstration repeated.

7. The controls contractor shall attend sessions other than the controls training, as requested, to discuss the interaction of the controls system as it relates to the equipment being discussed.

E. TAB - The TAB contractor shall have the following training responsibilities:

1. TAB shall meet for ___20____ hours with facility staff after completion of TAB and instruct them on the following:

a) Go over the final TAB report, explaining the layout and meanings of each data type.

b) Discuss any outstanding deficient items in control, ducting or design that may affect the proper delivery of air or water.

c) Identify and discuss any duct runs, diffusers, coils and fans that are close to or are not meeting their design capacity.

d) Discuss any temporary settings and steps to finalize them for any areas that are not finished.

e) Other salient information that may be useful for facility operations, relative to TAB.

3.8. DEFERRED TESTING

A. Shall be scheduled on an as needed basis.

3.9 WRITTEN WORK PRODUCTS

A. Written work products of Contractors will consist of the start-up and initial checkout plan and the filled out start-up, initial checkout and prefunctional checklists.

B. Written work products for Commissioning Agent shall be commissioning summary report including completed checklist, issues log and summary of commissioning activities.

END OF SECTION

6-31-26

GENERAL NOTES

GENERAL

1. ARCHITECTURAL DOCUMENTS SHALL BE COORDINATED WITH ALL OTHER DISCIPLINES' DOCUMENTS. ANY DISCREPANCY BETWEEN THESE DOCUMENTS SHOULD BE REPORTED TO THE ARCHITECT FOR CLARIFICATION AND VERIFICATION PRIOR TO PROCUREMENT OR INSTALLATION OF AFFECTED WORK.
2. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH AFFECTED WORK.
3. PROTECT ALL MATERIALS, CONSTRUCTION, UTILITIES AND FACILITIES FROM DAMAGE, INCLUDING BUT NOT LIMITED TO CONSTRUCTION ACTIVITIES, THEFT, MOISTURE, AND WEATHER. DAMAGED ELEMENTS AND CONDITIONS SHALL BE REPAIRED / REPLACED AT NO COST TO OWNER.
4. DO NOT SCALE ANY DRAWINGS IN ANY OF THE DOCUMENTS FOR FIELD LAYOUT. CONTACT ARCHITECT IF DIMENSIONS ARE NEEDED AND CANNOT BE FOUND IN WRITING IN THE DOCUMENTS.
5. UNLESS NOTED OTHERWISE DIMENSIONS IN THE DOCUMENTS ARE AS LISTED BELOW.
   A. DIMENSIONS ARE TAKEN FROM FACE OF STUD OR CENTERLINE OF STUD / COLUMN UNLESS OTHERWISE NOTED.
   B. "CLEAR" REFERS TO DIMENSION BETWEEN FACES OF FINISH SURFACES.
   C. "EQ" OR "EQUAL" INDICATES DIMENSION TO MATCH ADJACENT LETTERED DIMENSIONS (A,B,C,D,ETC.) INDICATE DIMENSION TO MATCH OPPOSITE OR REMOTE (MATCHING LETTER) DIMENSION.
   D. "+/-" INDICATES APPROXIMATE DIMENSION BASED ON FIELD CONDITION OR FLEXIBLE DIMENSION THAT CAN BE ADJUSTED.
   E. DIMENSIONS ON REFLECTED CEILING PLANS AND LIGHTING PLANS ARE CLEAR DIMENSIONS.
   F. DIMENSIONS ON INTERIOR DESIGN SHEETS ARE TO FACE OF FINISHED SURFACE.
6. INFORMATION ON G SHEETS IS INTENDED TO BE TYPICAL. REVIEW THE DOCUMENTS AND CONFIRM IN WRITING WITH DESIGN TEAM INFORMATION WHICH REQUIRES CLARIFICATION IS PRIOR TO THE START OF CONSTRUCTION.
7. REFER TO LEGENDS, SCHEDULES, AND KEYNOTES ON INDIVIDUAL SHEETS FOR SPECIFIC INFORMATION
8. INSTALL ALL PIPES, CONDUIT, BRANCH LINES, ETC. AS CLOSE TO THE UNDERSIDE OF STRUCTURE AS POSSIBLE. USE LOW PROFILE HANGERS WHERE POSSIBLE. COORDINATE AS REQUIRED
9. TEMPORARY SHORING AS REQUIRED DURING DEMOLITION AND CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. PROVIDE ACCESS PANELS AT WALLS AND CEILINGS FOR: FIRE/SMOKE DAMPERS, VAV BOXES, PLUMBING CLEANOUTS, ELECTRIC HEATERS, AIR HANDLING UNITS/MECHANICAL EQUIPMENT, VALVES, FILTER BOXES AND OTHER CONCEALED ITEMS REQUIRING ACCESS. COORDINATE WITH ARCHITECT IN FIELD FOR INSTALLATION OF ACCESS PANELS WHERE REQUIRED AND NOT GRAPHICALLY SHOWN ON PLANS.
11. FURNITURE IS FOR REFERENCE ONLY UNLESS OTHERWISE NOTED. REFERENCE FURNITURE IS NOT IN PROJECT SCOPE.
12. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED INSPECTIONS, PERMITS, TEMPORARY UTILITIES AND TEMPORARY TOILET FACILITIES.

FLOOR PLAN:

1. ALL DOORS TO BE 4" FROM FINISH FACE OF ADJACENT PARTITION AS MEASURED TO OUTSIDE FACE OF DOOR JAMB UNLESS OTHERWISE NOTED.

CEILING PLAN:

1. CENTER ALL CEILING MOUNTED DEVICES IN LAY-IN CEILING TILES AND /OR PANELS INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, EXIT LIGHTS, SPRINKLER HEADS, SPEAKERS, ETC.
2. CENTER CEILING GRID IN ROOM IN BOTH DIRECTIONS UNLESS INDICATED OTHERWISE. NO CEILING TILE CUTS SHALL BE PERMITTED LESS THAN 3". SHIFT CEILING TILE GRID ONE HALF MODULE AS REQUIRED TO AVOID CUT TILES LESS THAN 3".
3. ALL LIGHT FIXTURES IN GYPSUM BOARD CEILING SHALL BE CENTERED IN ROOM UNLESS INDICATED OTHERWISE.
4. ALL GYPSUM BOARD SOFFITS ARE TO BE FINISHED WITH NO EXPOSED EDGES OR VIEWS INTO THE PLENUM SPACE.

SITE PLAN NOTES:

1. SLOPE ALL PAVING AND GRADING AWAY FROM BUILDING TO ACHIEVE POSITIVE DRAINAGE AND TO ELIMINATE PONDING WATER ON SITE IN ACCORDANCE WITH IBC CH 11 REQUIREMENTS OR EQUAL AHJ REQUIREMENTS.
2. IMMEDIATELY NOTIFY DESIGN TEAM IF UNDOCUMENTED UTILITIES ARE DISCOVERED ON SITE.
3. ALL EXTERIOR LEVEL LANDINGS SHALL BE OFFSET ½" MAXIMUM FROM FINISH FLOOR, RE: ___G SHEETS AND SLOPE AWAY FROM THE BUILDING ¼" PER FOOT MAXIMUM.
4. PROVIDE HOSE STORAGE AT DUMPSTER ENCLOSURES.
5. PROVIDE WHEEL STOPS AT ALL PARKING SPACES.
6. CARRY _____ ALLOWANCE FOR EACH NEW UTILITY TAP TO MUNICIPAL INFRASTRUCTURE.
7. RESTORE ALL DAMAGED SIDEWALKS AND CURBS TO THE STANDARDS OF THE AUTHORITY HAVING JURISDICTION.

ROOF PLAN NOTES:

1. SLOPE ROOF MEMBRANE ¼" PER FOOT MINIMUM, SLOPE CRICKETS AT ½" PER FOOT MINIMUM.
2. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS OVER 20 INCHES IN WIDTH.
3. ALL ROOF DRAINS, OVERFLOW DRAINS AND DOWNSPOUTS TO BE CONNECTED TO SUBSURFACE DRAINAGE UNLESS NOTED OTHERWISE. SEE CIVIL FOR CONNECTION OF ROOF DRAINAGE, AND/OR STORM-WATER DETENTION SYSTEM, AND/OR TO UNDERGROUND SERVICES.
4. PROVIDE ROOF MEMBRANE SYSTEM AT INTERIOR (ROOF) SIDE OF VERTICAL PARAPET WALLS WHERE PARAPET WALL IS 2'-0" HIGH OR LESS. PROVIDE METAL WALL PANEL SIDING SYSTEM AT INTERIOR (ROOF) SIDE OF VERTICAL PARAPET WALLS WHERE PARAPET WALLS ARE OVER 2'-0" HIGH. REFER TO ROOF TO WALL PANEL SYSTEM INTERFACE DETAILS AND PARAPET DETAILS AS REQUIRED.
5. ALL ROOF MATERIALS AND ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, RECOMMENDATIONS, AND SPECIFICATIONS TO ACHIEVE SPECIFIED WARRANTY AND PROVIDE WEATHERTIGHT ROOF SYSTEM. **(PER NRCA STANDARDS)**
6. COORDINATE ALL ROOF PENETRATIONS AND EQUIPMENT / PLATFORM SUPPORTS WITH ROOF STRUCTURE AND ROOFING INSTALLATION AND FLASHING DETAIL REQUIREMENTS.
7. PROVIDE TREATED PLYWOOD SHEATHING AT THE INTERIOR (ROOF) SIDE OF ALL PARAPETS.
8. ROOF MEMBRANE SYSTEM SHALL TURN UP PARAPETS, UP OVER TOP OF PARAPET WALL BELOW COPING CAP, TO BE FLASHED INTO WALL WRB SYSTEM TO ACHIEVE CONTINUOUS UNINTERRUPTED BUILDING ENVELOPE WEATHER BARRIER SYSTEM
9. PROVIDE WALK PAD SYSTEM COMPATIBLE WITH SPECIFIED ROOF SYSTEM, SPANNING FROM ROOF ACCESS POINT TO MAINTENANCE SIDES OF ALL ROOFTOP EQUIPMENT.
10. ALL ROOF MOUNTED EQUIPMENT STANDS, CURBS, PENETRATIONS, ACCESSORIES, UTILITIES, ETC. TO BE FLASHED INTO ROOF SYSTEM AS REQUIRED TO ACHIEVE SPECIFIED WARRANTY.
11. PACK, SCREEN, INSULATE, AND SEAL ALL ROOF PENETRATION SYSTEMS AS REQUIRED TO PREVENT ALL OUTSIDE AIR, MOISTURE, ANIMALS, INSECTS, ETC. FROM COMMUNICATING WITH FRAMING CAVITY BELOW DECK.
12. DO NOT LOCATE ANY ROOFTOP EQUIPMENT WITHIN 10' OF ROOF EDGE UNLESS OTHERWISE NOTED
13. PROVIDE INSULATED PREFABRICATED ROOF HATCH, FLASHED INTO SPECIFIED ROOF SYSTEM AS REQUIRED TO ACHIEVE SPECIFIED WARRANTY, REFER TO ROOF DETAILS.
14. ALL PIPING, CONDUITS, ETC. SHALL BE A MINIMUM 10" ABOVE ROOF SURFACE. PROVIDE PIPE SUPPORTS AT 8'-0" MAX.
15. AFTER SUBSTANTIAL COMPLETION EXAMINE AND ENSURE ROOF DRAIN LINES ARE FREE OF DEBRIS BLOCKAGE. FLUSH WITH WATER TO ENSURE THAT DRAINS FLOW FREELY.
16. ISOLATE ALL HEAT PIPES/FLUES AS RECOMMENDED AND OUTLINED IN THE NRCA MANUAL FOR ISOLATED STACK FLASHING.
17. ALL ROOFTOP PENETRATIONS (SOIL STACKS, VENTS, ETC.) ARE INSTALLED MINIMUM 4'-0" FROM OTHER DECK PENETRATIONS, RISE WALLS, AND ROOF EDGE.
18. DIMENSIONS, DETAILS, EQUIPMENT SIZES AND LOCATIONS SHOWN ON ROOF PLANS AND DETAILS AR FOR INFORMATION AND REFERENCE ONLY. EXACT SIZE AND LOCATIONS TO BE COORDINATED WITH ALL DISCIPLINES.
19. REFER TO OTHER DISCIPLINES FOR SIZE AND LOCATIONS OF NEW DECK PENETRATIONS AND ROOFTOP EQUIPMENT.
20. ALL SHEETMETAL SHALL BE INSTALLED TO COMPLY WITH THE LATEST EDITION OF SMACNA'S ARCHITECTURAL SHEET METAL MANUAL.
21. ANCHOR ROOFTOP UNITS SECURELY IN PLACE WITH METHODS INDICATED PROVIDING FOR THERMAL EXPANSION OF METAL UNITS. CONCEAL FASTENERS WHERE POSSIBLE AND SET UNITS TRUE TO LINE AND LEVEL. EXPOSED EDGES SHALL BE FOLDED BACK NEATLY FROM A ½" HEM ON THE CONCEALED EDGE. INSTALL WORK WITH LAPS, JOINTS AND SEAMS WHICH WILL BE WATERTIGHT AND WATERPROOF IN ACCORDANCE WITH DIVISION 076200 SHEET METAL FLASHING AND TRIM.

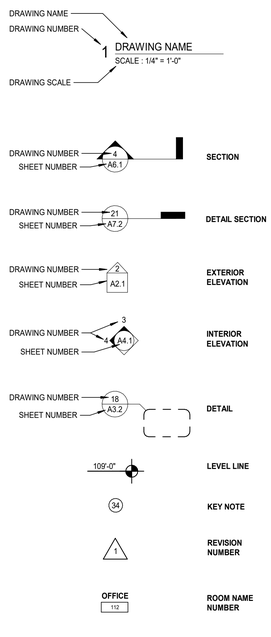
ZONING

STATE	LOUISIANA
PARISH	EAST BATON ROUGE
CITY	BAKER
PLAT #	XX
SETBACKS	
HORIZ.	XX
VERT.	XX
HISTORIC DISTRICT INFO.	N/A
OTHER ZONE CLASSIFICATIONS	N/A
PARKING	
REQUIRED	XX
PROVIDED	XX
CONTACT INFO.	
LOCAL AHJ	FACILITY PLANNING & CONTROL
FIRE MARSHAL	LOUISIANA OFFICE OF STATE FIRE MARSHAL
HISTORIC COMMISSION	N/A
ELEC. UTILITY	ENTERFY
PERMIT EXPEDITOR	N/A

DRAWING INDEX

SHEET NUMBER	SHEET NAME
GENERAL	
G000	COVER SHEET
G001	DRAWING INDEX + GENERAL INFORMATION
G002	TYPICAL TOILET & ACCESSORIES INFORMATION
G003	PARTITION TYPES
G004	TYPICAL PARTITION DETAILS
CIVIL	
C101	SITE CLEARING & PHASE I EROSION CONTROL PLAN
C102	PHASE II EROSION CONTROL PLAN
C200	OVERALL SITE PLAN
C201	GEOMETRIC LAYOUT
C202	GEOMETRIC LAYOUT
C300	PAVEMENT LAYOUT
C401	GRADING PLAN
C402	GRADING PLAN
C403	TYPICAL SECTIONS
C500	STORM DRAINAGE & UTILITY INFO
C501	STORM DRAINAGE & UTILITY LAYOUT
C502	STORM DRAINAGE & UTILITY LAYOUT
C503	SANITARY SEWER LAYOUT
C504	PLAN & PROFILE
C505	PLAN & PROFILE
C601	CIVIL DETAILS
C602	CIVIL DETAILS
LIFESAFETY	
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LS102	LIFE SAFETY PLAN - SECTOR A
LS103	LIFE SAFETY PLAN - SECTOR B
LS104	LIFE SAFETY PLAN - SECTOR C
LS105	LIFE SAFETY PLAN - MAINTENANCE BUILDING
ARCHITECTURAL SITE	
AS101	ARCHITECTURAL SITE PLAN
AS111	SITE DETAILS
AS112	SITE DETAILS
AS113	ENLARGED SITE PLAN
ARCHITECTURE	
A101	FLOOR PLAN - OVERALL
A101a	FLOOR PLAN - SECTOR A
A101b	FLOOR PLAN - SECTOR B
A101c	FLOOR PLAN - SECTOR C
A102	DIMENSIONED FLOOR PLAN - OVERALL
A102a	DIMENSIONED FLOOR PLAN - SECTOR A
A102b	DIMENSIONED FLOOR PLAN - SECTOR B
A102c	DIMENSIONED FLOOR PLAN - SECTOR C
A103	TILT WALL PANEL PLAN - OVERALL
A103a	TILT WALL PANEL PLAN - SECTOR A
A103b	TILT WALL PANEL PLAN - SECTOR B
A103c	TILT WALL PANEL PLAN - SECTOR C
A111	ENLARGED PLAN - MEDICAL
A112	ENLARGED PLANS - HOUSING AND RESTROOMS
A113	ENLARGED PLANS - RESTROOMS
A114	CLERESTORY AND HIGH WINDOW PLANS - SECTOR A
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A116	CLERESTORY AND HIGH WINDOW PLANS - SECTOR C
A121	PLAN DETAILS
A141	REFLECTED CEILING PLAN - OVERALL
A141a	REFLECTED CEILING PLAN - SECTOR A
A141b	REFLECTED CEILING PLAN - SECTOR B
A141c	REFLECTED CEILING PLAN - SECTOR C
A142	ENLARGED REFLECTED CEILING PLAN
A143	REFLECTED CEILING PLAN DETAILS
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A151b	ROOF PLAN - SECTOR B
A151c	ROOF PLAN - SECTOR C
A152	TYP ROOF DETAILS
A161	MAINTENANCE BUILDING PLANS AND ELEVATIONS
A162	MAINTENANCE BUILDING SECTIONS
A201	BUILDING ELEVATIONS
A202	BUILDING ELEVATIONS
A203	BUILDING ELEVATIONS
A204	BUILDING ELEVATIONS
A212	TILT-UP WALL ELEVATIONS
A213	TILT-UP WALL ELEVATIONS
A214	TILT-UP WALL ELEVATIONS
A215	TILT-UP WALL ELEVATIONS
A301	BUILDING SECTIONS
A302	BUILDING SECTIONS
A303	BUILDING SECTION
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A402	WALL SECTIONS
A403	WALL SECTIONS
A404	WALL SECTIONS
A405	WALL SECTIONS
A406	WALL SECTIONS
A407	WALL SECTIONS
A451	WALL SECTION DETAILS
A452	WALL SECTION DETAILS
A453	WALL SECTION DETAILS
A601	DOOR SCHEDULE
A602	DOOR SCHEDULE - HOUSING
A603	WINDOW ELEVATIONS
A620	HEAD, JAMB DETAILS - INTERIOR
A621	HEAD, JAMB DETAILS - INTERIOR
A622	HEAD, JAMB DETAILS - EXTERIOR
A623	HEAD, JAMB DETAILS - EXTERIOR
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ID001	INTERIOR GENERAL NOTES & FINISH KEY
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ID101a	FINISH PLAN - SECTOR A
ID101b	FINISH PLAN - SECTOR B
ID101c	FINISH PLAN - SECTOR C
ID102	MAINTENANCE BUILDING INTERIOR PLANS AND ELEVATIONS
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ID121b	MILLWORK PLAN - SECTOR B
ID121c	MILLWORK PLAN - SECTOR C
ID122	ENLARGED MILLWORK PLANS AND AXON VIEWS
ID123	ENLARGED MILLWORK PLANS AND AXON VIEWS
ID124	ENLARGED MILLWORK PLANS AND AXON VIEWS
ID131	SIGNAGE PLAN - OVERALL
ID131a	SIGNAGE PLAN - SECTOR A
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ID131c	SIGNAGE PLAN - SECTOR C
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ID151b	FURNITURE PLAN - SECTOR B
ID151c	FURNITURE PLAN - SECTOR C
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ID202	INTERIOR ELEVATIONS
ID203	INTERIOR ELEVATIONS
ID204	INTERIOR ELEVATIONS
ID205	INTERIOR ELEVATIONS
ID206	INTERIOR ELEVATIONS
ID207	INTERIOR ELEVATIONS
ID208	INTERIOR ELEVATIONS
ID209	INTERIOR ELEVATIONS
ID210	INTERIOR ELEVATIONS
ID301	INTERIOR DETAILS
ID310	INTERIOR MILLWORK DETAILS
ID311	INTERIOR MILLWORK DETAILS
ID312	INTERIOR MILLWORK DETAILS
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ID402	ENLARGED INTERIOR DRAWINGS
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SE103	SECURITY ELECTRONICS - FLOOR PLAN - SECTOR B
SE104	SECURITY ELECTRONICS - FLOOR PLAN -SECTOR C
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FS102	FOOD SERVICE EQUIPMENT FLOOR PLAN
FS201	FOOD SERVICE EQUIPMENT DETAILS
FS301	FOOD SERVICE EQUIPMENT SLAB REQUIREMENTS PLAN
FS401	FOOD SERVICE EQUIPMENT PLUMBING & MECHANICAL ROUGH-IN PLAN
FS501	FOOD SERVICE EQUIPMENT ELECTRICAL ROUGH-IN PLAN
FS601	FOOD SERVICE EQUIPMENT MEP DIAGRAMS & DETAILS
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S1.1	FOUNDATION PLAN OVERALL
S1.1a	FOUNDATION PLAN AREA A
S1.1b	FOUNDATION PLAN AREA B
S1.1c	FOUNDATION PLAN AREA C
S1.1d	METAL BUILDING PLANS
S1.2	SLAB PLAN OVERALL
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S1.2b	SLAB PLAN AREA B
S1.2c	SLAB PLAN AREA C
S1.3	OVERALL TILT WALL AND CMU PLAN
S1.3a	TILT-UP WALL PLAN - AREA A
S1.3b	TILT-UP WALL PLAN - AREA B
S1.3c	TILT-UP WALL PLAN - AREA C
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S2.1a	CEILING FRAMING PLAN AREA A
S2.1b	CEILING FRAMING PLAN AREA B
S2.1c	CEILING FRAMING PLAN AREA C
S3.1	ROOF FRAMING PLAN OVERALL
S3.1a	ROOF FRAMING PLAN AREA A
S3.1b	ROOF FRAMING PLAN AREA B
S3.1c	ROOF FRAMING PLAN AREA C
S3.2	HIGH ROOF FRAMING PLAN OVERALL
S3.2a	HIGH ROOF FRAMING PLAN AREA A
S3.2b	HIGH ROOF FRAMING PLAN AREA B
S3.2c	HIGH ROOF FRAMING PLAN AREA C
S4.1	BUILDING SECTIONS
S4.2	BUILDING SECTIONS
S4.3	BUILDING SECTIONS
S4.4	WALL SECTIONS
S4.5	METAL BUILDING SECTIONS
S5.1	FOUNDATION DETAILS
S5.2	FOUNDATION DETAILS
S5.3	FOUNDATION DETAILS
S5.4	FOUNDATION DETAILS
S5.5	CMU DETAILS
S5.6	CMU DETAILS
S5.7	GENERATOR PAD AND MISC. DETAILS
S6.1	FRAMING DETAILS
S6.2	FRAMING DETAILS
S6.3	FRAMING DETAILS
S6.4	TILT-UP WALL DETAILS
S6.5	TILT-UP WALL DETAILS
S6.6	TILT-UP WALL DETAILS
S6.7	TILT-UP WALL DETAILS
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S7.1	GENERAL NOTES
S7.2	SCHEDULES
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M101	OVERALL MECHANICAL FLOOR PLAN
M101a	MECHANICAL FLOOR PLAN - SECTOR A
M101b	MECHANICAL FLOOR PLAN - SECTOR B
M101c	MECHANICAL FLOOR PLAN - SECTOR C
M101d	MECHANICAL SECTOR PLAN - MAINTENANCE BUILDING
M102	OVERALL FLOOR PLAN - HVAC CONDENSATE ROUTING AND BRANCH SELECTOR LOCATIONS
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M102b	SECTOR B - HVAC CONDENSATE ROUTING AND BRANCH SELECTOR LOCATIONS
M102c	SECTOR C- HVAC CONDENSATE ROUTING AND BRANCH SELECTOR LOCATIONS
M102d	MAINTENANCE BUILDING - HVAC CONDENSATE ROUTING AND BRANCH SELECTOR LOCATIONS
M201	MECHANICAL ROOF PLAN
M301	MECHANICAL SCHEDULES
M302	MECHANICAL SCHEDULES
M303	MECHANICAL SCHEDULES
M304	MECHANICAL SCHEDULES
M305	MECHANICAL SCHEDULES
M306	MECHANICAL SCHEDULES
M401	MECHANICAL DUCTWORK RISERS
M402	MECHANICAL DUCTWORK RISERS
M403	MECHANICAL DUCTWORK RISERS
M404	MECHANICAL DUCTWORK RISERS
M405	MECHANICAL DUCTWORK RISERS
M406	MECHANICAL DUCTWORK RISERS
M407	MECHANICAL DUCTWORK RISERS
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS
M503	MECHANICAL DETAILS
M504	MECHANICAL DETAILS
M505	MECHANICAL DETAILS
M506	MECHANICAL DETAILS
M507	MECHANICAL DETAILS
M508	MECHANICAL DETAILS
PLUMBING	
P100	GENERAL PLUMBING NOTES AND LEGEND
P101	OVERALL FLOOR PLAN - PLUMBING
P101A	PLUMBING FLOOR PLAN - SECTOR A
P101B	PLUMBING FLOOR PLAN - SECTOR B
P101C	PLUMBING FLOOR PLAN - SECTOR C
P102	ENLARGED FLOOR PLAN - PLUMBING
P103	MAINTENANCE SHOP FLOOR PLAN - PLUMBING
P201	PLUMBING SCHEDULES
P301	PLUMBING RISER DIAGRAMS
P302	PLUMBING RISER DIAGRAMS
P303	PLUMBING RISER DIAGRAMS
P401	PLUMBING DETAILS
P402	PLUMBING DETAILS
P403	PLUMBING DETAILS
P404	PLUMBING DETAILS
P405	PLUMBING DETAILS
SPRINKLER	
SP101	OVERALL FLOOR PLAN - SPRINKLER
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ELECTRICAL SITE	
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ES102	SITE ELECTRICAL GROUNDING PLAN & GENERATOR YARD ELECTRICAL PLAN
ELECTRICAL	
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E101a	ELECTRICAL LIGHTING PLAN - SECTOR A
E101b	ELECTRICAL LIGHTING PLAN - SECTOR B
E101c	ELECTRICAL LIGHTING PLAN - SECTOR C
E201a	ELECTRICAL POWER PLAN - SECTOR A
E201b	ELECTRICAL POWER PLAN - SECTOR B
E201c	ELECTRICAL POWER PLAN - SECTOR C
E202	ENLARGED FOOD SERVICE ELECTRICAL POWER PLAN
E203	MAINTENANCE BUILDING ELECTRICAL PALNS
E301a	ELECTRICAL SPECIAL SYSTEM & MECHANICAL ELECTRICAL CONNECTIONS PLAN - SECTOR A
E301b	ELECTRICAL SPECIAL SYSTEM & MECHANICAL ELECTRICAL CONNECTIONS PLAN - SECTOR B
E301c	ELECTRICAL SPECIAL SYSTEM & MECHANICAL ELECTRICAL CONNECTIONS PLAN - SECTOR C
E401	ROOF ELECTRICAL PLAN
E501	ELECTRICAL SYMBOL & ABBREVIATION SCHEDULE
E502	ELECTRICAL NOTES
E503	ELECTRICAL NOTES
E504	ELECTRICAL PANEL SCHEDULES
E505	ELECTRICAL PANEL SCHEDULES
E506	ELECTRICAL PANEL SCHEDULES
E507	ELECTRICAL PANEL SCHEDULES
E508	ELECTRICAL PANEL SCHEDULES
E601	ELECTRICAL DETAILS & WIRING DIAGRAM
E602	TELECOMMUNICATION RISER DIAGRAM
E603	ELECTRICAL RISER DIAGRAM
E604	ELECTRICAL RISER DIAGRAM
G605	SEWER PUMP-STATION ELECTRICAL RISER DIAGRAM & SEWER PUMP-STATION ELECTRICAL PLAN

SYMBOLS



ABBREVIATIONS

ACT	Acoustical Ceiling Tile
ADAAG	Americans with Disabilitites Act Accessibility Guidlines
ADJ	Adjustable
AFF	Above Finished Floor
ALT	Alternate
ALUM	Aluminum
APPROX	Approximate
ARCH	Architect
BD	Board
BLDG	Building
BO	Bottom of
BOS	Bottom Of Steel
BOT	Bottom
BUR	Built Up Roof
CAB	Cabinet
CB	Catch Basin
CJ	Control Joint
CL	Centerline
CLG	Ceiling
CLOS	Closet
CLR	Clear
CO	Clean Out
COL	Column
CONC	Concrete
CONT	Continous
CPT	Carpet
CT	Ceramic Tile
CTR	Center
DBL	Double
DET	Detail
DIA	Diameter
DIM	Dimension
DN	Down
DR	Door
DS	Down Spout
DW	Dishwasher
DWG	Drawing
E	East
EA	Each
EHD	Electric Hand Dryer
EIFS	Exterior Insulation Finish System
EJ	Expansion Joint
ELEC	Electric(al)
ELEV	Elevation
EMER	Emergency
EQ	Equal
EQUIP	Equipment
EW	Each Way
EWC	Electric Water Cooler
EXP, JT.	Expansion Joint
EXST	Existing
EXT	Exterior
FA	Fire Alarm
FAP	Fire Annunciuator Panel
FD	Floor Drain
FE	Fire Extinguisher
FEC	Fire Extinguisher Cabinet
FF	Finish Floor
FH	Fire Hydrant
FHC	Fire Hose Cabinet
FIN	Finish
FIXT	Fixture
FLR	Floor
FLUOR	Fluorescent
FT	Foot or Feet
GAL	Gallon
GALV	Galvanized
GB	Grab Bar
GC	General Contractor
GL	Glass
GND	Ground
GWB	Gypsum Wall Board
GYP	Gypsum
H.W.H.	Hot Water Heater
HC	Handicapped
HDWD	Hardwood
HDWR	Hardware
HM	Hollow Metal
HORIZ	Horizontal
HP	High Point
HR	Hand Rail
HT	Height
HW	Hand Wash
ID	Inner (or Inside) Diameter
INSUL	Insulation
INT	Interior
JAN	Janitor
JT	Joint
LAM	Laminate
LAV	Lavatory
LB(S)	Pounds
LDG	Landing
LT	Light
MAX	Maximum
MECH	Mechanical
MEMB	Membrane
MFR	manufacturer
MIN	Minimum
MISC	Miscellaneous
MO	Masonry Opening
MTD	Mounted
MTL	metal
N	North
NIC	Not In Contract
NO	Number
NOM	Nominal
NTS	Not To Scale
OC	On Center
OD	Outside Diameter
OFF	Office
OH	Opposite Hand
OP	Overflow Pipe
OPG	Opening
OPP	Opposite
P-LAM	Plastic Laminate
PJ	Panel Joint
PLAS	Plaster
PLYWD	Plywood
PR	Pair
PT	Paint
R	Riser
RAD	Radius
RCP	Reflected Ceiling Plan
RD	Roof Drain
RE	Refer
REF	Refrigerator
REINF	Reinforced
REQD	Required
RESIL	Resilient
RM	Room
RO	Rough Opening
S	South
SC	Scupper
SCHED	Schedule
SECT	Section
SF	Square Foot
SHT	Sheet
SIM	Similar
SPEC	Specification
SQ	Square
SS	Stainless Steel
STD	Standard
STL	Steel
STRUCT	Structural
SUSP	Suspended
T	Tread
T&G	Tongue & Groove
TEL	Telephone
THK	Thick
TO	Top Of
TOS	Top Of Steel
TYP	Typical
UNFIN	Unfinished
UNO	Unless Noted Otherwise
UTIL	Utility
VCT	Vinyl Compostion Ttile
VERT	Vertical
VIF	Verify In Field
VOJ	Verify On Job
VTR	Vent Termination Ppipe
VWC	Vinyl Wall Covering
W	West
w/	With
w/o	Without
WC	Watercloset
WD	Wood
WIN	Window
WP	Waterproof
WT	Weight
WWF	Welded Wire Fabric

Grace Design Studios

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**NEW

STORM DRAINAGE & UTILITY KEYED NOTES

1. SEE M.E.P. PLANS FOR CONTINUATION
2. NEW FIRE HYDRANT
3. REMOTE FIRE DEPARTMENT CONNECTION (SEE M.E.P. PLANS)
4. BACKFLOW PREVENTER ASSEMBLIES (FIRE/DOMESTIC)
5. TAP EXISTING WATER MAIN
6. TAP EXISTING GAS MAIN
7. PROPOSED GREASE TRAP (SEE M.E.P. PLANS)
8. PRE-FABRICATED FIBERGLASS REINFORCED SANITARY MANHOLES WITH IN-LINE GARBAGE GRINDERS.(MUFFIN MONSTER 3000LT-1204 OR APPROVED EQUAL) 2
9. ELECTRICAL CONTROLS FOR PUMP STATION
10. SANITARY SEWER PUMP STATION
11. CONNECTION FROM GREASE TRAP (SEE M.E.P. PLANS)
12. TRENCH DRAIN
13. PUMP STATION ALARMS 1

STORM DRAINAGE LEGEND

PROPOSED CONTOUR	75
EXISTING CONTOUR	75
RIDGE LINE	
DIRECTION OF OVERLAND FLOW	
STORM DRAINAGE PIPE	
DOWNSPOUT LEADERS	
STORM DRAIN LEADERS	
REQUIRED CLEANOUTS	co.
CONCRETE DRAINAGE STRUCTURES	
POLYMER YARD DRAINS	
FLARED END	
DOWNSPOUT CONNECTIONS	D.S.
RIP RAP PAD	
DRAINAGE STRUCTURE CALLOUT	#
KEYED NOTE	#

UTILITY LEGEND

DOMESTIC WATER LINE	W
FIRE WATER LINE	FW
GAS LINE	G
SANITARY SEWER LINE	SS
SEE M.E.P. FOR CONTINUATION	
RESTRAINED JOINTS	
DUCTILE IRON MECHANICAL JOINT	D.I.M.J.
OVERHEAD ELECTRIC LINE	OE
UTILITY POLE	
UTILITY LINE DIAMETER	X"
FIRE HYDRANT	
REMOTE FDC	
SANITARY SEWER MANHOLE	S

GENERAL NOTES:

1. INFORMATION DEPICTING THE EXISTING CONDITIONS HEREON WAS TAKEN FROM "MAP SHOWING PARTIAL TOPOGRAPHIC SURVEY OF AN UNNAMED TRACT, LOCATED IN SECTIONS 85 & 86, T-5-S, R-1-W, GREENSBURG LAND DISTRICT, EAST BATON ROUGE PARISH, LOUISIANA FOR GRACE HEBERT CURTIC ARCHITECTS, LLC " BY LANDSOURCE, INC. FOX-NESBIT ENGINEERING, LLC HAS NOT FIELD-VERIFIED THE ITEMS IDENTIFIED ON THIS SURVEY.
2. ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP NO. 22033C0155E REVISED MAY 2, 2008, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X". FLOOD ZONE INFORMATION SHALL BE CONFIRMED WITH DEPARTMENT OF DEVELOPMENT.
3. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION TO HAVE THEIR UTILITIES LOCATED IN THE FIELD. CONTRACTOR SHALL MAKE REQUEST THROUGH LOUISIANA ONE CALL (811).

STORM DRAINAGE NOTES:

1. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM PROPOSED BUILDINGS AT ALL TIMES.
2. ALL DRAINAGE PIPES, STRUCTURES, AND FITTINGS SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION SECTION 33 42 00.
3. PROPOSED DRAINAGE SYSTEMS SHALL BE CONSTRUCTED BEGINNING AT THE OUTFALL POINT AND PROCEEDING UPSTREAM.
4. WHERE "SDP" IS INDICATED, PIPE MATERIAL SHALL BE PLASTIC OR CONCRETE IN ACCORDANCE WITH SPECIFICATION SECTION 33 42 00.
5. REFER TO ARCHITECT'S DRAWINGS FOR SIZE & LOCATION OF EXTERIOR DOWNSPOUTS.
6. ALL DOWNSPOUT LEADERS SHALL BE 8" SDP @ 1.00% SLOPE (MIN.), UNLESS OTHERWISE NOTED. 2

UTILITY NOTES:

1. UNDERGROUND UTILITY LOCATIONS SHOWN ARE ESTIMATED AND NOT SURVEYED, CONTRACTOR SHALL FIELD-VERIFY ACTUAL LOCATION PRIOR TO CONSTRUCTION AND EXERCISE CAUTION DURING ALL WORK.
2. WHERE PROPOSED WATER LINES & SANITARY SEWER LINES CROSS, A MINIMUM VERTICAL SEPARATION OF 12" ABOVE THE TOP OF THE SEWER LINE (MEASURED EDGE TO EDGE) SHALL BE PROVIDED BETWEEN THE LINES. THE WATER SERVICE LINE SHALL BE SLEEVED TO A POINT NOT LESS THAN 5' HORIZONTALLY FROM THE CENTERLINE OF THE SEWER LINE WITH MATERIAL APPROVED FOR WATER LINE CONSTRUCTION.
3. WATER MAINS & SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL SEPARATION OF 5' (MEASURE EDGE TO EDGE).
4. ALL UTILITY CONNECTIONS TO THE BUILDINGS SHALL BE VERIFIED WITH THE M.E.P. PLANS.
5. SEWER SYSTEM INSTALLATION SHALL BEGIN AT THE CONNECTION TO THE EXISTING SYSTEM & SHALL PROCEED UPSTREAM.
6. ALL WATER LINES 3" IN DIAMETER & LARGER SHALL HAVE RESTRAINED JOINTS AT ALL BENDS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CONNECTIONS TO EXISTING PUBLIC UTILITY SYSTEMS WITH THE APPROPRIATE AGENCY/COMPANY HAVING OWNERSHIP OF THE RESPECTIVE UTILITY SYSTEM, AND SHALL INCLUDE ALL COSTS, FEES, PERMITS, ETC. IN BID.
8. WATER PIPING & APPURTENANCES SHOWN HEREON SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION 33 14 16.
9. SANITARY SEWER PIPING & APPURTENANCES SHOWN HEREON SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION SECITON 33 31 13.
10. CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE OF EXISTING WATER LINES. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
11. DUCTILE IRON RESTRAINED JOINTS SHALL BE PROVIDED ALONG NEW SEWER FORCE MAIN AT ALL DITCH CROSSINGS, VERTICAL & HORIZONTAL BENDS, TEES, AND VALVES. 2

PIPELINE COMPANY CONTACTS

COMPANY	CONTACT
MARATHON PIPELINES	EDWIN WIJEVE (575-200-6881) ejwijeve@marathonpetroleum.com
GENESIS PIPELINES	ROBERT FINDLEY (281-793-6656) robert.findley@genlp.com
SHELL/BENGAL PIPELINES	DAMIAN CAMBRE (504-465-6878) damian.cambre@shell.com

DRAINAGE STRUCTURE TABLE

STRUCTURE	TYPE	RIM ELEV.	INV. IN	INV. OUT	OUTFLOW PIPE
100	CURB INLET	80.15		76.65 (101)	12" SDP x 22' @ 0.25%
101	CURB INLET	80.15	76.59 (100)	76.11 (102)	12" SDP x 83' @ 0.25%
102	2X2 DI	78.90	75.90 (101)	75.46 (105)	12" SDP x 83' @ 0.25%
103	CURB INLET	78.40		74.90 (105)	12" SDP x 22' @ 0.25%
104	18" DI	77.25		75.00 (105)	12" SDP x 10' @ 0.25%
105	CURB INLET	78.40	74.84 (103) 74.97 (104) 75.25 (102)	73.88 (107)	15" SDP x 110' @ 0.25%
106	CURB INLET	76.55		73.13 (107)	12" SDP x 22' @ 0.25%
107	CURB INLET	76.55	73.61 (105) 73.07 (106)	72.28 (108)	15" SDP x 108' @ 0.25%
108	18" DI	74.50	72.00 (107)	70.84 (110)	15" SDP x 47' @ 0.25%
109	CURB INLET	74.50		71.71 (110)	12" SDP x 42' @ 0.25%
110	CURB INLET	74.30	70.72 (108) 71.60 (109)	70.72 (111)	15" SDP x 28' @ 0.25%
111	18" DI	74.10	70.64 (110)	70.64 (113)	15" SDP x 55' @ 0.25%
112	PIPE IN			74.00 (113)	15" RCP x 72' @ 4.75%
113	STORM MANHOLE	74.45	70.50 (112) 70.50 (111)	70.50 (122)	18" SDP x 58' @ 0.25%
114	2X2 DI	77.75		74.32 (115)	12" SDP x 90' @ 0.44%
115	2X2 DI	76.55	73.90 (114)	73.01 (116)	12" SDP x 66' @ 0.31%
116	2X2 DI	75.65	72.80 (115)	72.16 (117)	12" SDP x 86' @ 0.24%
117	2X2 DI	74.45	71.95 (116)	70.94 (118)	15" SDP x 82' @ 0.28%
118	CURB INLET	73.90	70.70 (117)	70.30 (119)	15" SDP x 28' @ 0.25%
119	18" DI	73.00	70.22 (118)	70.10 (120)	15" SDP x 26' @ 0.25%
120	CURB INLET	74.10	70.03 (119)	69.56 (121)	15" RCP x 22' @ 0.25%
121	CURB INLET	74.10	69.50 (120)	69.50 (122)	15" SDP x 23' @ 0.25%
122	2X2 DI	73.25	69.43 (121) 70.34 (113)	69.43 (130)	24" SDP x 57' @ 0.21%
123	CURB INLET	77.30		73.15 (124)	12" RCP x 101' @ 0.20%
124	2X2 DI	75.65	72.95 (123)	72.61 (125)	12" RCP x 65' @ 0.37%

DRAINAGE STRUCTURE TABLE

STRUCTURE	TYPE	RIM ELEV.	INV. IN	INV. OUT	OUTFLOW PIPE
125	CURB INLET	75.30	72.36 (124)	71.86 (126)	12" RCP x 86' @ 0.24%
126	2X2 DI	73.65	71.65 (125)	70.69 (127)	15" RCP x 82' @ 0.28%
127	CURB INLET	73.75	70.45 (126)	69.56 (128)	15" RCP x 58' @ 0.24%
128	2X2 DI	73.00	69.41 (127)	69.41 (129)	15" RCP x 18' @ 0.29%
129	2X2 DI	73.00	69.35 (128)	69.35 (130)	15" RCP x 47' @ 0.23%
130	2X2 DI	73.00	69.23 (129) 69.30 (122)	69.19 (131)	24" SDP x 63' @ 0.29%
131	FLARED END		69.00 (130)		
200	18" DI	73.50		70.97 (201)	12" SDP x 118' @ 0.25%
201	18" DI	73.00	70.67 (200)	70.67 (203)	12" SDP x 39' @ 0.25%
202	18" DI	74.40		70.95 (203)	12" SDP x 152' @ 0.25%
203	18" DI	73.75	70.57 (201) 70.57 (202)	70.57 (204)	15" SDP x 100' @ 0.25%
204	18" DI	73.25	70.32 (203)	70.32 (205)	15" SDP x 129' @ 0.25%
205	18" DI	72.50	70.00 (204)	69.27 (207)	15" RCPA x 29' @ 0.25%
206	18" DI	72.50		70.33 (207)	15" SDP x 30' @ 0.25%
207	STORM MANHOLE	73.75	70.25 (206) 69.19 (205)	68.98 (208)	24" RCPA x 143' @ 0.12%
208	FLARED END		68.81 (207)		
211	CURB INLET	73.40		69.56 (212)	12" SDP x 39' @ 0.25%
212	2X2 DI	72.00	69.45 (211)	68.70 (213)	15" RCPA x 49' @ 0.25%
213	FLARED END		68.57 (212)		
300	2X2 DI	74.00		67.84 (301)	15" SDP x 87' @ 0.25%
301	2X2 DI	73.05	67.61 (300)	67.61 (302)	15" SDP x 69' @ 0.25%
302	2X2 DI	72.40	67.43 (301)	67.43 (303)	18" SDP x 66' @ 0.25%
303	2X2 DI	71.55	67.26 (302)	67.26 (304)	24" RCP x 41' @ 0.26%
304	2X2 DI	70.25	67.14 (303)	67.14 (306)	24" RCP x 76' @ 0.25%
305	2X2 DI	71.30		67.02 (306)	15" PVC x 25' @ 0.25%

DRAINAGE STRUCTURE TABLE

STRUCTURE	TYPE	RIM ELEV.	INV. IN	INV. OUT	OUTFLOW PIPE
306	STORM MANHOLE	72.00	66.94 (305) 66.94 (304)	66.94 (307)	24" RCP x 55' @ 0.17%
307	FLARED END		66.84 (306)		
400	2X2 DI	73.78		71.67 (401)	15" SDP x 64' @ 1.00%
401	18" DI	73.75	71.00 (400)	71.00 (403)	18" SDP x 114' @ 0.50%
402	2X2 DI	71.32		68.50 (403)	15" SDP x 112' @ 0.25%
403	2X2 DI	72.50	68.21 (402) 70.41 (401)	68.21 (404)	18" SDP x 205' @ 0.50%
404	2X2 DI	72.00	67.16 (403)	65.87 (405)	24" SDP x 60' @ 0.25%
405	FLARED END		65.72 (404)		
500	2X2 DI	74.00		71.75 (502)	12" SDP x 59' @ 0.50%
501	2X2 DI	73.50		71.80 (502)	12" PVC x 71' @ 0.50%
502	2X2 DI	74.25	71.43 (501) 71.43 (500)	71.43 (503)	15" SDP x 100' @ 2.33%
503	2X2 DI	71.75	69.00 (502)	69.54 (504)	15" SDP x 213' @ 0.25%
504	FLARED END		69.00 (503)		
600	STORM MANHOLE	74.75		71.37 (601)	18" SDP x 83' @ 0.25%
601	STORM MANHOLE	74.75	71.15 (600)	71.10 (602)	18" SDP x 89' @ 0.25%
602	STORM MANHOLE	74.75	70.87 (601)	70.84 (603)	18" SDP x 35' @ 0.25%
603	2X2 DI	73.65	70.74 (602)	70.73 (604)	18" SDP x 113' @ 0.25%
604	2X2 DI	73.25	70.44 (603)	70.44 (607)	18" SDP x 74' @ 0.25%
605	TRENCH DRAIN	75.30		74.80 (606)	TRENCH DRAIN x 45' @ 0.50%
606	18" DI	75.30	74.57 (605)	70.53 (607)	15" SDP x 89' @ 0.25%
607	18" DI	73.25	70.30 (606) 70.25 (604)	70.14 (608)	18" SDP x 132' @ 0.26%
608	FLARED END		69.80 (607)		

2 2

SANITARY SEWER STRUCTURE TABLE

STRUCTURE	RIM ELEV.	INV. IN	INV. OUT	OUTFLOW PIPE
SSMH-1	74.25	69.40	69.30	6" PVC x 23' @ 0.50%
SSMH-2	74.70	69.19	69.09	8" PVC x 164' @ 0.50%
SSMH-3	74.10	69.40	69.30	6" PVC x 25' @ 0.50%
SSMH-4	74.55	68.25	68.15	8" PVC x 199' @ 0.50%
SSMH-5	74.10	67.15	67.05	8" PVC x 268' @ 0.50%
SSMH-6	74.60	69.25	69.15	8" PVC x 398' @ 0.50% 1
SSMH-7	75.00	68.55	68.45	6" PVC x 7' @ 0.50%
SSMH-8	74.45	68.12	68.02	6" PVC x 12' @ 0.50%
SSMH-9	74.45	67.61	67.51	6" PVC x 11' @ 0.50%
SSMH-10	75.35	67.15	67.05	8" PVC x 203' @ 0.50%
SSMH-11	73.50	65.72	65.20	8" PVC x 7' @ 0.50%
SSMH-12	74.40	64.90	64.80	8" PVC x 212' @ 0.50%

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License No. 37716
PROFESSIONAL ENGINEER
03-30-2026

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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

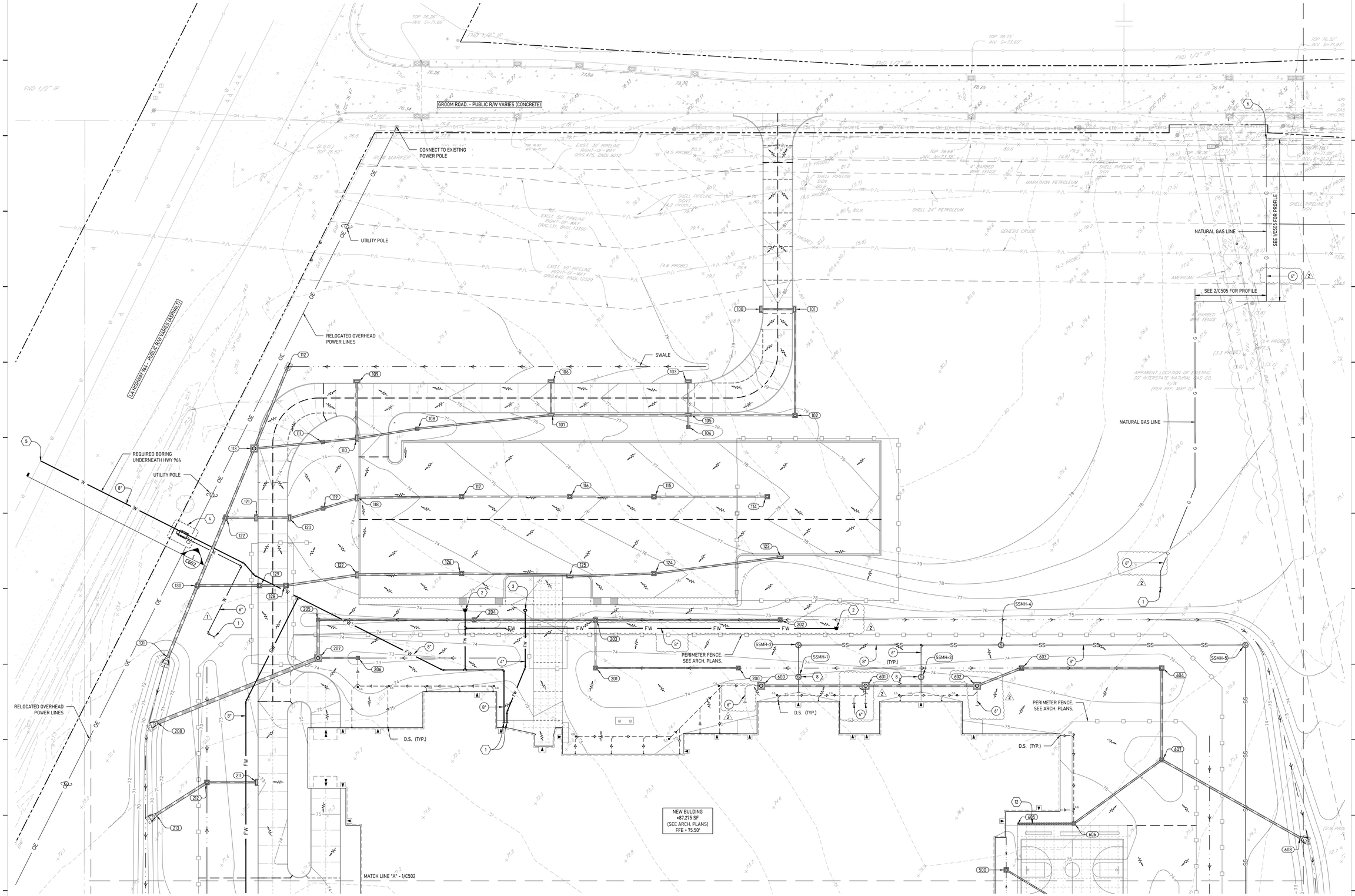
PROJECT NO. 08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	4/21/26
2	ADDENDUM 2	4/27/26

DATE: 03-30-2026
PHASE: CONSTRUCTION DOCUMENTS
ISSUED FOR: REVIEW & PRICING
PROJECT NO: 571506

STORM DRAINAGE & UTILITY INFO

SHEET NUMBER
C500



1 STORM DRAINAGE & UTILITY LAYOUT
Scale: 1" = 30'

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STORM DRAINAGE & UTILITY LAYOUT

SHEET NUMBER
C501

NEW BUILDING
+87,275 SF
(SEE ARCH. PLANS)
FFE = 75.50'

NEW MAINT. BLDG.
(SEE ARCH. PLANS)
FFE = +75.00'

MATCH LINE "A" - I/C501

MATCH LINE "B" - I/C503

SEE 3/C505 FOR PROFILE

D.S. (TYP.)

DITCH

SSMH-4

SSMH-6

SSMH-7

SSMH-8

SSMH-9

SSMH-10

SSMH-11

FLOOD ZONE "X"
FLOOD ZONE "X"
(WITH SHADING)

60" LIVE OAK

54" LIVE OAK

48" LIVE OAK

30" LIVE OAK

18" OAK

INVL =67.82'

30" CMP

SEC. 85

SEC. 86

1 STORM DRAINAGE & UTILITY LAYOUT
Scale: 1" = 30'

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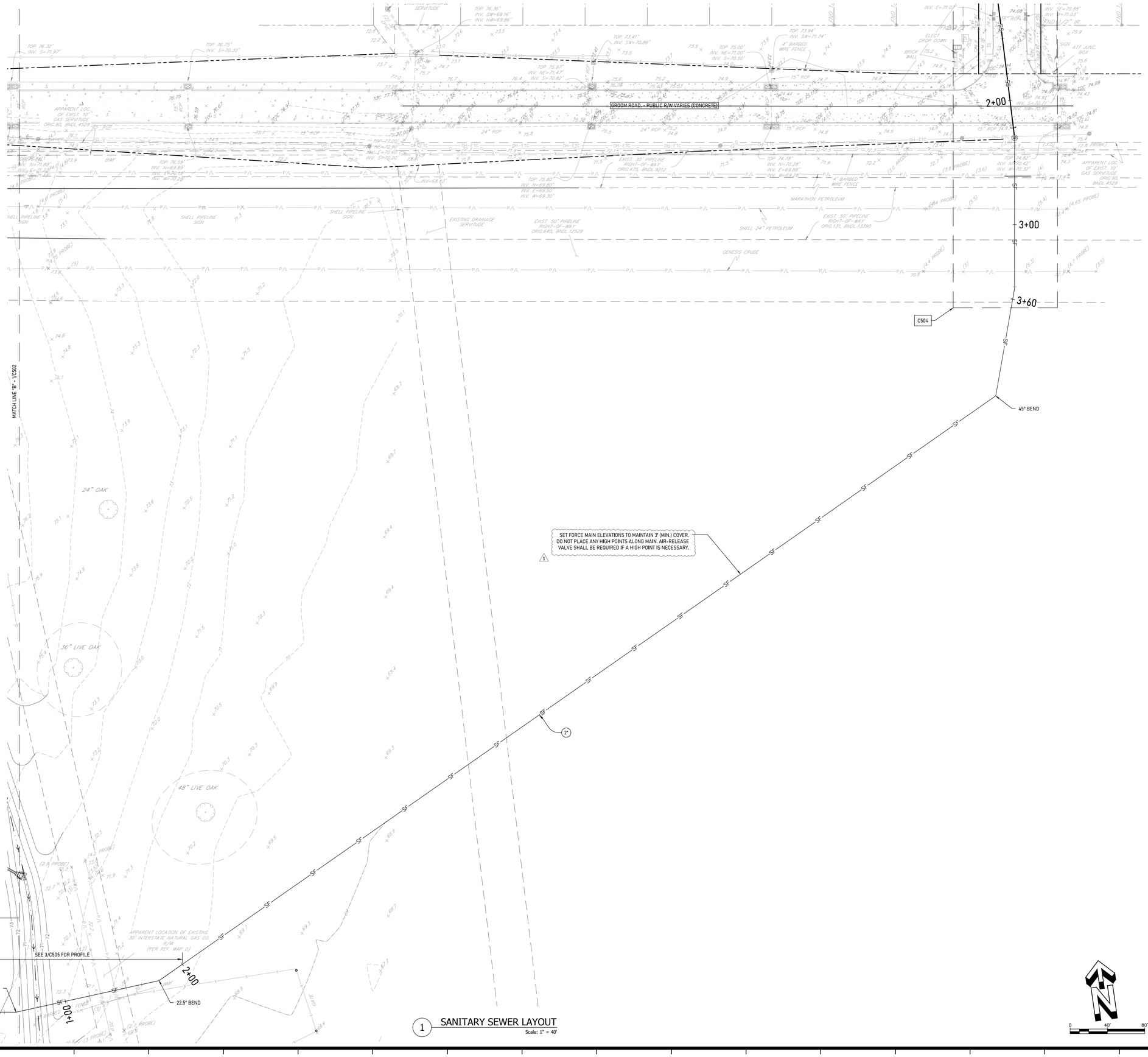
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08-403-24-01, F.08000165
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1	ADDENDUM 1	4/21/26
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STORM DRAINAGE & UTILITY LAYOUT

SHEET NUMBER
C502



1 SANITARY SEWER LAYOUT
Scale: 1" = 40'

0 40' 80'

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OFFICE OF JUVENILE JUSTICE

PROJECT NO.:08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

NO.	DESCRIPTION	DATE
1	ADDENDUM 2	4/27/26

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PHASE: CONSTRUCTION DOCUMENTS
ISSUED FOR: REVIEW & PRICING
PROJECT NO: 571506

SANITARY SEWER LAYOUT

SHEET NUMBER
C503

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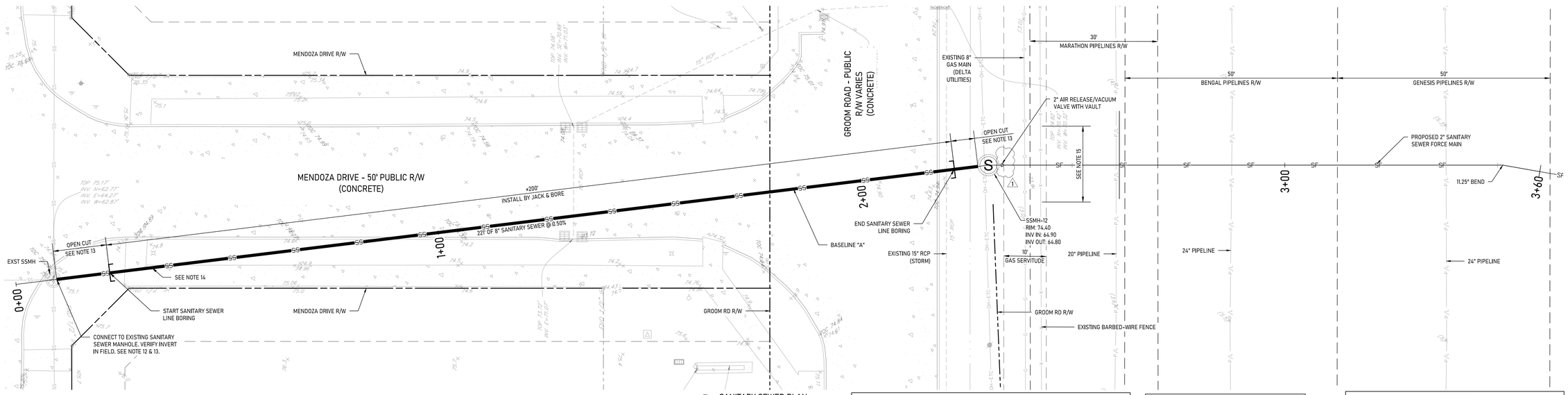
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GENERAL NOTES:

1. INFORMATION DEPICTING THE EXISTING CONDITIONS HEREON WAS TAKEN FROM "MAP SHOWING PARTIAL TOPOGRAPHIC SURVEY OF AN UNNAMED TRACT, LOCATED IN SECTIONS 85 & 86, T-5-S, R-1-W, GREENSBURG LAND DISTRICT, EAST BATON ROUGE PARISH, LOUISIANA FOR GRACE HEBERT CURTIC ARCHITECTS, LLC " BY LANDSOURCE, INC. FOX-NESBIT ENGINEERING, LLC HAS NOT FIELD-VERIFIED THE ITEMS IDENTIFIED ON THIS SURVEY.
2. ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP NO. 22033C0115E REVISED MAY 2, 2008, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X". FLOOD ZONE INFORMATION SHALL BE CONFIRMED WITH DEPARTMENT OF DEVELOPMENT.
3. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION TO HAVE THEIR UTILITIES LOCATED IN THE FIELD. CONTRACTOR SHALL MAKE REQUEST THROUGH LOUISIANA ONE CALL (811).

UTILITY CROSSING PLAN & PROFILE NOTES:

1. UNDERGROUND UTILITY LOCATIONS SHOWN ARE ESTIMATED AND NOT SURVEYED. CONTRACTOR SHALL FIELD-VERIFY ACTUAL LOCATION PRIOR TO CONSTRUCTION AND EXERCISE CAUTION DURING ALL WORK.
2. ALL WORK WITHIN PIPELINE RIGHT-OF-WAY SHALL COMPLY WITH THE REQUIREMENTS OF THE RESPECTIVE PIPELINE OPERATORS.
3. A PIPELINE OPERATOR REPRESENTATIVE SHALL BE PRESENT DURING ALL EXCAVATION OR CONSTRUCTION ACTIVITIES.
4. NO WORK SHALL COMMENCE UNTIL WRITTEN APPROVAL IS RECEIVED BY EACH INDIVIDUAL PIPELINE COMPANY.
5. CONTRACTOR SHALL VERIFY EXACT DEPTH OF EXISTING PIPELINES AND ENSURE MINIMUM COVER REQUIREMENTS ARE MET. CONTRACTOR SHALL CONTACT THE ENGINEER-OF-RECORD IF ANY DISCREPANCIES ARE FOUND IN THE FIELD, OR ANY CONDITION THAT WOULD COMPROMISE COVER REQUIREMENTS.
6. NO TRUCKS OR HEAVY EQUIPMENT SHALL CROSS ANY PIPELINE ROW WITHOUT PRIOR APPROVAL FROM THE PIPELINE OPERATOR.
7. TEMPORARY CROSSINGS, MATTING, ADDITIONAL COVER, OR BRIDGING MAY BE REQUIRED BY THE PIPELINE OPERATOR. ALL TEMPORARY CROSSINGS SHALL BE APPROVED BY THE PIPELINE OPERATOR.
8. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO APPROVED VEHICLE TYPES AND LOADINGS AS DETERMINED BY THE PIPELINE OPERATOR. CONFIRM REQUIREMENTS PRIOR TO CONSTRUCTION.
9. ALL UTILITIES SHALL CROSS PIPELINES AT AN ANGLE AS CLOSE TO 90 DEGREES AS POSSIBLE AND NOT LESS THAN 45 DEGREES.
10. MINIMUM VERTICAL SEPARATION OF 24 INCHES SHALL BE MAINTAINED BETWEEN PIPELINES AND OTHER UNDERGROUND UTILITIES UNLESS OTHERWISE APPROVED.
11. ALL UTILITIES SHALL CROSS BENEATH EXISTING PIPELINES UNLESS OTHERWISE APPROVED.
12. CORE DRILL MANHOLE AS REQ'D AND CONNECT PER EBRP STD DRAWING 804-01. PROVIDE RESILIENT CONNECTOR IN ACCORDANCE WITH SPECIFICATION SECTION 803.
13. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRENCHING PROTECTION, SHORING, SHIELDING, ETC. AS REQ'D FOR SANITARY SEWER PIPE INSTALLATION.
14. REMOVE & REPLACE EXISTING SIDEWALK IF NECESSARY TO PROVIDE RECEIVING PIT FOR BORED SEWER LINE.
15. REMOVE & REPLACE PORTION OF EXISTING BARBED-WIRE FENCE AS NEEDED FOR SEWER INSTALLATION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH LOWERING, ENCASING, SUPPORTING, OR OTHERWISE ADJUSTING EXISTING PIPELINES DUE TO CONSTRUCTION ACTIVITIES AS REQUIRED BY THE PIPELINE OPERATOR.
17. THE PIPELINE OPERATOR REPRESENTATIVE PRESENT ON SITE SHALL HAVE THE AUTHORITY TO REJECT THE USE OF ANY EXCAVATION EQUIPMENT DEEMED UNSUITABLE FOR SAFE EXCAVATION.
18. WARNING TAPE SHALL BE INSTALLED ONE (1) FOOT ABOVE THE PROPOSED CROSSING UTILITY THROUGHOUT THE WIDTH OF EACH PIPELINE RIGHT-OF-WAY AND EXTENDED A MINIMUM OF TWENTY-FIVE (25) FEET ON EACH SIDE OF THE RIGHT-OF-WAY.
19. PIPELINE MARKERS OR IDENTIFICATION SIGNS SHALL BE INSTALLED AT UTILITY CROSSINGS ONLY WHERE REQUIRED BY THE PIPELINE OPERATOR. LOCATION AND TYPE SHALL BE IN ACCORDANCE WITH THE PIPELINE OPERATOR'S REQUIREMENTS.
20. ALL UTILITY CROSSINGS OF EXISTING PIPELINES SHALL BE INSTALLED WITHIN STEEL CASING PIPE EXTENDING THE FULL WIDTH OF THE PIPELINE RIGHT-OF-WAY, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PIPELINE OPERATOR. CASING PIPE SHALL HAVE THREADED OR WELDED JOINTS.



1 SANITARY SEWER PLAN
Scale: 1" = 10'

REFERENCE STANDARDS

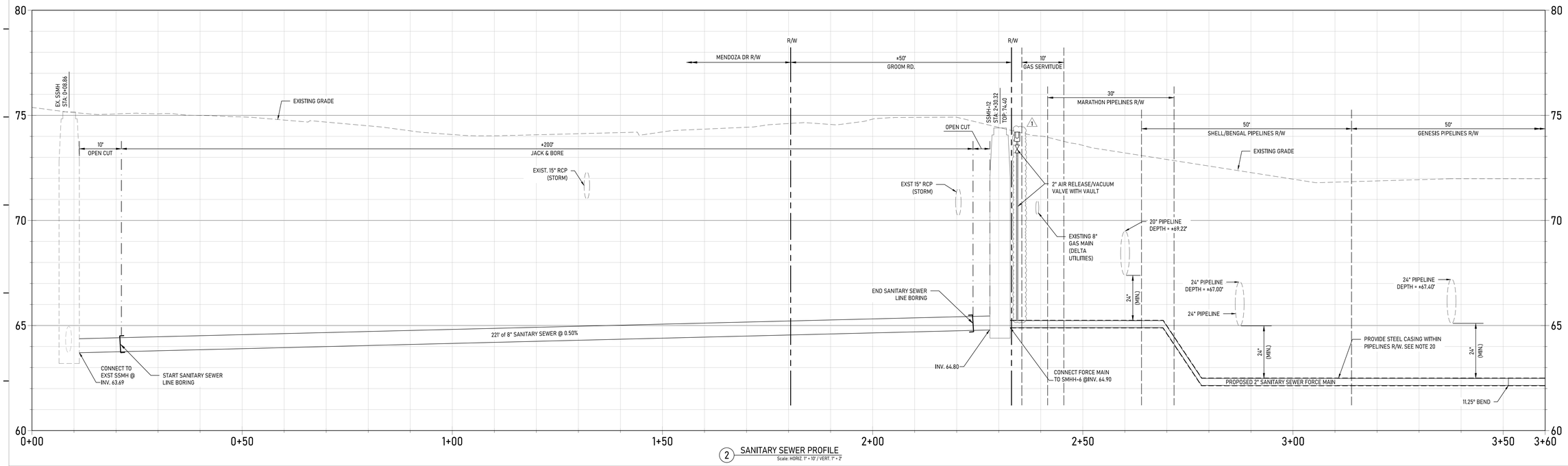
CONSTRUCTION OF SANITARY SEWER SYSTEM WITHIN THE GROOM RD & MENDOZA DRIVE R/W SHALL BE IN ACCORDANCE WITH THE FOLLOWING EBRP STANDARD DRAWINGS & SPECIFICATIONS:
STD PLAN 801-01 - BEDDING & BACKFILL DETAILS FOR SANITARY SEWER PIPE, FORCE MAINS & SERVICE LINES
STD PLAN 803-01 - SANITARY SEWER MANHOLE DETAILS
STD PLAN 804-01 - FORCE MAIN DETAILS
SECTION 801: EXCAVATION, BACKFILLING AND COMPACTION FOR SANITARY SEWERS
SECTION 802: GRAVITY SEWER PIPE
SECTION 803: SEWER MANHOLES
SECTION 817: JACKED AND BORED PIPE/CASING

PIPELINE COMPANY CONTACTS

COMPANY	CONTACT
MARATHON PIPELNES	EDWIN WUIEVE (575-200-4881) ejwuieve@marathonpetroleum.com
GENESIS PIPELINES	ROBERT FINDLEY (281-793-6656) robert.findley@genlp.com
SHELL/BENGAL PIPELINES	DAMIAN CAMBRE (504-465-6878) damian.cambre@shell.com

LEGEND

EXISTING SANITARY SEWER LINE	SS
SANITARY SEWER LINE	SS
SEWER FORCE MAIN	SF
SANITARY SEWER MANHOLE	S
EXISTING SANITARY SEWER MANHOLE	S



2 SANITARY SEWER PROFILE
Scale: HORIZ. 1" = 10' / VERT. 1" = 2'

Grace Design Studios

SCOTT M. FOX
License No. 37716
PROFESSIONAL ENGINEER
STATE OF LOUISIANA
03-30-2026

FOX::NESBIT
BATON ROUGE 225:293:6595
NEW ORLEANS www.fox-nesbit.com
2026 23575 C3020125

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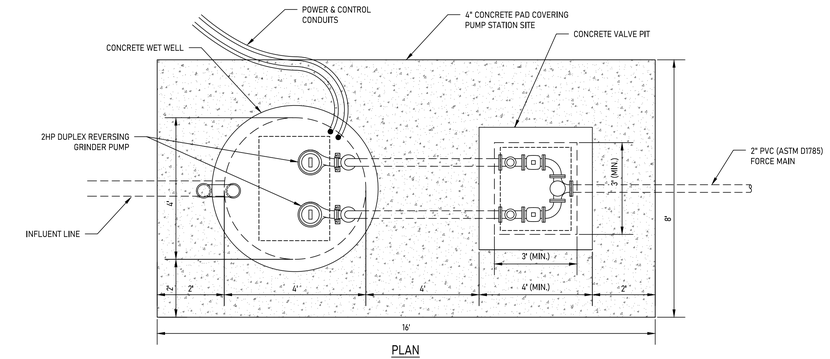
PROJECT NO.:08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

NO.	DESCRIPTION	DATE
1	ADDENDUM 2	4/27/26

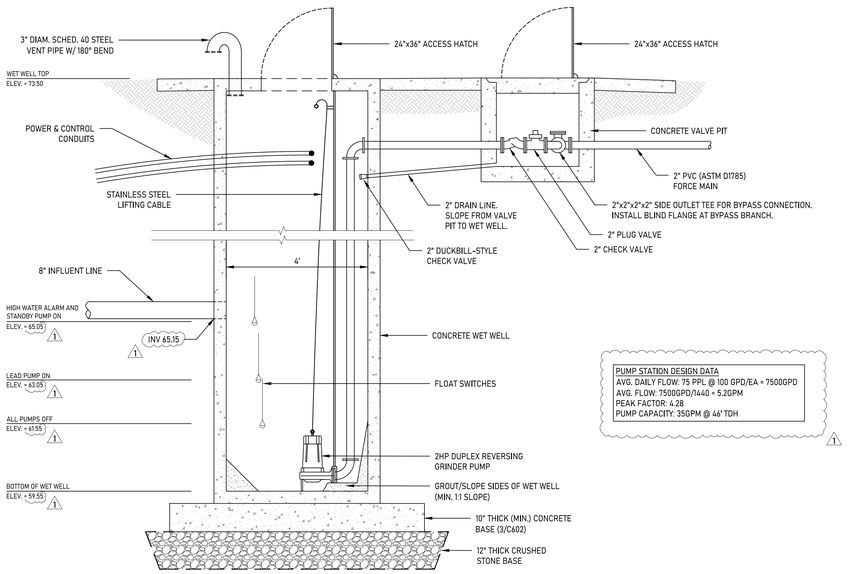
DATE: 03-30-2026
PHASE: CONSTRUCTION DOCUMENTS
ISSUED FOR: REVIEW & PRICING
PROJECT NO: 571506

PLAN & PROFILE

SHEET NUMBER
C504



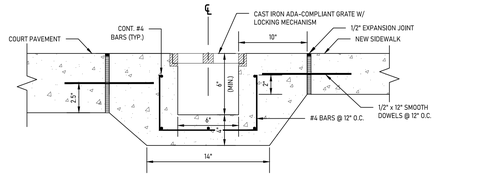
PLAN



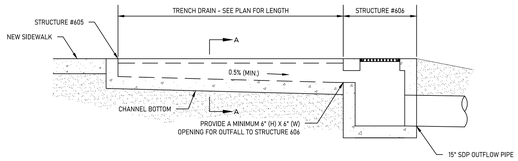
PROFILE

PUMP STATION DESIGN DATA
AVG. DAILY FLOW: 75 PPL @ 100 GPD/EA = 7500GPD
AVG. FLOW: 7500GPD/1440 = 5.2GPM
PEAK FACTOR: 4.28
PUMP CAPACITY: 35GPM @ 46' TDH

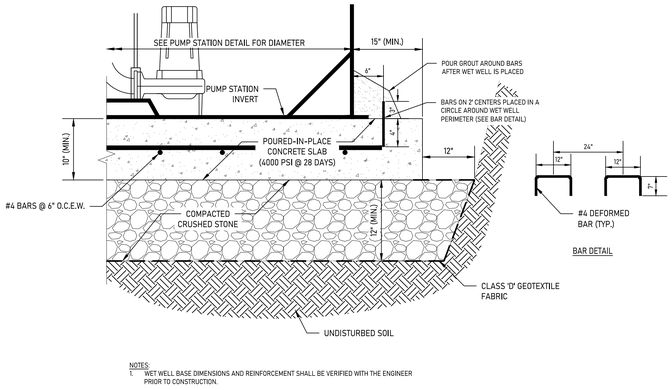
2 PROPOSED SEWER PUMP STATION
NOT TO SCALE



SECTION A-A



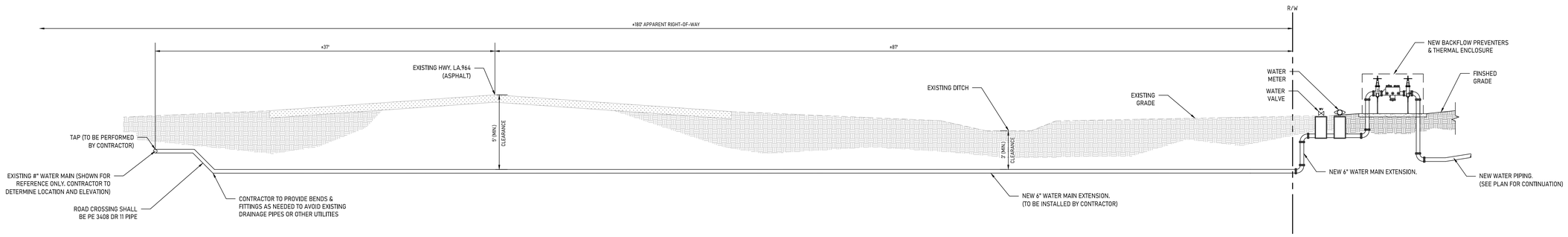
4 TRENCH DRAIN
NOT TO SCALE



BAR DETAIL

NOTES:
1. WET WELL BASE DIMENSIONS AND REINFORCEMENT SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO CONSTRUCTION.

3 BASE DETAIL FOR SEWER PUMP STATION
NOT TO SCALE



1 WATER LINE CROSSING SECTION
NOT TO SCALE

Grace Design Studios

STATE OF LOUISIANA
SCOTT M. VEH
License No. 37716
PROFESSIONAL ENGINEER
ENGINEER
03-30-2026

FOX NESBIT
BATON ROUGE 225:293:6595
NEW ORLEANS www.fox-nesbit.com
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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO. 08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

NO.	DESCRIPTION	DATE
1	ADDENDUM 2	4/27/26

DATE: 03-30-2026
PHASE: CONSTRUCTION DOCUMENTS
ISSUED FOR: REVIEW & PRICING
PROJECT NO: 571506

CIVIL DETAILS

SHEET NUMBER
C602

FLOOR PLAN GENERAL NOTES

1. ALL PARTITIONS TO BE TYPE "K1" UNLESS NOTED OTHERWISE ON PLAN.
2. ALL DIMENSIONS ARE FROM THE EXTERIOR FACE OF THE BUILDING TO COLUMN CENTER LINE TO FACE OF GYP BD EXCLUDING INTERIOR FINISHES UNLESS NOTED OTHERWISE ON PLAN.
3. ALL DOOR NUMBERS ARE THE SAME AS THE ROOM NUMBER THAT THE DOOR SWINGS INTO UNLESS NOTED OTHERWISE ON PLAN. IN ROOMS WITH MORE THAN ONE (1) DOOR SWINGING INTO IT, THE DOORS WILL BE DISTINGUISHED BY A LETTER A, B, ETC. AT THE END OF THE DOOR NUMBER. THE BUILDING AREA IS EXCLUDED FROM THE DOOR NUMBER PLAN DESIGNATION FOR CLARITY.
4. UNLESS DIMENSIONED OTHERWISE ON PLAN, LOCATE THE HINGE FACE OF DOOR FRAMES IN METAL STUD WALLS 6" FROM THE FACE OF THE ADJACENT PARTITION AT HINGE-JAMBS. REFER TO T004 FOR TYPICAL DOOR LAYOUT.
5. REFER TO 'G' SERIES SHEETS FOR TYPICAL GYP BD PARTITION AND FRAMING DETAILS.
6. REFER TO SHEET G002 FOR TYPICAL TOILET ACCESSORIES AND TYPICAL DEVICE MOUNTING HEIGHTS.
7. PROVIDE CONTROL JOINTS AT BOTH SIDES OF DOOR FRAME ON GYPSUM BOARD WALLS, ON CORRIDOR SIDE WALLS TYPICAL, UNO.

WALL PARTITION LEGEND

NEW WALLS / CONSTRUCTION

MATCHLINE / LIMIT OF WORK

FLOOR PLAN LEGEND

XX — PARTITION TYPES - RE G003

A — GLAZING FRAME TYPES - REF: A603

FEC — FIRE EXTINGUISHER CABINET MOUNTED @ 4' - 0" TO TOP OF EXTINGUISHER HANDLE OR AS REQUIRED BY AHJ

XX / 01 — DOOR TYPE & DOOR NUMBER - REFER TO PROJECT MANUAL AND SHEET A601 FOR TYPES

A — ACCESSORY TAG REF G002 FOR ACCESSORY INFORMATION

1 — KEYNOTE

AC / PP — ACCESS CONTROL/PUSH PLATE SHOWN FOR REFERENCE

F.D. — FLOOR DRAIN

KEYNOTES (1)

1 FLOOR PLAN - SECTOR A
1/8" = 1'-0"

N

TRUE NORTH

Grace Design Studios

GERALD DAVID HEBERT II
LICENSE No. 40208
REGISTERED ARCHITECT
STATE OF LOUISIANA

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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO.:08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

NO.	DESCRIPTION	DATE
1	Addendum #001	4/21/26
2	Addendum #002	4/28/26

DATE: 03-30-2026
PHASE: CONSTRUCTION DOCUMENTS
ISSUED FOR: REVIEW & PRICING
PROJECT NO: 571506

FLOOR PLAN - SECTOR A

SHEET NUMBER
A101a

Autodesk Docs://571506 New Jetson Center for Youth/571506_New Jetson_r23.rvt
4/30/2026 3:23:35 PM

FLOOR PLAN GENERAL NOTES

1. ALL PARTITIONS TO BE TYPE "K1" UNLESS NOTED OTHERWISE ON PLAN.
2. ALL DIMENSIONS ARE FROM THE EXTERIOR FACE OF THE BUILDING TO COLUMN CENTER LINE TO FACE OF GYP BD EXCLUDING INTERIOR FINISHES UNLESS NOTED OTHERWISE ON PLAN.
3. ALL DOOR NUMBERS ARE THE SAME AS THE ROOM NUMBER THAT THE DOOR SWINGS INTO UNLESS NOTED OTHERWISE ON PLAN. IN ROOMS WITH MORE THAN ONE (1) DOOR SWINGING INTO IT. THE DOORS WILL BE DISTINGUISHED BY A LETTER A, B, ETC. AT THE END OF THE DOOR NUMBER. THE BUILDING AREA IS EXCLUDED FROM THE DOOR NUMBER PLAN DESIGNATION FOR CLARITY.
4. UNLESS DIMENSIONED OTHERWISE ON PLAN, LOCATE THE HINGE FACE OF DOOR FRAMES IN METAL STUD WALLS 6" FROM THE FACE OF THE ADJACENT PARTITION AT HINGE-JAMBS. REFER TO T004 FOR TYPICAL DOOR LAYOUT.
5. REFER TO 'G' SERIES SHEETS FOR TYPICAL GYP BD PARTITION AND FRAMING DETAILS.
6. REFER TO SHEET G002 FOR TYPICAL TOILET ACCESSORIES AND TYPICAL DEVICE MOUNTING HEIGHTS.
7. PROVIDE CONTROL JOINTS AT BOTH SIDES OF DOOR FRAME ON GYPSUM BOARD WALLS, ON CORRIDOR SIDE WALLS TYPICAL, UNO.

WALL PARTITION LEGEND

NEW WALLS / CONSTRUCTION

MATCHLINE / LIMIT OF WORK

FLOOR PLAN LEGEND

- XX — PARTITION TYPES - RE G003
- A — GLAZING FRAME TYPES - REF: A603
- FEC — FIRE EXTINGUISHER CABINET MOUNTED @ 4' - 0" TO TOP OF EXTINGUISHER HANDLE OR AS REQUIRED BY AHJ
- XX / 103 — DOOR TYPE & DOOR NUMBER - REFER TO PROJECT MANUAL AND SHEET A601 FOR TYPES
- A — ACCESSORY TAG REF G002 FOR ACCESSORY INFORMATION
- 1 — KEYNOTE
- AC / PP — ACCESS CONTROL/PUSH PLATE SHOWN FOR REFERENCE
- F.D. — FLOOR DRAIN

KEYNOTES (1)

1 FLOOR PLAN - SECTOR B
1/8" = 1'-0"

TRUE NORTH

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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO.:08-403-04-02, Part 09 (F.080000780) &
08-403-24-01, F.080000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

NO.	DESCRIPTION	DATE
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2	Addendum #002	4/28/26

DATE: 03-30-2026
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PROJECT NO: 571506

FLOOR PLAN - SECTOR B

SHEET NUMBER
A101b

Autodesk Docs://571506 New Jetson Center for Youth/571506_New Jetson_r23.rvt
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FLOOR PLAN GENERAL NOTES

1. ALL PARTITIONS TO BE TYPE "K1" UNLESS NOTED OTHERWISE ON PLAN.
2. ALL DIMENSIONS ARE FROM THE EXTERIOR FACE OF THE BUILDING TO COLUMN CENTER LINE TO FACE OF GYP BD EXCLUDING INTERIOR FINISHES UNLESS NOTED OTHERWISE ON PLAN.
3. ALL DOOR NUMBERS ARE THE SAME AS THE ROOM NUMBER THAT THE DOOR SWINGS INTO UNLESS NOTED OTHERWISE ON PLAN. IN ROOMS WITH MORE THAN ONE (1) DOOR SWINGING INTO IT, THE DOORS WILL BE DISTINGUISHED BY A LETTER A, B, ETC. AT THE END OF THE DOOR NUMBER. THE BUILDING AREA IS EXCLUDED FROM THE DOOR NUMBER PLAN DESIGNATION FOR CLARITY.
4. UNLESS DIMENSIONED OTHERWISE ON PLAN, LOCATE THE HINGE FACE OF DOOR FRAMES IN METAL STUD WALLS 6" FROM THE FACE OF THE ADJACENT PARTITION AT HINGE-JAMBS. REFER TO T004 FOR TYPICAL DOOR LAYOUT.
5. REFER TO 'G' SERIES SHEETS FOR TYPICAL GYP BD PARTITION AND FRAMING DETAILS.
6. REFER TO SHEET G002 FOR TYPICAL TOILET ACCESSORIES AND TYPICAL DEVICE MOUNTING HEIGHTS.
7. PROVIDE CONTROL JOINTS AT BOTH SIDES OF DOOR FRAME ON GYPSUM BOARD WALLS, ON CORRIDOR SIDE WALLS TYPICAL, UNO.

WALL PARTITION LEGEND

NEW WALLS / CONSTRUCTION

MATCHLINE / LIMIT OF WORK

FLOOR PLAN LEGEND

- XX — PARTITION TYPES - RE G003
- A — GLAZING FRAME TYPES - REF: A603
- FEC — FIRE EXTINGUISHER CABINET MOUNTED @ 4' - 0" TO TOP OF EXTINGUISHER HANDLE OR AS REQUIRED BY AHJ
- XX 101 — DOOR TYPE & DOOR NUMBER - REFER TO PROJECT MANUAL AND SHEET A601 FOR TYPES
- A — ACCESSORY TAG REF G002 FOR ACCESSORY INFORMATION
- 1 — KEYNOTE
- AC PP — ACCESS CONTROL/PUSH PLATE SHOWN FOR REFERENCE
- F.D. — FLOOR DRAIN

KEYNOTES (1)

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GERALD DAVID HEBERT II
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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO. 08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

NO.	DESCRIPTION	DATE
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2	Addendum #002	4/28/26

DATE: 03-30-2026
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PROJECT NO: 571506

FLOOR PLAN - SECTOR C

SHEET NUMBER
A101c

1 FLOOR PLAN - SECTOR C
1/8" = 1'-0"

N

TRUE NORTH

A101b / 1

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DOOR SCHEDULE - NON-HOUSING

NO.	DOOR TYPE	WIDTH	HEIGHT	GLAZING	DOOR MATERIAL	FRAME MATERIAL	RATING	INSULATED	ACCESS CONTROL	NOTE
100A	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
100B	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
100C	G1	19' - 4"	14'-0"				-			
100D	G1	19' - 4"	14'-0"				-			
A100	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A100A	B	3' - 0"	7'-0"		HM	HM				
A101	B	3' - 0"	7'-0"		HM 2	HM 2				
A102	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A103A	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A103B	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A104	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A105	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A106	A.2	3' - 0"	7'-0"		12 GA DET	12 GA DET				
A107	A.2	3' - 0"	7'-0"		12 GA DET	12 GA DET				
A108A	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A108B	F4	3' - 0"	3'-8"							
A109A	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A110A	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A110B	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A111	A	3' - 0"	7'-0"		12 GA DET	12 GA DET				
A112	A1.2	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A115	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A120A	A1.1	4' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A121	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A121A	B1.1	3' - 0"	7'-0"	GL-2	14 GA HM	14 GA HM	60 MIN			
A121B	B1.1	3' - 0"	7'-0"	GL-2	14 GA HM	14 GA HM	60 MIN			
A122	A.4	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN 2			
A123A	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A123B	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A123C	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A124	A2.2	4' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN	YES		
A125	A1.1	4' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A125A	A1	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A125B	A1	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A125C	A1	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A125D	A1	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A125E	A1	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A125F	A1	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A125G	A	3' - 0"	7'-0"		12 GA DET	12 GA DET				
A125H	A.2	3' - 0"	7'-0"		12 GA DET	12 GA DET				
A126	A2.2	4' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN	YES		
A127	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A128	A1.1	4' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A129	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A129A	A1.2	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A129B	A1.2	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A130	A1	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
A130A	O	3' - 0"	7'-0"							OPENING
A133	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A141	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A143	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A145A	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A145B	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A147	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A149	C3.1 2	3' - 0"	7'-0"	SG-2	WD	HM	60 MIN			
A151	C2.2	3' - 0"	7'-0"		WD	HM	60 MIN			
A153A	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A153B	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
A155	C3.1	3' - 0"	7'-0"	GL-2 1	WD	HM	60 MIN			
A157	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
A160	C3.1	3' - 0"	7'-0"	GL-2 1	WD	HM	60 MIN			
A161	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
A162	O	3' - 0"	7'-0"							OPENING
A163	C3.1	3' - 0"	7'-0"	GL-2 1	WD	HM	60 MIN			
A165	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
A166	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
A167	C3.1	3' - 0"	7'-0"	GL-2 1	WD	HM	60 MIN			
A168	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
A169	C2.2	3' - 0"	7'-0"		WD	HM	60 MIN			
A170	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
A171	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
A172	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
A173	C3.1	3' - 0"	7'-0"	GL-2 1	WD	HM	60 MIN			
A175	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
A176	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
A178	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
A180	C3.1	3' - 0"	7'-0"	GL-2 1	WD	HM	60 MIN			
A182	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
A184	C3.1	3' - 0"	7'-0"	GL-2	WD	HM	60 MIN			
B100	E1	6' - 0"	8'-0"	GL-1	AL					
B102A	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
B102B	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
B102C	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	90 MIN			
B103	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
B103A	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
B103B	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
B103C	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
B103D	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
B104	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
B104A	B	3' - 0"	7'-0"		HM	HM				
B104B	B	3' - 0"	7'-0"		HM	HM				
B105	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
B106A	B4	6' - 0"	7'-0"	GL-1	HM	HM				
B106B	C1	3' - 0"	7'-0"	GL-1	WD	HM				
B106C	C1	3' - 0"	7'-0"	GL-1	WD	HM				
B108	C2	3' - 0"	7'-0"		WD	HM				
B110	C2	3' - 0"	7'-0"		WD	HM				
B111	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	90 MIN			
B113	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	90 MIN			
B115	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	90 MIN			
B120A	C2	3' - 0"	7'-0"		WD	HM				
B120B	G.6	3' - 0"	7'-4"							OPENING
B122	C2	3' - 0"	7'-0"		WD	HM				
B124	C2	3' - 0"	7'-0"		WD	HM				
B126	C1.2	3' - 0"	7'-0"	GL-1 1	WD	HM				
B128	C1.2	3' - 0"	7'-0"	GL-1 1	WD	HM				
B130	C1.2	3' - 0"	7'-0"	GL-1	WD	HM	1			
B131	C2.2	3' - 0"	7'-0"		WD	HM	60 MIN			
B132	C1.2	3' - 0"	7'-0"	GL-1 1	WD	HM				
B133	C2	3' - 0"	7'-0"		WD	HM				

DOOR SCHEDULE - NON-HOUSING

NO.	DOOR TYPE	WIDTH	HEIGHT	GLAZING	DOOR MATERIAL	FRAME MATERIAL	RATING	INSULATED	ACCESS CONTROL	NOTE
B134	C1.2	3' - 0"	7'-0"	GL-1 1	WD	HM				
B135	C1.2	3' - 0"	7'-0"	GL-1	WD	HM				
B137	C1.2	3' - 0"	7'-0"	GL-1	WD	HM				
B137A	C3	3' - 0"	7'-0"	GL-1	WD	HM				
B137B	C2	3' - 0"	7'-0"		WD	HM				
B139	C1.2	3' - 0"	7'-0"	GL-1 1	WD	HM				
B141	A.4 2	4' - 0"	7'-0"							OPENING
B141A	C2.2	3' - 0"	7'-0"		WD	HM	60 MIN 1			
B144	C1.2	3' - 0"	7'-0"	GL-1	WD	HM				
B145	C1.2	3' - 0"	7'-0"	GL-1 1	WD	HM				
B146	C1.2	3' - 0"	7'-0"	GL-1	WD	HM				
B147	C2	3' - 0"	7'-0"		WD	HM				
B148	C2	3' - 0"	7'-0"		WD	HM				
B149	C2	3' - 0"	7'-0"		WD	HM				
B150	C1.2	3' - 0"	7'-0"	GL-1 1	WD	HM				
B151	C2	3' - 0"	7'-0"		WD	HM				
B155	C1.2	3' - 0"	7'-0"	GL-1	WD	HM				
B157	C1.2	3' - 0"	7'-0"	GL-1	WD	HM				
B159	C1.2	3' - 0"	7'-0"	GL-1 1	WD	HM				
B161	C1.2	3' - 0"	7'-0"	GL-1	WD	HM				
B163A	C1.2	3' - 0"	7'-0"	GL-1	WD	HM				
B163B	C1.2	3' - 0"	7'-0"	GL-1	WD	HM				
B164A	C1	3' - 0"	7'-0"	GL-1	WD	HM				
B164B	B1	3' - 0"	7'-0"	GL-1	HM	HM				
B165	C1.2	3' - 0"	7'-0"	GL-1 1	WD	HM				
B166	C2	3' - 0"	7'-0"		WD	HM				
C100	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
C100A	A1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET				
C101A	A1	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
C102	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
C103	A1	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
C104	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
C105	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
C106	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
C107	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
C107A	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
C108	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
C109	O	3' - 0"	7'-2"							OPENING
C110	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
C111A	C2	3' - 0"	7'-0"		WD	HM				
C111B	B1	3' - 0"	7'-0"	GL-1	HM	HM				
C112A	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
C112B	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
C114	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
C115A	O	3' - 0"	7'-0"							OPENING
C115B	B1	3' - 0"	7'-0"	GL-1	HM	HM				
C116	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
C118	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
C120	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
C122	A 2	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET 2				
E101	B.2 1	3' - 0"	7'-0"		HM 1	HM 1	60 MIN			
E102	B	3' - 0"	7'-0"		HM	HM				
E102A	B	4' - 0"	7'-0"		HM 1	HM 2		YES		
E102B	B	4' - 0"	7'-0"		HM	HM		YES		
E103	C2	3' - 0"	7'-0"		WD 1	HM 2				
E104	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E105	B	4' - 0"	7'-0"		HM	HM		YES		
E106	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E107	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E108	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E109	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E112	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E113	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E114	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E115	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E116	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E117	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E120	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E121	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E122	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E123	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
E153	C2.2	3' - 0"	7'-0"		WD	HM	60 MIN			
J100A	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
J100B	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
J110	A1.2	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
J110B	F3	3' - 4"	5'-4"							
J110C	F3	3' - 4"	5'-4"							
J112	A1.2	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
J112A	B1	3' - 0"	7'-0"	SG-1	HM	HM				
J114	A.2	3' - 0"	7'-0"		12 GA DET	12 GA DET				
J116	B 2	3' - 0"	7'-0"		12 GA DET	12 GA DET				
J118	B 2	3' - 0"	7'-0"		HM 1	HM 2				
J120	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
M101	B	4' - 0"	7'-0"		HM	HM		YES		
M102	B	4' - 0"	7'-0"		HM	HM		YES		
M105	B	4' - 0"	7'-0"		HM	HM		YES		
M106	B	4' - 0"	7'-0"		HM	HM		YES		
M109	A.4	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN 1			
M110	B	4' - 0"	7'-0"		HM	HM		YES		
M114	B	4' - 0"	7'-0"		HM	HM		YES		
M117	B	4' - 0"	7'-0"		HM	HM		YES		
M118	B	4' - 0"	7'-0"		HM	HM		YES		
M121	B	4' - 0"	7'-0"		HM	HM		YES		
R100	A1.1	4' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
R100A	A1.2	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
R100B	B 2	3' - 0"	7'-0"		HM 1	HM 2				
R100C	B 2	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
R100D	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
R102	A.2	4' - 0"	7'-0"		HM	HM	60 MIN			
R104	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
R104A	F3	3' - 4"	5'-4"							
R106	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
R106B	A.2	3' - 0"	7'-0"		12 GA DET	12 GA DET				
R107	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
R107A	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
R108	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
R108A	F3	4' - 0"	5'-4"							
R108B	F3	13' - 4"	5'-4"							
R108C	A1	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
R110	B1	3' - 0"	7'-0"	SG-1	HM	HM				

DOOR SCHEDULE - NON-HOUSING

NO.	DOOR TYPE	WIDTH	HEIGHT	GLAZING	DOOR MATERIAL	FRAME MATERIAL	RATING	INSULATED	ACCESS CONTROL	NOTE
R112	B1	3' - 0"	7'-0"	SG-1	HM	HM				
R115	B1	3' - 0"	7'-0"	SG-1	HM	HM				
R117	B	3' - 0"	7'-0"		HM	HM				
R121	A1.3	4' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
R122	A1.3	4' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S100	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S101	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S102	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S103	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S104	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S105	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S106	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S107	A.4	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN 1			
S108A	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
S108B	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
S108C	A.4 2	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
S109	B.2 2	3' - 0"	7'-0"		HM 1	HM 2	60 MIN			
S112	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S113	B2	3' - 0"	7'-0"	GL-1	HM	HM				
S114	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S115	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S115A	B2	3' - 0"	7'-0"	GL-1	HM	HM				
S116	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S116A	A1.2	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
S117	B	3' - 0"	7'-0"		HM	HM				
S119	B	3' - 0"	7'-0"		HM	HM				
S121	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
S123	B2	3' - 0"	7'-0"	GL-1	HM	HM				
S125	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S125A	B1.1	3' - 0"	7'-0"	GL-1	HM	HM	60 MIN			
S131	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S133	A.4	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S134	A.4 2	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN 1			
S135	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S136	A.4	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN 1			
S137	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S138	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S139A	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
S139B	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET		YES		
S140	A1.1	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
S140A	A1.2	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET	20 MIN			
T100	A.1 2	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN 1			
T100A	A.3 2	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN 1			
T101	A1.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
T102	A.4	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN 1			
T104	A.1	3' - 0"	7'-0"		12 GA DET	12 GA DET	60 MIN			
T105	A1.1	4' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
T105A	A1.2	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
T105B	F1	10' - 0"	10'-0"							
T106	B.2 2	3' - 0"	7'-0"		HM 1	HM 2	60 MIN			
T107	A.3	3' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
T107A	A1	3' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				
T107C	F1	10' - 0"	10'-0"					YES		
T108	A1.1	4' - 0"	7'-0"	SG-2	12 GA DET	12 GA DET	60 MIN			
T110A	A1	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET		YES		
T110B	A1	4' - 0"	7'-0"	SG-1	12 GA DET	12 GA DET				

ABBREVIATION LEGEND

AL	ALUMINUM
AN	ANODIZED
GL	GLASS
HM	HOLLOW METAL
PT	PAINTED, RE: FINISH SCHEDULE
WD	SOLID CORE WOOD
SF	STOREFRONT
T	TEMPERED

INSULATED GLASS (IG) TYPES

IG-1: LOW E-COATED, CLEAR INSULATING GLASS

INTERIOR GLAZING (GL) TYPES

GL-1: 1/4" CLEAR TEMPERED FLOAT GLASS
GL-2: 1/4" CLEAR FLOAT GLASS
SG-1: SECURITY GLAZING
SG-2: SECURITY GLAZING (FIRE RATED)

GENERAL NOTES

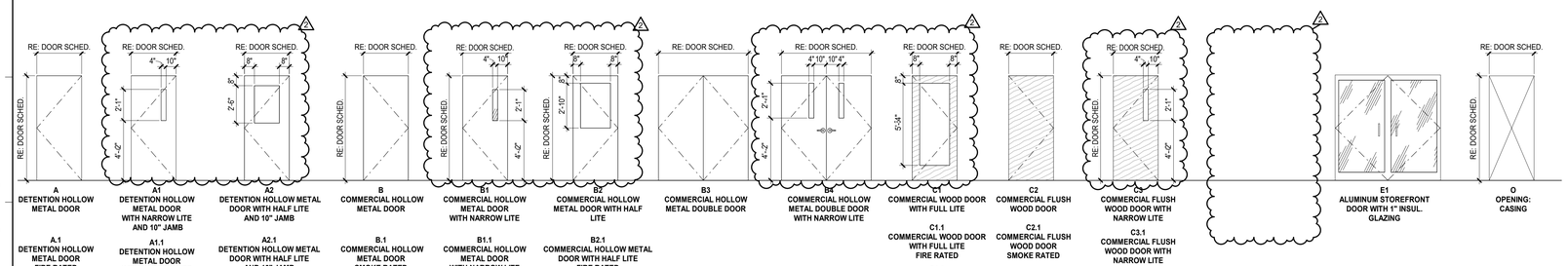
1. DOOR MANUFACTURER TO FIELD VERIFY ALL DOOR SIZES BASED ON JAMB OPENING
2. ALL FIRE - RATED DOORS SHALL BEAR A LABEL FROM AN APPROVED AGENCY
3. REFERENCE SPECIFICATIONS FOR DESCRIPTION OF DOOR HARDWARE SETS
4. ALL CLOSING DOORS/GATES/DOORS SHALL BE EQUIPPED WITH CLOSING DEVICES
5. DOOR FRAME HEAD WILL BE 4" WHEN A DOOR FALLS WITHIN A CMU OR TILT-UP WALL. DOOR FRAME HEAD WILL BE 2" WHEN A DOOR FALLS WITHIN A GYPSUM BOARD WALL. 2

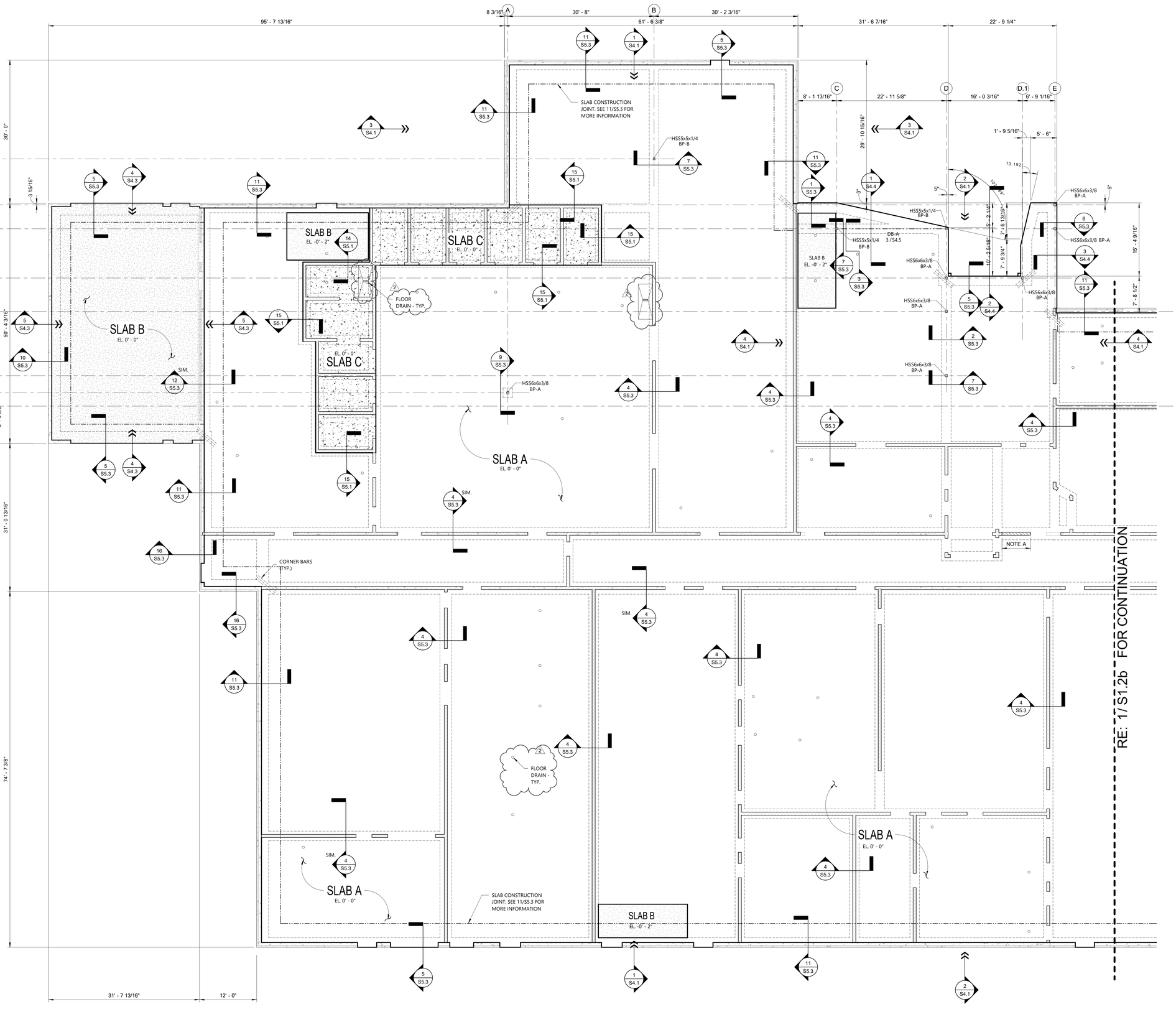
DOOR SCHEDULE NOTES

1. DOOR AND FRAME ARE PART OF A STOREFRONT ASSEMBLY

DOOR FRAME TYPES

Key Name	Frame Type	Finish	Comments
1	HOLLOW METAL		
2	STOREFRONT		
HM1	HOLLOW METAL		


RE: DOOR SCHED.
RE: DOOR SCHED.
4" 10"
2'-1"
4'-2"
RE: DOOR SCHED.
8" 8"
8"
2'-6"
RE: DOOR SCHED.
RE: DOOR SCHED.
RE: DOOR SCHED.
4" 10"
2'-1"
4'-2"
RE: DOOR SCHED.
8" 8"
8"
2'-10"
RE: DOOR SCHED.
RE: DOOR SCHED.
RE: DOOR SCHED.
4" 10" 10" 4"
2'-1"
4'-2"
RE: DOOR SCHED.
8" 8"
8"
5'-4"
RE: DOOR SCHED.
RE: DOOR SCHED.
RE: DOOR SCHED.
4" 10"
2'-1"
4'-2"
RE: DOOR SCHED.
RE: DOOR SCHED.
A
DETENTION HOLLOW METAL DOOR
A.1
DETENTION HOLLOW METAL DOOR FIRE RATED
A.2
DETENTION HOLLOW METAL DOOR AND 10" JAMB
A.3
DETENTION HOLLOW METAL DOOR AND 10" JAMB SMOKE RATED
A.4
DETENTION HOLLOW METAL DOOR AND 10" JAMB FIRE RATED
A1
DETENTION HOLLOW METAL DOOR WITH NARROW LITE AND 10" JAMB
A1.1
DETENTION HOLLOW METAL DOOR WITH NARROW LITE AND 10" JAMB FIRE RATED
A1.2
DETENTION HOLLOW METAL DOOR NARROW LITE, SMOKE RATED WHERE NOTED
A1.3
DETENTION HOLLOW METAL DOOR NARROW LITE FIRE RATED
A1.4
DETENTION HOLLOW METAL DOOR WITH NARROW LITE AND 10" JAMB SMOKE RATED
A2
DETENTION HOLLOW METAL DOOR WITH HALF LITE AND 10" JAMB
A2.1
DETENTION HOLLOW METAL DOOR WITH HALF LITE AND 10" JAMB SMOKE RATED
A2.2
DETENTION HOLLOW METAL DOOR WITH HALF LITE AND 10" JAMB FIRE RATED
B
COMMERCIAL HOLLOW METAL DOOR
B.1
COMMERCIAL HOLLOW METAL DOOR SMOKE RATED
B.2
COMMERCIAL HOLLOW METAL DOOR FIRE RATED
B1
COMMERCIAL HOLLOW METAL DOOR WITH NARROW LITE
B1.1
COMMERCIAL HOLLOW METAL DOOR WITH NARROW LITE FIRE RATED
B2
COMMERCIAL HOLLOW METAL DOOR WITH HALF LITE
B2.1
COMMERCIAL HOLLOW METAL DOOR WITH HALF LITE FIRE RATED
B3
COMMERCIAL HOLLOW METAL DOUBLE DOOR
B4
COMMERCIAL HOLLOW METAL DOUBLE DOOR WITH NARROW LITE
C1
COMMERCIAL WOOD DOOR WITH FULL LITE
C1.1
COMMERCIAL WOOD DOOR WITH FULL LITE FIRE RATED
C1.2
COMMERCIAL WOOD DOOR WITH HALF LITE W/ INTEGRAL BLINDS
C2
COMMERCIAL FLUSH WOOD DOOR



NORTH

1 SLAB PLAN - AREA A

1/8" = 1'-0"

SLAB PLAN NOTES AND LEGEND:

SLAB A = 5" THICK CONCRETE SLAB ON 15 MIL VAPOR RETARDER WITH TAPED JOINTS ON 4" GRAVEL ON COMPACTED FILL. REINFORCE WITH #4 BARS AT 12" O.C. EACH WAY. USE CONCRETE BLOCKS AT INTERSECTIONS OF #4 BARS TO KEEP BARS 1-1/2" CLEAR FROM TOP OF SLAB. SUBGRADE SHALL BE INSPECTED BY TESTING AGENCY AFTER COMPACTED FILL IS COMPLETE AND IMMEDIATELY PRIOR TO PLACEMENT OF DRAINAGE COURSE.

SLAB B = 6" THICK CONCRETE SLAB ON 15 MIL VAPOR RETARDER WITH TAPED JOINTS ON 4" GRAVEL ON COMPACTED FILL. REINFORCE WITH #5 BARS AT 12" O.C. EACH WAY. USE CONCRETE BLOCKS AT INTERSECTIONS OF #5 BARS TO KEEP BARS 1-1/2" CLEAR FROM TOP OF SLAB. SUBGRADE SHALL BE INSPECTED BY TESTING AGENCY AFTER COMPACTED FILL IS COMPLETE AND IMMEDIATELY PRIOR TO PLACEMENT OF DRAINAGE COURSE.

SLAB C = 8" THICK CONCRETE SLAB ON 15 MIL VAPOR RETARDER WITH TAPED JOINTS ON 4" GRAVEL ON COMPACTED FILL. REINFORCE WITH #4 BARS AT 12" O.C. EACH WAY AT TOP AND #5 BARS AT 12" O.C. EACH WAY AT BOTTOM. USE CONCRETE BLOCKS AT INTERSECTIONS OF #4 BARS TO KEEP TOP BARS 1-1/2" CLEAR FROM TOP OF SLAB AND BOTTOM BARS 1 1/2" FROM BOTTOM OF SLAB.. SUBGRADE SHALL BE INSPECTED BY TESTING AGENCY AFTER COMPACTED FILL IS COMPLETE AND IMMEDIATELY PRIOR TO PLACEMENT OF DRAINAGE COURSE.

CORNER BARS = PROVIDE (3)-#4 BARS 5'-0" LONG CENTERED IN SLAB AT ALL RE-ENTRANT (INSIDE) CORNERS OF SLAB.

SEE DETAIL 2/S5.2 FOR ADDITIONAL REINFORCEMENT AT SLAB OPENINGS.

SEE DETAIL 10/S5.1 FOR TYPICAL DETAIL AT SLAB RECESS.

SLAB BLOCKOUT MAY BE USED AT COLUMNS AT CONTRACTOR'S OPTION. EDGE/CORNER COLUMN BLOCKOUT SHAPE SHALL BE RECTANGULAR AND INTERIOR COLUMN BLOCKOUT SHAPE SHALL BE CIRCULAR. EXACT SIZE AND SHAPE SHALL BE APPROVED BY STRUCTURAL ENGINEER. PROVIDE A SUBMITTAL TO ENGINEER FOR REVIEW AND APPROVAL. ADDITIONAL #4 x 6'-0" LONG BARS SHALL BE PROVIDED ALONG ALL EDGES OF BLOCKOUT, UNLESS NOTED OTHERWISE. INCREASE SIZE OF BLOCKOUT AT DIAGONAL BRACE LOCATIONS TO ENSURE BRACE CAN BE ERECTED AND WELDS CAN BE MADE AT BRACE ATTACHMENT TO COLUMN WITHOUT REMOVAL OF SLAB. RE: 1/S5.2.

ALL CMU WALLS NOT RESTING ON GRADE BEAMS TO BEAR ON SLAB RIB PER DETAIL 8/S5.3.

BOTTOM OF ALL COLUMN BASE PLATES AT EL. -0'-6" ON 2" NON-SHRINK GROUT -U.N.O.

NOTE:
SEE DETAIL 3/S5.2 AND 4/S5.2 FOR SLAB CONSTRUCTION JOINT AND SAWED-CUT JOINT DETAILS. CONSULT WITH ARCHITECT AND PROVIDE A PLAN OF PROPOSED SLAB CONSTRUCTION JOINTS AND SAWED-CUT JOINTS FOR APPROVAL.

NOTE A: 8" CMU WALL. TOP OF WALL ELEVATION IS AT BOTTOM OF STOREFRONT WINDOW. RE: ARCH. FOR MORE INFORMATION. SEE 4/S5.3 FOR ATTACHMENT TO FOUNDATION.

FLOOR DRAIN = REF. ARCH./MEP FOR SLOPE REQ'D. AT SLAB FOR FLOOR DRAINS (NOT ALL SHOWN). RE: MECHANICAL/PLUMBING & ARCH. DRAWINGS FOR LOCATIONS OF FLOOR DRAINS. SEE GENERAL NOTES FOR MORE INFORMATION.

WALL LEGEND:

- = INSULATED CONCRETE TILT-UP WALL (SEE S1.3a-S1.3c).
- = TILT-UP CONCRETE WALL.
- = 8" CMU WALL.
- = 12" CMU WALL
- = NON-LOAD BEARING 8" CMU WALL

RE: ARCH. DRAWINGS FOR WALL TYPES AND DIMENSIONS.

CMU WALL SCHEDULE

NOMINAL THICKNESS	VERTICAL REINFORCEMENT
8"	#5 AT 16" O.C. (1)
12"	#6 AT 32" O.C. (1)

NOTES:

FILL ALL CELLS WITH CONCRETE GROUT AND CENTER VERTICAL REINFORCEMENT IN WALL.

LADDER HORIZONTAL REINFORCEMENT AT 16" O.C.

SEE SECTIONS AND DETAILS FOR LOCATIONS OF CONTINUOUS U-BLOCKS IN WALL.

SEE ARCH. DRAWINGS FOR LOCATION OF CONTROL JOINTS.

ALL CMU WALLS NOT SHOWN ON PLAN SHALL BE REINFORCED WITH #5 BARS AT 48" O.C. AND GROUTED SOLID (INCLUDING PARTITION WALLS). SEE ARCH. DRAWINGS. ALL WALLS TO EXTEND TO UNDERSIDE OF ROOF DECK TO GREATEST EXTENT POSSIBLE.

ALL WALLS NOT BEARING ON GRADE BEAMS TO HAVE THICKENED SLAB BELOW PER DETAIL 8/S5.3

DOWEL AND EPOXY GROUT VERTICAL BARS INTO SLAB/GRADE BEAM PER DETAILS ON SHEET S5.3.

(1) = #6 REQUIRED AT JAMBS PER CMU LINTEL SCHEDULE ON THIS SHEET AND WALL CORNERS PER DETAILS ON SHEET 8-S5.5. PROVIDE CONTINUOUS 8" DEEP U-BLOCK AT TOP OF WALL REINFORCED WITH (2)-#5 BOTTOM IN CONCRETE FILL - U.N.O.

SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

CMU LINTEL SCHEDULE

MARK	DESIGN
L1 0' TO 3'	8" DEEP U-BLOCK AT HEAD OF OPENING. REINFORCE WITH (2)-#5 CONTINUOUS IN BOTTOM OF CONCRETE FILL. BEAR ON ONE FILLED CELL WITH (1)-#6 AT FILLED AND REINFORCED JAMB.
L2 >3' TO 6'	16" DEEP U-BLOCK AT HEAD OF OPENING. REINFORCE WITH (2)-#6 CONTINUOUS IN TOP AND BOTTOM OF CONCRETE FILL. BEAR ON TWO FILLED CELLS WITH (1)-#6 EACH CELL AT FILLED AND REINFORCED JAMB.
L3 >6' TO 14'	DOUBLE 16" DEEP U-BLOCKS AT HEAD OF OPENING. REINFORCE WITH (2)-#7 CONTINUOUS TOP AND BOTTOM IN CONCRETE FILL IN EACH U-BLOCK. REINFORCE WITH #4 VERTICALS AT 16" O.C. TYING U-BLOCKS TOGETHER. BEAR ON TWO FILLED CELLS WITH (2)-#6 EACH CELL AT FILLED AND REINFORCED JAMB.

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FOX NESBIT

BATON ROUGE		NEW ORLEANS
RUSTON	LAFAYETTE	DESTIN
2026	23575	R-23 B360

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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO. 08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

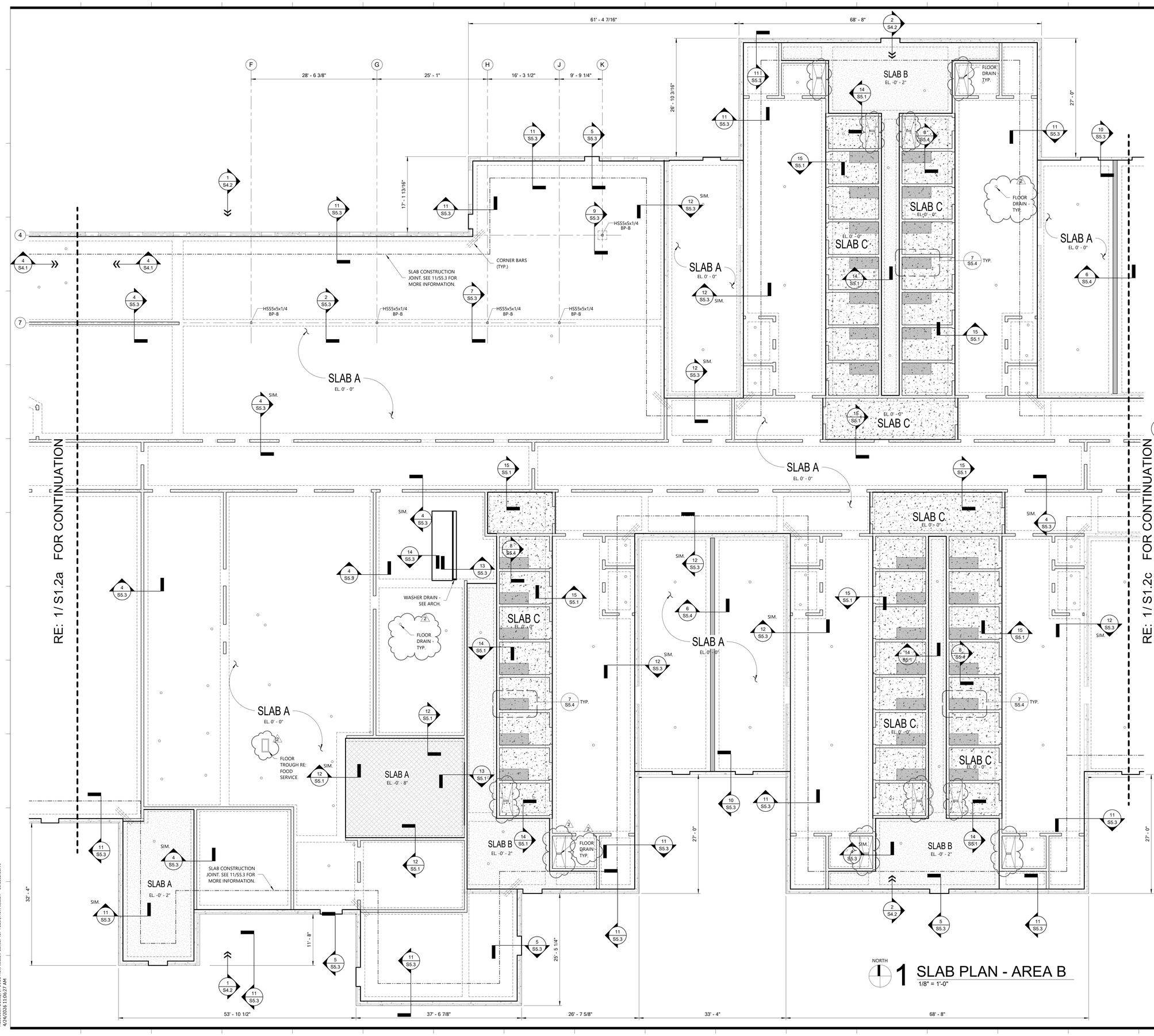
NO.	DESCRIPTION	DATE
2	Revision 2	4/27/26

DATE: 03-30-2026
PHASE: CONSTRUCTION DOCS
ISSUED FOR: REVIEW & PRICING
PROJECT NO: 571506

SLAB PLAN AREA A

SHEET NUMBER
S1.2a

Autodesk Docs://571506 New Jetson Center for Youth/New Jetson - Structural.rvt
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1 SLAB PLAN - AREA B

1/8" = 1'-0"

SLAB PLAN NOTES AND LEGEND:

SLAB A = 5" THICK CONCRETE SLAB ON 15 MIL VAPOR RETARDER WITH TAPED JOINTS ON 4" GRAVEL ON COMPACTED FILL. REINFORCE WITH #4 BARS AT 12" O.C. EACH WAY. USE CONCRETE BLOCKS AT INTERSECTIONS OF #4 BARS TO KEEP BARS 1-1/2" CLEAR FROM TOP OF SLAB. SUBGRADE SHALL BE INSPECTED BY TESTING AGENCY AFTER COMPACTED FILL IS COMPLETE AND IMMEDIATELY PRIOR TO PLACEMENT OF DRAINAGE COURSE.

SLAB B = 6" THICK CONCRETE SLAB ON 15 MIL VAPOR RETARDER WITH TAPED JOINTS ON 4" GRAVEL ON COMPACTED FILL. REINFORCE WITH #5 BARS AT 12" O.C. EACH WAY. USE CONCRETE BLOCKS AT INTERSECTIONS OF #5 BARS TO KEEP BARS 1-1/2" CLEAR FROM TOP OF SLAB. SUBGRADE SHALL BE INSPECTED BY TESTING AGENCY AFTER COMPACTED FILL IS COMPLETE AND IMMEDIATELY PRIOR TO PLACEMENT OF DRAINAGE COURSE.

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SEE DETAIL 2/S5.2 FOR ADDITIONAL REINFORCEMENT AT SLAB OPENINGS.

SEE DETAIL 10/S5.1 FOR TYPICAL DETAIL AT SLAB RECESS.

SLAB BLOCKOUT MAY BE USED AT COLUMNS AT CONTRACTOR'S OPTION. EDGE/CORNER COLUMN BLOCKOUT SHAPE SHALL BE RECTANGULAR AND INTERIOR COLUMN BLOCKOUT SHAPE SHALL BE CIRCULAR. EXACT SIZE AND SHAPE SHALL BE APPROVED BY STRUCTURAL ENGINEER. PROVIDE A SUBMITTAL TO ENGINEER FOR REVIEW AND APPROVAL. ADDITIONAL #4 x 6'-0" LONG BARS SHALL BE PROVIDED ALONG ALL EDGES OF BLOCKOUT, UNLESS NOTED OTHERWISE. INCREASE SIZE OF BLOCKOUT AT DIAGONAL BRACE LOCATIONS TO ENSURE BRACE CAN BE ERECTED AND WELDS CAN BE MADE AT BRACE ATTACHMENT TO COLUMN WITHOUT REMOVAL OF SLAB. RE: 1/S5.2.

ALL CMU WALLS NOT RESTING ON GRADE BEAMS TO BEAR ON SLAB RIB PER DETAIL 8/S5.3.

BOTTOM OF ALL COLUMN BASE PLATES AT EL. -0'-6" ON 2" NON-SHRINK GROUT -U.N.O.

NOTE:
SEE DETAIL 3/S5.2 AND 4/S5.2 FOR SLAB CONSTRUCTION JOINT AND SAWED-CUT JOINT DETAILS. CONSULT WITH ARCHITECT AND PROVIDE A PLAN OF PROPOSED SLAB CONSTRUCTION JOINTS AND SAWED-CUT JOINTS FOR APPROVAL.

NOTE A: 8" CMU WALL. TOP OF WALL ELEVATION IS AT BOTTOM OF STOREFRONT WINDOW. RE: ARCH. FOR MORE INFORMATION. SEE 4/S5.3 FOR ATTACHMENT TO FOUNDATION.

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- = TILT-UP CONCRETE WALL.
- = 8" CMU WALL.
- = 12" CMU WALL
- = NON-LOAD BEARING 8" CMU WALL

RE: ARCH. DRAWINGS FOR WALL TYPES AND DIMENSIONS.

CMU WALL SCHEDULE

NOMINAL THICKNESS	VERTICAL REINFORCEMENT
8"	#5 AT 16" O.C. (1)
12"	#6 AT 32" O.C. (1)

NOTES:

FILL ALL CELLS WITH CONCRETE GROUT AND CENTER VERTICAL REINFORCEMENT IN WALL.

LADDER HORIZONTAL REINFORCEMENT AT 16" O.C.

SEE SECTIONS AND DETAILS FOR LOCATIONS OF CONTINUOUS U-BLOCKS IN WALL.

SEE ARCH. DRAWINGS FOR LOCATION OF CONTROL JOINTS.

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DOWEL AND EPOXY GROUT VERTICAL BARS INTO SLAB/GRADE BEAM PER DETAILS ON SHEET S5.3.

(1) = #6 REQUIRED AT JAMBS PER CMU LINTEL SCHEDULE ON THIS SHEET AND WALL CORNERS PER DETAILS ON SHEET 8-S5.5. PROVIDE CONTINUOUS 8" DEEP U-BLOCK AT TOP OF WALL REINFORCED WITH (2)-#5 BOTTOM IN CONCRETE FILL - U.N.O.

SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

CMU LINTEL SCHEDULE

MARK	DESIGN
L1 0' TO 3'	8" DEEP U-BLOCK AT HEAD OF OPENING. REINFORCE WITH (2)-#5 CONTINUOUS IN BOTTOM OF CONCRETE FILL. BEAR ON ONE FILLED CELL WITH (1)-#6 AT FILLED AND REINFORCED JAMB.
L2 >3' TO 6'	16" DEEP U-BLOCK AT HEAD OF OPENING. REINFORCE WITH (2)-#6 CONTINUOUS IN TOP AND BOTTOM OF CONCRETE FILL. BEAR ON TWO FILLED CELLS WITH (1)-#6 EACH CELL AT FILLED AND REINFORCED JAMB.
L3 >6' TO 14'	DOUBLE 16" DEEP U-BLOCKS AT HEAD OF OPENING. REINFORCE WITH (2)-#7 CONTINUOUS TOP AND BOTTOM IN CONCRETE FILL IN EACH U-BLOCK. REINFORCE WITH #4 VERTICALS AT 16" O.C. TYING U-BLOCKS TOGETHER. BEAR ON TWO FILLED CELLS WITH (2)-#6 EACH CELL AT FILLED AND REINFORCED JAMB.

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JOHN GUIDRY LA#36314
FOX-NESBIT ENGINEERING, LLC.

FOX-NESBIT

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RUSTON	LAFAYETTE	DESTIN
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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO. 08-403-04-02, Part 09 (F.080000?8) &
08-403-24-01, F.080001?5
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

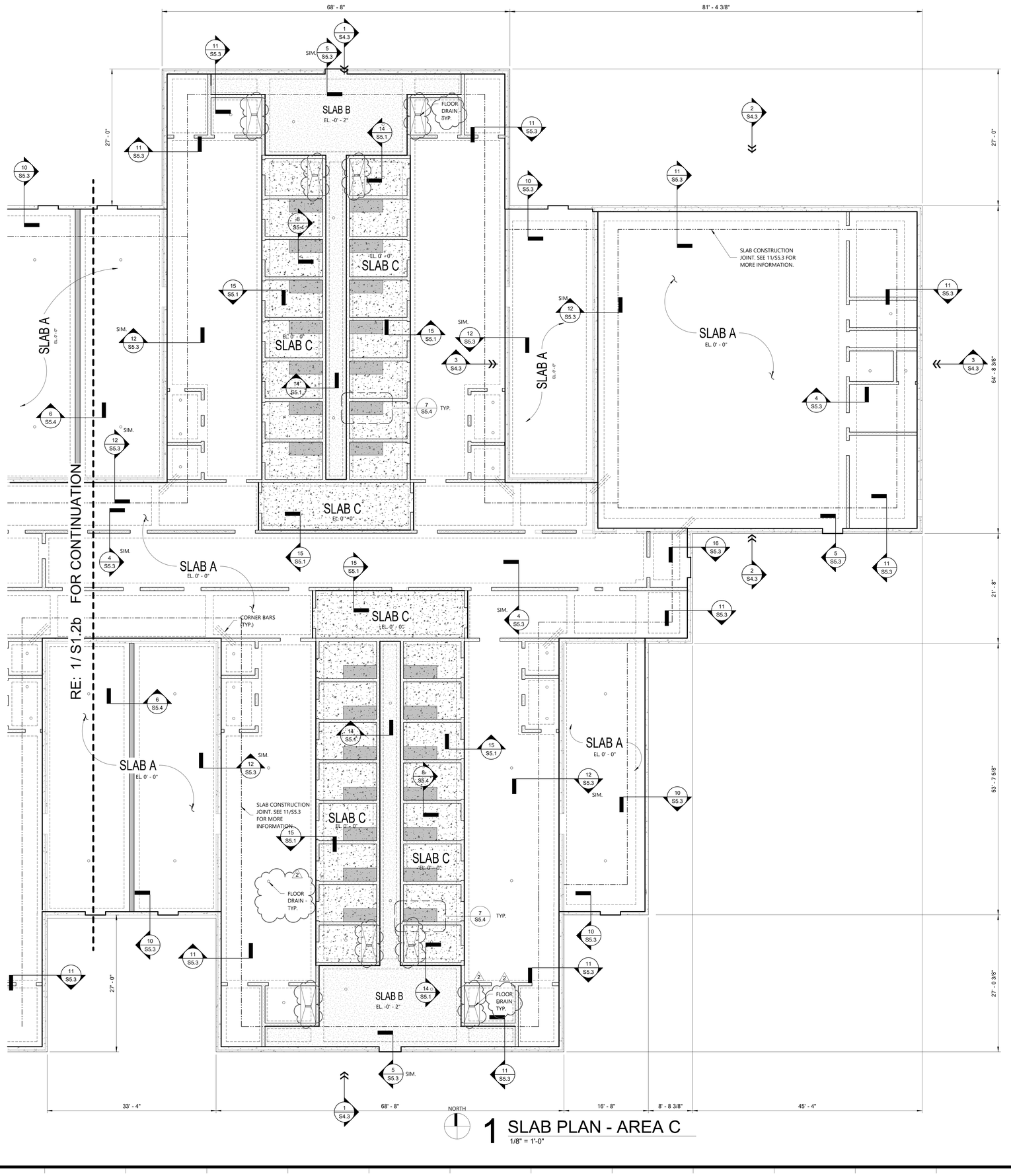
NO.	DESCRIPTION	DATE
2	Revision 2	4/27/26

DATE: 03-30-2026
PHASE: CONSTRUCTION DOCS
ISSUED FOR: REVIEW & PRICING
PROJECT NO: 571506

SLAB PLAN AREA B

SHEET NUMBER
S1.2b

Autodesk Docs://571506 New Jetson Center for Youth/New Jetson - Structural.rvt
4/24/2026 1:15:27 AM



1 SLAB PLAN - AREA C
1/8" = 1'-0"

SLAB PLAN NOTES AND LEGEND:

SLAB A = 5" THICK CONCRETE SLAB ON 15 MIL VAPOR RETARDER WITH TAPED JOINTS ON 4" GRAVEL ON COMPACTED FILL. REINFORCE WITH #4 BARS AT 12" O.C. EACH WAY. USE CONCRETE BLOCKS AT INTERSECTIONS OF #4 BARS TO KEEP BARS 1-1/2" CLEAR FROM TOP OF SLAB. SUBGRADE SHALL BE INSPECTED BY TESTING AGENCY AFTER COMPACTED FILL IS COMPLETE AND IMMEDIATELY PRIOR TO PLACEMENT OF DRAINAGE COURSE.

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SLAB C = 8" THICK CONCRETE SLAB ON 15 MIL VAPOR RETARDER WITH TAPED JOINTS ON 4" GRAVEL ON COMPACTED FILL. REINFORCE WITH #4 BARS AT 12" O.C. EACH WAY AT TOP AND #5 BARS AT 12" O.C. EACH WAY AT BOTTOM. USE CONCRETE BLOCKS AT INTERSECTIONS OF #4 BARS TO KEEP TOP BARS 1-1/2" CLEAR FROM TOP OF SLAB AND BOTTOM BARS 1 1/2" FROM BOTTOM OF SLAB.. SUBGRADE SHALL BE INSPECTED BY TESTING AGENCY AFTER COMPACTED FILL IS COMPLETE AND IMMEDIATELY PRIOR TO PLACEMENT OF DRAINAGE COURSE.

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BOTTOM OF ALL COLUMN BASE PLATES AT EL. -0'-6" ON 2" NON-SHRINK GROUT -U.N.O.

NOTE:
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= 8" CMU WALL.

= 12" CMU WALL

= NON-LOAD BEARING 8" CMU WALL

RE: ARCH. DRAWINGS FOR WALL TYPES AND DIMENSIONS.

CMU WALL SCHEDULE

NOMINAL THICKNESS	VERTICAL REINFORCEMENT
8"	#5 AT 16" O.C. (1)
12"	#6 AT 32" O.C. (1)

NOTES:

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LADDER HORIZONTAL REINFORCEMENT AT 16" O.C.

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SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

CMU LINTEL SCHEDULE

MARK	DESIGN
L1 0' TO 3'	8" DEEP U-BLOCK AT HEAD OF OPENING. REINFORCE WITH (2)-#5 CONTINUOUS IN BOTTOM OF CONCRETE FILL. BEAR ON ONE FILLED CELL WITH (1)-#6 AT FILLED AND REINFORCED JAMB.
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2026 23575 R-23 B360

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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO.:08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

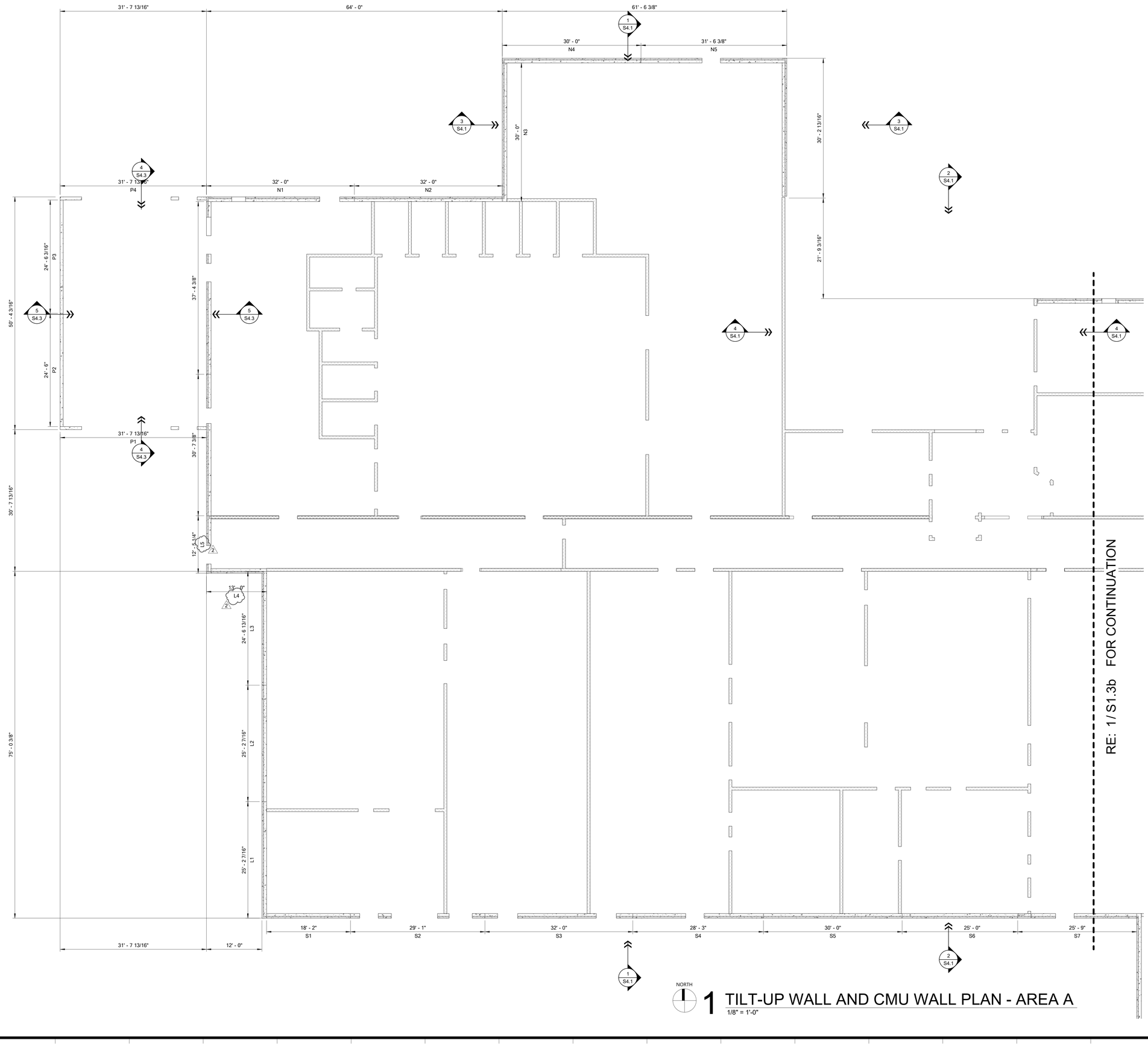
NO.	DESCRIPTION	DATE
2	Revision 2	4/27/26

DATE: 03-30-2026
PHASE: CONSTRUCTION DOCS
ISSUED FOR: REVIEW & PRICING
PROJECT NO: 571506

SLAB PLAN AREA C

SHEET NUMBER
S1.2c

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4/24/2026 11:06:09 AM



1 TILT-UP WALL AND CMU WALL PLAN - AREA A

1/8" = 1'-0"

TILT-UP WALL PLAN NOTES AND LEGEND:

SEE S6.4 THROUGH S6.8 FOR TILT-UP PANEL CONNECTION TYPES AND ADDITIONAL INFORMATION.

THE DIMENSIONS FOR PANEL ELEVATIONS SHALL BE COORDINATED WITH ARCH. DRAWINGS.

COORDINATE WALL OPENINGS WITH ARCH. DRAWINGS.

SEE TILT-UP CONCRETE SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS FOR TILT-UP CONCRETE WHICH INCLUDE DETAILED PANEL FABRICATION DRAWINGS AND EMBED/ANCHOR LAYOUTS PER THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.

P1 = TILT-UP WALL PANEL DESIGNATION. SEE S6.7 FOR MORE INFORMATION.

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BATON ROUGE NEW ORLEANS
RUSTON LAFAYETTE DESTIN
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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO.:08-403-04-02, Part 09 (F.080000078) &
08-403-24-01, F.080001165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

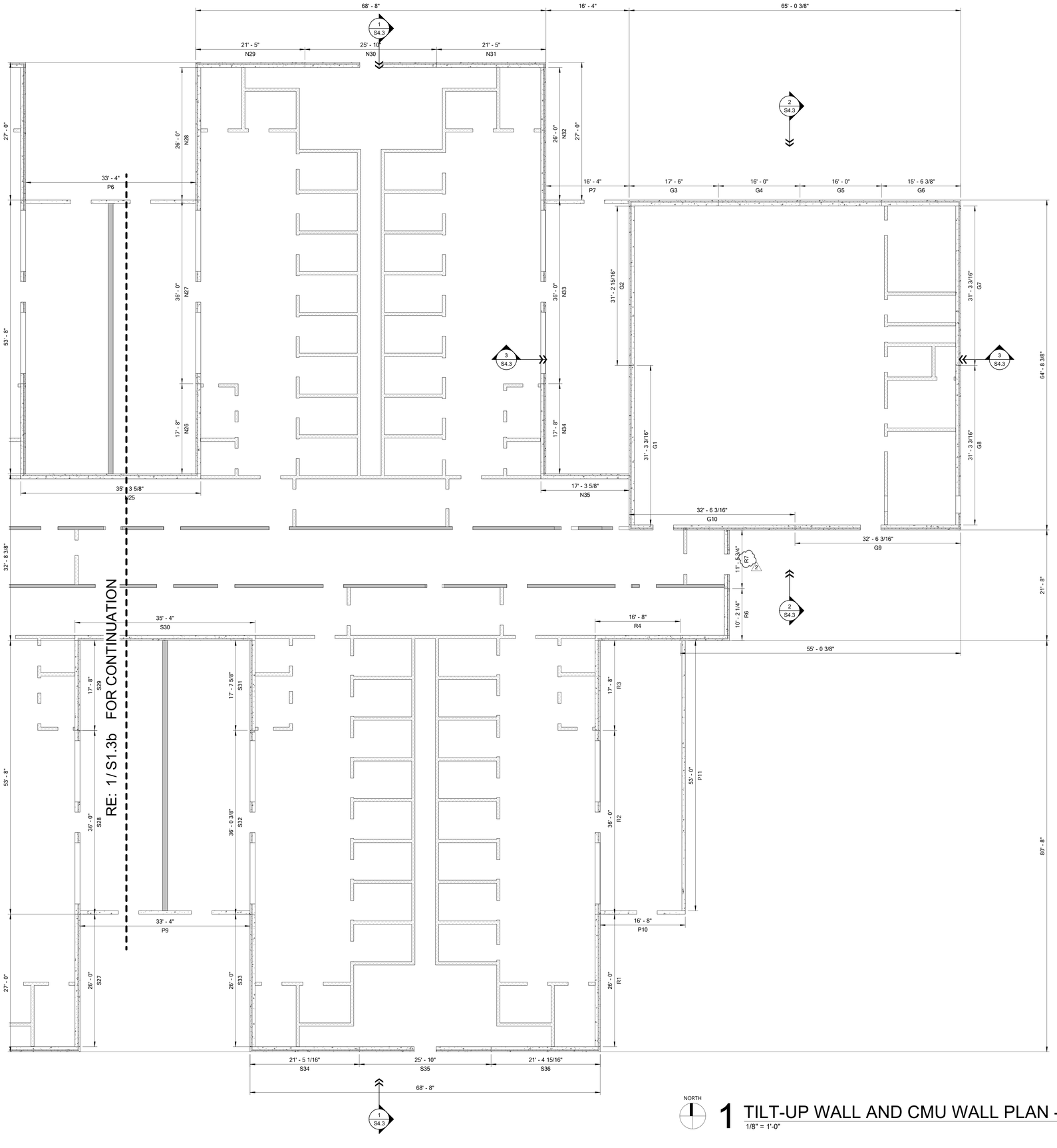
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2	Revision 2	4/27/26

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TILT-UP WALL PLAN - AREA A

SHEET NUMBER
S1.3a

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1 TILT-UP WALL AND CMU WALL PLAN - AREA C

1/8" = 1'-0"

TILT-UP WALL PLAN NOTES AND LEGEND:

SEE S6.4 THROUGH S6.8 FOR TILT-UP PANEL CONNECTION TYPES AND ADDITIONAL INFORMATION.

THE DIMENSIONS FOR PANEL ELEVATIONS SHALL BE COORDINATED WITH ARCH. DRAWINGS.

COORDINATE WALL OPENINGS WITH ARCH. DRAWINGS.

SEE TILT-UP CONCRETE SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS FOR TILT-UP CONCRETE WHICH INCLUDE DETAILED PANEL FABRICATION DRAWINGS AND EMBED/ANCHOR LAYOUTS PER THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.

P1 = TILT-UP WALL PANEL DESIGNATION. SEE S6.7 FOR MORE INFORMATION.

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820 GROOM ROAD, BAKER, LOUISIANA 70714

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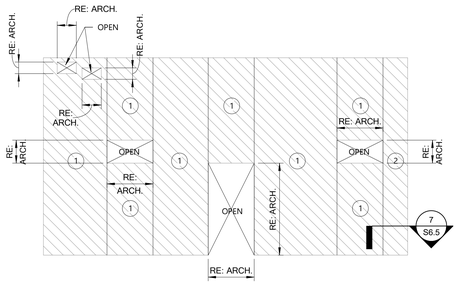
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TILT-UP WALL PLAN - AREA C

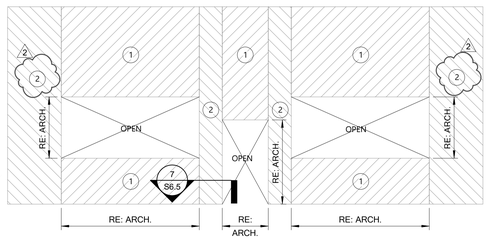
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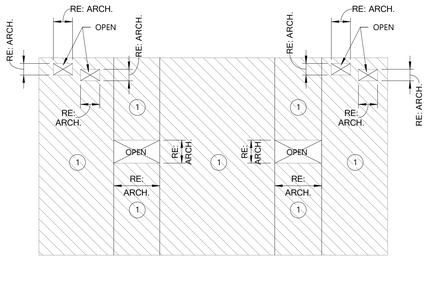
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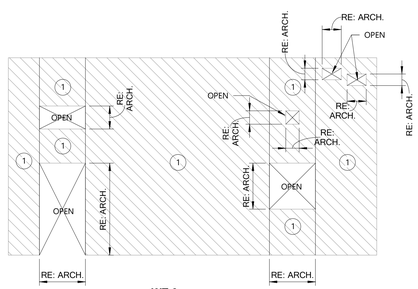
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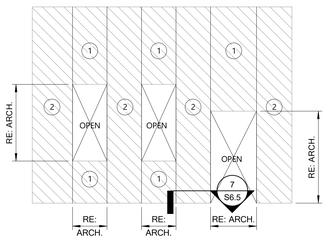
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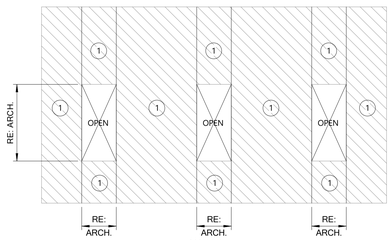
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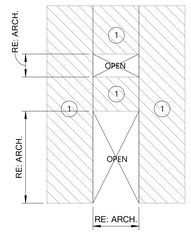
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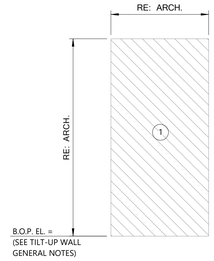
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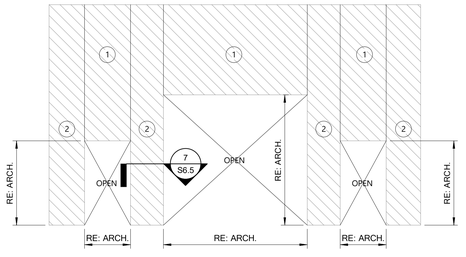
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WT-12



WT-13



WT-14

WT-15

WT-16

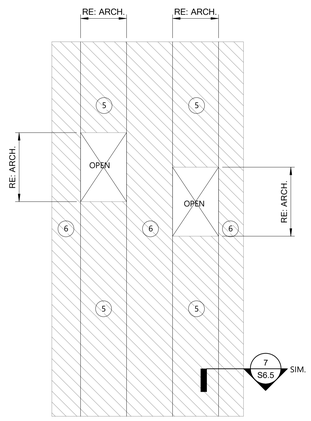
WT-17

WT-18

WT-19

WT-20

WT-21



WT-22

NOTES:

PANEL TYPES SHOW GENERAL GEOMETRY AND FEATURES. CONTRACTOR IS RESPONSIBLE FOR PANEL FITMENT AND LAYOUT ACCURACY

TILT-UP PANEL REINFORCEMENT

PANEL NUMBER	TYPE	REINFORCEMENT
N5, S4	WT-6	1 2
N17, N23, N27, N33, R2, S18, S22, S28, S32	WT-7	1 2
N2, N3, N4, N11, N19, N21, N29, N31, S5, S6, S8, S16, S24, S26, S34, S36	WT-8	1
N1	WT-9	1
N10, N12	WT-10	1 2
N7, N8, N9	WT-11	1
N20, N30, S15, S25, S35	WT-12	1
L1, L2, L3, L4, N6, N13, N14, N15, N16, N18, N22, N24, N25, N26, N28, N32, N34, N35, R1, R3, R4, R5, R6, S1, S10, S13, S17, S19, S20, S21, S23, S27, S29, S30, S31, S33	WT-13	1
L7, S2	WT-14	1 2
L5 (SIM),L6,R7 (SIM),S3, S7, S9, S11, S12, S14	WT-15	1
P5, P6, P7, P8, P9, P10	WT-16	3
P2, P3, P11	WT-17	3
P1, P4	WT-18	3 4
G1, G2, G7	WT-19	5
G8	WT-20	5 6
G9, G10	WT-21	5
G3, G4, G5, G6	WT-22	5 6

NOTES:

1. SEE S1.3a, S1.3b & S1.3c FOR PANEL LOCATIONS.

REINFORCEMENT SCHEDULE

ID	LAYERS	REINFORCEMENT	COMMENT
1	7" THICK CONCRETE 2" THICK INSULATION 3" THICK CONCRETE	(2) LAYERS #4 @ 12" O.C. EACH WAY. N/A WWR 4x4-W4xW4	TYPICAL INSULATED PANEL REINFORCEMENT
2	7" THICK CONCRETE 2" THICK INSULATION 3" THICK CONCRETE	SEE REINFORCEMENT SECTION VIEW 7/S6.5 N/A WWR 4x4-W4xW4	SPECIAL INSULATED PANEL REINFORCEMENT AT NARROW SECTION
3	8" THICK CONCRETE	(2) LAYERS #4 @ 12" O.C. EACH WAY.	TYPICAL NON-INSULATED PANEL REINFORCEMENT
4	8" THICK CONCRETE	SEE REINFORCEMENT SECTION VIEW 7/S6.5 (SIM.)	SPECIAL NON-INSULATED PANEL REINFORCEMENT AT NARROW SECTION
5	9" THICK CONCRETE 2" THICK INSULATION 3" THICK CONCRETE	(2) LAYERS #4 @ 12" O.C. EACH WAY. N/A WWR 4x4-W4xW4	TYPICAL INSULATED PANEL REINFORCEMENT
6	9" THICK CONCRETE 2" THICK INSULATION 3" THICK CONCRETE	SEE REINFORCEMENT SECTION VIEW 7/S6.5 N/A WWR 4x4-W4xW4	SPECIAL INSULATED PANEL REINFORCEMENT AT NARROW SECTION

TILT-UP WALL GENERAL NOTES:

ALL INSULATED CONCRETE TILT-UP WALL PANELS SHALL BE 12" THICK TOTAL PER 3/S6.4 AND REINFORCED AS INDICATED IN THE REINFORCEMENT SCHEDULE ON THIS DRAWING:

ALL INSULATED CONCRETE TILT-UP GYMNASIUM WALL PANELS SHALL BE 14" THICK TOTAL PER 3/S6.4 (SIM.) AND REINFORCED AS INDICATED IN THE REINFORCEMENT SCHEDULE ON THIS DRAWING:

ALL NON-INSULATED CONCRETE TILT-UP PANELS SHALL BE 8" THICK TOTAL PER 2/S6.5 AND REINFORCED AS INDIACTED INTHE REINFORCEMENT SCHEDULE ON THIS DRAWING.

THE GENERAL CONTRACTOR SHALL DESIGN AND PROVIDE ANY ADDITIONAL REINFORCEMENT AND EMBED PLATES REQUIRED FOR LIFTING AND ERECTION OF WALL PANELS.

THE LOCATION OF ALL MECHANICAL AND ELECTRICAL PENETRATIONS IN WALLS THAT ARE NOT SHOWN ON WALL ELEVATIONS IN THESE DRAWINGS SHALL BE INCLUDED IN TILT-UP CONCRETE WALL SUBMITTAL. GC IS RESPONSIBLE FOR COORDINATING ALL SMALL ELECTRICAL AND MECH. PENETRATIONS NOT SHOWN HEREIN THESE DRAWINGS WITH SUBCONTRACTORS AND SUPPLIERS.

ADDITIONAL PENETRATIONS THRU WALL LEGS LESS THAN 3'-0" IN WIDTH ARE NOT PERMITTED AND SHALL BE LOCATED ELSEWHERE.

PROVIDE 3/4" x 3/4" CHAMFER OF ALL EXPOSED TILT WALL CORNER EDGES.

AT LOCATIONS WHERE BEAM CONNECTS TO TILT-UP WALL AT A TILT-UP WALL JOINT, PROVIDE AN EMBED PLATE PER TYPICAL DETAILS TO EACH SIDE OF JOINT. WELD SHELF ANGLE FOR JOIST TO BOTH EMBEDS. FOR BEAM CONNECTION USE L4x3 1/2x5/16 TO EACH SIDE OF BEAM WEB IN PLATE OF WEB SHEAR PLATE.

B.O.P. EL. = SET THE BOTTOM OF ALL TILT-UP WALL PANELS TO BE SUPPORTED ON GRADE BEAMS AT EL. -0'-1"

REFERENCE ARCHITECTURAL TILTWALL PANEL ELEVATIONS FOR OPENING DIMENSIONS, ELEVATIONS, REVEAL LAYOUT, ETC.

3 Typical Panel Elevation Reinforcing Pattern

N.T.S.

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BATON ROUGE NEW ORLEANS
RUSTON LAFAYETTE DESTIN
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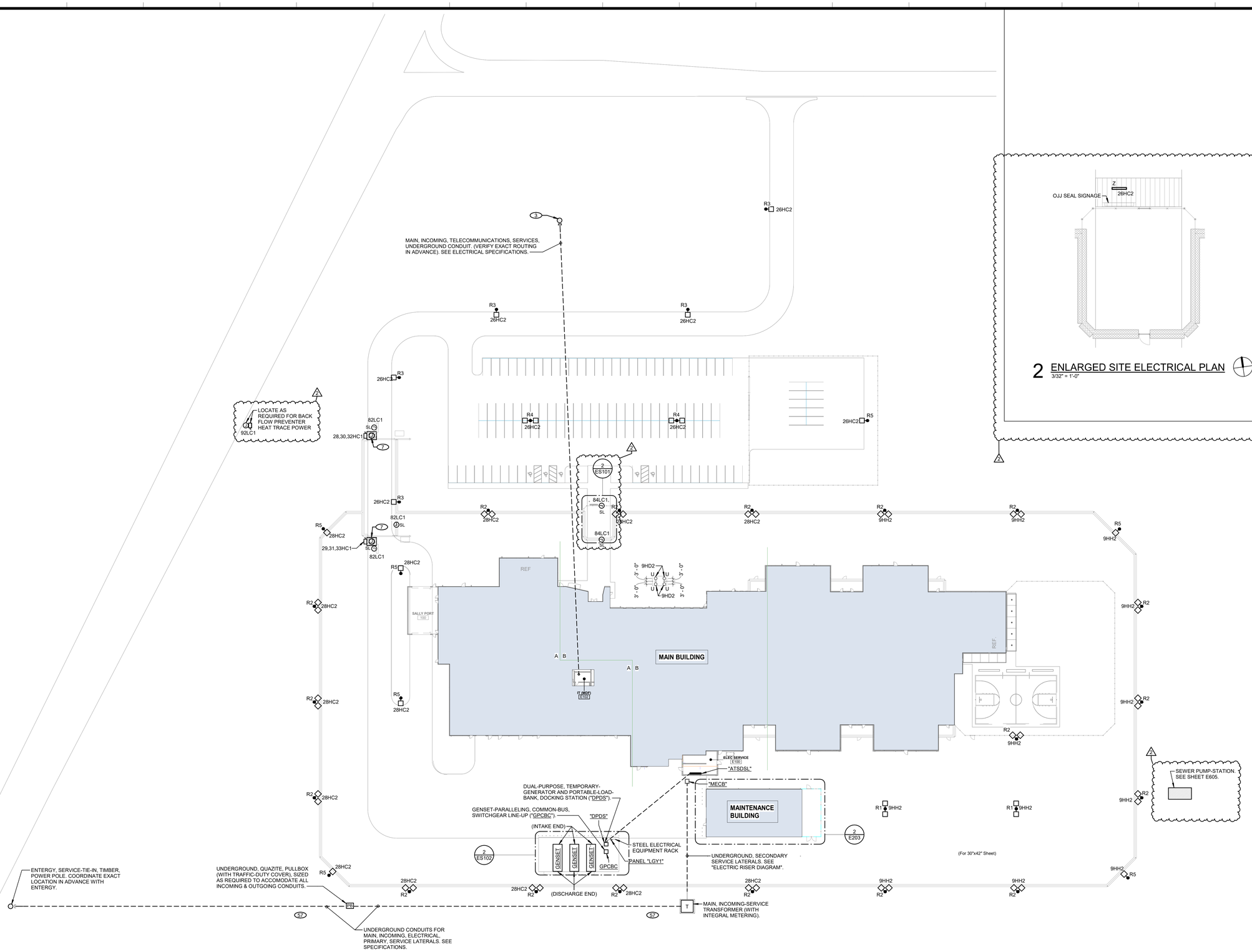
PROJECT NO.:08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

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TILT-UP WALL DETAILS

SHEET NUMBER
S6.7



1 SITE ELECTRICAL PLAN
1" = 40'-0" (For 30"x42" Sheet)

2 ENLARGED SITE ELECTRICAL PLAN
3/32" = 1'-0"

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STATE OF LOUISIANA
DANIEL RESBIT, JR
License No. 15212
PROFESSIONAL ENGINEER
IN
ELECTRICAL CONTROL SYSTEMS ENGINEERING
04/09/26

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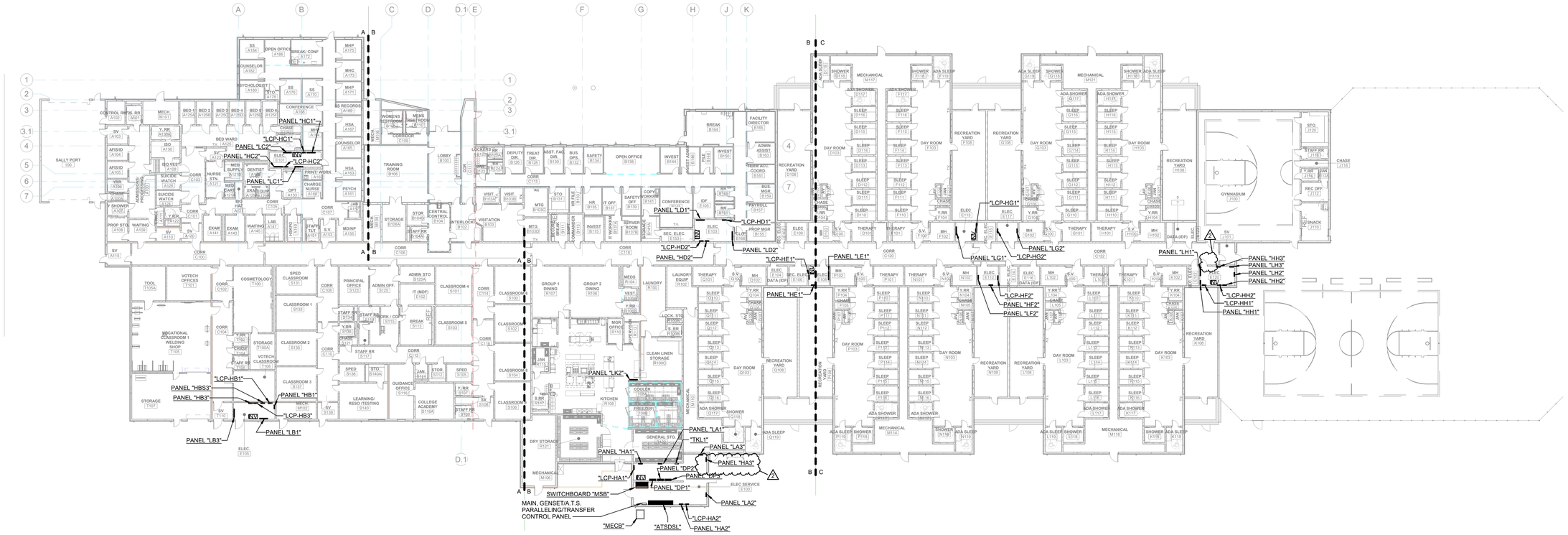
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SITE ELECTRICAL PLAN

SHEET NUMBER
ES101



1 ELECTRICAL FLOOR PLAN - OVERALL
3/64" = 1'-0" (For 30"x42" Sheet)

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STATE OF LOUISIANA
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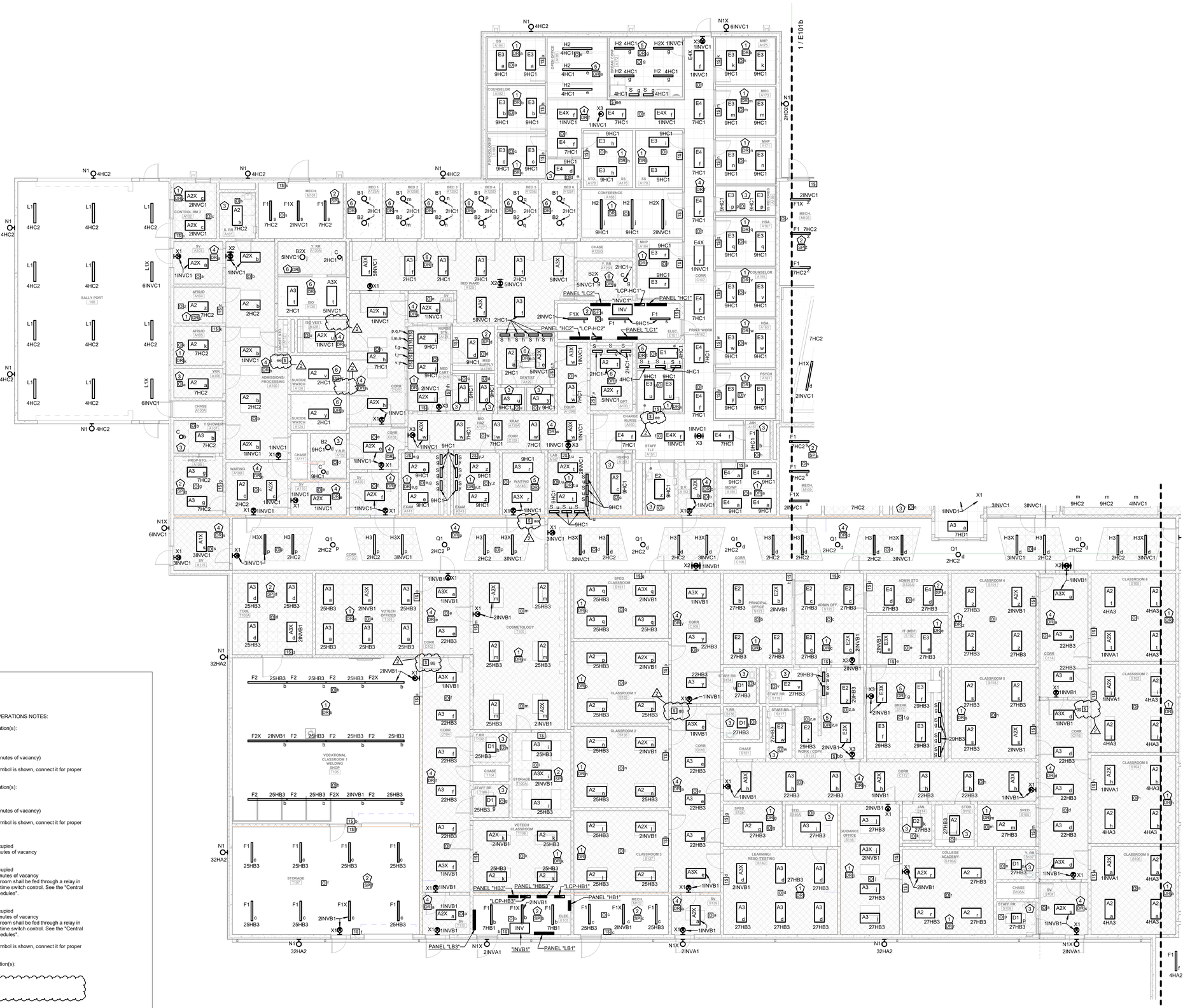
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ELECTRICAL FLOOR PLAN - OVERALL

SHEET NUMBER
E100



LIGHTING CONTROL SEQUENCE OF OPERATIONS NOTES:

1 a. 1-Zone and or Multi-Zone Switch Station(s):
   i. Manual ON/Manual OFF
   ii. 0-10V Dimming
   b. Occupancy Sensor(s):
   i. 100% ON (After manual ON only)
   ii. 100% Auto OFF (After up to 20 minutes of vacancy)
   c. Daylight Harvesting Sensor(s):
   i. If a Daylight Harvesting Sensor symbol is shown, connect it for proper Daylight Harvesting operation.

2 a. 1-Zone and or Multi-Zone Switch Station(s):
   i. Manual ON/Manual OFF
   b. Occupancy Sensor(s):
   i. 100% ON (After manual ON only)
   ii. 100% Auto OFF (After up to 20 minutes of vacancy)
   c. Daylight Harvesting Sensor(s):
   i. If a Daylight Harvesting Sensor symbol is shown, connect it for proper Daylight Harvesting operation.

3 a. Occupancy Sensor:
   i. 100% Auto ON when space is occupied
   ii. 100% Auto OFF after up to 20 minutes of vacancy

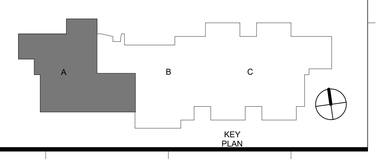
4 a. Occupancy Sensor(s):
   i. 100% Auto ON when space is occupied
   ii. Auto Dim to 50% after up to 20 minutes of vacancy
   b. Note: Lighting branch circuits in this room shall be fed through a relay in the Lighting Control Panel (LCP) for time switch control. See the "Central Lighting Control System Control Schedules".

5 a. Occupancy Sensor(s):
   i. 100% Auto ON when space is occupied
   ii. Auto Dim to 20% after up to 20 minutes of vacancy
   b. Note: Lighting branch circuits in this room shall be fed through a relay in the Lighting Control Panel (LCP) for time switch control. See the "Central Lighting Control System Control Schedules".
   c. Daylight Harvesting Sensor(s):
   i. If a Daylight Harvesting Sensor symbol is shown, connect it for proper Daylight Harvesting operation.

6 a. 1-Zone and or Multi-Zone Switch Station(s):
   i. Manual ON/Manual OFF
   b. Daylight Harvesting

2 LIGHTING CONTROL SEQUENCE OF OPERATIONS
No Scale

1 ELECTRICAL LIGHTING PLAN - SECTOR A
1/8" = 1'-0" (For 30"x42" Sheet)



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ELECTRICAL LIGHTING PLAN - SECTOR A & LIGHTING CONTROL SEQUENCE OF OPERATIONS

SHEET NUMBER
E101a

1 ELECTRICAL LIGHTING PLAN - SECTOR B
1/8" = 1'-0" (For 30"x42" Sheet)

Grace Design Studios

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04/09/26

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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO.:08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F. 08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

NO.	DESCRIPTION	DATE
1	Addendum No. 1	4/21/26
2	Addendum No. 2	4/27/26

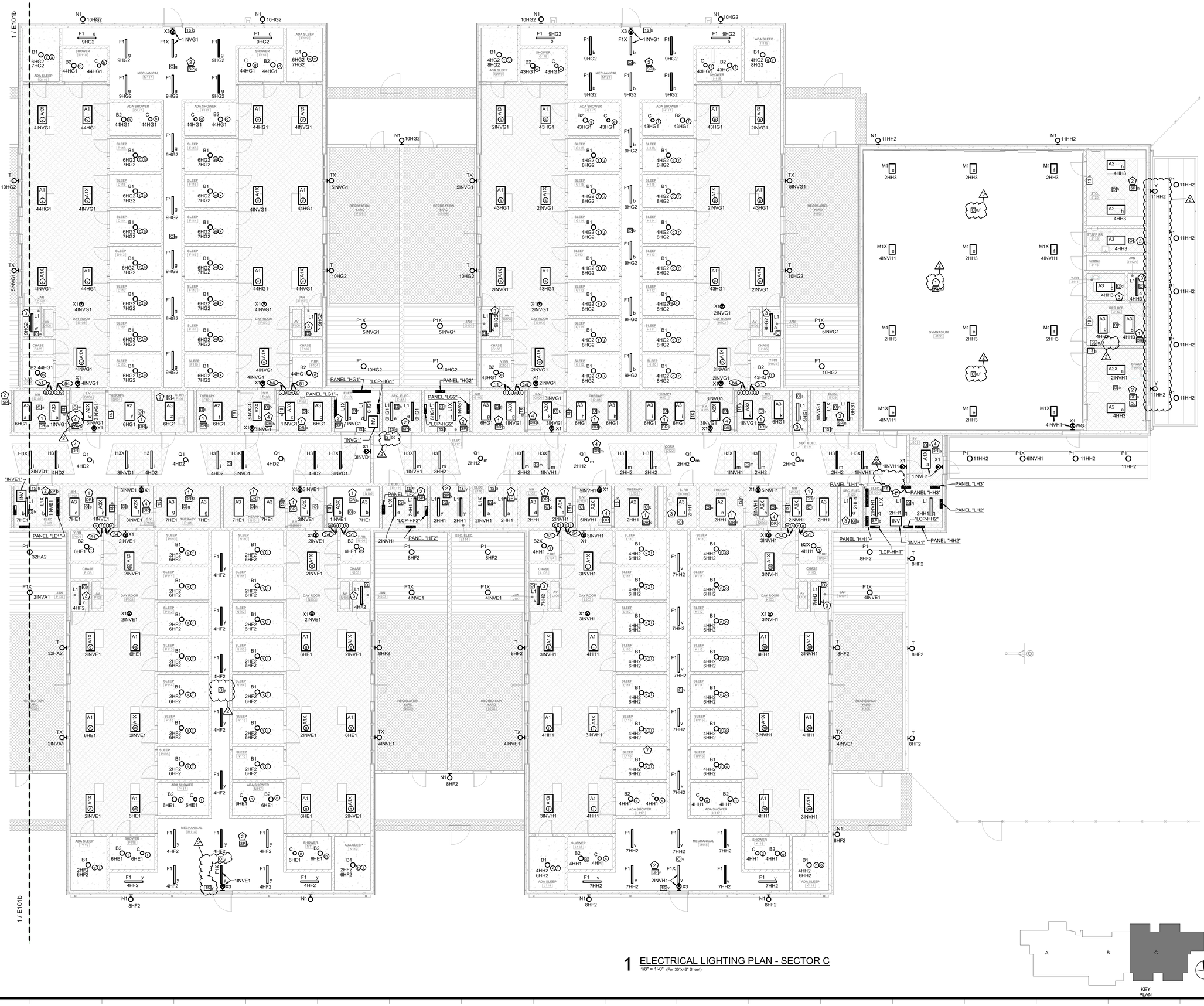
DATE: 03-30-2026
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PROJECT NO: 571506

ELECTRICAL LIGHTING PLAN - SECTOR B

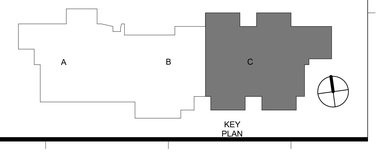
SHEET NUMBER
E101b

KEY PLAN

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1 ELECTRICAL LIGHTING PLAN - SECTOR C
1/8" = 1'-0" (For 30"x42" Sheet)



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Grace Design Studios

STATE OF LOUISIANA
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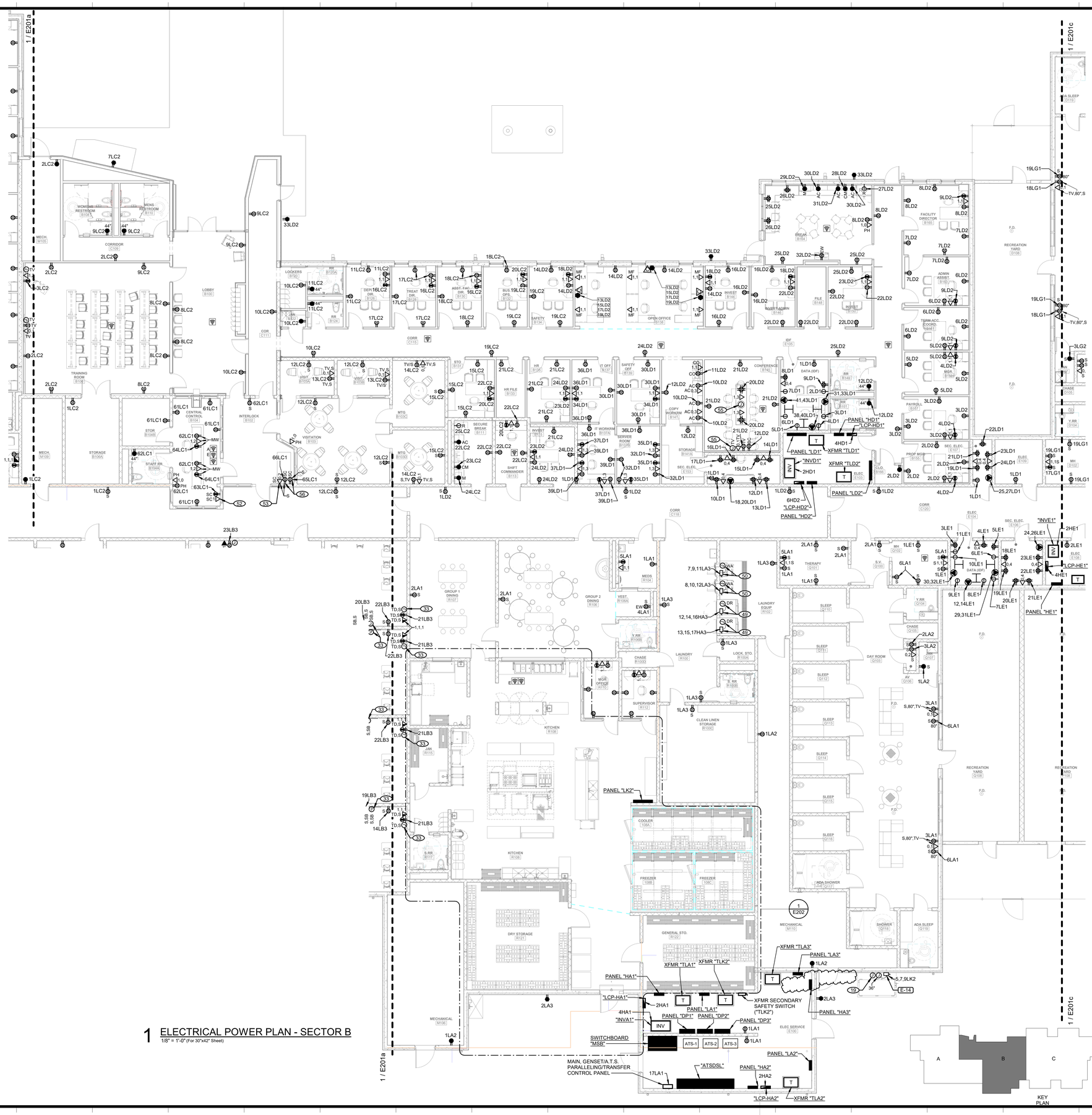
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ELECTRICAL LIGHTING PLAN - SECTOR C

SHEET NUMBER
E101c

1 ELECTRICAL POWER PLAN - SECTOR B

1/8" = 1'-0" (For 30"x42" Sheet)



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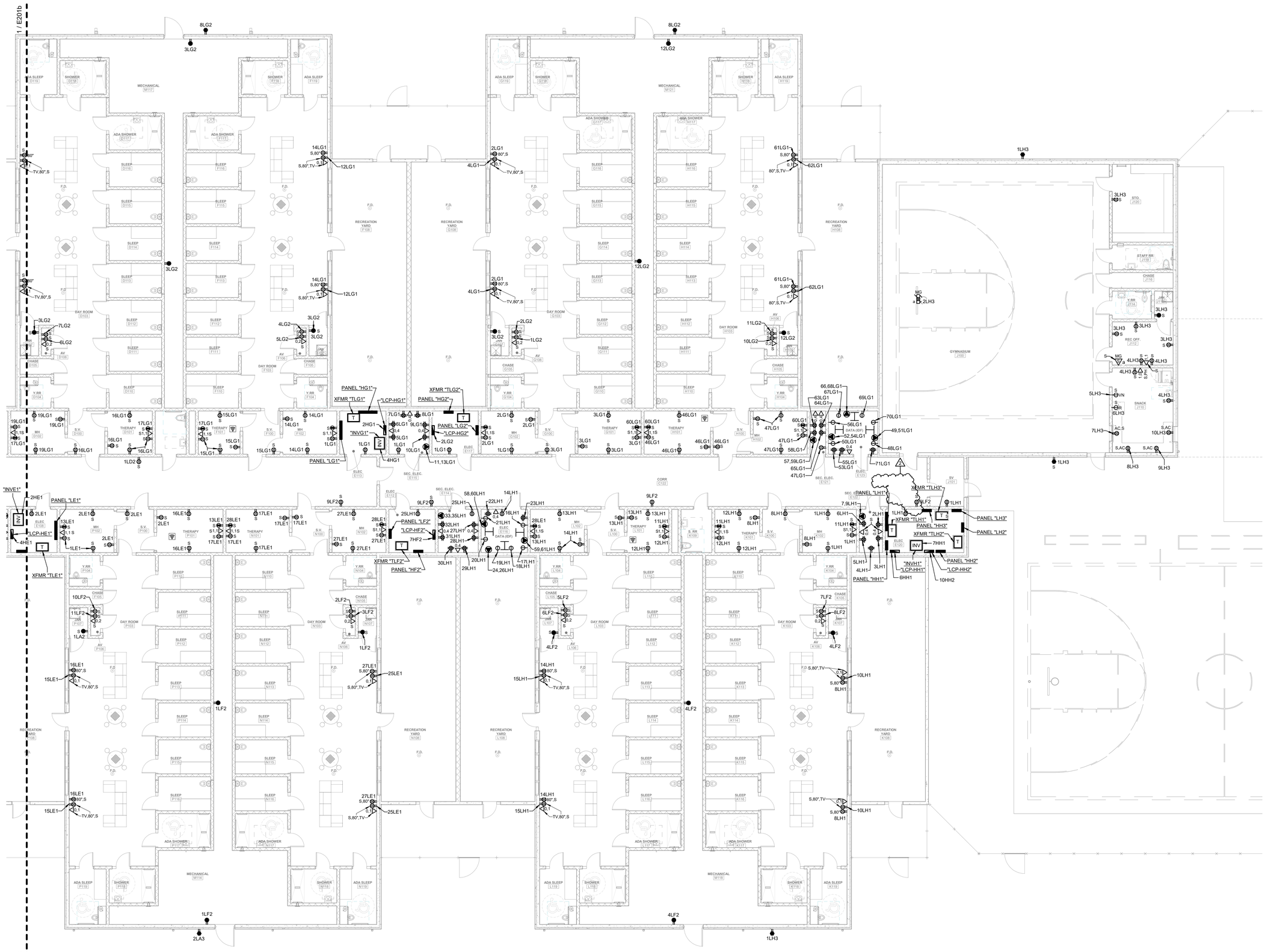
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ELECTRICAL POWER PLAN - SECTOR B

SHEET NUMBER

E201b

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1 ELECTRICAL POWER PLAN - SECTOR C
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ELECTRICAL POWER PLAN - SECTOR C

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E201c

NOTE: REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. VERIFY EXACT DESIRED LOCATIONS IN ADVANCE.

1 ELECTRICAL SPECIAL SYSTEMS & MECHANICAL ELECTRICAL CONNECTIONS PLAN - SECTOR B
1/8" = 1'-0" (For 30"x42" Sheet)

KEY PLAN

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ELECTRICAL SPECIAL SYSTEMS & MECHANICAL ELECTRICAL CONNECTIONS PLAN - SECTOR B

SHEET NUMBER
E301b

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NOTE: REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. VERIFY EXACT DESIRED LOCATIONS IN ADVANCE.

1 ELECTRICAL SPECIAL SYSTEMS & MECHANICAL ELECTRICAL CONNECTIONS PLAN - SECTOR C
1/8" = 1'-0" (For 30"x42" Sheet)

KEY PLAN

Grace Design Studios

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ELECTRICAL SPECIAL SYSTEMS & MECHANICAL ELECTRICAL CONNECTIONS PLAN - SECTOR C

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E301c

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ELECTRICAL SYMBOL AND ABBREVIATION SCHEDULE

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN HERE ARE NECESSARILY USED FOR THIS PROJECT.

B / B or B	LIGHTING FIXTURE. "B" DENOTES TYPE.
B	WALL-MOUNTED LIGHTING FIXTURE. "B" DENOTES TYPE.
B B	POLE-MOUNTED (ARM/BRACKET MOUNTING-TYPE) LIGHTING FIXTURE. "B" DENOTES TYPE.
	CEILING-MOUNTED EXIT LIGHTING FIXTURE WITH THE NUMBER OF FACES INDICATED BY THE "FILLED-IN" QUADRANTS OF THE SYMBOL; AND WITH DIRECTIONAL CHEVRONS AS INDICATED FOR EACH RESPECTIVE APPLICATION. SEE FIXTURE TYPE "X" IN THE LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
	WALL-MOUNTED (SIDE OR BACK AS REQUIRED FOR EACH RESPECTIVE APPLICATION) EXIT LIGHTING FIXTURE WITH THE NUMBER OF FACES INDICATED BY THE "FILLED-IN" QUADRANTS OF THE SYMBOL; AND WITH DIRECTIONAL CHEVRONS AS INDICATED FOR EACH RESPECTIVE APPLICATION. SEE FIXTURE TYPE "X" IN THE LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
B	CEILING FAN. "B" DENOTES TYPE. SEE LIGHTING FIXTURE SCHEDULE.
1LA	NEAR ANY ELECTRICAL LOAD INDICATES THE BRANCH-CIRCUIT-BREAKER POLE NUMBER AND THE PANELBOARD NAME FOR THE RESPECTIVE SINGLE-POLE BRANCH CIRCUIT; POLE NUMBER 1 IN PANEL "LA" IS SHOWN HERE.
3,5LA	NEAR ANY ELECTRICAL LOAD INDICATES THE BRANCH-CIRCUIT-BREAKER POLE NUMBERS AND THE PANELBOARD NAME FOR THE RESPECTIVE TWO-POLE BRANCH CIRCUIT; POLES NUMBERS 3 AND 5 IN PANEL "LA" ARE SHOWN HERE.
7,9,11LA	NEAR ANY ELECTRICAL LOAD INDICATES THE BRANCH-CIRCUIT-BREAKER POLE NUMBERS AND THE PANELBOARD NAME FOR THE RESPECTIVE THREE-POLE BRANCH CIRCUIT; POLES NUMBERS 7, 9, AND 11 IN PANEL "LA" ARE SHOWN HERE.
$a	SINGLE-POLE TOGGLE SWITCH. "a" DENOTES FIXTURES OR OUTLETS CONTROLLED. VERIFY EXACT LOCATION IN ADVANCE.
a	SPDT, MOMENTARY-CONTACT, TOGGLE SWITCH WITH CENTER "OFF" POSITION. "a" DENOTES ITEMS CONTROLLED. VERIFY CONTROLS IN ADVANCE.
Oa	CEILING-MOUNTED, OCCUPANCY-SENSING CONTROLLER. "a" DENOTES FIXTURES, LOADS, OR ZONES CONTROLLED. IF NO SWITCH DESIGNATION IS SHOWN AS BEING ASSOCIATED WITH THIS SYMBOL, CONNECT THIS CONTROLLER AS REQUIRED TO CONTROL ALL LIGHTING FIXTURES IN THE ROOM.
E	CENTRAL LIGHTING CONTROL SYSTEM LOW-VOLTAGE OVERRIDE SWITCH. VERIFY EXACT LOCATION IN ADVANCE.
1S a	LOW-VOLTAGE, DIGITAL, SWITCH STATION CONFIGURED TO CONTROL A SINGLE "ZONE" AS SHOWN ON THE DRAWINGS. ZONE "a" SHOWN CONTROLLED HERE. VERIFY EXACT LOCATION IN ADVANCE.
2S a,b	LOW-VOLTAGE, DIGITAL, SWITCH STATION CONFIGURED TO CONTROL TWO (2) "ZONES" AS SHOWN ON THE DRAWINGS. ZONES "a" AND "b" SHOWN CONTROLLED HERE. VERIFY EXACT LOCATION IN ADVANCE.
3S a,b,c	LOW-VOLTAGE, DIGITAL, SWITCH STATION CONFIGURED TO CONTROL THREE (3) "ZONES" AS SHOWN ON THE DRAWINGS. ZONES "a", "b" AND "c" SHOWN CONTROLLED HERE. VERIFY EXACT LOCATION IN ADVANCE.
Oa	LOW-VOLTAGE, CEILING-MOUNTED, OCCUPANCY-SENSING CONTROLLER. "a" DENOTES FIXTURES, ZONES, OR DEVICES CONTROLLED.
DR a	0-10V, DIMMING RELAY PACK. "a" DENOTES FIXTURES, ZONES, OR LOADS CONTROLLED.
SP a	ON/OFF CONTROL SWITCH PACK. "a" DENOTES FIXTURES, ZONES, OR DEVICES CONTROLLED.
1	REFERENCE TO "LIGHTING CONTROL SEQUENCE OF OPERATIONS" NOTE FOR THE ROOM/SPACE. NOTE NUMBER ONE SHOWN HERE.
DL	DAYLIGHT HARVESTING SENSOR. IF THIS SYMBOL IS SHOWN IN A ROOM, CONNECT THE DAY LGHT HARVESTING SENSOR FOR PROPER DAYLIGHT HARVESTING OPERATION. SEE SPECIFICATIONS.
f	SECURITY-CONTROLS-SYSTEM, LIGHTING, SWITCH-CONTROL-LEG DESIGNATION. NEAR ANY LIGHTING FIXTURE INDICATES CONTROL CIRCUIT/LEG FOR FIXTURES BEING CONTROLLED BY A "SECURITY CONTROLS SYSTEM TOUCH SCREEN CONTROL STATION". CONTROL CIRCUIT/LEG "f" SHOWN HERE. CONNECT ALL FIXTURES IDENTIFIED WITH THE SAME RESPECTIVE CONTROL CIRCUIT/LEG DESIGNATION TOGETHER TO A CONTROL RELAY IN THE SECURITY CONTROLS SYSTEM RELAY CABINET, AND AS REQUIRED TO BE CONTROLLED BY THE SYSTEM TOUCH SCREEN CONTROL STATION. COORDINATE ALL ASSOCIATED WORK/SCOPE IN ADVANCE WITH THE SECURITY CONTROLS SYSTEM SUBCONTRACTOR/SUPPLIER/INSTALLER AND PROVIDE ALL REQUIRED WORK ACCORDINGLY. IF TWO (2) SUCH SYMBOLS ARE SHOWN FOR A TYPE "AA1" LIGHTING FIXTURE, ONE (1) IS MEANT FOR THE "MAIN" LIGHT PORTION OF THE FIXTURE, AND THE OTHER IS MEANT FOR THE "COUNT LIGHT" (NIGHT LIGHT) PORTION OF THE FIXTURE.
	DUPLEX RECEPTACLE, 125V, 3W GROUNDING TYPE. AMPERE RATING AS REQ'D TO COORDINATE WITH RESPECTIVE CIRCUIT BREAKER RATING.
S	"SECURITY" TYPE", DUPLEX RECEPTACLE, 125V, 3W GROUNDING TYPE, AMPERE RATING AS REQUIRED TO COORDINATE WITH RESPECTIVE CIRCUIT BREAKER RATING WITH TAMPER-PROOF SCREWS. REFERENCE THE SPECIFICATIONS.
	DUPLEX RECEPTACLE, 125V, 3W GROUNDING TYPE, DEDICATED TO COMPUTER (DATA) EQUIPMENT. AMPERE RATING AS REQ'D TO COORDINATE WITH RESPECTIVE CIRCUIT BREAKER RATING.
	DUPLEX RECEPTACLE, 125V, 3W GROUNDING TYPE, WITH GROUND FAULT INTERRUPTER. AMPERE RATING AS REQ'D TO COORDINATE WITH RESPECTIVE CIRCUIT BREAKER RATING.
	SINGLE RECEPTACLE, 125V, 3W GROUNDING TYPE. AMPERE RATING AS REQ'D TO COORDINATE WITH RESPECTIVE CIRCUIT BREAKER RATING.
	SINGLE RECEPTACLE; TWIST LOCK TYPE; 250V, 1-PHASE, 3W OR 125/250V, 1-PHASE, 4W GROUNDING TYPE, AS REQ'D FOR EXACT APPLICATION. AMPERE RATING AS REQ'D TO COORDINATE WITH RESPECTIVE CIRCUIT BREAKER RATING.
	SINGLE RECEPTACLE; 250V, 3-PHASE, 4W OR 120/208V, 3-PHASE, 5W GROUNDING TYPE, AS REQ'D FOR EXACT APPLICATION. AMPERE RATING AS REQ'D TO COORDINATE WITH RESPECTIVE CIRCUIT BREAKER RATING.
	WEATHERPROOF DUPLEX RECEPTACLE, 125V, 3W GROUNDING TYPE, WITH (WHILE-IN-USE) WEATHERPROOF COVER. AMPERE RATING AS REQ'D TO COORDINATE WITH RESPECTIVE CIRCUIT BREAKER RATING.
	QUADRUPLEX OUTLET CONSISTING OF TWO (2) DUPLEX RECEPTACLES, 125V, 3W GROUNDING TYPE, IN COMMON 2-GANG OUTLET BOX. AMPERE RATING AS REQ'D TO COORDINATE WITH RESPECTIVE CIRCUIT BREAKER RATING.
	FLUSH-FLOOR QUADRUPLEX OUTLET CONSISTING OF TWO (2) DUPLEX RECEPTACLES, 125V, 3W GROUNDING TYPE, IN COMMON 2-GANG OUTLET BOX. AMPERE RATING AS REQ'D TO COORDINATE WITH RESPECTIVE CIRCUIT BREAKER RATING.
or etc.	FLUSH-FLOOR OUTLET (GROUP) BOX SIZED AS REQUIRED TO CONTAIN THE OUTLETS SHOWN WITHIN THE BOX/OUTLINE (VERIFY IN ADVANCE). REFERENCE THE ARCHITECTURAL DRAWINGS FOR EXACT INSTALLATION LOCATION. VERIFY EXACT ROUTING OF ALL ASSOCIATED CONDUITS IN ADVANCE WITH ARCHITECT. SEE SPECIFICATIONS.
	WALL-MOUNTED, RECESSED, OUTLET BOX AND CONNECTION POINT FOR 4-CIRCUIT, 8-WIRE (4 PHASE CONDUCTORS, 2 NEUTRAL CONDUCTORS, 1 EQUIPMENT GROUNDING CONDUCTOR, AND 1 ISOLATED EQUIPMENT GROUNDING CONDUCTOR), "MODULAR FURNITURE", POWER PIGTAIL. VERIFY EXACT REQ'D LOCATION WITH "MODULAR FURNITURE" SUPPLIER IN ADVANCE. SEE SPECIFICATIONS.
	WALL-MOUNTED, RECESSED, COMMUNICATIONS OUTLET BOX, WITH 1-1/2" CONCEALED RACEWAY (WITH PULL WIRE) TO ACCESSIBLE LOCATION ABOVE CEILING, FOR COMMUNICATIONS (VOICE AND DATA) CABLES TO RESPECTIVE VOICE, DATA, AND/OR ALL-COMMUNICATIONS OUTLETS AT "MODULAR FURNITURE" WORK STATIONS. VERIFY EXACT DESIRED LOCATION IN ADVANCE. SEE SPECIFICATIONS.
J	JUNCTION/OUTLET BOX.
	FLUSH-FLOOR JUNCTION/OUTLET BOX, VERIFY EXACT DESIRED LOCATION IN ADVANCE WITH ARCHITECT.

1,2	WALL-MOUNTED, (UNLESS SYMBOL IS IN A FLUSH-FLOOR MOUNTED OUTLET GROUP BOX), ALL-COMMUNICATION OUTLET (ACO) LOCATED IN GENERAL/ADMINISTRATIVE-TYPE AREAS HAVING THE NUMBER OF DATA JACKS INDICATED FOR WHICH THEIR DATA CABLES SHALL BE RUN TO THE RESPECTIVE DATA-PATCH-PANEL DESIGNATED FOR EITHER VOICE (VOIP) JACK OR "STANDARD" DATA JACK SIGNAL DISTRIBUTION. SHOWN HERE (FOR EXAMPLE) IS ONE (1) VOICE (VOIP) JACK AND TWO (2) "STANDARD" DATA JACKS. SEE THE TELECOMMUNICATIONS DIVISION OF THE PROJECT ELECTRICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION AND PROVIDE ACCORDINGLY.
1,1	WALL-MOUNTED, (UNLESS SYMBOL IS IN A FLUSH-FLOOR MOUNTED OUTLET GROUP BOX), ALL-COMMUNICATION OUTLET (ACO) LOCATED IN EDUCATION-TYPE AREAS, AND/OR OTHER YOUTH AREAS, HAVING THE NUMBER OF DATA JACKS INDICATED FOR WHICH THEIR DATA CABLES SHALL BE RUN TO THE RESPECTIVE DATA-PATCH-PANEL DESIGNATED FOR EITHER, "STANDARD" DATA JACK, OR EDUCATION ("ALTO"/"EDU") DATA JACK SIGNAL DISTRIBUTION. SHOWN HERE (FOR EXAMPLE) IS ONE (1) "STANDARD" DATA JACK, AND ONE (1) "EDU" ("ALTO") JACK. SEE THE TELECOMMUNICATIONS DIVISION OF THE PROJECT ELECTRICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION AND PROVIDE ACCORDINGLY.
1,1,1	WALL-MOUNTED, (UNLESS SYMBOL IS IN A FLUSH-FLOOR MOUNTED OUTLET GROUP BOX), ALL-COMMUNICATION OUTLET (ACO) LOCATED IN EDUCATION-TYPE AREAS, AND/OR OTHER YOUTH AREAS, HAVING THE NUMBER OF DATA JACKS INDICATED FOR WHICH THEIR DATA CABLES SHALL BE RUN TO THE RESPECTIVE DATA-PATCH-PANEL DESIGNATED FOR EITHER, "STANDARD" DATA JACK, OR EDUCATION ("ALTO"/"EDU") DATA JACK SIGNAL DISTRIBUTION. SHOWN HERE (FOR EXAMPLE) IS ONE (1) VOICE (VOIP) JACK, ONE (1) "STANDARD" DATA JACK, ONE (1) "EDU" ("ALTO") JACK. SEE THE TELECOMMUNICATIONS DIVISION OF THE PROJECT ELECTRICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION AND PROVIDE ACCORDINGLY.
1,2,1	WALL-MOUNTED, (UNLESS SYMBOL IS IN A FLUSH-FLOOR MOUNTED OUTLET GROUP BOX), ALL-COMMUNICATION OUTLET (ACO) LOCATED IN MEDICAL-TYPE AREAS HAVING THE NUMBER OF DATA JACKS INDICATED FOR WHICH THEIR DATA CABLES SHALL BE RUN TO THE RESPECTIVE DATA-PATCH-PANEL DESIGNATED FOR EITHER VOICE (VOIP) JACK, "STANDARD" DATA JACK, OR MEDICAL ("AFIS") DATA JACK SIGNAL DISTRIBUTION. SHOWN HERE (FOR EXAMPLE) IS ONE (1) VOICE (VOIP) JACK, TWO (2) DATA JACKS, AND ONE (1) "AFIS" (MEDICAL) DATA JACK. SEE THE TELECOMMUNICATIONS DIVISION OF THE PROJECT ELECTRICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION AND PROVIDE ACCORDINGLY.
	APPROXIMATE LOCATION OF A WIRELESS DATA NETWORK ACCESS TERMINAL ("WI-FI" CONNECTION POINT) BEING DESIGNATED FOR "STANDARD" USE. PROVIDE A DATA OUTLET WITH ONE (1) DATA JACK FOR EACH LOCATION. VERIFY EXACT DESIRED LOCATION IN ADVANCE, AND PROVIDE WALL-MOUNTED OR CEILING-MOUNTED OUTLET BOXES AS REQUIRED FOR EACH RESPECTIVE LOCATION (VERIFY IN ADVANCE). SEE THE TELECOMMUNICATIONS DIVISION OF THE PROJECT ELECTRICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION AND PROVIDE ACCORDINGLY.
E	APPROXIMATE LOCATION OF A WIRELESS DATA NETWORK ACCESS TERMINAL ("WI-FI" CONNECTION POINT) IN EDUCATION-TYPE AREAS FOR WHICH THE DATA CABLE SHALL BE RUN TO THE APPROPRIATE DATA-PATCH-PANEL FOR EDUCATION ("ALTO"/"EDU") DATA SIGNAL DISTRIBUTION. PROVIDE A DATA OUTLET WITH ONE (1) DATA JACK FOR EACH LOCATION. VERIFY EXACT DESIRED LOCATION IN ADVANCE, AND PROVIDE WALL-MOUNTED OR CEILING-MOUNTED OUTLET BOXES AS REQUIRED FOR EACH RESPECTIVE LOCATION (VERIFY IN ADVANCE). SEE THE TELECOMMUNICATIONS DIVISION OF THE PROJECT ELECTRICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION AND PROVIDE ACCORDINGLY.
A	APPROXIMATE LOCATION OF A WIRELESS DATA NETWORK ACCESS TERMINAL ("WI-FI" CONNECTION POINT) IN MEDICAL-TYPE AREAS FOR WHICH THE DATA CABLE SHALL BE RUN TO THE APPROPRIATE DATA-PATCH-PANEL FOR MEDICAL ("AFIS") DATA SIGNAL DISTRIBUTION. PROVIDE A DATA OUTLET WITH ONE (1) DATA JACK FOR EACH LOCATION. VERIFY EXACT DESIRED LOCATION IN ADVANCE, AND PROVIDE WALL-MOUNTED OR CEILING-MOUNTED OUTLET BOXES AS REQUIRED FOR EACH RESPECTIVE LOCATION (VERIFY IN ADVANCE). SEE THE TELECOMMUNICATIONS DIVISION OF THE PROJECT ELECTRICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION AND PROVIDE ACCORDINGLY.
	SURFACE-MOUNTED PANELBOARD OR FREE-STANDING SWITCHBOARD.
	LIGHTING CONTROL PANEL. SEE SPECIFICATIONS.
	TELECOMMUNICATIONS BACKBOARD.
TCB	TELECOMMUNICATION BACKBOARD.
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR.
PP	DATA-PATCH-PANEL EQUIPMENT RACK.
INV	EMERGENCY-POWER INVERTER SYSTEM. SEE SPECIFICATIONS.
T	TRANSFORMER.
	FLOOR-MOUNTED, DATA-PATCH-PANEL, RELAY RACK.
	WALL-MOUNTED, ENCLOSED, LOCKABLE, SWING-OUT TYPE DATA RACK.
PP	FLOOR-MOUNTED AND OR WALL-MOUNTED DATA-PATCH-PANEL, RELAY RACK.
M	UTILITY POWER-METERING EQUIPMENT.
	WIRING ABOVE GRADE OR FLOOR LEVEL.
	WIRING BELOW GRADE OR FINISHED FLOOR.
PB	UNDERGROUND PULL BOX. VERIFY EXACT DESIRED LOCATION OF THIS PULL BOX AND THE EXACT DESIRED ROUTING OF THE CONDUIT IN ADVANCE WITH THE ARCHITECT.
ATS	AUTOMATIC TRANSFER SWITCH.SEE SPECIFICATIONS.
GEN	EMERGENCY ENGINE-GENERATOR SET REMOTE ANNUNCIATION PANEL.
GENSET	EMERGENCY ENGINE-GENERATOR SET.SEE SPECIFICATIONS.
DPDS	DUAL-PURPOSE, TEMPORARY-GENERATOR AND PORTABLE LOAD-BANK, DOCKING STATION. SEE SPECIFICATIONS.
GPCBC	GENSET-PARALLELING, COMMON-BUS, SWITCHGEAR LINE-UP ("GPCBC").
ATSDSL	ATS-DISTRIBUTION SWITCHGEAR LINE-UP. SEE SPECIFICATIONS.
MECB	MAIN (NORMAL-POWER), ENCLOSED, CIRCUIT BREAKER. SEE SPECIFICATIONS.
ATSDSL	ATS-DISTRIBUTION SWITCHGEAR LINE-UP. SEE SPECIFICATIONS.
MSB	MAIN (NORMAL-POWER), ENCLOSED, CIRCUIT BREAKER. SEE SPECIFICATIONS.
DP	DISTRIBUTION PANELBOARD. SEE SPECIFICATIONS.
EMDCC	ENERGY-METER-DATA COLLECTION CABINET. SEE SPECIFICATIONS.
AV	CEILING-MOUNTED AUDIO/VISUAL FIRE ALARM SYSTEM NOTIFICATION DEVICE.
AV	WALL-MOUNTED AUDIO/VISUAL FIRE ALARM SYSTEM NOTIFICATION DEVICE.
V	CEILING-MOUNTED VISUAL-ONLY FIRE ALARM SYSTEM NOTIFICATION DEVICE.
V	WALL-MOUNTED VISUAL-ONLY FIRE ALARM SYSTEM NOTIFICATION DEVICE.
	FIRE ALARM SYSTEM SMOKE DETECTOR.
D	FIRE ALARM SYSTEM DUCT-TYPE SMOKE DETECTORS. UNLESS INDICATED OTHERWISE, LOCATE IN BOTH SUPPLY AND RETURN DUCTS.
H	FIRE ALARM SYSTEM HEAT DETECTOR.
FCC	FIRE ALARM SYSTEM FIREMAN CONTROL CENTER. SEE SPECIFICATIONS.
FAP	FIRE ALARM SYSTEM MAIN CONTROL PANEL.
FAS	FIRE ALARM SYSTEM SATELLITE CONTROL PANEL.
P	FIRE ALARM SYSTEM MANUAL PULL STATION.
CR	FIRE ALARM SYSTEM CONTROL RELAY/ MODULE.
	EXTERIOR, WEATHERPROOF, FIRE ALARM SYSTEM AUDIO NOTIFICATION DEVICE. SEE SPECIFICATIONS.
	DRY-LOCATION FIRE ALARM SYSTEM AUDIO NOTIFICATION DEVICE. SEE SPECIFICATIONS.
A	FIRE ALARM AUDIBLE-ONLY, LOW FREQUENCY, SOUNDER, ALARM. SEE SPECIFICATIONS.
KE	KITCHEN HOOD FIRE EXTINGUISHING SYSTEM.
TS	SPRINKLER-SYSTEM TAMPER SWITCH.
FS	SPRINKLER-SYSTEM FLOW SWITCH.

VFD	VARIABLE FREQUENCY DRIVE (MOTOR STARTER).
CP	CONTROL PANEL.
CP	CONTROL PANEL WITH MEANS OF DISCONNECT.
CV	SEWER, PUMP-STATION, CHECK-VALVE LIMIT SWITCH.
J	SEWER, PUMP-STATION, MOTOR-TERMINAL BOX.
FT	SEWER, PUMP-STATION, FLOAT-SWITCH.
RA	SEWER, PUMP-STATION, REMOTE-SIGNAL, ALARM DEVICE.
	PUSHBUTTON. DOTS DENOTE NUMBER OF BUTTONS.
	PHOTOCELL. MOUNT AS HIGH AS PRACTICABLE IN LOCATION STIPULATED BY THE ARCHITECT.
	UNDERGROUND GROUND-RING GROUNDWELL. REFERENCE THE "TYPICAL GROUNDWELL DETAIL" AND THE SPECIFICATIONS.
—G—G—	UNDERGROUND GROUND RING. REFERENCE THE "ELECTRICAL POWER RISER DETAIL" AND THE SPRCIFICATIONS.
	4" SQUARE STEEL TELE-POWER POLE.
	SAFETY SWITCH.
	MOTOR.
	MOTOR STARTER.
3	REFERENCE TO REFERENCED ELECTRICAL NOTE. NOTE NUMBER THREE SHOWN.
E-7	KITCHEN EQUIPMENT ELECTRICAL ROUGH-IN/CONNECTION DESIGNATION CORRESPONDING WITH THE RESPECTIVE CONNECTION INDICATED IN THE "ELECTRICAL ROUGH-IN DATA SCHEDULE" LOCATED ON THE PROJECT FOOD SERVICE DRAWINGS. CONNECTION NUMBER "E-7" SHOWN HERE. REFERENCE THE SHEDULE ON FOOD SERVICE DRAWINGS FOR MORE DETAILED INFORMATION RELATIVE TO EACH FOOD SERVICE EQUIPMENT CONNECTION AND PROVIDE ACCORDINGLY.
KE	KITCHEN HOOD FIRE EXTINGUISHING SYSTEM.
44"	NEAR ANY DEVICE INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR. MOUNTING HEIGHT OF FOURTY-FOUR (44) INCHES ABOVE FINISHED FLOOR SHOWN HERE.
Δ	DELTA-CONNECTED.
A	AMP(S).
AC	NEAR ANY OUTLET INDICATES ABOVE COUNTER. LOCATE EXACT DESIRED LOCATION WITH ARCHITECT IN ADVANCE.
AIC	AMPS INTERRUPTING CAPACITY.
BC	NEAR ANY OUTLET INDICATES BELOW COUNTER. LOCATE EXACT DESIRED LOCATION WITH ARCHITECT IN ADVANCE.
BF	NEAR ANY DEVICE INDICATES "LOCATE AS REQUIRED FOR BOTTLE FILLING STATION. VERIFY EXACT LOCATION (INCLUDING MOUNTING HEIGHT) IN ADVANCE WITH THE PLUMBING SUBCINTRACTOR".
CM	NEAR ANY RECEPTACLE DENOTES "LOCATE AS REQUIRED FOR COFFEE MAKER. VERIFY EXACT LOCATION IN ADVANCE.".
CO	NEAR ANY OUTLET DENOTES "LOCATE AS REQUIRED FOR COPIER. VERIFY EXACT DESIRED LOCATION IN ADVANCE".
CP	NEAR ANY DEVICE INDICATES "LOCATE AS REQUIRED FOR HOT WATER CIRCULATION PUMP VERIFY EXACT LOCATION (INCLUDING MOUNTING HEIGHT) IN ADVANCE WITH THE PLUMBING SUBCINTRACTOR".
DI	NEAR ANY DEVICE DENOTES "LOCATE AS REQUIRED FOR DISPOSAL. VERIFY EXACT DESIRED LOCATION IN ADVANCE".
DR	NEAR ANY RECEPTACLE DENOTES "LOCATE AS REQUIRED FOR DRYER. VERIFY EXACT LOCATION IN ADVANCE."
DW	NEAR ANY RECEPTACLE DENOTES "LOCATE AS REQUIRED FOR DISHWASHER. VERIFY EXACT LOCATION IN ADVANCE."
EG	EQUIPMENT GROUND.
EC	EMPTY CONDUIT WITH PULL WIRE.
ED	NEAR ANY EQUIPMENT INDICATES EXISTING TO BE DEMOLISHED.
EL	NEAR ANY EQUIPMENT INDICATES EXISTING POLE LIGHTING ASSEMBLY.
ESP	WEATHERPROOF EMERGENCY ENGINE-GENERATOR-SET, "EMERGENCY-POWER-OFF" PUSHBUTTON. VERIFY EXACT LOCATION IN ADVANCE WITH THE ARCHITECT. SEE SPECIFICATIONS.
EW	NEAR ANY DEVICE DENOTES "LOCATE AS REQUIRED FOR ELECTRIC WATER COOLER. VERIFY EXACT LOCATION IN ADVANCE."
F	FUSE(S).
FZ	NEAR ANY DEVICE DENOTES "LOCATE AS REQUIRED FOR FREEZER. VERIFY EXACT LOCATION IN ADVANCE."
GEC	GROUNDING ELECTRODE CABLE.
GRC	GROUND ROD & CONNECTOR
IM	NEAR ANY RECEPTACLE DENOTES "LOCATE AS REQUIRED FOR ICE MACHINE. VERIFY EXACT LOCATION IN ADVANCE."
KCM	KILO-CIRCULAR-MILS.
KVA	KILOVOLT-AMP(S).
M	NEAR ANY RECEPTACLE DENOTES "LOCATE AS REQUIRED FOR MICROWAVE. VERIFY EXACT DESIRED LOCATION IN ADVANCE".
MF	NEAR ANY OUTLET INDICATES "LOCATE AS REQUIRED FOR MODULAR FURNITURE DATA OUTLET LOCATION, INSTALLED WITHIN MODULAR FURNITURE DIVIDER WALL PANELS. VERIFY EXACT LOCATION IN ADVANCE."
MG	NEAR ANY DEVICE INDICATES "LOCATE AS REQUIRED FOR MOTORIZED BASKETBALL GOAL. VERIFY EXACT LOCATION IN ADVANCE."
MS	NEAR ANY DEVICE INDICATES "LOCATE AS REQUIRED FOR MOTORIZED PROJECTION SCREEN. VERIFY EXACT LOCATION IN ADVANCE."
MW	NEAR ANY DEVICE/OUTLET DENOTES "LOCATE IN MILLWORK IN THE EXACT LOCATION STIPULATED BY ARCHITECT. VERIFY EXACT LOCATION IN ADVANCE."
P	POLE(S).
PH	NEAR ANY DEVICE/OUTLET DENOTES "LOCATE AS REQUIRED FOR TELEPHONE. VERIFY EXACT DESIRED LOCATION IN ADVANCE".
PR	NEAR ANY DEVICE/OUTLET DENOTES "LOCATE ABOVE CEILING AS REQUIRED OR PROJECTOR. VERIFY EXACT DESIRED LOCATION IN ADVANCE".
R	NEAR ANY RECEPTACLE DENOTES "LOCATE AS REQUIRED FOR REFRIGERATOR. VERIFY EXACT LOCATION IN ADVANCE."
REQ'D	REQUIRED.
S	NEAR ANY DEVICE DENOTES "SECURITY" TYPE DEVICE WITH TAMPER PROOF SCREWS. SEE SPECIFICATIONS.
SB	NEAR ANY DEVICE DENOTES "LOCATE AS REQUIRED FOR SMARTBOARD, AND DENOTES 'SECURITY' TYPE DEVICE/OUTLET WITH TAMBER PROOF SCREWS. SEE SPECIFICATIONS. VERIFY EXACT LOCATION IN ADVANCE."
SC	NEAR ANY DEVICE DENOTES "LOCATE AS REQUIRED FOR BODY SCANNER. VERIFY EXACT LOCATION IN ADVANCE."
SG	NEAR ANY DEVICE DENOTES "LOCATE AS REQUIRED FOR SECURITY DETENTION CONTROL & MONITOR GATE CARD READER & LOCK. VERIFY EXACT LOCATION IN ADVANCE."
SH	NEAR ANY DEVICE DENOTES "LOCATE AS REQUIRED FOR PAPER SHREDDER. VERIFY EXACT LOCATION IN ADVANCE."
SL	NEAR ANY DEVICE DENOTES "LOCATE AS REQUIRED FOR SECURITY DETENTION CONTROL & MONITOR DOOR CARD READER & LOCK. VERIFY EXACT LOCATION IN ADVANCE."
SN	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE.

TD	NEAR ANY RECEPTACLE DENOTES "LOCATE AS REQUIRED FOR TEACHER'S DESK. VERIFY EXACT LOCATION IN ADVANCE."
TL	NEAR ANY RECEPTACLE INDICATES TWIST-LOCK.
TV	NEAR ANY DEVICE DENOTES "LOCATE AS REQUIRED FOR TELEVISION OR MONITOR. VERIFY EXACT LOCATION IN ADVANCE."
V	VOLT(S).
WH	NEAR ANY DEVICE INDICATES "LOCATE AS REQUIRED FOR GAS-FIRED INSTANTANEOUS WATER HEATER. VERIFY EXACT LOCATION (INCLUDING MOUNTING HEIGHT) IN ADVANCE WITH THE PLUMBING SUBCINTRACTOR".
VFD	VARIABLE FREQUENCY DRIVE.
VG	NEAR ANY DEVICE DENOTES "LOCATE AS REQUIRED FOR SECURITY VEHICULAR ACCESS GATE. VERIFY EXACT LOCATION IN ADVANCE."
W	WIRE(S).
WA	NEAR ANY RECEPTACLE DENOTES "LOCATE AS REQUIRED FOR WASHER. VERIFY EXACT LOCATION IN ADVANCE."
WG	NEAR ANY DEVICE DENOTES "PROVIDE WIREGUARD."
WP	NEAR ANY DEVICE DENOTES WEATHERPROOF TYPE.
XFMR	TRANSFORMER.
Y	WYE-CONNECTED.
AHU	AIR HANDLING UNIT. SEE MECHANICAL DRAWINGS.
BS	BRANCH SELECTOR. SEE MECHANICAL DRAWINGS.
CP	HOT WATER CIRCULATION PUMP. SEE MECHANICAL DRAWINGS.
ECU	DUCTLESS MINI-SPLIT OUTDOOR UNIT. SEE MECHANICAL DRAWINGS.
EDH	ELECTRIC DUCT HEATER. SEE MECHANICAL DRAWINGS.
EF	EXHAUST FAN. SEE MECHANICAL DRAWINGS.
EMS	ENERGY MANAGEMENT SYSTEM EQUIPMENT. SEE MECHANICAL DRAWINGS.
ERU	DUCTLESS MINI-SPLIT INDOOR UNIT. SEE MECHANICAL DRAWINGS.
ERV	ENERGY RECOVERY VENTILATOR. SEE MECHANICAL DRAWINGS.
EUH	ELECTRIC UNIT HEATER. SEE MECHANICAL DRAWINGS.
FC	FAN COIL UNIT. SEE MECHANICAL DRAWINGS.
KEF	KITCHEN EXHAUST FAN. SEE MECHANICAL DRAWINGS.
KSF	KITCHEN SUPPLY FAN. SEE MECHANICAL DRAWINGS.
HP	HEAT PUMP. SEE MECHANICAL DRAWINGS.
HR	HEAT RECOVERY UNIT. SEE MECHANICAL DRAWINGS.
MAU	MOTORIZED AIR UNIT. SEE MECHANICAL DRAWINGS.
MCP	MOTORIZED CONTROL PANEL. SEE CIVIL DRAWINGS.
MD	MOTORIZED FRESH AIR DAMPER. SEE MECHANICAL DRAWINGS.
MSU	MINI-SPLIT CONDENSING UNIT. SEE MECHANICAL DRAWINGS.
PSG	EMERGENCY ENGINE-GENERATOR SET PARALELLING SWITCHGEAR. SEE SPECIFICATIONS
SD	SMOKE DAMPER. SEE MECHANICAL DRAWINGS.
WEF	DISHWASHER EXHAUST FAN. SEE MECHANICAL DRAWINGS.
WH	WATER HEATER. SEE MECHANICAL DRAWINGS.
WMU	WALL-MOUNTED MINI-SPLIT SYSTEM UNIT. SEE MECHANICAL DRAWINGS.
WSF	DISHWASHER SUPPLY FAN. SEE MECHANICAL DRAWINGS.

1 ELECTRICAL SYMBOL & ABBREVIATION SCHEDULE
N.T.S. (For 30"x42" Sheet)

Grace Design Studios

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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO.:08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, B

REFERENCED ELECTRICAL NOTES:

1. Desired location for the new Entergy-owned, main-electrical-service, timber, power pole with new overhead main transformer bank. Coordinate exact location, parameters, and requirements in advance with Entergy. See the "Electrical Riser Diagram", and the electrical specifications.

2. Provide an underground, pull box (of the size required) at the half-way point in this main, incoming, service-primary conduit run. Coordinate all work in advance with Entergy, conform to all associated Entergy, incoming-service, design standards, and provide all required work accordingly.

3. Approximate location (verify exact location in advance) of the nearest, existing, timber, utility pole containing telecommunications, service-distribution infrastructure. Contact directly with the telecommunications services providers, coordinate services tie-in requirements, and provide all required work accordingly. See electrical specifications for more information.

4. Locate as required for dental chair water control valve power (verify exact location in advance). Verify exact connection type (i.e. hardwired with disconnect switch, or duplex receptacle) in advance with the equipment manufacturer and provide accordingly. Obtain installation instructions from the equipment manufacturer in advance and provide all required work as described therein. Coordinate work in advance with the plumbing subcontractor. Verify all parameters and requirements in advance and provide all required work accordingly.

5. Locate as required for dental equipment air compressor power (verify exact location in advance). Verify exact connection type (i.e. hardwired with disconnect switch, or duplex receptacle) in advance with the equipment manufacturer and provide accordingly. Obtain installation instructions from the equipment manufacturer in advance and provide all required work as described therein. Coordinate work in advance with the plumbing subcontractor. Verify all parameters and requirements in advance and provide all required work accordingly.

6. Locate as required for dental workstation/chair (verify exact location in advance with the architect). Verify exact electrical requirements in advance with the dental equipment manufacturer. Verify exact routing of conduit in advance with the architect.

7. Locate as required for Vehicular Sally Port sliding vehicular gate motor/controller power. Verify exact location in advance with the architect. Obtain installation instructions from the equipment manufacturer and provide all required work described therein. Reference the security documents for parts of the associated scope (rough-ins, power connections, etc.). Verify all parameters and requirements in advance and provide accordingly.

8. Reference the food service consultant drawings for all walk-in cooler/freezer conduit requirements and for all enclosure penetrations requirements; and provide all work described therein.

9. Prior to energizing the UDS, thoroughly inspect it for any and all loose connections which may have been caused by shipping and tighten all such connections accordingly. In addition, interconnect the electrical field joint of the UDS by bolting the bus bars and/or cable bus wiring together; and connect all flex conduit with leads and/or conductors provided (as finished by food service equipment supplier/installer) to cooking equipment where and as required (verify in advance). Obtain UDS manufacturer's installation instructions and provide all Division 26 work described therein. Reference the food service consultant drawings and specifications relative to all UDS electrical requirements and provide all associated work accordingly.

10. Locate as required for Walk-In Cooler/Freezer integral lighting fixtures (verify exact location in advance. See Referenced Electrical Note No. 8.

11. Approximately here (verify exact desired location in advance with the architect), install and connect the air door, wall-mounted, micro-switch as per the manufacturer's instructions (verify in advance. As a clarification, the micro-switch shall be furnished as part of the food service equipment package, but shall be installed and connected by the electrical subcontractor. Obtain the installation instructions from the manufacturer in advance and provide all required work accordingly.

12. Disposer control panel shall be provided by the food service equipment subcontractor as part of the food service equipment package. Electrical subcontractor shall provide all conduit and interconnecting wiring between the control panel, the means of disconnect, and the disposer. Extend wiring from disposer control panel to solenoid valve installed on the water line. Verify in advance if the control panel has an integral means of disconnect, and if not, provide a properly-sized and rated, wall-mounted, disconnect (safety) switch as required (verify) in the location stipulated by the architect. Coordinate all such work in advance with the equipment supplier/subcontractor. Obtain installation instructions in advance from the manufacturer and provide all required work described therein. Reference the food service consultant's drawings and provide all required work shown. Verify all parameters and requirements in advance and provide all required work accordingly.

13. Provide 1/2", 4#12 for (120-volt) controls from the ventilator control panel mounted on the utility distribution system to the magnetic starters of the exhaust and supply fans (verify all parameters and requirements in advance, and provide accordingly).

14. Provide 1/2", 3#12 for (120-volt) controls from the terminal block of the fire-extinguishing system to the fire system interface of the ventilator control panel. In the event of a fire condition, the exhaust fans shall be activated and the supply fans shall be de-activated (verify all parameters and requirements in advance, and provide accordingly).

15. Provide all interlock wiring for the exhaust and supply fans required for maintaining the proper air balance in the kitchen (verify all parameters and requirements in advance, and provide accordingly).

16. Provide 1/2", 4#12 for (120-volt) controls from the hood control panel mounted on the end of the riser of the utility distribution system to the magnetic starters of the exhaust and supply fans (verify all parameters and requirements in advance, and provide accordingly).

17. Provide 1/2", 3#12 from the pre-wired lighting control switch mounted on the end riser of the utility distribution system to the two (2) junction boxes located on top of the exhaust ventilator as required for the pre-wired ventilator lighting fixtures (verify the exact locations in advance).

18. Provide the quantity of required UL-listed cord-and-plug assemblies to and for all cooking equipment located underneath the UDS, as shown on the food service consultant project drawings (verify all parameters and requirements in advance, and provide accordingly). Reference the food service consultant drawings and provide accordingly.

19. Provide 1" conduit, to accommodate control wiring (likely to be six (6) 4-pair #22AWG; verify and provide accordingly) between Remote Refrigeration System (Item #8) and its respectively-associated coil(s) and drain line heater(s). Verify exact size and ratings in advance.

20. Connect branch circuit at this floor-mounted outlet box up to the two (2) built-in,120-volt, 20A, duplex receptacles which shall come built into the backsplash of the food preparation counter from the manufacturer. Coordinate all associated work in advance with the food service equipment supplier/installer and provide all required work accordingly.

21. Connect branch circuit at this floor-mounted outlet box up to the built-in,120-volt, 20A, duplex receptacle which shall come built into the backsplash of the food preparation counter from the manufacturer, and which is designated for the food slicer. Coordinate all associated work in advance with the food service equipment supplier/installer and provide all required work accordingly.

22. Locate as required for motorized, roll-up, security door/grille. Verify exact location(s) (including mounting heights) in advance with the architect and food service equipment supplier/installer. Verify exact electrical requirements and obtain installation instructions in advance with the food service equipment supplier/installer, and provide all required electrical work as described therein. Verify all parameters and requirements in advance and provide all required electrical work (and rough-ins) accordingly.

23. Install all food service equipment cord & plug assemblies which shall be furnished with (and a part of) the food service equipment package. Coordinate all associated work in advance with the food service equipment supplier/installer and provide all required work accordingly.

24. Provide main service feeders and overload protection devices for continuous operating load of Utility Distribution System (UDS). Loads (including reserve power) indicated on Food Service ("FS") drawings are calculated at and/or exceed 125% of continuous operating load of equipment. Coordinate all such work in advance with the equipment supplier/subcontractor. Obtain installation instructions in advance from the manufacturer and provide all required work described therein. Reference the food service consultant's drawings and provide all required work shown. Verify all parameters and requirements in advance and provide all required work accordingly.

25. Verify exact locations of the variable frequency drives for WEF-1 and WSF-1 in advance with the mechanical subcontractor. Provide all interconnections between the respective pieces of equipment as required. Verify all parameters and requirements in advance and provide all required work accordingly.

26. Locate as required for "HVAC Temperature Controls" (verify exact location in advance with the mechanical subcontractor). Verify electrical requirements in advance with the mechanical subcontractor and/or equipment manufacturer. Reference the mechanical drawings.

27. Provide a weatherproof ("while-in-use"), duplex receptacle, mounted at 12" above finished roof (floor), on a proper, stainless-steel, support structure (submit such support method with project shop drawings for approval) approximately here (verify exact desired location in advance). Connect for power to the 120V, 20A branch circuit which is shown. Coordinate all roof penetrations in advance with the architect and as per the architect's instructions. Conform to all applicable architectural details.

28. Coordinate in advance with the mechanical subcontractor for the interconnection of WEF-1 with WSF-1 and provide all required work accordingly.

29. Coordinate in advance with the mechanical subcontractor for the interconnection of KEF-1 with KSF-1 and provide all required work accordingly.

30. Coordinate in advance with the mechanical subcontractor for the interconnection of KEF-2 with KSF-2 and provide all required work accordingly.

31. Locate as required for "DAIKIN Intelligent Touch Manager Advanced Multi-Zone Controller For Heat Pump Systems" (verify exact location in advance with the mechanical subcontractor). Verify electrical requirements in advance with the mechanical subcontractor and/or equipment manufacturer. Reference the mechanical drawings.

32. Locate as required for domestic cold water Remote Control Valve. Verify exact location (including mounting height) in advance with the plumbing subcontractor and with the architect. Coordinate all associated work in advance with the plumbing subcontractor and provide all work as required accordingly.

33. As required to facilitate the installation of the smartboard, audio/video, signal/control cabling, provide between these two recessed outlet boxes (in the same room) a 1-1/4" empty conduit (with pull wire). Verify exact desired routing of conduit in advance with the architect.

34. MILLER 200V, Single-Phase, 85A Input, Shopmaster CC/CV AC/DC Welder. Provide, at the proper location (verify in advance) a 100-amp, 208V, single-phase, 2P + G, poly, switch-rated (which also acts as a disconnecting means), welding (female) receptacle, MELTRIC #33-64232-C-K16, or approved equivalent, and an accompanying, poly angle with metallic box having a 1" NPT, MELTRIC #714C3N10, or approved equivalent. Provide a flexible, wet-location-rated, oil resistant and chemical-resistant, welding-equipment, power cord (of sufficient length as required to accommodate the moving of the welder for maintenance, cleaning, etc.), having 2#6 & 1#6EG conductors, which is equipped with a MELTRIC, or approved equivalent, (male) plug that matches, and mates with, such welding receptacle, and connect such cord to such welder in strict accordance with the welder manufacturer's instructions (verify in advance).

35. MILLER Millermatic 300 Welder. Connect such welder's input-jumper links, in strict accordance with the welder manufacturer's instructions (verify in advance) where and as required for a 460V, 3-phase, input-voltage rating (which should render approximately a 23.5A input-current rating; verify such from the equipment nameplate in advance, and bring all conflicts to the immediate attention of the architect for resolution). Provide, at the proper location (verify in advance) a 30-amp, 480V, 3-phase, 3P + G, poly, switch-rated (which also acts as a disconnecting means), welding (female) receptacle, MELTRIC #33-34043, or approved equivalent, and an accompanying, poly angle with metallic box having a 3/4" NPT, MELTRIC #713C3N07, or approved equivalent. Provide a flexible, wet-location-rated, oil resistant and chemical-resistant, welding-equipment, power cord (of sufficient length as required to accommodate the moving of the welder for maintenance, cleaning, etc.), having 3#10 & 1#10EG conductors, which is equipped with a MELTRIC, or approved equivalent, (male) plug that matches, and mates with, such welding receptacle, and connect such cord to such welder in strict accordance with the welder manufacturer's instructions (verify in advance).

36. MILLER 200V, Single-Phase, 50A Input, Millermatic 250 Welder. Provide, at the proper location (verify in advance) a 60-amp, 208V, single-phase, 2P + G, poly, switch-rated (which also acts as a disconnecting means), welding (female) receptacle, MELTRIC #33-64162, or approved equivalent, and an accompanying, poly angle with metallic box having a 1" NPT, MELTRIC #714C3N10, or approved equivalent. Provide a flexible, wet-location-rated, oil resistant and chemical-resistant, welding-equipment, power cord (of sufficient length as required to accommodate the moving of the welder for maintenance, cleaning, etc.), having 2#6 & 1#8EG conductors, which is equipped with a MELTRIC, or approved equivalent, (male) plug that matches, and mates with, such welding receptacle, and connect such cord to such welder in strict accordance with the welder manufacturer's instructions (verify in advance).

37. MILLER 200-208V, Single-Phase, 54A Input, Syncrowave 200 TIG Welder. Provide, at the proper location (verify in advance) a 60-amp, 208V, single-phase, 2P + G, poly, switch-rated (which also acts as a disconnecting means), welding (female) receptacle, MELTRIC #33-64162, or approved equivalent, and an accompanying, poly angle with metallic box having a 1" NPT, MELTRIC #714C3N10, or approved equivalent. Provide a flexible, wet-location-rated, oil resistant and chemical-resistant, welding-equipment, power cord (of sufficient length as required to accommodate the moving of the welder for maintenance, cleaning, etc.), having 2#6 & 1#8EG conductors, which is equipped with a MELTRIC, or approved equivalent, (male) plug that matches, and mates with, such welding receptacle, and connect such cord to such welder in strict accordance with the welder manufacturer's instructions (verify in advance).

38. MILLER Dimension 302 Welder. Connect such welder's input-jumper links, in strict accordance with the welder manufacturer's instructions (verify in advance) where and as required for a 460V, 3-phase, input-voltage rating (which should render a 25A or 30A, input-current rating; verify such from the equipment nameplate in advance, and bring all conflicts to the immediate attention of the architect for resolution). Provide, at the proper location (verify in advance) a 30-amp, 480V, 3-phase, 3P + G, poly, switch-rated (which also acts as a disconnecting means), welding (female) receptacle, MELTRIC #33-34043, or approved equivalent, and an accompanying, poly angle with metallic box having a 3/4" NPT, MELTRIC #713C3N07, or approved equivalent. Provide a flexible, wet-location-rated, oil resistant and chemical-resistant, welding-equipment, power cord (of sufficient length as required to accommodate the moving of the welder for maintenance, cleaning, etc.), having 3#10 & 1#10EG conductors, which is equipped with a MELTRIC, or approved equivalent, (male) plug that matches, and mates with, such welding receptacle, and connect such cord to such welder in strict accordance with the welder manufacturer's instructions (verify in advance).

39. BALDOR 102-IWD Grinder/Buffer. Connect such grinder/buffer, in strict accordance with the grinder/buffer's manufacturer's instructions (verify in advance) where and as required for a 115V, single-phase, input-voltage rating (which should render a maximum full-load-current rating of 5.4FLA; verify such from the equipment nameplate in advance, and bring all conflicts to the immediate attention of the architect for resolution). Provide, at the proper location (verify in advance) a 20-amp, 125V, 3-wire-grounding-type, NEMA 5-20R, simplex receptacle (in the proper, surface-mounted, outlet box). Provide a flexible, wet-location-rated, oil resistant and chemical-resistant, equipment, power cord (of sufficient length as required to accommodate the moving of the grinder/buffer for maintenance, cleaning, etc.), having 2#12 & 1#12EG conductors, which is equipped with a NEMA 5-20P plug, and connect such cord to such grinder/buffer in strict accordance with the grinder/buffer manufacturer's instructions (verify in advance).

40. DRY-ROD OVEN, 120V, Single-Phase. Verify from the equipment nameplate, in advance, that the maximum full-load-current rating of the dry-rod oven is 15A, and bring all conflicts to the immediate attention of the architect for resolution). Provide, at the proper location (verify in advance) a 20-amp, 125V, 3-wire-grounding-type, NEMA 5-20R, duadruplex receptacle (in the proper, surface-mounted, outlet box). Provide a flexible, wet-location-rated, oil resistant and chemical-resistant, equipment, power cord (of sufficient length as required to accommodate the moving of the dry-rod oven for maintenance, cleaning, etc.), having 2#12 & 1#12EG conductors, which is equipped with a NEMA 5-20P plug, and connect such cord to such dry-rod oven in strict accordance with the dry-rod-oven manufacturer's instructions (verify in advance).

41. DEWALT, 115V, Single-Phase, #D28715, Chop Saw. Connect such chop saw, in strict accordance with the chop-saw manufacturer's instructions (verify in advance) where and as required for a 115V, single-phase, input-voltage rating (which should render a maximum full-load-current rating of 15FLA; verify such from the equipment nameplate in advance, and bring all conflicts to the immediate attention of the architect for resolution). Provide, at the proper location (verify in advance) a 20-amp, 125V, 3-wire-grounding-type, NEMA 5-20R, duplex receptacle (in the proper, surface-mounted, outlet box). Provide a flexible, wet-location-rated, oil resistant and chemical-resistant, equipment, power cord (of sufficient length as required to accommodate the moving of the chop saw for maintenance, cleaning, etc.), having 2#12 & 1#12EG conductors, which is equipped with a NEMA 5-20P plug, and connect such cord to such chop saw in strict accordance with the chop-saw manufacturer's instructions (verify in advance).

42. Provide approximately here (verify exact location in advance with the architect/owner) a ceiling-mounted WOODHEAD #9383/3000-1/9230 (or approved equivalent) power cord reel terminated into an outlet box with two (2) 20A, 120V, 3 wire grounding, duplex receptacles and the appropriate cover plate; with 3#12 wires, with 40'0" of cord, and with tension relief.

43. Locate as required for air compressor. Verify exact desired location (including mounting height) in advance with the architect and/or owner. Verify exact type of electrical connection (cord & plug, or hardwired with disconnect) in advance with the equipment manufacturer and provide accordingly.

44. Locate as required for use of either a "Miller 250 Welder" or a "Miller 200 TIG Welder". Install this receptacle on the "electrical connections column" located in the center of the Welding Shop (verify location in advance). Provide in this location the exact same connection as described in Referenced Electrical Notes Nos. 17 and/or 18. Coordinate in advance with the owner for the exact layout/configuration of all welding equipment outlets which are being mounted to the "electrical connections column". Verify all parameters and requirements in advance and provide accordingly.

45. Locate as required for use of a "Miller Shopmaster CC/CV AC/DC Welder". Install this receptacle on the "electrical connections column" located in the center of the Welding Shop (verify location in advance). Provide in this location the exact same connection as described in Referenced Electrical Note No. 20. Coordinate in advance with the owner for the exact layout/configuration of all welding equipment outlets which are being mounted to the "electrical connections column". Verify all parameters and requirements in advance and provide accordingly.

46. Locate as required for use of a "Miller 300 Welder". Install this receptacle on the "electrical connections column" located in the center of the Welding Shop (verify location in advance). Provide in this location the exact same connection as described in Referenced Electrical Note No. 15. Coordinate in advance with the owner for the exact layout/configuration of all welding equipment outlets which are being mounted to the "electrical connections column". Verify all parameters and requirements in advance and provide accordingly.

47. Locate as required for welding-booth, integral, GFCI, duplex-receptacle, power circuit (verify exact location in advance with the architect). Connect as per the welding booth equipment manufacturer's recommendations (verify in advance). Obtain installation instructions/manual in advance from the welding booth manufacturer and provide all required work described therein. Verify all parameters and requirements in advance and provide all required work accordingly.

48. Locate as required for welding-booth. exhaust fan/integral lighting, power circuit (verify exact location in advance with the architect). Connect as per the welding booth equipment manufacturer's recommendations (verify in advance). Obtain installation instructions/manual in advance from the welding booth manufacturer and provide all required work described therein. Verify all parameters and requirements in advance and provide all required work accordingly.

49. Locate as required for laundry commercial dryer (verify exact location in advance with the architect). Verify exact electrical requirements in advance with the manufacturer and provide accordingly.

50. Locate as required for laundry commercial washing machine (verify exact location in advance with the architect). Verify exact electrical requirements in advance with the manufacturer and provide accordingly.

51. For the controlling of all lighting fixtures within the individual Sleeping Rooms, and within the adjacent outer Sleeping Areas, interconnect all associated switch-legs with the facility security controls system for functionality via the security controls system touch screens. Connect fixtures shown on the drawings with common "Security-Controls-System, Lighting, Switch-Control-Leg" designations together for common control, respectively. See Electrical Symbol & Abbreviations Schedule for description and identification of the "Security-Controls-System, Lighting, Switch-Control-Leg" symbol. Coordinate all associated work in advance with the security-controls-system installer/supplier. Verify exact location of the security-controls-system equipment (and control station(s) in advance, and provide all required interconnections work (rough-ins and electrical cabling/wiring, etc.) as required. Verify all parameters and requirements in advance and provide all required work accordingly.

52. In order to accommodate the body scanner system equipment, provide at this data outlet one (1) data jack with a data cable run to the data outlet (indicated by Referenced Electrical Note No. 52) at the "full-body scanner unit" location in INTERLOCK #B102 as required to interconnect the system. See Referenced Electrical Note No. 53, and see the electrical specifications regarding telecommunications outlet rough-ins and cabling. Verify in advance with the architect for the exact desire locations for all outlets involved. Verify exact routing of all associated conduit in advance with the architect.

53. In order to accommodate the body scanner system equipment, provide at this data outlet; a total of two (2) data jacks, one (1) data jack with a data cable back to the nearest data patch panel (verify patch panel location in advance), and one (1) data jack with data cable run to the data outlet (indicated by Referenced Electrical Note No. 53) at the "body scanner kiosk" location in CENTRAL CONTROL ROOM #B104. See Referenced Electrical Note No. 52, and see the electrical specifications regarding telecommunications outlet rough-ins and cabling. Verify in advance with the architect for the exact desire locations for all outlets involved. Verify exact routing of all associated conduit in advance with the architect.

54. For the controlling of all lighting fixtures within the Day Room, interconnect all associated switch-legs with the facility security controls system for functionality via the security controls system touch screens. Connect fixtures shown on the drawings with common "Security-Controls-System, Lighting, Switch-Control-Leg" designations together for common control, respectively. See Electrical Symbol & Abbreviations Schedule for description and identification of the "Security-Controls-System, Lighting, Switch-Control-Leg" symbol. Coordinate all associated work in advance with the security-controls-system installer/supplier. Verify exact location of the security-controls-system equipment (and control station(s) in advance, and provide all required interconnections work (rough-ins and electrical cabling/wiring, etc.) as required. Verify all parameters and requirements in advance and provide all required work accordingly.

55. As required to facilitate the installation of the wall-mounted, TV/monitor, audio/video, signal/control cabling, provide between these two recessed outlet boxes (in the same room) a 1-1/4" empty conduit (with pull wire). Verify exact desired routing of conduit in advance with the architect.

56. Locate as required for full-body security scanner. Verify exact electrical requirements in advance with the equipment manufacturer and provide accordingly. Verify exact location in advance with the architect.

57. Provide a an access driveway as required to allow Entergy accessibility to/for service and maintain their pad-mounted transformer and metering equipment. Verify all parameters and requirements in advance with Entergy and provide accordingly. Verify exact driveway routing in advance with the architect.

58. Provide the required electrical-equipment rack as required for mounting Panel "LGY1", a weatherproof ("while-in-use") duplex receptacle, and the respective "Emergency-Stop Pushbuttons" for the three (3) Gensets.
   a. Such equipment rack shall be a properly-sized and properly-rated (verify all requirements in advance), very sturdy, with all equipment installed thereon), welded, equipment rack having the number of 3" diameter, Schedule 80, aluminum-pipe, vertical members, each of which shall be equipped with a welded-on 1/4" thick, metallic, base plate, and having the number of 3", aluminum, structural-channel, horizontal members, that are required for proper equipment support (verify in advance and provide accordingly).
   b. Very rigidly attach such vertical-member base plates to the generator equipment yard concrete slab with heavy-duty, stainless-steel, concrete-wedge anchors, each of which is securely fastened to, and supported by, the concrete slab at this location. Sufficiently apply two (2) coats of black, Bitumastic 300, coal-tar polyamide on each such base plate, and on each such vertical, pipe, structural member, where such base plate will be in contact with concrete, and on such vertical pipe member up to at least 6" above the top of the respective concrete slab, where and as required to render complete and permanent protection of such base plate and such pipe vertical member from degradation resulting from contact with concrete, etc. (verify in advance and provide accordingly).
   c. Prepare complete and accurate shop drawings of such rack (with all of the respective, exact, electrical equipment (mounted thereon); submit shop drawings to the engineer for review and comment; and obtain and address such comments before ordering/fabricating each such rack (and its support apparatuses). [As a clarification, the physical sizes which are shown on the electrical drawings for such rack is approximately the sizes which will be required, but are based on an assumed physical size for the electrical equipment that shall be mounted thereon. Provide an electrical equipment rack having the physical dimensions which are required properly to accommodate all of the actual electrical equipment that will be mounted thereon, determine such required physical sizes before the preparation of the shop drawings, and indicate all dimensions for the proposed racks in such shop drawings.]
   d. Ensure that all code requirements relative to clearances about electrical equipment, particularly as stipulated in 110.26 of NFPA 70 (National Electrical Code), are met.

59. 1", with all required signal cabling, from the engine-generator set to the respective generator remote annunciator panel located in the Central Control Room (B104).

60. Not used.

61. Locate as required for generator water-jacket heater

62. Locate as required for generator battery charger.

63. Provide, inside of the engine-generator-set weatherproof enclosure, a total of two (2) 4'-0" long, damp-location-rated, LED strip lights, each having a 120-volt input-voltage rating, a 0-degree F, 3000-lumen, 4000K, module/driver, a polycarbonate lens, an integral emergency (back-up) battery-pack, and all required mounting and connecting hardware. Provide inside of the engine-generator-set weatherproof enclosure, a single-pole, weatherproof, lighting-control switch and connect it as required to control both of these LED strip lights. Connect the fixtures' emergency battery packs (with an additional "hot" lead) ahead of the lighting control switch as required to maintain charge. Provide inside of the engine-generator-set weatherproof enclosure, a weatherproof, G.F.I., duplex receptacle. Connect the LED strip lights and the receptacle as required to be fed for power from a common 20A/1P branch circuit breaker in Panel "LGY1" (reference the panelboard schedule for Panel "LGY1").

64. Locate as required for generator thermostatically-controlled, battery-heater-blanket. [160VA]

65. Locate as required for generator alternator anti-condensation strip-heater.

66. Provide, inside of the dual-purpose, portable-generator and portable-load-bank, docking station "DPDS", weatherproof enclosure a duplex receptacle. Locate the receptacle as required for the battery-charger (verify exact location in advance). Connect the receptacle as required to be fed for power from a 20A/1P, GCI, branch circuit breaker in Panel "LGY1" (reference the panelboard schedule for Panel "LGY1"). .

67. Locate as required for the DPDS-enclosure strip heater (and thermostat). Verify exact location in advance.

68. Locate this NEMA L5-30R, twist-lock receptacle (inside the DPDS housing) as required for the DPDS-enclosure block heater. Verify exact location in advance.

69. Locate a 50A, 125/250V, twist-lock receptacle (inside the DPDS housing) as required for the DPDS-enclosure block heater. Verify exact location in advance.

70. Separate head-end equipment will be located in the MDF for accommodating the Starlink backup connection. For accommodating such system:
   a. Provide a 2" EC routed to the Starlink Antenna, which will be located on exterior wall of the building, oriented toward the northern horizon, with an unobstructed view of the sky (verify the exact location in advance); and
   b. The Starlink cable will be factory-terminated and limited to a maximum length of 75'-0"; therefore, the gateway shall be located in a room with a direct path to the exterior.

71. Provide the proper grounding connectors and properly ground the project fencing and the project equipment rack (as applicable) at approximately these locations.

72. Provide the proper grounding connectors and properly ground building steel at approximately these locations.

1 REFERENCED ELECTRICAL NOTES
No Scale (For 30"x42" Sheet)

LIGHTING FIXTURE SCHEDULE

NOTES:

1. See the specifications for information relative to LED fixtures and drivers.

2. Reference the architectural reflected ceiling plans for the exact locations for all ceiling-mounted lighting fixtures, and coordinate fully with all ceiling configurations which are indicated thereon.

3. Reference the architectural drawings for the exact heights and locations for all wall-mounted lighting fixtures.

4. Verify, in advance with the architect, with the general contractor, and with the ceiling subcontractor, the exact type and construction of each project ceiling (as actually provided) and utilize all such information when preparing the project lighting equipment shop drawings and when ordering the respective project lighting fixtures, so that all lighting fixtures will be completely compatible with the respective ceilings (as actually provided). This contractor is cautioned that the type and construction of each project ceiling which are indicated in the project construction documents (drawings and specifications) do not necessarily represent the type and construction of the ceiling that will actually be provided and, also, that the types of lighting fixtures which are indicated for each project ceiling do not necessarily represent the types of lighting fixtures which are required for each project ceiling, as related to compatibility with the respective ceiling. It is this contractor's responsibility to assure that the project lighting fixtures which are provided are completely compatible with the respective ceilings, as actually provided.

5. Verify that adequate recessing space will indeed exist at the proposed location for each recessed lighting fixture and bring any and all conflicts to the immediate attention of the architect for resolution, in advance of ordering the project lighting fixtures.

6. Provide all mounting and connecting hardware which is required for each lighting fixture and for each piece of lighting equipment. All such hardware shall be appropriate for the respective, exact applications.

7. Install and connect all project lighting equipment in strict accordance with all of the manufacturers' recommendations, instructions, requirements, details, etc. (verify in advance).

8. For any lighting fixture (or 4'-0" section of a lighting fixture) which is designated (by the nearby designation of "NL") on the drawings as a "night light", contractor shall connect such lighting fixture, ahead of all switching (e.g., local switches, etc.) for "emergency/night-light" operation (for this purpose, provide the required, additional, "hot" conductor from the respective branch circuit, etc.). In addition, connect Lighting Fixtures Type "X" ahead of all switching for emergency/night light operation.

9. The description for each lighting fixture (other than exit lighting fixtures) whose lighting-fixture type includes the letter "X" (e.g., Lighting Fixture Type "AX") shall be the same description as the description for a lighting fixture that is designated by only the similar base letter (e.g., Lighting Fixture Type "A"), except that such lighting fixture shall be equipped with an ASSURANCE ALCR-DXD, or IOTA ETS20-DR, or approved equivalent, UL924, "emergency" lighting ballast-driver (each driver will allow such "emergency" lighting fixture to be powered by the respective "emergency" lighting circuit only, but will allow such "emergency" lighting fixture to be controlled (switched and/or dimmed, as applicable) by the lighting control device(s) that control(s) the adjacent "normal" lighting fixtures in the same area (i.e., to be controlled in tandem with such "normal" lighting fixtures). Each such ECU which is provided in a non-dimmed lighting fixture shall cause such "emergency" lighting fixture to remain ON or to be turned ON (as applicable at the time) when "normal" power to such control device(s) is lost. Each such ECU which is provided in a dimmed lighting fixture shall open one (1) leg of the 0-10V dimming circuit, thus causing such "emergency" lighting fixture to remain ON or to be turned ON (as applicable at the time), at full brightness, when "normal" power to such control device(s) is lost. Request and obtain, in advance from the manufacturer of such ECU, the proper wiring diagram, and other required information, which is relevant to the exact application for which such ECU is provided, and utilize such wiring diagram and such information while connecting such ECU. Connect each such equipped "emergency" lighting fixture for "emergency" power to an unswitched, "emergency" lighting circuit of the for "emergency" operation, but so as to be controlled (switched and/or dimmed, as applicable) by the control device(s) that control(s) the adjacent "normal" lighting fixtures in the respective same area (e.g., local toggle switches, local light dimmers, occupancy-sensing controls, control relays of a lighting contactor, etc.), i.e., to be controlled in tandem with the adjacent "normal" lighting fixtures; but so that, upon loss of power of such "normal" lighting circuit to such adjacent "normal" lighting fixtures, such ECU will cause all such lighting control devices to be bypassed. Verify all parameters and requirements in advance, and provide accordingly. As a clarification, "unswitched" "emergency" lighting fixtures which are intended for 24-hour "night-lighting" operation need not be equipped with such "emergency" lighting control units.

10. In all places where manufacturers' names and/or model numbers are given, the words "or approved equivalent" shall be assumed to follow.

11. IECC Energy Code Compliance Note: For all building areas where detainees have access, this design invokes Exception No, 1 of IECC 2021 Section 405.2 which states:
   1) Lighting controls are not required for "areas designated as security or emergency areas that are required to be continuously lighted."

DESCRIPTIONS:

A1 ADVANTAGE ENVIRONMENTAL LIGHTING #BAA-24-40-11L(HL)-B14-B14-INS-PA125-375P-M; 277-volt, 2'x4', recessed, flanged, LED, correctional-grade, security fixture; with a painted white, 14-gauge, cold roll steel, door/housing; .125" prismatic acrylic inner lens; 0.375" clear polycarbonate outer lens; Torx head fasteners; and a 79.3-watt, 11000-lumen, 4000K, 0-10V dimming, LED source. Coordinate installation in advance with the metal-panel, ceiling, installer and provide all trim/hardware as required for compatibility with, and proper installation within, the security/institution grand ceilings. Reference applicable ceiling and installation details on the architectural drawings in advance, and provide all required work accordingly.

A2 Same as type "A1", except with a a 48.5-watt, 7000-lumen, LED source.

A3 Same as type "A1", except with a a 27.8-watt, 4000-lumen, LED source.

B1 SHAT-R-SHIELD "VR Pro" #042-VR-40-CL-Y-V7-SS-UR-00-TB-MODIFIED; 277-volt, 12.25-inch round, surface-mounted, damp-location-rated, vandal-resistant, correctional-cell-grade, LED fixture; with a 1/2" thick, 304-stainless-steel housing; a urethane, impact-resistant, diffused lens; tamper-proof bolts & inserts; a 42-watt, 4400-lumens, 4000K, main, LED source, a 8-watt, 680-lumen, 2700K, integral, count light ("night light"); and a 4-wire, power cord & plug assembly (from manufacturer). Provide the proper ceiling-mounting hardware as required for mounting this fixture to the correctional-grade ceiling (verify in advance). Coordinate in advance with the ceiling subcontractor. Conform to all applicable architectural ceiling details. Provide a NEMA L19-20, 277/480V, 20-amp, 4-wire, 4-pole, power receptacle above the ceiling and within reach of the fixture's ceiling opening (verify exact location and receptacle mounting method in advance with the architect), and connect it to the branch circuits shown. See "Fixture Type "B1" Power Plug Wiring Diagram" and connect lighting fixture wiring accordingly as required to control the fixture as intended. See Referenced Electrical Note No. 51. Verify all parameters and requirements in advance and provide all required work accordingly.

B2 Same as type "B2", except with NO integral count light ("night light").

C SHAT-R-SHIELD "H2O Pro" #32-H2O-40-CL-F-VH-SS-PC-TB-MODIFIED; 277-volt, 9.25-inch round, surface-mounted, wet-location-rated (shower-grade), vandal-resistant, correctional-grade, LED fixture; with a 1/2" thick, 304-stainless-steel housing; a 1/4" thick, polycarbonate, impact-resistant, diffused lens; tamper-proof bolts & inserts; and a 32-watt, 2650-lumens, 4000K, non-dimming, LED source. Provide the proper ceiling-mounting hardware as required for mounting this fixture to the correctional-grade, metal ceiling (verify in advance). Coordinate in advance with the ceiling subcontractor. Conform to all applicable architectural ceiling details. Provide a NEMA L7-15, 277V, 15-amp, 3-wire, 2-pole, power receptacle above the ceiling and within reach of the fixture's ceiling opening (verify exact location and receptacle mounting method in advance with the architect), and connect it to the branch circuit shown. Verify all parameters and requirements in advance and provide all required work accordingly.

D1 ADVANTAGE ENVIRONMENTAL LIGHTING #BAA-22-40-7L(ML)-B14-B14-INS-PA125-375P-M; 277-volt, 2'x2', recessed, flanged, LED, correctional-grade fixture; with a painted white, 14-gauge, cold roll steel, door/housing; .125" prismatic acrylic inner lens; 0.375" clear polycarbonate outer lens; Torx head fasteners; and a 48.5-watt, 7000-lumen, 4000K, 0-10V dimming, LED source.

D2 Same as type "D1", except with a a 27.8-watt, 4000-lumen, LED source.

E1 ILP #VPAN24-66L-U-40; 277-volt, 2'x4'; recessed, LED panel fixture; with a 0.156" thick, acrylic lens; steel white housing; 0-10V dimming; and a 59-watt, 7290-lumen, 4000K, LED source. Provide "flange mount kit" as required for each application (verify ceiling in advance).

E2 ILP #VPAN24-55L-U-40; 277-volt, 2'x4', recessed, LED panel fixture; with a 0.156" thick, acrylic lens; steel white housing; 0-10V dimming; and a 47-watt, 6064-lumen, 4000K, LED source. Provide "flange mount kit" as required for each application (verify ceiling in advance).

E3 ILP #VPAN24-44L-U-40; 277-volt, 2'x4', recessed, LED panel fixture; with a 0.156" thick, acrylic lens; steel white housing; 0-10V dimming; and a 38-watt, 5000-lumen, 4000K, LED source. Provide "flange mount kit" as required for each application (verify ceiling in advance).

E4 ILP #VPAN24-33L-U-40; 277-volt, 2'x4'; recessed, LED panel fixture; with a 0.156" thick, acrylic lens; steel white housing; 0-10V dimming; and a 29-watt, 3864-lumen, 4000K, LED source. Provide "flange mount kit" as required for each application (verify ceiling in advance).

F1 ILP #VS4-6L-U-40-FRL; 277-volt, 4' long, surface-mounted (or suspended as required; verify), LED strip; with a round, frosted, acrylic lens; and a 44-watt, 5736-lumen, 4000K, LED source. Provide either surface-mounting, or suspension-mounting hardware as required for each respective application, and locate fixtures in the room as required for providing best overall lighting of the room/area, while avoiding conflicts with all ductwork, piping, building-structural members, architectural features, etc. (verify exact required mounting method and locations for each respective room/application in advance). In areas where suspension-mounting hardware is required, provide mounting stem lengths as required for mounting fixture at the exact height stipulated by the architect. Verify all parameters and requirements in advance with the architect and provide all associated work accordingly.

F2 ILP #VS8-8L-U-40-FRL; 277-volt, 8' long, suspended-mounted (or surface-mounted; verify), LED strip; with a round, frosted, acrylic lens; and a 61-watt, 8310-lumen, 4000K, LED source. Provide "alignment brackets" as required to provide continuous rows of fixtures as shown on the drawings. Provide either surface-mounting, or suspension-mounting hardware as required, and locate fixtures at the exact height as stipulated by the architect (verify in advance).

G1 H.E. WILLIAMS #6DR-TL-L30/840-DIM-UNV-OM-OF-CS-WET/CC-N-F1; 277-volt, wet-location-rated, 6" aperture, recessed, LED downlight; with an open reflector; clear, semi-specular finish; medium (35-degree) distribution; and a 26.9-watt, 3000-lumen, 4000K, LED source.

G2 H.E. WILLIAMS #6DR-TL-L20/840-DIM-UNV-OM-OF-CS-N-F1; 277-volt, 6" aperture, recessed, LED downlight; with an open reflector; clear, semi-specular finish; wide (65-degree) distribution; and a 19-watt, 2000-lum

Panel "DP1", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
1200A MLO, 65,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD3.

CKT NO.	AMPS	PL	REMARKS
1	200	3	Panel "HA1"
3	--	-	Panel "HA1"
5	--	-	Panel "HA1"
7	400	3	Panel "HC1"
9	--	-	Panel "HC1"
11	--	-	Panel "HC1"
13	200	3	Panel "HE1"
15	--	-	Panel "HE1"
17	--	-	Panel "HE1"
19	400	3	Panel "HH1"
21	--	-	Panel "HH1"
23	--	-	Panel "HH1"
25	--	3	Provisions
27	--	-	Provisions
29	--	-	Provisions
2	200	3	Panel "HB1"
4	--	-	Panel "HB1"
6	--	-	Panel "HB1"
8	200	3	Panel "HD1"
10	--	-	Panel "HD1"
12	--	-	Panel "HD1"
14	400	3	Panel "HG1"
16	--	-	Panel "HG1"
18	--	-	Panel "HG1"
20	--	3	Provisions
22	--	-	Provisions
24	--	-	Provisions
26	--	3	Provisions
28	--	-	Provisions
30	--	-	Provisions

Panel "DP2", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
1200A MLO, 65,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD3.

& Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	400	3	Panel "HA2"
3	--	-	Panel "HA2"
5	--	-	Panel "HA2"
7	225	3	Panel "HD2"
9	--	-	Panel "HD2"
11	--	-	Panel "HD2"
13	175	3	Panel "HG2"
15	--	-	Panel "HG2"
17	--	-	Panel "HG2"
19	350	3	Transformer "TLK2" & Panel "LK2"
21	--	-	Transformer "TLK2" & Panel "LK2"
23	--	-	Transformer "TLK2" & Panel "LK2"
25	--	3	Provisions
27	--	-	Provisions
29	--	-	Provisions
2	400	3	Panel "HC2"
4	--	-	Panel "HC2"
6	--	-	Panel "HC2"
8	350	3	Panel "HF2"
10	--	-	Panel "HF2"
12	--	-	Panel "HF2"
14	225	3	Panel "HH2"
16	--	-	Panel "HH2"
18	--	-	Panel "HH2"
20	--	3	Provisions
22	--	-	Provisions
24	--	-	Provisions
26	--	3	Provisions
28	--	-	Provisions
30	--	-	Provisions

Panel "DP3", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
1200A MLO, 65,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

& Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	225	3	Panel "HA3"
3	--	-	Panel "HA3"
5	--	-	Panel "HA3"
7	225	3	Panel "HH3"
9	--	-	Panel "HH3"
11	--	-	Panel "HH3"
13	300	3	Panel "HBS3"
15	--	-	Panel "HBS3"
17	--	-	Panel "HBS3"
19	--	3	Provisions
21	--	-	Provisions
23	--	-	Provisions
2	500	3	Panel "HBS"
4	--	-	Panel "HB3"
6	--	-	Panel "HB3"
8	175	3	Panel "HM3"
10	--	-	Panel "HM3"
12	--	-	Panel "HM3"
14		3	Provisions
16	--	-	Provisions
18	--	-	Provisions
20	--	3	Provisions
22	--	-	Provisions
24	--	-	Provisions

Panel "HA1", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
225A MLO, 50,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

& Shunt-Trip-Type Circuit Breaker
# GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	175	3	Transformer "TLA1" & Panel "LA1"
3	--	-	Transformer "TLA1" & Panel "LA1"
5	--	-	Transformer "TLA1" & Panel "LA1"
7	20	1	Spare
9	20	1	Spare
11	20	1	Spare
B 13	20	1	Lights
15	20	1	Spare
17	20	1	Spare
19	20	1	Spare
21	20	1	Spare
23	--	1	Provisions
25	--	1	Provisions
27	--	1	Provisions
29	--	1	Provisions
31	--	1	Provisions
33	--	1	Provisions
35	--	1	Provisions
37	--	1	Provisions
39	--	1	Provisions
41	--	1	Provisions
B 2	20	1	"LCP-HA1" Power
B 4	70	1	Emergency Power-Inverter "INVA1"
6	20	1	Spare
8	20	1	Spare
10	20	1	Spare
12	20	1	Spare
14	20	1	Spare
16	20	1	Spare
18	20	1	Spare
20	--	1	Provisions
22	--	1	Provisions
24	--	1	Provisions
26	--	1	Provisions
28	--	1	Provisions
30	--	1	Provisions
32	--	1	Provisions
34	--	1	Provisions
36	--	1	Provisions
38	--	1	Provisions
40	--	1	Provisions
42	--	1	Provisions

Panel "HA2, 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
400A MLO, 50,000 A.I.C. Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HA2" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS	
1	60	3	Transformer "TLA2" & Panel "LA2"	
3	--	-	Transformer "TLA2" & Panel "LA2"	
5	--	-	Transformer "TLA2" & Panel "LA2"	
A ? 7	50	3	Heat Pump Unit (HP-1A, Module #1)	1", 4#8 & 1#10EG
A ? 9	--	-	Heat Pump Unit (HP-1A, Module #1)	1", 4#8 & 1#10EG
A ? 11	--	-	Heat Pump Unit (HP-1A, Module #1)	1", 4#8 & 1#10EG
A ? 13	125	3	Electric Duct Heater (EDH-1)	2", 4#1 & 1#6EG
A ? 15	--	-	Electric Duct Heater (EDH-1)	2", 4#1 & 1#6EG
A ? 17	--	-	Electric Duct Heater (EDH-1)	2", 4#1 & 1#6EG
A ?& 19	30	3	Kitchen Supply Fan (KSF-2)	3/4", 4#10 & 1#10EG
A ?& 21	--	-	Kitchen Supply Fan (KSF-2)	3/4", 4#10 & 1#10EG
A ?& 23	--	-	Kitchen Supply Fan (KSF-2)	3/4", 4#10 & 1#10EG
A ? 25	15	3	Kitchen Exhaust Fan (KEF-2)	
A ? 27	--	-	Kitchen Exhaust Fan (KEF-2)	
A ? 29	--	-	Kitchen Exhaust Fan (KEF-2)	
B 31	20	1	Night Lights	
A ? 33	50	3	Heat Recover Unit (HR-E)	1", 4#8 & 1#10EG
A ? 35	--	-	Heat Recover Unit (HR-E)	1", 4#8 & 1#10EG
A ? 37	--	-	Heat Recover Unit (HR-E)	1", 4#8 & 1#10EG
39	45	3	Heat Pump Unit (HP-7)	1", 4#8 & 1#10EG
41	--	-	Heat Pump Unit (HP-7)	1", 4#8 & 1#10EG
43	--	-	Heat Pump Unit (HP-7)	1", 4#8 & 1#10EG
45	20	1	Spare	
47	20	1	Spare	
49	20	1	Spare	
51	20	1	Spare	
53	20	1	Spare	
55	--	1	Provisions	
57	--	1	Provisions	
59	--	1	Provisions	
B 2	20	1	"LCP-HA2" Power	
B 4	20	1	Lights	
A ? 6	50	3	Heat Pump Unit (HP-1A, Module #2)	1", 4#8 & 1#10EG
A ? 8	--	-	Heat Pump Unit (HP-1A, Module #2)	1", 4#8 & 1#10EG
A ? 10	--	-	Heat Pump Unit (HP-1A, Module #2)	1", 4#8 & 1#10EG
A ? 12	35	3	Air Handling Unit (AHU-1A)	1", 4#8 & 1#10EG
A ? 14	--	-	Air Handling Unit (AHU-1A)	1", 4#8 & 1#10EG
A ? 16	--	-	Air Handling Unit (AHU-1A)	1", 4#8 & 1#10EG
A ?& 18	30	3	Kitchen Supply Fan (KSF-1)	3/4", 4#10 & 1#10EG
A ?& 20	--	-	Kitchen Supply Fan (KSF-1)	3/4", 4#10 & 1#10EG
A ?& 22	--	-	Kitchen Supply Fan (KSF-1)	3/4", 4#10 & 1#10EG
A ? 24	15	3	Kitchen Exhaust Fan (KEF-1)	
A ? 26	--	-	Kitchen Exhaust Fan (KEF-1)	
A ? 28	--	-	Kitchen Exhaust Fan (KEF-1)	
B 30	20	1	Lights	
C ^ 32	20	1	Exterior Lights	1/2", 2#10 & 1#10EG
A ? 34	30	3	Makeup Air Handling Unit (MAU-7)	3/4", 4#10 & 1#10EG
A ? 36	--	-	Makeup Air Handling Unit (MAU-7)	3/4", 4#10 & 1#10EG
A ? 38	--	-	Makeup Air Handling Unit (MAU-7)	3/4", 4#10 & 1#10EG
40	20	1	Spare	
42	20	1	Spare	
44	20	1	Spare	
46	20	1	Spare	
48	20	1	Spare	
50	20	1	Spare	
52	--	1	Provisions	
54	--	1	Provisions	
56	--	1	Provisions	
58	--	1	Provisions	
60	--	1	Provisions	

Panel "HA3, 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
225A MLO, 50,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

& Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS	
1	100	3	Transformer "TLA3" & Panel "LA3"	
3	--	-	Transformer "TLA3" & Panel "LA3"	
5	--	-	Transformer "TLA3" & Panel "LA3"	
A ? 7	50	3	Heat Recover Unit (HR-D, Module #1)	1", 4#8 & 1#10EG
A ? 9	--	-	Heat Recover Unit (HR-D, Module #1)	1", 4#8 & 1#10EG
A ? 11	--	-	Heat Recover Unit (HR-D, Module #1)	1", 4#8 & 1#10EG
E ? 13	15	3	Commercial Dryer	
E ? 15	--	-	Commercial Dryer	
E ? 17	--	-	Commercial Dryer	
19	20	1	Spare	
21	20	1	Spare	
23	20	1	Spare	
25	20	1	Spare	
27	20	1	Spare	
29	20	1	Spare	
31	20	1	Spare	
33	--	1	Provisions	
35	--	1	Provisions	
37	--	1	Provisions	
39	--	1	Provisions	
41	--	1	Provisions	
43	--	1	Provisions	
45	--	1	Provisions	
47	--	1	Provisions	
49	--	1	Provisions	
51	--	1	Provisions	
53	--	1	Provisions	
55	--	1	Provisions	
57	--	1	Provisions	
59	--	1	Provisions	
2	20	1	Spare	
A ? 6	50	3	Heat Recover Unit (HR-D, Module #2)	1", 4#8 & 1#10EG
A ? 8	--	-	Heat Recover Unit (HR-D, Module #2)	1", 4#8 & 1#10EG
A ? 10	--	-	Heat Recover Unit (HR-D, Module #2)	1", 4#8 & 1#10EG
E ? 12	15	3	Commercial Dryer	
E ? 14	--	-	Commercial Dryer	
E ? 16	--	-	Commercial Dryer	
18	20	1	Spare	
20	20	1	Spare	
22	20	1	Spare	
24	20	1	Spare	
26	20	1	Spare	
28	20	1	Spare	
30	20	1	Spare	
32	--	1	Provisions	
34	--	1	Provisions	
36	--	1	Provisions	
38	--	1	Provisions	
40	--	1	Provisions	
42	--	1	Provisions	

Panel "HB1", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
255A MCB, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HB1" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	100	3	Transformer "TLB1" & Panel "LB1"
3	--	-	Transformer "TLB1" & Panel "LB1"
5	--	-	Transformer "TLB1" & Panel "LB1"
B 7	20	1	Lights
9	20	1	Spare
11	20	1	Spare
13	20	1	Spare
15	20	1	Spare
17	20	1	Spare
19	20	1	Spare
21	20	1	Spare
23	20	1	Spare
25	20	1	Spare
27	--	1	Provisions
29	--	1	Provisions
31	--	1	Provisions
33	--	1	Provisions
35	--	1	Provisions
37	--	1	Provisions
39	--	1	Provisions
41	--	1	Provisions
B 2	20	1	"LCP-HB1" Power
B 4	70	1	Emergency Power-Inverter "INVB1"
F ? 6	20	3	Welding Exhaust Fab (WEF-1))	3/4", 4#10 & 1#10EG
F ? 8	--	--	Welding Exhaust Fab (WEF-1))	3/4", 4#10 & 1#10EG
F ? 10	--	--	Welding Exhaust Fab (WEF-1))	3/4", 4#10 & 1#10EG
B 12	20	1	Lights
14	20	1	Spare
16	20	1	Spare
18	20	1	Spare
20	20	1	Spare
22	20	1	Spare
24	20	1	Spare
26	20	1	Spare
28	20	1	Spare
30	20	1	Spare
32	--	1	Provisions
34	--	1	Provisions
36	--	1	Provisions
38	--	1	Provisions
40	--	1	Provisions
42	--	1	Provisions

Panel "HB3", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
600A MLO, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD2.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HB3" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS	
1	350	3	Transformer "TLB3" & Panel "LB3"	
3	--	-	Transformer "TLB3" & Panel "LB3"	
5	--	-	Transformer "TLB3" & Panel "LB3"	
A ? 7	50	3	Heat Recover Unit (HR-C, Module #2)	1", 4#8 & 1#10EG
A ? 9	--	-	Heat Recover Unit (HR-C, Module #2)	1", 4#8 & 1#10EG
A ? 11	--	-	Heat Recover Unit (HR-C, Module #2)	1", 4#8 & 1#10EG
A ? 13	45	3	Heat Pump Unit (HP-5)	1", 4#8 & 1#10EG
A ? 15	--	-	Heat Pump Unit (HP-5)	1", 4#8 & 1#10EG
A ? 17	--	-	Heat Pump Unit (HP-5)	1", 4#8 & 1#10EG
A ? 19	30	3	Makeup Air Handling Unit (MAU-6)	3/4", 4#10 & 1#10EG
A ? 21	--	-	Makeup Air Handling Unit (MAU-6)	3/4", 4#10 & 1#10EG
A ? 23	--	-	Makeup Air Handling Unit (MAU-6)	3/4", 4#10 & 1#10EG
B 25	20	1	Lights	
B 27	20	1	Lights	
B 29	20	1	Lights	
31	20	1	Spare	
33	20	1	Spare	
35	20	1	Spare	
37	20	1	Spare	
39	--	1	Provisions	
41	--	1	Provisions	
B 2	20	1	"LCP-HB3" Power	
A ? 4	50	3	Heat Recover Unit (HR-C, Module #1)	1", 4#8 & 1#10EG
A ? 6	--	-	Heat Recover Unit (HR-C, Module #1)	1", 4#8 & 1#10EG
A ? 8	--	-	Heat Recover Unit (HR-C, Module #1)	1", 4#8 & 1#10EG
A ? 10	30	3	Makeup Air Handling Unit (MAU-5)	3/4", 4#10 & 1#10EG
A ? 12	--	-	Makeup Air Handling Unit (MAU-5)	3/4", 4#10 & 1#10EG
A ? 14	--	-	Makeup Air Handling Unit (MAU-5)	3/4", 4#10 & 1#10EG
A ? 16	45	3	Heat Pump Unit (HP-6)	1", 4#8 & 1#10EG
A ? 18	--	-	Heat Pump Unit (HP-6)	1", 4#8 & 1#10EG
A ? 20	--	-	Heat Pump Unit (HP-6)	1", 4#8 & 1#10EG
B ? 22	20	1	Lights	
24	20	1	Spare	
26	20	1	Spare	
28	20	1	Spare	
30	20	1	Spare	
32	20	1	Spare	
34	--	1	Provisions	
36	--	1	Provisions	
38	--	1	Provisions	
40	--	1	Provisions	
42	--	1	Provisions	

Panel "HBS3", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
400A MCB, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD2.

& Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS	
E ? 1	50	3	300 TIG Welder on Column	1", 4#8 & 1#10EG
E ? 3	-	-	300 TIG Welder on Column	1", 4#8 & 1#10EG
E ? 5	-	-	300 TIG Welder on Column	1", 4#8 & 1#10EG
E ? 7	50	3	300 TIG Welder	1", 4#8 & 1#10EG
E ? 9	-	-	300 TIG Welder	1", 4#8 & 1#10EG
E ? 11	-	-	300 TIG Welder	1", 4#8 & 1#10EG
E ? 13	50	3	302 Booth Welder	1", 4#8 & 1#10EG
E ? 15	-	-	302 Booth Welder	1", 4#8 & 1#10EG
E ? 17	-	-	302 Booth Welder	1", 4#8 & 1#10EG
E ? 19	50	3	302 Booth Welder	1", 4#8 & 1#10EG
E ? 21	-	-	302 Booth Welder	1", 4#8 & 1#10EG
E ? 23	-	-	302 Booth Welder	1", 4#8 & 1#10EG
E ? 25	15	3	Welding Supply Fan (WSF-1)	3/4", 4#10 & 1#10EG
E ? 27	--	-	Welding Supply Fan (WSF-1)	3/4", 4#10 & 1#10EG
E ? 29	--	-	Welding Supply Fan (WSF-1)	3/4", 4#10 & 1#10EG
31	20	1	Spare	
33	20	1	Spare	
35	20	1	Spare	
37	20	1	Spare	
39	--	1	Provisions	
41	--	1	Provisions	
E ? 2	50	3	300 TIG Welder on Column	1", 4#8 & 1#10EG
E ? 4	-	-	300 TIG Welder on Column	1", 4#8 & 1#10EG
E ? 6	-	-	300 TIG Welder on Column	1", 4#8 & 1#10EG
E ? 8	50	3	300 TIG Welder	1", 4#8 & 1#10EG
E ? 10	-	-	300 TIG Welder	1", 4#8 & 1#10EG
E ? 12	-	-	300 TIG Welder	1", 4#8 & 1#10EG
E ? 14	50	3	302 Booth Welder	1", 4#8 & 1#10EG
E ? 16	-	-	302 Booth Welder	1", 4#8 & 1#10EG
E ? 18	-	-	302 Booth Welder	1", 4#8 & 1#10EG
E ? 20	50	3	302 Booth Welder	1", 4#8 & 1#10EG
E ? 22	-	-	302 Booth Welder	1", 4#8 & 1#10EG
E ? 24	-	-	302 Booth Welder	1", 4#8 & 1#10EG
26	20	1	Spare	
28	20	1	Spare	
30	20	1	Spare	
32	20	1	Spare	
34	20	1	Spare	
36	--	1	Provisions	
38	--	1	Provisions	
40	--	1	Provisions	
42	--	1	Provisions	

Panel "HC1", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
400A MLO, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HC1" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS	
1	250	3	Transformer "TLC1 & Panel "LC1"	
3	--	-	Transformer "TLC1 & Panel "LC1"	
5	--	-	Transformer "TLC1 & Panel "LC1"	
B ? 7	20	1	Lights	
B 9	20	1	Lights	
A ? 11	50	3	Heat Recover Unit (HR-B)	1", 4#8 & 1#10EG
A ? 13	--	-	Heat Recover Unit (HR-B)	1", 4#8 & 1#10EG
A ? 15	--	-	Heat Recover Unit (HR-B)	1", 4#8 & 1#10EG
A ? 17	45	3	Heat Pump Unit (HP-2)	1", 4#8 & 1#10EG
A ? 19	--	-	Heat Pump Unit (HP-2)	1", 4#8 & 1#10EG
A ? 21	--	-	Heat Pump Unit (HP-2)	1", 4#8 & 1#10EG
A ? 23	30	3	Makeup Air Handling Unit (MAU-2)	3/4", 4#10 & 1#10EG
A ? 25	--	-	Makeup Air Handling Unit (MAU-2)	3/4", 4#10 & 1#10EG
A ? 27	--	-	Makeup Air Handling Unit (MAU-2)	3/4", 4#10 & 1#10EG
F ? 29	30	3	Sallyport Sliding Vehicular Gate	1", 4#8 & 1#10EG
F ? 31	--	-	Sallyport Sliding Vehicular Gate	1", 4#8 & 1#10EG
F ? 33	--	-	Sallyport Sliding Vehicular Gate	1", 4#8 & 1#10EG
F ? 35	30	3	Sallyport Roll-up Vehicular Gate	3/4", 4#10 & 1#10EG
F ? 37	--	-	Sallyport Roll-up Vehicular Gate	3/4", 4#10 & 1#10EG
F ? 39	--	-	Sallyport Roll-up Vehicular Gate	3/4", 4#10 & 1#10EG
41	20	1	Spare	
43	20	1	Spare	
45	20	1	Spare	
47	20	1	Spare	
49	20	1	Spare	
51	--	1	Provisions	
53	--	1	Provisions	
55	--	1	Provisions	
57	--	1	Provisions	
59	--	1	Provisions	
61	--	1	Provisions	
63	--	1	Provisions	
65	--	1	Provisions	
67	--	1	Provisions	
69	--	1	Provisions	
71	--	1	Provisions	
B 2	20	1	Lights	
B 4	20	1	Lights	
B 6	20	1	"LCP-HC1" Power	
B 8	70	1	Emergency Power-Inverter "INVC1" Power	
A ? 10	50	3	Heat Recover Unit (HR-A)	1", 4#8 & 1#10EG
A ? 12	--	-	Heat Recover Unit (HR-A)	1", 4#8 & 1#10EG
A ? 14	--	-	Heat Recover Unit (HR-A)	1", 4#8 & 1#10EG
A ? 16	45	3	Heat Pump Unit (HP-1)	1", 4#8 & 1#10EG
A ? 18	--	-	Heat Pump Unit (HP-1)	1", 4#8 & 1#10EG
A ? 20	--	-	Heat Pump Unit (HP-1)	1", 4#8 & 1#10EG
A ? 22	30	3	Makeup Air Handling Unit (MAU-1)	3/4", 4#10 & 1#10EG
A ? 24	--	-	Makeup Air Handling Unit (MAU-1)	3/4", 4#10 & 1#10EG
A ? 26	--	-	Makeup Air Handling Unit (MAU-1)	3/4", 4#10 & 1#10EG
F ? 28	30	3	Sallyport Sliding Vehicular Gate	1", 4#8 & 1#10EG
F ? 30	--	-	Sallyport Sliding Vehicular Gate	1", 4#8 & 1#10EG
F ? 32	--	-	Sallyport Sliding Vehicular Gate	1", 4#8 & 1#10EG
F ? 34	30	3	Sallyport Roll-up Vehicular Gate	3/4", 4#10 & 1#10EG
F ? 36	--	-	Sallyport Roll-up Vehicular Gate	3/4", 4#10 & 1#10EG
F ? 38	--	-	Sallyport Roll-up Vehicular Gate	3/4", 4#10 & 1#10EG
40	20	1	Spare	
42	20	1	Spare	
44	20	1	Spare	
46	20	1	Spare	
48	20	1	Spare	
50	--	1	Provisions	
52	--	1	Provisions	
54	--	1	Provisions	
56	--	1	Provisions	
58	--	1	Provisions	
60	--	1	Provisions	
62	--	1	Provisions	
64	--	1	Provisions	
66	--	1	Provisions	
68	--	1	Provisions	
70	--	1	Provisions	
72	--	1	Provisions	

1 ELECTRICAL PANEL SCHEDULES (1 of 5)
No Scale (For 30"x42" Sheet)

Grace Design Studios

STATE OF LOUISIANA
WILLIAM HEBERT NESBIT, JR
License No. 19212
REGISTERED ENGINEER
IN
ELECTRICAL
CONTROL SYSTEMS
ENGINEERING
04/09/26

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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

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08-403-24-01, F 080001?5
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

NO.	DESCRIPTION	DATE
1	Addendum No. 1	4/21/26
2	Addendum No. 2	4/27/26

DATE: 03-30-2026
PHASE: CONSTRUCTION DOCUMENTS
ISSUED FOR: REVIEW & PRICING
PROJECT NO: 571506

ELECTRICAL PANEL SCHEDULES

SHEET NUMBER
E504

Autodesk Docs://571506 New Jetson Center for Youth/New_Jetson-ELEC.rvt
4/27/2026 3:57:12 PM

Panel "HC2", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
400A MLO, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HC2" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	100	3	Transformer "TLC2" & Panel "LC2"
3	-	-	Transformer "TLC2" & Panel "LC2"
5	-	-	Transformer "TLC2" & Panel "LC2"
B 7	20	1	Lights
B 9	20	1	Lights
A ? 11	30	3	Makeup Air Handling Unit (MAU-3)
A ? 13	--	-	Makeup Air Handling Unit (MAU-3)
A ? 15	--	-	Makeup Air Handling Unit (MAU-3)
A ? 17	45	3	Heat Pump Unit (HP-4)
A ? 19	--	-	Heat Pump Unit (HP-4)
A ? 21	--	-	Heat Pump Unit (HP-4)
A ? 23	50	3	Heat Recover Unit (HR-O)
A ? 25	--	-	Heat Recover Unit (HR-O)
A ? 27	--	-	Heat Recover Unit (HR-O)
29	20	1	Spare
31	20	1	Spare
33	20	1	Spare
35	20	1	Spare
37	20	1	Spare
39	20	1	Spare
41	20	1	Spare
43	--	1	Provisions
45	--	1	Provisions
47	--	1	Provisions
49	--	1	Provisions
51	--	1	Provisions
53	--	1	Provisions
55	--	1	Provisions
57	--	1	Provisions
59	--	1	Provisions
61	--	1	Provisions
63	--	1	Provisions
65	--	1	Provisions
67	--	1	Provisions
69	--	1	Provisions
71	--	1	Provisions
B ^ 2	20	1	Lights
C ^ 4	20	1	Exterior Lights
B ^ 6	20	1	"LCP-HC2" Power
A ? 8	45	3	Heat Pump Unit (HP-3)
A ? 10	--	-	Heat Pump Unit (HP-3)
A ? 12	--	-	Heat Pump Unit (HP-3)
A ? 14	15	3	Electric Unit Heater (EUH-1)
A ? 16	--	-	Electric Unit Heater (EUH-1)
A ? 18	--	-	Electric Unit Heater (EUH-1)
A ? 20	30	3	Makeup Air Handling Unit (MAU-4)
A ? 22	--	-	Makeup Air Handling Unit (MAU-4)
A ? 24	--	-	Makeup Air Handling Unit (MAU-4)
C ^ 26	20	1	Parking Lot Lights
C ^ 28	20	1	Perimeter Pole-Mounted Lights
30	20	1	Spare
32	20	1	Spare
34	20	1	Spare
36	20	1	Spare
38	20	1	Spare
40	20	1	Spare
42	20	1	Spare
44	--	1	Provisions
46	--	1	Provisions
48	--	1	Provisions
50	--	1	Provisions
52	--	1	Provisions
54	--	1	Provisions
56	--	1	Provisions
58	--	1	Provisions
60	--	1	Provisions
62	--	1	Provisions
64	--	1	Provisions
66	--	1	Provisions
68	--	1	Provisions
70	--	1	Provisions
72	--	1	Provisions

Panel "HD1", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
225A MCB, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HD1" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	100	3	Transformer "THD1" & Panel "LD1"
3	--	-	Transformer "THD1" & Panel "LD1"
5	--	-	Transformer "THD1" & Panel "LD1"
B 7	20	1	Lights
9	20	1	Spare
11	20	1	Spare
13	20	1	Spare
15	20	1	Spare
17	20	1	Spare
19	20	1	Spare
21	20	1	Spare
23	--	1	Provisions
25	--	1	Provisions
27	--	1	Provisions
29	--	1	Provisions
B 2	70	1	Emergency Power Inverter "INVD1"
B 4	20	1	"LCP-HD1" Power
6	20	1	Spare
8	20	1	Spare
10	20	1	Spare
12	20	1	Spare
14	20	1	Spare
16	20	1	Spare
18	20	1	Spare
20	--	1	Provisions
22	--	1	Provisions
24	--	1	Provisions
26	--	1	Provisions
28	--	1	Provisions
30	--	1	Provisions

Panel "HD2", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
225A MLO, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HD2" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	100	3	Transformer "THD2" & Panel "LD2"
3	--	-	Transformer "THD2" & Panel "LD2"
5	--	-	Transformer "THD2" & Panel "LD2"
B 7	20	1	Lights
C ^ 9	20	1	Flagpole Lights
11	20	1	Spare
13	20	1	Spare
15	20	1	Spare
17	20	1	Spare
19	20	1	Spare
21	20	1	Spare
23	20	1	Spare
25	--	1	Provisions
27	--	1	Provisions
29	--	1	Provisions
31	--	1	Provisions
33	--	1	Provisions
35	--	1	Provisions
37	--	1	Provisions
39	--	1	Provisions
41	--	1	Provisions
C ^ 2	20	1	Exterior Lights 1/2", 2#10 & 1#10EG
B ^ 4	20	1	Lighting
B 6	20	1	"LCP-HD2" Power
A ? 8	50	3	Heat Recover Unit (HR-P) 1", 4#8 & 1#10EG
A ? 10	--	-	Heat Recover Unit (HR-P) 1", 4#8 & 1#10EG
A ? 12	--	-	Heat Recover Unit (HR-P) 1", 4#8 & 1#10EG
14	20	1	Spare
16	20	1	Spare
18	20	1	Spare
20	20	1	Spare
22	20	1	Spare
24	20	1	Spare
26	20	1	Spare
28	--	1	Provisions
30	--	1	Provisions
32	--	1	Provisions
34	--	1	Provisions
36	--	1	Provisions
38	--	1	Provisions
40	--	1	Provisions
42	--	1	Provisions

Panel "HE1", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
225A MLO, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HE1" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	175	3	Xfmr "TLE1" & Panel "LE1"
3	-	-	Xfmr "TLE1" & Panel "LE1"
5	-	-	Xfmr "TLE1" & Panel "LE1"
B 7	20	1	Lights
9	20	1	Spare
11	20	1	Spare
13	20	1	Spare
15	20	1	Spare
17	20	1	Spare
19	--	1	Provisions
21	--	1	Provisions
23	--	1	Provisions
25	--	1	Provisions
27	--	1	Provisions
29	--	1	Provisions
B 2	70	1	Emergency-Power Inverter "INVE1"
B 4	20	1	"LCP-HE1" Power
B 6	20	1	Lights
8	20	1	Spare
10	20	1	Spare
12	20	1	Spare
14	20	1	Spare
16	20	1	Spare
18	--	1	Provisions
20	--	1	Provisions
22	--	1	Provisions
24	--	1	Provisions
26	--	1	Provisions
28	--	1	Provisions
30	--	1	Provisions

Panel "HF2", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
400A MLO, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HF2" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	100	3	Transformer "TLF2" & Panel "LF2"
3	-	-	Transformer "TLF2" & Panel "LF2"
5	-	-	Transformer "TLF2" & Panel "LF2"
B 7	20	1	"LCP-HF2" Power
B 9	20	1	Lights
A ? 11	45	3	Heat Pump Unit (HP-9) 1", 4#8 & 1#10EG
A ? 13	--	-	Heat Pump Unit (HP-9) 1", 4#8 & 1#10EG
A ? 15	--	-	Heat Pump Unit (HP-9) 1", 4#8 & 1#10EG
A ? 17	35	3	Heat Recovery Unit (HR-F) 1-1/4", 4#6 & 1#10EG
A ? 19	--	-	Heat Recovery Unit (HR-F) 1-1/4", 4#6 & 1#10EG
A ? 21	--	-	Heat Recovery Unit (HR-F) 1-1/4", 4#6 & 1#10EG
A ? 23	30	3	Makeup Air Handling Unit (MAU-8) 1", 4#8 & 1#10EG
A ? 25	--	-	Makeup Air Handling Unit (MAU-8) 1", 4#8 & 1#10EG
A ? 27	--	-	Makeup Air Handling Unit (MAU-8) 1", 4#8 & 1#10EG
29	--	1	Provisions
31	--	1	Provisions
33	--	1	Provisions
35	--	1	Provisions
37	--	1	Provisions
39	--	1	Provisions
41	--	1	Provisions
B 2	20	1	Lights
B 4	20	1	Lights 1/2", 2#10 & 1#10EG
B 6	20	1	Lights
C ^ 8	20	1	Exterior Lights 1/2", 2#10 & 1#10EG
A ? 10	35	3	Heat Recovery Unit (HR-G) 1-1/4", 4#6 & 1#10EG
A ? 12	--	-	Heat Recovery Unit (HR-G) 1-1/4", 4#6 & 1#10EG
A ? 14	--	-	Heat Recovery Unit (HR-G) 1-1/4", 4#6 & 1#10EG
A ? 16	30	3	Makeup Air Handling Unit (MAU-9) 1", 4#8 & 1#10EG
A ? 18	--	-	Makeup Air Handling Unit (MAU-9) 1", 4#8 & 1#10EG
A ? 20	--	-	Makeup Air Handling Unit (MAU-9) 1", 4#8 & 1#10EG
A ? 22	45	3	Heat Pump Unit (HP-8) 1", 4#8 & 1#10EG
A ? 24	--	-	Heat Pump Unit (HP-8) 1", 4#8 & 1#10EG
A ? 26	--	-	Heat Pump Unit (HP-8) 1", 4#8 & 1#10EG
28	--	1	Provisions
30	--	1	Provisions
32	--	1	Provisions
34	--	1	Provisions
36	--	1	Provisions
38	--	1	Provisions
40	--	1	Provisions
42	--	1	Provisions

Panel "HH3", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
225A MLO, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HG2" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	60	3	Transformer "TLG3" & Panel "LG3"
3	-	-	Transformer "TLG3" & Panel "LG3"
5	-	-	Transformer "TLG3" & Panel "LG3"
B 7	20	1	Night Lights
B 9	20	1	Lights
11	20	1	Spare
13	20	1	Spare
15	20	1	Spare
17	20	1	Spare
19	20	1	Spare
21	20	1	Spare
23	20	1	Spare
25	--	1	Provisions
27	--	1	Provisions
29	--	1	Provisions
31	--	1	Provisions
33	--	1	Provisions
35	--	1	Provisions
37	--	1	Provisions
39	--	1	Provisions
41	--	1	Provisions
B 2	20	1	"LCP-HG3" Power
B 4	20	1	Lights
B 6	20	1	Lights
B 8	20	1	Night Lights
C ^ 10	20	1	Exterior Lights
12	20	1	Spare
14	20	1	Spare
16	20	1	Spare
18	20	1	Spare
20	20	1	Spare
22	20	1	Spare
24	20	1	Spare
26	--	1	Provisions
28	--	1	Provisions
30	--	1	Provisions
32	--	1	Provisions
34	--	1	Provisions
36	--	1	Provisions
38	--	1	Provisions
40	--	1	Provisions
42	--	1	Provisions

Panel "HG1", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
400A MLO, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-LG1" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	250	3	Transformer "TLG1" & Panel "LG1"
3	-	-	Transformer "TLG1" & Panel "LG1"
5	-	-	Transformer "TLG1" & Panel "LG1"
A ? 7	35	3	Heat Recovery Unit (HR-N) 1", 4#8 & 1#10EG
A ? 9	--	-	Heat Recovery Unit (HR-N) 1", 4#8 & 1#10EG
A ? 11	--	-	Heat Recovery Unit (HR-N) 1", 4#8 & 1#10EG
A ? 13	45	3	Heat Pump Unit (HP-15) 1", 4#8 & 1#10EG
A ? 15	--	-	Heat Pump Unit (HP-15) 1", 4#8 & 1#10EG
A ? 17	--	-	Heat Pump Unit (HP-15) 1", 4#8 & 1#10EG
A ? 19	30	3	Makeup Air Handling Unit (MAU-15) 3/4", 4#10 & 1#10EG
A ? 21	--	-	Makeup Air Handling Unit (MAU-15) 3/4", 4#10 & 1#10EG
A ? 23	--	-	Makeup Air Handling Unit (MAU-15) 3/4", 4#10 & 1#10EG
A ? 25	35	3	Heat Recovery Unit (HR-L) 1", 4#8 & 1#10EG
A ? 27	--	-	Heat Recovery Unit (HR-L) 1", 4#8 & 1#10EG
A ? 29	--	-	Heat Recovery Unit (HR-L) 1", 4#8 & 1#10EG
A ? 31	30	3	Makeup Air Handling Unit (MAU-13) 3/4", 4#10 & 1#10EG
A ? 33	--	-	Makeup Air Handling Unit (MAU-13) 3/4", 4#10 & 1#10EG
A ? 35	--	-	Makeup Air Handling Unit (MAU-13) 3/4", 4#10 & 1#10EG
A ? 37	45	3	Heat Pump Unit (HP-14) 1", 4#8 & 1#10EG
A ? 39	--	-	Heat Pump Unit (HP-14) 1", 4#8 & 1#10EG
A ? 41	--	-	Heat Pump Unit (HP-14) 1", 4#8 & 1#10EG
B 43	20	1	Lights
45	20	1	Spare
47	20	1	Spare
49	20	1	Spare
51	20	1	Spare
53	20	1	Spare
55	20	1	Spare
57	20	1	Spare
59	--	1	Provisions
61	--	1	Provisions
63	--	1	Provisions
65	--	1	Provisions
67	--	1	Provisions
69	--	1	Provisions
71	--	1	Provisions
B 2	20	1	"LCP-HG1"
B 4	70	1	Emergency Power-Inverter "INVG1"
B 6	20	1	Lights
A ? 8	35	3	Heat Recovery Unit (HR-M) 1", 4#8 & 1#10EG
A ? 10	--	-	Heat Recovery Unit (HR-M) 1", 4#8 & 1#10EG
A ? 12	--	-	Heat Recovery Unit (HR-M) 1", 4#8 & 1#10EG
A ? 14	45	3	Heat Pump Unit (HP-14) 1", 4#8 & 1#10EG
A ? 16	--	-	Heat Pump Unit (HP-14) 1", 4#8 & 1#10EG
A ? 18	--	-	Heat Pump Unit (HP-14) 1", 4#8 & 1#10EG
A ? 20	30	3	Makeup Air Handling Unit (MAU-14) 3/4", 4#10 & 1#10EG
A ? 22	--	-	Makeup Air Handling Unit (MAU-14) 3/4", 4#10 & 1#10EG
A ? 24	--	-	Makeup Air Handling Unit (MAU-14) 3/4", 4#10 & 1#10EG
A ? 26	45	3	Heat Pump Unit (HP-13) 1", 4#8 & 1#10EG
A ? 28	--	-	Heat Pump Unit (HP-13) 1", 4#8 & 1#10EG
A ? 30	--	-	Heat Pump Unit (HP-13) 1", 4#8 & 1#10EG
A ? 32	35	3	Heat Recovery Unit (HR-K) 1", 4#8 & 1#10EG
A ? 34	--	-	Heat Recovery Unit (HR-K) 1", 4#8 & 1#10EG
A ? 36	--	-	Heat Recovery Unit (HR-K) 1", 4#8 & 1#10EG
A ? 38	30	3	Makeup Air Handling Unit (MAU-12) 3/4", 4#10 & 1#10EG
A ? 40	--	-	Makeup Air Handling Unit (MAU-12) 3/4", 4#10 & 1#10EG
A ? 42	--	-	Makeup Air Handling Unit (MAU-12) 3/4", 4#10 & 1#10EG
B 44	20	1	Lights
46	20	1	Spare
48	20	1	Spare
50	20	1	Spare
52	20	1	Spare
54	20	1	Spare
56	20	1	Spare
58	20	1	Spare
60	--	1	Provisions
62	--	1	Provisions
64	--	1	Provisions
66	--	1	Provisions
68	--	1	Provisions
70	--	1	Provisions
72	--	1	Provisions

Panel "HH1", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
400A MLO, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HH1" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	175	3	Transformer "TLH1" & Panel "LH1"
3	-	-	Transformer "TLH1" & Panel "LH1"
5	-	-	Transformer "TLH1" & Panel "LH1"
B 7	70	1	Emergency Power-Inverter "INVH1"
A ? 9	45	3	Heat Pump Unit (HP-11) 1", 4#8 & 1#10EG
A ? 11	--	-	Heat Pump Unit (HP-11) 1", 4#8 & 1#10EG
A ? 13	--	-	Heat Pump Unit (HP-11) 1", 4#8 & 1#10EG
27	20	1	Spare
29	20	1	Spare
31	20	1	Spare
33	20	1	Spare
35	20	1	Spare
37	20	1	Spare
39	20	1	Spare
41	20	1	Spare
43	--	1	Provisions
45	--	1	Provisions
47	--	1	Provisions
49	--	1	Provisions
51	--	1	Provisions
53	--	1	Provisions
55	--	1	Provisions
57	--	1	Provisions
59	--	1	Provisions
B 2	20	1	Lights
B 4	20	1	Lights
B 6	20	1	"LCP-HH1" Power
A ? 8	30	3	Heat Pump Unit (HP-J) 1", 4#8 & 1#10EG
A ? 10	--	-	Heat Pump Unit (HP-J) 1", 4#8 & 1#10EG
A ? 12	--	-	Heat Pump Unit (HP-J) 1", 4#8 & 1#10EG
A ? 14	30	3	Makeup Air Handling Unit (MAU-11) 1", 4#8 & 1#10EG
A ? 16	--	-	Makeup Air Handling Unit (MAU-11) 1", 4#8 & 1#10EG
A ? 18	--	-	Makeup Air Handling Unit (MAU-11) 1", 4#8 & 1#10EG
20	20	1	Spare
22	20	1	Spare
24	20	1	Spare
26	20	1	Spare
28	20	1	Spare
30	20	1	Spare
32	20	1	Spare
34	20	1	Spare
36	--	1	Provisions
38	--	1	Provisions
40	--	1	Provisions
42	--	1	Provisions

Panel "HH2", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
225A MLO, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HH2" & Shunt-Trip-Type Circuit Breaker
? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS
1	60	3	Transformer "TLH2" & Panel "LH2"
3	-	-	Transformer "TLH2" & Panel "LH2"
5	-	-	Transformer "TLH2" & Panel "LH2"
B 7	20	1	Lights
C ^ 9	20	1	Perimeter Pole-Mounted Lights
C ^ 11	20	1	Exterior Lights
A ? 13	45	3	Heat Pump Unit (HP-10) 1", 4#8 & 1#10EG
A ? 15	--	-	Heat Pump Unit (HP-10) 1", 4#8 & 1#10EG
17	20	1	Spare
F ? 19	30	3	Sewer Pump Station 1", 3#8 & 1#10EG
F ? 21	-	-	Sewer Pump Station 1", 3#8 & 1#10EG
F ? 23	-	-	Sewer Pump Station 1", 3#8 & 1#10EG
25	20	1	Spare
27	20	1	Spare
29	20	1	Spare
31	20	1	Spare
33	20	1	Spare
35	--	1	Provisions
37	--	1	Provisions
39	--	1	Provisions
41	--	1	Provisions
B ^ 2	20	1	Lights
B 4	20	1	Lights
B 6	20	1	Night Lights
B 8	20	1	Night Lights
B 10	20	1	"LCP-HH2" Power
A ? 12	50	3	Heat Recovery Unit (HR-H) 1", 4#8 & 1#10EG
A ? 14	--	-	Heat Recovery Unit (HR-H) 1", 4#8 & 1#10EG
A ? 16	--	-	Heat Recovery Unit (HR-H) 1", 4#8 & 1#10EG
A ? 18	30	3	Makeup Air Handling Unit (MAU-10) 1", 4#8 & 1#10EG
A ? 20	--	-	Makeup Air Handling Unit (MAU-10) 1", 4#8 & 1#10EG
A ? 22	--	-	Makeup Air Handling Unit (MAU-10) 1", 4#8 & 1#10EG
24	20	1	Spare
26	20	1	Spare
28	20	1	Spare
30	20	1	Spare
32	--	1	Provisions
34	--	1	Provisions
36	--	1	Provisions
38	--	1	Provisions
40	--	1	Provisions
42	--	1	Provisions

Panel "HM3", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
150A MCB, 35,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HM3"
? Verify exact electrical requirements in advance.

CKT NO.	AMPS	PL	REMARKS
1	100	3	Transformer "TLM3" & Panel "LM3"
3	-	-	Transformer "TLM3" & Panel "LM3"
5	-	-	Transformer "TLM3" & Panel "LM3"
B 7	20	1	LCP-HM3 Power
A ? 9	50	3	Heat Recovery Unit (HR-Q) 1", 4#8 & 1#10EG
A ? 11	--	-	Heat Recovery Unit (HR-Q) 1", 4#8 & 1#10EG
A ? 13	--	-	Heat Recovery Unit (HR-Q) 1", 4#8 & 1#10EG
A ? 15	15	3	Ceiling Fan
A ? 17	-	-	Ceiling Fan
A ? 19	-	-	Ceiling Fan
A ? 21	15	3	Ceiling Fan
A ? 23	-	-	Ceiling Fan
A ? 25	-	-	Ceiling Fan
27	20	1	Spare
29	20	1	Spare
31	20	1	Spare
33	20	1	Spare
35	20	1	Spare
37	20	1	Spare
39	--	1	Provisions
41	--	1	Provisions
A ? 2	15	3	Ceiling Fan
A ? 4	-	-	Ceiling Fan
A ? 6	-	-	Ceiling Fan
B 8	30	1	Emergency Power-Inverter Power "INVM3"
A ? 10	15	3	Ceiling Fan
A ? 12	-	-	Ceiling Fan
A ? 14	-	-	Ceiling Fan
B 16	20	1	Lights
C ^ 18	20	1	Exterior Lights
20	20	1	Spare
22	20	1	Spare
24	20	1	Spare
26	20	1	Spare
28	20	1	Spare
30	20	1	Spare
32	--	1	Provisions
34	--	1	Provisions
36	--	1	Provisions
38	--	1	Provisions
40	--	1	Provisions
42	--	1	Provisions

Emergency Power Inverter System "INVA1", 12.5kVA/12.5kW,
277V, 1-Phase, 2-Wire (Plus Equipment Ground) Input;
277V, 1-Phase, 2-Wire (Plus Equipment Ground) Output;
Solid Neutral, 60A/1P Input MCB, 10000 A.I.C.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HA1"

CKT NO.	AMPS	PL	REMARKS
1	20	1	Lights
3	20	1	Spare
5	20	1	Spare
7	20	1	Spare
9	20	1	Spare
11	20	1	Exterior Emergency Lights 1/2", 2#10 & 1#10EG
13	20	1	Spare
15	20	1	Spare
17	20	1	Spare

Emergency Power Inverter System "INVB1", 12.5kVA/12.5kW,
277V, 1-Phase, 2-Wire (Plus Equipment Ground) Input;
277V, 1-Phase, 2-Wire (Plus Equipment Ground) Output;
Solid Neutral, 60A/1P Input MCB, 10000 A.I.C.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HB1"

CKT NO.	AMPS	PL	REMARKS
^ 1	20	1	Emergency Lights
3	20	1	Spare
5	20	1	Spare
7	20	1	Spare
2	20	1	Emergency Lights
4	20	1	Spare
6	20	1	Spare
8	20	1	Spare

Emergency Power Inverter System "INVC1", 12.5kVA/12.5kW,
277V, 1-Phase, 2-Wire (Plus Equipment Ground) Input;
277V, 1-Phase, 2-Wire (Plus Equipment Ground) Output;
Solid Neutral, 60A/1P Input MCB, 10000 A.I.C.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HC1"

CKT NO.	AMPS	PL	REMARKS
^ 1	20	1	Emergency Lights
^ 3	20	1	Emergency Lights
^ 5	20	1	Emergency Lights
7	20	1	Spare
9	20	1	Spare
11	20	1	Spare
2	20	1	Emergency Lights
^ 4	20	1	Emergency Lights 1/2", 2#10 & 1#10EG
^ 6	20	1	Exterior Emergency Lights
8	20	1	Spare
10	20	1	Spare
12	20	1	Spare

Emergency Power Inverter System "INVD1", 12.5kVA/12.5kW,
277V, 1-Phase, 2-Wire (Plus Equipment Ground) Input;
277V, 1-Phase, 2-Wire (Plus Equipment Ground) Output;
Solid Neutral, 60A/1P Input MCB, 10000 A.I.C.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HD1"

CKT NO.	AMPS	PL	REMARKS
1	20	1	Emergency Lights
^ 3	20	1	Emergency Lights
5	20	1	Spare
7	20	1	Spare
^ 2	20	1	Exterior Emergency Lights
4	20	1	Spare
6	20	1	Spare
8	20	1	Spare

Emergency Power Inverter System "INVE1", 12.5kVA/12.5kW,
277V, 1-Phase, 2-Wire (Plus Equipment Ground) Input;
277V, 1-Phase, 2-Wire (Plus Equipment Ground) Output;
Solid Neutral, 60A/1P Input MCB, 10000 A.I.C.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HE1"

CKT NO.	AMPS	PL	REMARKS
1	20	1	Emergency Lights
^ 3	20	1	Emergency Lights
5	20	1	Spare
7	20	1	Spare
2	20	1	Emergency Lights
^ 4	20	1	Exterior Emergency Lights
6	20	1	Spare
8	20	1	Spare

Emergency Power Inverter System "INVG1", 12.5kVA/12.5kW,
277V, 1-Phase, 2-Wire (Plus Equipment Ground) Input;
277V, 1-Phase, 2-Wire (Plus Equipment Ground) Output;
Solid Neutral, 60A/1P Input MCB, 10000 A.I.C.

^ Through a 20A/1P control relay in Lighting Control Panel "LCP-HG1"

CKT NO.	AMPS	PL	REMARKS
1	20	1	Emergency Lights
^ 3	20	1	Emergency

Panel "LA1", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral,
300A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	3	20	1	Television(s) Power	1/2", 2#10 & 1#10EG
D	5	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
	7	20	1	Spare	
	9	20	1	Spare	
E	11	20	1	Smoke Dampers	
F	13	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
F	# 15	20	1	Electric Bottle Filler (BF-1)	
E	17	20	1	Emergency-Generation-System Main Control Panel	
F	19	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	21	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
	23	20	1	Spare	
	25	20	1	Spare	
	27	20	1	Spare	
	29	20	1	Spare	
	31	--	1	Provisions	
	33	--	1	Provisions	
	35	--	1	Provisions	
	37	--	1	Provisions	
	39	--	1	Provisions	
	41	--	1	Provisions	
D	2	20	1	Receptacles	1/2", 2#10 & 1#10EG
H	# 4	20	1	Electric Water Cooler	1/2", 2#10 & 1#10EG
D	6	20	1	Receptacles	1/2", 2#10 & 1#10EG
A	? 8	20	1	Energy Management System (EMS)	
	10	20	1	Spare	
	12	20	1	Spare	
A	? 14	20	1	DAIKIN Heat Pump System Controller	1/2", 2#10 & 1#10EG
E	16	175	3	Panel "LQY1"	
F	18	--	-	Panel "LQY1"	
F	20	--	-	Panel "LQY1"	
	22	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
	24	20	1	Spare	
	26	20	1	Spare	
	28	20	1	Spare	
	30	20	1	Spare	
	32	--	1	Provisions	
	34	--	1	Provisions	
	36	--	1	Provisions	
	38	--	1	Provisions	
	40	--	1	Provisions	
	42	--	1	Provisions	

Panel "LA2", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral,
110A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	1/2", 2#10 & 1#10EG
F	3	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
	5	20	1	Spare	
A	7	20	1	Exhaust Fans (EF-26,27,28,29,30)	1/2", 2#10 & 1#10EG
D	9	20	1	Roof-Mounted Receptacle	1/2", 2#10 & 1#10EG
F	? 11	20	1	Instantaneous Water Heaters (WH-7A,7B,7C)	1/2", 2#10 & 1#10EG
A	? 13	20	2	Fan Coil Units (FCE-1,2,3,4,5)	1/2", 2#10 & 1#10EG
A	? 15	-	-	Fan Coil Units (FCE-1,2,3,4,5)	1/2", 2#10 & 1#10EG
	17	20	1	Spare	
	19	20	1	Spare	
	21	20	1	Spare	
	23	20	1	Spare	
	25	20	1	Spare	
	27	--	1	Provisions	
	29	--	1	Provisions	
	31	--	1	Provisions	
	33	--	1	Provisions	
	35	--	1	Provisions	
	37	--	1	Provisions	
	39	--	1	Provisions	
	41	--	1	Provisions	
F	2	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
	4	20	1	Spare	
A	6	20	1	Energy Management System (EMS)	1/2", 2#10 & 1#10EG
A	8	20	1	HVAC Temperature Controls	1/2", 2#10 & 1#10EG
A	? 10	20	1	DAIKIN Heat Pump System Controller	1/2", 2#10 & 1#10EG
A	? 12	20	2	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
A	? 14	--	-	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
F	? 16	20	1	H.W. Circulating Pumps (CP-7A,7B)	
	18	20	1	Spare	
	20	20	1	Spare	
	22	20	1	Spare	
	24	20	1	Spare	
	26	20	1	Spare	
	28	--	1	Provisions	
	30	--	1	Provisions	
	32	--	1	Provisions	
	34	--	1	Provisions	
	36	--	1	Provisions	
	38	--	1	Provisions	
	40	--	1	Provisions	
	42	--	1	Provisions	

Panel "LA3", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral,
175A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	1/2", 2#10 & 1#10EG
A	? 3	20	2	Fan Coil Units (FCD-1,2,3,4,5,6,9,10)	1", 3#8 & 1#10EG
A	? 5	-	-	Fan Coil Units (FCD-1,2,3,4,5,6,9,10)	1", 3#8 & 1#10EG
F	? 7	40	3	Commercial Washing Machine	1-1/4", 4#6 & 1#8EG
F	? 9	-	-	Commercial Washing Machine	1-1/4", 4#6 & 1#8EG
F	? 11	-	-	Commercial Washing Machine	1-1/4", 4#6 & 1#8EG
	13	20	1	Spare	
	15	20	1	Spare	
	17	20	1	Spare	
	19	20	1	Spare	
	21	20	1	Spare	
	23	20	1	Spare	
	25	20	1	Spare	
	27	--	1	Provisions	
	29	--	1	Provisions	
	31	--	1	Provisions	
	33	--	1	Provisions	
	35	--	1	Provisions	
	37	--	1	Provisions	
	39	--	1	Provisions	
	41	--	1	Provisions	
D	# 2	20	1	Exterior Receptacles	
A	? 4	20	2	Fan Coil Units (FCD-7,8,11-17)	1", 3#8 & 1#10EG
A	? 6	--	-	Fan Coil Units (FCD-7,8,11-17)	1", 3#8 & 1#10EG
F	? 8	40	3	Commercial Washing Machine	1-1/4", 4#6 & 1#8EG
F	? 10	-	-	Commercial Washing Machine	1-1/4", 4#6 & 1#8EG
F	? 12	-	-	Commercial Washing Machine	1-1/4", 4#6 & 1#8EG
	14	20	1	Spare	
	16	20	1	Spare	
	18	20	1	Spare	
	20	20	1	Spare	
	22	20	1	Spare	
	24	20	1	Spare	
	26	20	1	Spare	
	28	--	1	Provisions	
	30	--	1	Provisions	
	32	--	1	Provisions	
	34	--	1	Provisions	
	36	--	1	Provisions	
	38	--	1	Provisions	
	40	--	1	Provisions	
	42	--	1	Provisions	

Panel "LB1", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral,
175A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	1/2", 2#10 & 1#10EG
E	3	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
E	5	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
E	7	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
E	9	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
E	11	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
F	? 13	30	2	Data Rack Power	1", 3#8 & 1#10EG
F	? 15	-	-	Data Rack Power	1", 3#8 & 1#10EG
F	? 17	30	2	Data Rack Power	1", 3#8 & 1#10EG
F	? 19	-	-	Data Rack Power	1", 3#8 & 1#10EG
F	21	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	23	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	25	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
	27	20	1	Spare	
	29	20	1	Spare	
	31	20	1	Spare	
	33	20	1	Spare	
	35	20	1	Spare	
	37	--	1	Provisions	
	39	--	1	Provisions	
	41	--	1	Provisions	
	43	--	1	Provisions	
	45	--	1	Provisions	
	47	--	1	Provisions	
	49	--	1	Provisions	
	51	--	1	Provisions	
	53	--	1	Provisions	
	55	--	1	Provisions	
	57	--	1	Provisions	
	59	--	1	Provisions	
	61	--	1	Provisions	
	63	--	1	Provisions	
	65	--	1	Provisions	
	67	--	1	Provisions	
	69	--	1	Provisions	
	71	--	1	Provisions	
	73	--	1	Provisions	
	75	--	1	Provisions	
	77	--	1	Provisions	
	79	--	1	Provisions	
	81	--	1	Provisions	
	83	--	1	Provisions	
	85	--	1	Provisions	
	87	--	1	Provisions	
	89	--	1	Provisions	
	91	--	1	Provisions	
	93	--	1	Provisions	
	95	--	1	Provisions	
	97	--	1	Provisions	
	99	--	1	Provisions	
	101	--	1	Provisions	
	103	--	1	Provisions	
	105	--	1	Provisions	
	107	--	1	Provisions	
	109	--	1	Provisions	
	111	--	1	Provisions	
	113	--	1	Provisions	
	115	--	1	Provisions	
	117	--	1	Provisions	
	119	--	1	Provisions	
	121	--	1	Provisions	
	123	--	1	Provisions	
	125	--	1	Provisions	

Panel "LB3", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral,
600A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD2.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	
D	3	20	1	Smartboard(s) Power	
D	5	20	1	Receptacles	
D	7	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	9	20	1	Smartboard(s) Power	1/2", 2#10 & 1#10EG
D	11	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	13	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	15	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	17	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	19	20	1	Smartboard(s) Power	1/2", 2#10 & 1#10EG
D	21	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	23	20	1	Smartboard(s) Power	1/2", 2#10 & 1#10EG
D	25	20	1	Receptacles	1/2", 2#10 & 1#10EG
T	27	20	1	Copier Power	1/2", 2#10 & 1#10EG
F	# 29	20	1	Coffee Maker Power	1/2", 2#10 & 1#10EG
F	# 31	20	1	Refigerator Power	1/2", 2#10 & 1#10EG
F	# 33	20	1	Break Room Counter Receptacles	1/2", 2#10 & 1#10EG
D	35	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	37	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	39	20	1	Smartboard(s) Power	1/2", 2#10 & 1#10EG
D	41	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	43	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
A	? 45	20	1	Cosmicology Equipment	1/2", 2#10 & 1#10EG
F	47	20	1	Tool Room Quadruplex	1/2", 2#10 & 1#10EG
F	49	20	1	Tool Room Quadruplex	1/2", 2#10 & 1#10EG
F	51	20	1	Tool Room Quadruplex	1/2", 2#10 & 1#10EG
F	53	20	1	Grinder/Buffer Power	1/2", 2#10 & 1#10EG
F	55	20	1	Chop Saw Power	
A	57	20	1	Energy Management System (EMS)	
A	? 59	20	2	Fan Coil Units (FCC-6,10-17)	1/2", 3#10 & 1#10EG
A	? 61	-	-	Fan Coil Units (FCC-6,10-17)	1/2", 3#10 & 1#10EG
F	63	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
A	? 65	20	1	DAIKIN Heat Pump System Controller	1/2", 2#10 & 1#10EG
F	? 67	20	1	Instantaneous Water Heaters (WH-5A,8B,8C)	1/2", 2#10 & 1#10EG
F	69	20	1	Welding Shop Power Cord Reel/Receptacle	1/2", 2#10 & 1#10EG
F	71	20	1	Welding Shop Power Cord Reel/Receptacle	
F	? 73	100	2	200 TIG Welder or 250 Welder on Column	1-1/4", 3#2 & 1#6EG
F	? 75	-	-	200 TIG Welder or 250 Welder on Column	1-1/4", 3#2 & 1#6EG
F	77	20	1	Duplex Receptacle on Column	1/2", 2#10 & 1#10EG
F	? 79	150	2	Shopmaster CC/CV Welder	2-1/2", 4#2/0 & 1#6EG
F	? 81	-	-	Shopmaster CC/CV Welder	2-1/2", 4#2/0 & 1#6EG
F	? 83	100	2	200 Tig Welder	1-1/4", 3#2 & 1#6EG
F	? 85	-	-	200 Tig Welder	1-1/4", 3#2 & 1#6EG
F	87	20	1	Welding Shop Receptacles	1/2", 2#10 & 1#10EG
F	? 89	70	3	Air Compressor	1-1/4", 4#3 & 1#8EG
F	? 91	-	-	Air Compressor	1-1/4", 4#3 & 1#8EG
F	? 93	-	-	Air Compressor	1-1/4", 4#3 & 1#8EG
F	? 95	20	1	Welding Booth Integral GFCI Receptacle	
F	? 97	20	1	Welding Booth Fan Motor & Light	
	99	20	1	Spare	
	101	20	1	Spare	
	103	20	1	Spare	
	105	20	1	Spare	
	107	20	1	Spare	
	109	20	1	Spare	
	111	20	1	Spare	
	113	20	1	Spare	
	115	20	1	Spare	
	117	--	1	Provisions	
	119	--	1	Provisions	
	121	--	1	Provisions	
	123	--	1	Provisions	
	125	--	1	Provisions	
D	2	20	1	Smartboard(s) Power	
D	4	20	1	Computer Receptacles	
D	6	20	1	Computer Receptacles	
D	8	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	10	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	12	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	14	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	16	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	18	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	20	20	1	Smartboard(s) Power	1/2", 2#10 & 1#10EG
D	22	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	24	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	26	20	1	Receptacles	1/2", 2#10 & 1#10EG
F	# 28	20	1	Microwave Power	1/2", 2#10 & 1#10EG
F	# 30	20	1	Microwave Power	1/2", 2#10 & 1#10EG
F	# 32	20	1	Electric Water Cooler	1/2", 2#10 & 1#10EG
D	34	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	36	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	38	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	40	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	42	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	44	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	46	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	48	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	50	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
F	52	20	1	Tool Room Quadruplex	1/2", 2#10 & 1#10EG
F	# 54	20	1	Exterior Receptacles	1/2", 2#10 & 1#10EG
F	56	20	1	Dry Rod Oven Power	
A	? 58	20	2	Fan Coil Units (FCC-1,2,3,4,5,7,8,9)	1/2", 3#10 & 1#10EG
A	? 60	-	-	Fan Coil Units (FCC-1,2,3,4,5,7,8,9)	1/2", 3#10 & 1#10EG
A	62	20	1	Exhaust Fans (ER-17,18,19,20,21,22,23,24,25)	1/2", 2#10 & 1#10EG
D	64	20	1	Roof-Mounted Receptacle	1/2", 2#10 & 1#10EG
F	66	20	1	H.W. Circulating Pumps (CP-8A,8B)	
F	# 68	20	1	Electric Bottle Filler (BF-1)	
F	70	20	1	Welding Shop Power Cord Reel/Receptacle	
F	72	20	1	Welding Shop Power Cord Reel/Receptacle	
F	74	150	2	Shopmaster CC/CV Welder on Column	2", 3#2/0 & 1#6EG
F	76	-	-	Shopmaster CC/CV Welder on Column	2", 3#2/0 & 1#6EG
F	? 78	100	2	250 Welder	1-1/4", 3#2 & 1#6EG
F	? 80	-	-	250 Welder	1-1/4", 3#2 & 1#6EG
F	? 82	150	2	Shopmaster CC/CV Welder	2-1/2", 4#2/0 & 1#6EG
F	? 84	-	-	Shopmaster CC/CV Welder	2-1/2", 4#2/0 & 1#6EG
F	86	20	1	Welding Shop Receptacles	1/2", 2#10 & 1#10EG
F	? 88	20	1	Welding Booth Integral GFCI Receptacle	1/2", 2#10 & 1#10EG
F	? 90	20	1	Welding Booth Fan Motor & Light	1/2", 2#10 & 1#10EG
F	? 92	20	1	Welding Booth Fan Motor & Light	1/2", 2#10 & 1#10EG
F	? 94	20	1	Welding Booth Integral GFCI Receptacle	
F	? 96	20	1	Welding Booth Integral GFCI Receptacle	
F	? 98	20	1	Welding Booth Fan Motor & Light	
	100	20	1	Spare	
	102	20	1	Spare	
	104	20	1	Spare	
	106	20	1	Spare	
	108	20	1	Spare	
	110	20	1	Spare	
	112	20	1	Spare	
	114	20	1	Spare	
	116	20	1	Spare	
	118	--	1	Provisions	
	120	--	1	Provisions	
	122	--	1	Provisions	
	124	--	1	Provisions	
	126	--	1	Provisions	

Panel "LC1", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral,
400A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	
D	3	20	1	Bio Hazard Receptacle	
D	5	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	7	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	9	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
E	? 11	20	1	Dental Chair Control Valve	
F	13	30	2	X-Ray Equipment	1/2", 3#10 & 1#10EG
F	? 15	-	-	X-Ray Equipment	1/2", 3#10 & 1#10EG
D	17	20	1	Receptacles	
D	19	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	21	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	23	20	1	Receptacles	
D	25	20	1	Receptacles	
D	27	20	1	Televisions	1/2", 2#10 & 1#10EG
D	29	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	31	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	33	20	1	Receptacles	
D	35	20	1	Receptacles	
F	# 37	20	1	Coffee Maker	
D	39	20	1	Receptacles	
F	41	20	1	Modular Furniture	
F	43	20	1	Modular Furniture	
F	45	20	1	Modular Furniture	
F	47	20	1	Modular Furniture	
D	# 49	20	1	Refrigerator	
D	# 51	20	1	Lab Receptacles	
D	53	20	1	Printer	
D	55	20	1	Computer Receptacles	
D	57	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	59	20	1	Quadruplex	1/2", 2#10 & 1#10EG
D	61	20	1	Receptacles	1/2", 2#10 & 1#10EG
F	63	20	1	Scanner Kiosk	1/2", 2#10 & 1#10EG
F	65	20	1	Body Scanner	1/2", 2#10 & 1#10EG
F	# 67	20	1	Electric Water Cooler	
A	? 69	15	2	Fan Coil Units (FCA-6,7,8,9,10)	
A	? 71	-	-	Fan Coil Units (FCA-6,7,8,9,10)	
A	73	15	1	Exhaust Fans (EF-1,2,3)	
A	75	15	1	Exhaust Fans (EF-4,5,6,7,34)	
A	? 77	20	1	DAIKIN Heat Pump System Controller	1/2", 2#10 & 1#10EG
F	79	20	1	H.W. Circulating Pumps (CP-2A,2B)	
F	? 81	20	1	Cold Water Remote Control Valve	
F	83	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	85	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	87	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	89	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	91	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
	93	20	1	Spare	
	95	20	1	Spare	
	97	20	1	Spare	
	99	20	1	Spare	
	101	20	1	Spare	
	103	--	1	Provisions	
	105	--	1	Provisions	
	107	--	1	Provisions	
	109	--	1	Provisions	
	111	--	1	Provisions	
	113	--	1	Provisions	
	115	--	1	Provisions	
	117	--	1	Provisions	
	119	--	1	Provisions	
	121	--	1	Provisions	
	123	--	1	Provisions	
	125	--	1	Provisions	
D	2	20	1	Receptacles	
D	4	20	1	Med Cart Receptacle	
D	6	20	1	Receptacles	
D	8	20	1	Copier	
D	10	20	1	Receptacles	
F	? 12	20	1	Dental Chair Air Compressor	
F	? 14	20	1	X-Ray Equipment	
F	? 16	20	1	Dental Chair Power	
D	18	20	1	Receptacles	
D	20	20	1	Receptacles	
D	22	20	1	Receptacles	
D	24	20	1	Receptacles	
D	26	20	1	Quadruplexes	
D	28	20	1	Computer Receptacles	
D	30	20	1	Computer Receptacles	
D	32	20	1	Receptacles	
D	34	20	1	Receptacles	
F	# 36	20	1	Refrigerator	
F	# 38	20	1	Microwave	
D	40	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	42	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	# 44	20	1	Break Room Receptacles	
D	46	20	1	Receptacles	
F	# 48	20	1	Refrigerator	
F	# 50	20	1	Freezer	
D	52	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	54	20	1	Printer	
D	56	20	1	Computer Receptacles	
D	58	20	1	Quadruplex	1/2", 2#10 & 1#10EG
D	60	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	62	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	64	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
F	66	20	1	Body Scanner	1/2", 2#10 & 1#10EG
F	68	20	1	Body Scanner	1/2", 2#10 & 1#10EG
D	# 70	20	2	Fan Coil Units (FCA-1,2,3,4,5)	1/2", 3#10 & 1#10EG
A	? 70	--	-	Fan Coil Units (FCA-1,2,3,4,5)	1/2", 3#10 & 1#10EG
A	? 72	15	2	Fan Coil Units (FCB-1 thru FCB-21)	
A	? 74	--	-	Fan Coil Units (FCB-1 thru FCB-21)	
A	76	20	1	Energy Management System (EMS)	
F	? 78	20	1	Instantaneous Water Heaters (WH-2A,2B,2C)	1/2", 2#10 & 1#10EG
F	# 80	20	1	Electric Bottle Filler (BF-1)	
F	82	20	1	Security Detention Door Lock Power	1", 2#8 & 1#10EG
F	84	20	1	Security Detention Door Lock Power	1", 2#10 & 1#10EG
F	86	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	88	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	90	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	92	20	1	Back Flow Preventer Heat Trace Power	1", 2#6 & 1#10EG
	94	20	1	Spare	
	96	20	1	Spare	
	98	20	1	Spare	
	100	20	1	Spare	
	102	20	1	Spare	
	104	--	1	Provisions	
	106	--	1	Provisions	
	108	--	1	Provisions	
	110	--	1	Provisions	
	112	--	1	Provisions	
	114	--	1	Provisions	
	116	--	1	Provisions	
	118	--	1	Provisions	
	120	--	1	Provisions	
	122	--	1	Provisions	
	124	--	1	Provisions	
	126	--	1	Provisions	

Panel "LC2", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral,
175A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	
D	3	20	1	TV/Computer Receptacle	
D	5	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	# 7	20	1	Exterior Receptacles	1/2", 2#10 & 1#10EG
D	9	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	11	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	13	20	1	Televisions	1/2", 2#10 & 1#10EG
D	15	20	1	Televisions	1/2", 2#10 & 1#10EG
D	17	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	19	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	21	20	1	Receptacles	1/2", 2#10 & 1#10EG
F	23	20	1	Coffee Maker	1/2", 2#10 & 1#10EG
F	25	20	1	Refrigerator	1/2", 2#10 & 1#10EG
A	? 27	15	2	Fan Coil Units (FCO-5,9)	
A	? 29	--	-	Fan Coil Units (FCO-5,9)	
A	? 31	20	1	DAIKIN Heat Pump System Controller	1/2", 2#10 & 1#10EG
	33	20	1	Spare	
	35	20	1	Spare	
	37	20	1	Spare	
	39	20	1	Spare	
	41	20	1	Spare	
	43	20	1	Spare	
	45	20	1	Spare	
	47	--	1	Provisions	
	49	--	1	Provisions	
	51	--	1	Provisions	
	53	--	1	Provisions	
	55	--	1	Provisions	
	57	--	1	Provisions	
	59	--	1	Provisions	
	61	--	1	Provisions	
	63	--	1	Provisions	
	65	--	1

Panel "LD2", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral.
175A MCB 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	3	20	1	Receptacles	
D	5	20	1	Receptacles	
D	7	20	1	Receptacles	
D	9	20	1	Computer Receptacles	
D	11	20	1	Copier Power	
F	13	20	1	Modular Furniture Power	1/2", 2#10 & 1#10EG
F	15	20	1	Modular Furniture Power	1/2", 2#10 & 1#10EG
F	17	20	1	Modular Furniture Power	1/2", 2#10 & 1#10EG
F	19	20	1	Modular Furniture Power	1/2", 2#10 & 1#10EG
D	21	20	1	Receptacles/TV Power	
D	23	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	25	20	1	Receptacles	1/2", 2#10 & 1#10EG
F	# 27	20	1	Refrigerator	1/2", 2#10 & 1#10EG
D	29	20	1	Microwave	1/2", 2#10 & 1#10EG
D	31	20	1	Receptacle	1/2", 2#10 & 1#10EG
D	# 33	20	1	Exterior Receptacles	1/2", 2#10 & 1#10EG
A	33	15	1	Exhaust Fans (EF-13,14)	
	37	20	1	Spare	
	39	20	1	Spare	
	41	20	1	Spare	
	43	20	1	Spare	
	45	20	1	Spare	
	47	20	1	Spare	
	49	20	1	Spare	
	51	--	1	Provisions	
	53	--	1	Provisions	
	55	--	1	Provisions	
	57	--	1	Provisions	
	59	--	1	Provisions	
	61	--	1	Provisions	
	63	--	1	Provisions	
	65	--	1	Provisions	
	67	--	1	Provisions	
	69	--	1	Provisions	
	71	--	1	Provisions	
D	2	20	1	Receptacles	
D	4	20	1	Computer Receptacles	
D	6	20	1	Receptacles	
D	8	20	1	Receptacles	
D	10	20	1	Receptacles	
D	12	20	1	Receptacles	
D	14	20	1	Receptacles	
D	16	20	1	Receptacles	
D	18	20	1	Receptacles	
D	20	20	1	Quadruplex Receptacles	
D	22	20	1	Receptacles	
D	24	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	26	20	1	Receptacles	
F	28	20	1	Coffee Maker	1/2", 2#10 & 1#10EG
D	30	20	1	Receptacles	1/2", 2#10 & 1#10EG
F	# 32	20	1	Electric Water Cooler	
A	? 34	20	2	Fan Coil Units (FCP-1A,1B,2-21)	
A	? 36	--	-	Fan Coil Units (FCP-1A,1B,2-21)	
	38	20	1	Spare	
	40	20	1	Spare	
	42	20	1	Spare	
	44	20	1	Spare	
	46	20	1	Spare	
	48	20	1	Spare	
	50	20	1	Spare	
	52	--	1	Provisions	
	54	--	1	Provisions	
	56	--	1	Provisions	
	58	--	1	Provisions	
	60	--	1	Provisions	
	62	--	1	Provisions	
	64	--	1	Provisions	
	66	--	1	Provisions	
	68	--	1	Provisions	
	70	--	1	Provisions	
	72	--	1	Provisions	

Panel "LE1", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral.
300A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	
F	? 3	20	1	Data Rack Equipment	
F	? 5	20	1	Data Rack Equipment	
F	? 7	20	1	Data Rack Equipment	
F	? 9	20	1	Data Rack Equipment	
F	? 11	20	1	Data Rack Equipment	
D	13	20	1	Computer Receptacles	
D	15	20	1	Television(s) Power	
D	17	20	1	Receptacles	
F	? 19	20	1	Security Electronics Equip.	
F	? 21	20	1	Security Electronics Equip.	
F	? 23	20	1	Security Electronics Equip.	
D	25	20	1	Television(s) Power	1/2", 2#10 & 1#10EG
D	27	20	1	Receptacles	1/2", 2#10 & 1#10EG
F	? 29	30	2	Data Rack Power	1/2", 3#10 & 1#10EG
F	? 31	-	-	Data Rack Power	1/2", 3#10 & 1#10EG
F	33	20	1	Energy Management System (EMS)	1/2", 2#10 & 1#10EG
	35	20	1	Spare	
	37	20	1	Spare	
F	39	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
	41	20	1	Spare	
	43	20	1	Spare	
F	45	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
F	47	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
	49	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
	51	20	1	Spare	
	53	20	1	Spare	
	55	20	1	Spare	
	57	20	1	Spare	
	59	20	1	Spare	
	61	20	1	Spare	
	63	--	1	Provisions	
	65	--	1	Provisions	
	67	--	1	Provisions	
	69	--	1	Provisions	
	71	--	1	Provisions	
D	2	20	1	Receptacles	
F	? 4	20	1	Data Rack Equipment	
F	? 6	20	1	Data Rack Equipment	
F	? 8	20	1	Data Rack Equipment	
F	? 10	20	1	Data Rack Equipment	
F	? 12	30	2	Data Rack Power	
F	? 14	-	-	Data Rack Power	
D	16	20	1	Receptacles	
F	? 18	20	1	Security Electronics Equip.	
F	? 20	20	1	Security Electronics Equip.	
F	? 22	20	1	Security Electronics Equip.	
F	? 24	30	2	UPS Power	1/2", 3#10 & 1#10EG
F	? 26	-	-	UPS Power	1/2", 3#10 & 1#10EG
D	28	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
F	? 30	30	2	Data Rack Power	1/2", 3#10 & 1#10EG
F	? 32	-	-	Data Rack Power	1/2", 3#10 & 1#10EG
	34	20	1	Spare	
	36	20	1	Spare	
F	38	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
	40	20	1	Spare	
	42	20	1	Spare	
F	44	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
F	? 46	20	1	DAIKIN Heat Pump System Controller	1/2", 2#10 & 1#10EG
F	48	20	1	Security Detention Door Lock	1/2", 2#10 & 1#10EG
	50	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
	52	20	1	Spare	
	54	20	1	Spare	
	56	20	1	Spare	
	58	20	1	Spare	
	60	20	1	Spare	
	62	20	1	Spare	
	64	--	1	Provisions	
	66	--	1	Provisions	
	68	--	1	Provisions	
	70	--	1	Provisions	
	72	--	1	Provisions	

Panel "LF2", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral.
110A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	3	20	1	Receptacles	1/2", 2#10 & 1#10EG
F	5	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
F	7	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
F	9	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
F	11	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
F	? 13	20	1	H.W. Circulating Pumps (CP-6A,6B)	
F	? 15	20	1	Instantaneous Water Heaters (WH-5A,5B,5C)	1/2", 2#10 & 1#10EG
A	? 17	15	2	Fan Coil Units (FCG-1,2)	1/2", 3#10 & 1#10EG
A	? 19	--	-	Fan Coil Units (FCG-1,2)	1/2", 3#10 & 1#10EG
A	? 21	20	2	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
A	? 23	--	-	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
	25	20	1	Spare	
	27	20	1	Spare	
	29	20	1	Spare	
	31	--	1	Provisions	
	33	--	1	Provisions	
	35	--	1	Provisions	
	37	--	1	Provisions	
	39	--	1	Provisions	
	41	--	1	Provisions	
F	2	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
F	4	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
F	6	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
F	8	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
F	10	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
F	12	20	1	Instantaneous Water Heaters (WH-6A,6B,6C)	1/2", 2#10 & 1#10EG
F	? 14	20	1	H.W. Circulating Pumps (CP-5A,5B)	
A	? 16	20	2	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
A	? 18	--	-	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
A	20	15	2	Fan Coil Unit (FCF-1)	
A	22	--	-	Fan Coil Unit (FCF-1)	
	24	20	1	Spare	
	26	20	1	Spare	
	28	20	1	Spare	
	30	--	1	Provisions	
	32	--	1	Provisions	
	34	--	1	Provisions	
	36	--	1	Provisions	
	38	--	1	Provisions	
	40	--	1	Provisions	
	42	--	1	Provisions	

Panel "LG1", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral,
400A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	
D	3	20	1	Receptacles	
E	5	20	1	Security Electronics Equip.	
E	7	20	1	Security Electronics Equip.	
E	9	20	1	Security Electronics Equip.	
F	11	30	2	UPS Power	1/2", 3#10 & 1#10EG
F	13	-	-	UPS Power	1/2", 3#10 & 1#10EG
D	15	20	1	Receptacles	
D	17	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	19	20	1	Receptacles	1/2", 2#10 & 1#10EG
A	? 21	20	2	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
A	? 23	--	-	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
A	? 25	15	2	Fan Coil Unit (FCN-1)	1/2", 2#10 & 1#10EG
A	? 27	--	-	Fan Coil Unit (FCN-1)	1/2", 2#10 & 1#10EG
E	29	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
E	31	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
A	? 33	20	2	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
A	? 35	--	-	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
A	? 37	15	2	Fan Coil Unit (FCL-1,2,3)	1/2", 2#10 & 1#10EG
A	? 39	--	-	Fan Coil Unit (FCL-1,2,3)	1/2", 2#10 & 1#10EG
E	41	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
E	43	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
A	? 45	20	1	DAIKIN Heat Pump System Controller	1/2", 2#10 & 1#10EG
D	47	20	1	Receptacles	1/2", 2#10 & 1#10EG
E	? 49	30	2	Data Rack Power	1", 3#8 & 1#10EG
E	? 51	-	-	Data Rack Power	1", 3#8 & 1#10EG
E	53	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
E	55	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
F	? 57	30	2	UPS Power	1", 3#8 & 1#10EG
F	? 59	-	-	UPS Power	1", 3#8 & 1#10EG
D	61	20	1	Receptacles	1/2", 2#10 & 1#10EG
F	63	20	1	Security Electronics Equip.	1/2", 2#10 & 1#10EG
F	65	20	1	Security Electronics Equip.	1/2", 2#10 & 1#10EG
E	67	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
F	69	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
E	71	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
D	73	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	75	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	77	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
D	79	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
	81	20	1	Spare	
	83	20	1	Spare	
	85	20	1	Spare	
	87	20	1	Spare	
	89	--	1	Provisions	
	91	--	1	Provisions	
	93	--	1	Provisions	
	95	--	1	Provisions	
	97	--	1	Provisions	
	99	--	1	Provisions	
	101	--	1	Provisions	
D	2	20	1	Receptacles	
D	4	20	1	Television(s) Power	1/2", 2#10 & 1#10EG
E	6	20	1	Security Electronics Equip.	
E	8	20	1	Security Electronics Equip.	
E	10	20	1	Security Electronics Equip.	
D	12	20	1	Television(s) Power	
D	14	20	1	Receptacles	
D	16	20	1	Receptacles	
D	18	20	1	Television(s) Power	1/2", 2#10 & 1#10EG
A	? 20	20	2	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
A	? 22	--	-	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
A	24	20	1	Energy Management System (EMS)	1/2", 2#10 & 1#10EG
A	? 26	15	2	Fan Coil Unit (FCM-1,2)	1/2", 2#10 & 1#10EG
A	? 28	--	-	Fan Coil Unit (FCM-1,2)	1/2", 2#10 & 1#10EG
E	30	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
A	? 32	20	2	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
A	? 34	--	-	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
A	36	20	1	Energy Management System (EMS)	1/2", 2#10 & 1#10EG
A	? 38	15	2	Fan Coil Unit (FCL-1,2,3)	1/2", 2#10 & 1#10EG
A	? 40	--	-	Fan Coil Unit (FCL-1,2,3)	1/2", 2#10 & 1#10EG
E	42	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
A	? 44	20	1	DAIKIN Heat Pump System Controller	1/2", 2#10 & 1#10EG
D	46	20	1	Receptacles	1/2", 2#10 & 1#10EG
E	48	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
E	50	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
E	? 52	30	2	Data Rack Power	1", 3#8 & 1#10EG
E	? 54	-	-	Data Rack Power	1", 3#8 & 1#10EG
E	56	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
D	58	20	1	Security Electronics Equip.	1/2", 2#10 & 1#10EG
D	60	20	1	Computer Receptacles	1/2", 2#10 & 1#10EG
D	62	20	1	Receptacles	1/2", 2#10 & 1#10EG
E	64	20	1	Security Electronics Equip.	1/2", 2#10 & 1#10EG
E	? 66	30	2	Data Rack Power	1", 3#8 & 1#10EG
E	? 68	-	-	Data Rack Power	1", 3#8 & 1#10EG
E	70	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
D	72	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	74	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
E	76	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
D	78	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
F	80	20	1	Security Detention Door Lock Power	
	82	20	1	Spare	
	84	20	1	Spare	
	86	20	1	Spare	
	88	--	1	Provisions	
	90	--	1	Provisions	
	92	--	1	Provisions	
	94	--	1	Provisions	
	96	--	1	Provisions	
	98	--	1	Provisions	
	100	--	1	Provisions	
	102	--	1	Provisions	

Panel "LG2", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral,
110A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
F	1	20	1	Audio-Visual Equipment	
D	3	20	1	Receptacles	1/2", 2#10 & 1#10EG
F	5	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
F	7	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
F	9	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
A	9	15	1	Exhaust Fan (EF-33)	
F	11	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
A	? 13	20	1	Instantaneous Water Heaters (WH-3A,3B,3C)	1/2", 2#10 & 1#10EG
A	? 15	20	1	Instantaneous Water Heaters (WH-4A,4B,4C)	1/2", 2#10 & 1#10EG
	17	20	1	Spare	
	19	20	1	Spare	
	21	20	1	Spare	
	23	20	1	Spare	
	25	20	1	Spare	
	27	20	1	Spare	
	29	20	1	Spare	
	31	--	1	Provisions	
	33	--	1	Provisions	
	35	--	1	Provisions	
	37	--	1	Provisions	
	39	--	1	Provisions	
	41	--	1	Provisions	
F	2	20	1	Audio-Visual Equipment	
F	4	20	1	Audio-Visual Equipment	
F	6	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
D	# 8	20	1	Exterior Receptacles	1/2", 2#10 & 1#10EG
F	10	20	1	Audio-Visual Equipment	1/2", 2#10 & 1#10EG
D	12	20	1	Receptacles	1/2", 2#10 & 1#10EG
F	? 14	20	1	H.W. Circulating Pumps (CP-3A,3B)	
	16	20	1	Spare	
	18	20	1	Spare	
	20	20	1	Spare	
	22	20	1	Spare	
	24	20	1	Spare	
	26	20	1	Spare	
	28	20	1	Spare	
	30	--	1	Provisions	
	32	--	1	Provisions	
	34	--	1	Provisions	
	36	--	1	Provisions	
	38	--	1	Provisions	
	40	--	1	Provisions	
	42	--	1	Provisions	

Panel "LGY1", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral,
150A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 4X, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

CKT NO.	AMPS	PL	REMARKS	
1	20	1	Exterior Receptacle	
3	20	1	GENSET #1 Battery Charger	
5	30	2	GENSET #1 Water-Jacket Heater	1/2", 3#10 & 1#10EG
7	--	-	GENSET #1 Water-Jacket Heater	1/2", 3#10 & 1#10EG
9	30	2	GENSET #1 Water-Jacket Heater	1/2", 3#10 & 1#10EG
11	--	-	GENSET #1 Water-Jacket Heater	1/2", 3#10 & 1#10EG
13	30	2	GENSET #3 Water-Jacket Heater	1/2", 3#10 & 1#10EG
15	--	-	GENSET #3 Water-Jacket Heater	1/2", 3#10 & 1#10EG
17	20	1	GENSET #1 Alternator/Anti-Cond./Strip-Heater	
19	20	1	GENSET #3 Alternator/Anti-Cond./Strip-Heater	
21	20	1	GENSET #1 Battery-Heater-Blanket	
23	20	1	GENSET #1 Integral Light Kit & Receptacle	
25	20	1	GENSET #3 Integral Light Kit & Receptacle	
27	30	1	DPDS Integral Temp.-Genset Block-Heat. Receptacle	1/2", 2#10 & 1#10EG
29	20	1	DPDS Enclosure Strip Heater	
31	20	1	Spare	
33	20	1	Spare	
35	20	1	Spare	
37	--	1	Provisions	
39	--	1	Provisions	
41	--	1	Provisions	
2	20	1	GENSET #2 Battery Charger	
4	20	1	GENSET #3 Battery Charger	
6	30	2	GENSET #2 Water-Jacket Heater	1/2", 3#10 & 1#10EG
8	--	-	GENSET #2 Water-Jacket Heater	1/2", 3#10 & 1#10EG
10	30	2	GENSET #2 Water-Jacket Heater	1/2", 3#10 & 1#10EG
12	--	-	GENSET #2 Water-Jacket Heater	1/2", 3#10 & 1#10EG
14	30	2	GENSET #3 Water-Jacket Heater	1/2", 3#10 & 1#10EG
16	--	-	GENSET #3 Water-Jacket Heater	1/2", 3#10 & 1#10EG
18	20	1	GENSET #2 Alternator/Anti-Cond./Strip-Heater	
20	20	1	GENSET #2 Battery-Heater-Blanket	
22	20	1	GENSET #3 Battery-Heater-Blanket	
24	20	1	GENSET #2 Integral Light Kit & Receptacle	
26	20	1	DPDS Temp.-Genset Battery-Charging Receptacle	
28	50	2	DPDS Integral 50A Receptacle	1", 3#6 & 1#10EG
30	--	-	DPDS Integral 50A Receptacle	1", 3#6 & 1#10EG
32	20	1	Spare	
34	20	1	Spare	
36	20	1	Spare	
38	--	1	Provisions	
40	--	1	Provisions	
42	--	1	Provisions	

Panel "LH1", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral.
300A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	
E	3	20	1	Security Electronics Equip.	
E	5	20	1	Security Electronics Equip.	
F	? 7	30	2	UPS Power	1/2", 3#10 & 1#10EG
F	? 9	-	-	UPS Power	1/2", 3#10 & 1#10EG
D	11	20	1	Computer Receptacles	
D	13	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	15	20	1	Television(s) Power	1/2", 2#10 & 1#10EG
F	17	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
F	19	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
F	21	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
F	23	20	1	Data Rack Equipment	1/2", 2#10 & 1#10EG
D	25	20	1	Receptacles	1/2", 2#10 & 1#10EG
E	27	20	1	Security Electronics Equip.	1/2", 2#10 & 1#10EG
E	29	20	1	Security Electronics Equip.	1/2", 2#10 & 1#10EG
E	31	20	1	Security Electronics Equip.	1/2", 2#10 & 1#10EG
F	? 33	30	2	UPS Power	1", 3#8 & 1#10EG
F	? 35	-	-	UPS Power	1", 3#8 & 1#10EG
E	37	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
E	39	20	1	Security Detention Door Lock Power	1/2", 2#10 & 1#10EG
	41	20	1	Spare	
	43	20	1	Spare	
	45	20	1	Spare	
	47	20	1	Spare	
	49	20	1	Spare	
	51	20	1	Spare	
	53	20	1	Spare	
	55	20	1	Spare	
	57	20	1	Spare	
F	? 59	30	2	Data Rack Power	1", 3#8 & 1#10EG
F	? 61	-	-	Data Rack Power	1", 3#8 & 1#10EG
	63	20	1	Spare	
	65	20	1	Spare	
A	? 67	20	2	Fan Coil Units (FCJ-1,2,3,4)	1/2", 3#10 & 1#10EG
A	? 69	--	-	Fan Coil Units (FCJ-1,2,3,4)	1/2", 3#10 & 1#10EG
F	71	20	1	Smoke Dampers	1/2", 2#10 & 1#10EG
A	73	20	1	Energy Management System (EMS)	1/2", 2#10 & 1#10EG
	75	--	1	Provisions	
	77	--	1	Provisions	
A	? 79	20	1	DAIKIN Heat Pump System Controller	1/2", 2#10 & 1#10EG
	81	--	1	Provisions	
	83	--	1	Provisions	
	85	--	1	Provisions	
	87	--	1	Provisions	
	89	--	1	Provisions	
	91	--	1	Provisions	
	93	--	1	Provisions	
	95	--	1	Provisions	
	97	--	1	Provisions	
	99	--	1	Provisions	
	101	--	1	Provisions	
E	2	20	1	Security Electronics Equip.	
E	4	20	1	Security Electronics Equip.	
D	6	20	1	Security Electronics Equip.	
D	8	20	1	Receptacles	
D	10	20	1	Television(s) Power	
D	12	20	1	Receptacles	
D	14	20	1	Television(s) Power	
D	16	20	1	Receptacles	
D	18	20	1	Television(s) Power	
D	20	20	1	Receptacles	
D	22	20	1	Receptacles	
D	24	20	1	Receptacles	
D	26	20	1	Receptacles	
D	28	20	1	Receptacles	
D	30	20	1	Receptacles	
D	32	20	1	Receptacles	
D	34	20	1	Receptacles	
D	36	20	1	Receptacles	
D	38	20	1	Receptacles	
D	40	20	1	Receptacles	
D	42	20	1	Receptacles	

Panel "LH2", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral.
110A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
A	? 1	20	2	Energy Recovery Ventilator (ERV)	1/2", 3#10 & 1#10EG
F	# 5	20	1	Receptacle at Sneer Pump Station	1", 2#8 & 1#10EG
	7	20	1	Spare	
	9	20	1	Spare	
	11	20	1	Spare	
	13	20	1	Spare	
	15	20	1	Spare	
	17	20	1	Spare	
	19	--	1	Provisions	
	21	--	1	Provisions	
	23	--	1	Provisions	
	25	--	1	Provisions	
	27	--	1	Provisions	
	29	--	1	Provisions	
	31	--	1	Provisions	
	33	--	1	Provisions	
	35	--	1	Provisions	
	37	--	1	Provisions	
	39	--	1	Provisions	
	41	--	1	Provisions	
A	? 43	20	2	Fan Coil Units (FCH-1,2,3,4,5)	
A	? 4	--	-	Fan Coil Units (FCH-1,2,3,4,5)	
	6	20	1	Spare	
	8	20	1	Spare	
	10	20	1	Spare	
	12	20	1	Spare	
	14

Panel "LM3", 120/208 Volts, Three-Phase, Four-Wire, Solid Neutral,
175A MCB, 10,000 A.I.C., Surface-Mounted,
Ground Bus, Door & Lock, NEMA 1, SPD1.

? Verify exact electrical requirements in advance. # GFI-Type Circuit Breaker

	CKT NO.	AMPS	PL	REMARKS	
D	1	20	1	Receptacles	
D	3	20	1	Quadruplex Receptacle	
F	? 5	30	2	Data Rack Power	1/2", 3#10 & 1#10EG
F	? 7	--	-	Data Rack Power	1/2", 3#10 & 1#10EG
D	9	20	1	Receptacles	
D	11	20	1	Quadruplex Receptacles	1/2", 2#10 & 1#10EG
D	13	20	1	Quadruplex Receptacles	1/2", 2#10 & 1#10EG
D	15	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	17	20	1	Exterior Receptacles	
D	19	20	1	Exterior Receptacles	1/2", 2#10 & 1#10EG
F	21	20	1	Security Electronics Equip.	
F	23	20	1	Security Electronics Equip.	
F	25	20	1	Satellite Fire Alarm Panel	
D	27	20	1	Quadruplex Receptacle	
A	? 29	20	1	DAIKIN Heat Pump System Controller	1/2", 2#10 & 1#10EG
A	? 31	20	1	Motorized Fresh Air Dampers	
A	# 33	15	1	H.W. Circulating Pump (CP-9)	
	35	20	1	Spare	
	37	20	1	Spare	
	39	20	1	Spare	
	41	20	1	Spare	
	43	20	1	Spare	
	45	20	1	Spare	
	47	20	1	Spare	
	49	20	1	Spare	
	51	--	1	Provisions	
	53	--	1	Provisions	
	55	--	1	Provisions	
	57	--	1	Provisions	
	59	--	1	Provisions	
	61	--	1	Provisions	
	63	--	1	Provisions	
	65	--	1	Provisions	
	67	--	1	Provisions	
	69	--	1	Provisions	
	71	--	1	Provisions	
D	2	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	4	20	1	Quadruplex Receptacle	
F	6	20	1	Telecommunication Backboard Power	
D	8	20	1	Quadruplex Receptacles	1/2", 2#10 & 1#10EG
D	10	20	1	Receptacles	1/2", 2#10 & 1#10EG
D	12	20	1	Computer Receptacle	
D	14	20	1	Exterior Receptacles	
D	16	20	1	Exterior Receptacles	
D	18	20	1	Exterior Receptacles	
F	20	20	1	Security Electronics Equip.	
F	22	20	1	Security Electronics Equip.	
F	? 24	30	2	UPS Power	1/2", 3#10 & 1#10EG
F	? 26	--	-	UPS Power	1/2", 3#10 & 1#10EG
A	? 28	25	2	Fan Coil Units (FCQ-1,2,3)	1/2", 3#10 & 1#10EG
A	? 30	--	-	Fan Coil Units (FCQ-1,2,3)	1/2", 3#10 & 1#10EG
A	32	15	1	Exhaust Fan (EF-35)	
F	? 34	40	2	Water Heater (WH-9)	1", 3#8 & 1#10EG
F	? 36	--	-	Water Heater (WH-9)	1", 3#8 & 1#10EG
	38	20	1	Spare	
	40	20	1	Spare	
	42	20	1	Spare	
	44	20	1	Spare	
	46	20	1	Spare	
	48	20	1	Spare	
	50	20	1	Spare	
	52	20	1	Spare	
	54	--	1	Provisions	
	56	--	1	Provisions	
	58	--	1	Provisions	
	60	--	1	Provisions	
	62	--	1	Provisions	
	64	--	1	Provisions	
	66	--	1	Provisions	
	68	--	1	Provisions	
	70	--	1	Provisions	
	72	--	1	Provisions	

Main Switchboard "MSB", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
3000A MLO, 65,000 A.I.C., Free-Standing,
Ground Bus, NEMA 1, SPD4.

% Provide Arc-Energy-Reduction Type Circuit Breaker.

CKT NO.	AMPS	PL	REMARKS
% 1	1200	3	*Normal-Source* Lugs of ATS-1
% 3	--	-	*Normal-Source* Lugs of ATS-1
% 5	--	-	*Normal-Source* Lugs of ATS-1
% 7	1200	3	*Normal-Source* Lugs of ATS-3
% 9	--	-	*Normal-Source* Lugs of ATS-3
% 11	--	-	*Normal-Source* Lugs of ATS-3
% 2	1200	3	*Normal-Source* Lugs of ATS-2
% 4	--	-	*Normal-Source* Lugs of ATS-2
% 6	--	-	*Normal-Source* Lugs of ATS-2
8	--	3	Provisions
10	--	-	Provisions
12	--	-	Provisions

ATS-Distribution Switchgear Lineup "ATSDSL", 277/480 Volts, Three-Phase, Four-Wire, Solid Neutral,
4000A MLO, 65,000 A.I.C., Free-Standing,
Ground Bus, NEMA 1, SPD4.

% Provide Arc-Energy-Reduction Type Circuit Breaker.

CKT NO.	AMPS	PL	REMARKS
% 1	1200	3	*Emergency-Source* Lugs of ATS-1
% 3	--	-	*Emergency-Source* Lugs of ATS-1
% 5	--	-	*Emergency-Source* Lugs of ATS-1
% 7	1200	3	*Emergency-Source* Lugs of ATS-3
% 9	--	-	*Emergency-Source* Lugs of ATS-3
% 11	--	-	*Emergency-Source* Lugs of ATS-3
% 2	1200	3	*Emergency-Source* Lugs of ATS-2
% 4	--	-	*Emergency-Source* Lugs of ATS-2
% 6	--	-	*Emergency-Source* Lugs of ATS-2

(For 30"x42" Sheet)

1 ELECTRICAL PANEL SCHEDULES (5 of 5)
No Scale

CENTRAL LIGHTING CONTROL SYSTEM CONTROL SCHEDULES

Note: All system programming shall be as determined in advance by the owner; the parameters given herein below constitute a guide. Clearly explain to the owner (with the architect present) all system programming possibilities, and request and schedule (through the architect) as many meetings with the owner as required for obtaining complete-system-programming information so that the system will function in strict accordance accordance with the owner's wishes.

Lighting Control Panel "LCP-HA1"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
2INVA1	Photocell "ON" Photocell "OFF"	No Override		
Spare				
Spare				
Spare				
Spare				
Spare				

Lighting Control Panel "LCP-HA2"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
3INVA2	Photocell "ON" Photocell "OFF"	No Override		
Spare				
Spare				
Spare				
Spare				
Spare				

Lighting Control Panel "LCP-HB1"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
1INVB1	"Time-of-Day ON" "Time-of-Day OFF"	"gg"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	Program to remain on 90 minutes following the de-enererization of all other interior lighting circuits fed through the LCP.
Spare				
Spare				
Spare				
Spare				
Spare				

Lighting Control Panel "LCP-HB3"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
22HB3	"Time-of-Day ON" "Time-of-Day OFF"	No Override	Instant "OFF"; Up to 4 hours "ON" after "timeout"	
29HB3	"Time-of-Day ON" "Time-of-Day OFF"	"bb"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	
Spare				
Spare				
Spare				
Spare				

Lighting Control Panel "LCP-HC1"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
1INVC1	"Time-of-Day ON" "Time-of-Day OFF"	"ee"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	Program to remain on 90 minutes following the de-enererization of all other interior lighting circuits fed through the LCP.
3INVC1	"Time-of-Day ON" "Time-of-Day OFF"	"aa"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	Program to remain on 90 minutes following the de-enererization of all other interior lighting circuits fed through the LCP.
4INVC1	"Time-of-Day ON" "Time-of-Day OFF"	No Override		Program to remain on 90 minutes following the de-enererization of all other interior lighting circuits fed through the LCP.
5INVC1	"Time-of-Day ON" "Time-of-Day OFF"	"hh"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	Program to remain on 90 minutes following the de-enererization of all other interior lighting circuits fed through the LCP.
6INVC1	Photocell "ON" Photocell "OFF"	No Override		
2HC1	"Time-of-Day ON" "Time-of-Day OFF"	"hh"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	
4HC1	"Time-of-Day ON" "Time-of-Day OFF"	"aa"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	
7HC1	"Time-of-Day ON" "Time-of-Day OFF"	"ee"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	

Lighting Control Panel "LCP-HC2"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
2HC2	"Time-of-Day ON" "Time-of-Day OFF"	"aa"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	
4HC2	Photocell "ON" Photocell "OFF"	No Override		
9HC2	"Time-of-Day ON" "Time-of-Day OFF"	"ff"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	
26HC2	Photocell "ON" Photocell "OFF"	No Override		
28HC2	Photocell "ON" Photocell "OFF"	No Override		
Spare				

Lighting Control Panel "LCP-HD1"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
2INVD1	Photocell "ON" Photocell "OFF"	No Override		
3INVD1	"Time-of-Day ON" "Time-of-Day OFF"	"cc"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	Program to remain on 90 minutes following the de-enererization of all other interior lighting circuits fed through the LCP.
Spare				
Spare				
Spare				
Spare				

Lighting Control Panel "LCP-HD2"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
2HD2	Photocell "ON" Photocell "OFF"	No Override		
4HD2	"Time-of-Day ON" "Time-of-Day OFF"	"cc"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	
9HD2	Photocell "ON" Photocell "OFF"	No Override		
Spare				
Spare				
Spare				

Lighting Control Panel "LCP-HE1"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
3INVE1	"Time-of-Day ON" "Time-of-Day OFF"	"cc"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	Program to remain on 90 minutes following the de-enererization of all other interior lighting circuits fed through the LCP.
4INVE1	Photocell "ON" Photocell "OFF"	No Override		
Spare				
Spare				
Spare				
Spare				

Lighting Control Panel "LCP-HF2"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
8HF2	Photocell "ON" Photocell "OFF"	No Override		
Spare				
Spare				
Spare				
Spare				
Spare				

Lighting Control Panel "LCP-HG1"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
3INVG1	"Time-of-Day ON" "Time-of-Day OFF"	"dd", "cc"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	Program to remain on 90 minutes following the de-enererization of all other interior lighting circuits fed through the LCP.
5INVG1	Photocell "ON" Photocell "OFF"	No Override		
Spare				
Spare				
Spare				
Spare				

Lighting Control Panel "LCP-HG2"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
1GHG2	Photocell "ON" Photocell "OFF"	No Override		
Spare				
Spare				
Spare				
Spare				
Spare				

Lighting Control Panel "LCP-HH1"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
1INVH1	"Time-of-Day ON" "Time-of-Day OFF"	"dd"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	Program to remain on 90 minutes following the de-enererization of all other interior lighting circuits fed through the LCP.
Spare				
5INVH1	"Time-of-Day ON" "Time-of-Day OFF"	"dd"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	Program to remain on 90 minutes following the de-enererization of all other interior lighting circuits fed through the LCP.
Spare				
Spare				
Spare				

Lighting Control Panel "LCP-HH2"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
2HH2	"Time-of-Day ON" "Time-of-Day OFF"	"dd"	Instant "OFF"; Up to 4 hours "ON" after "timeout"	
9HH2	Photocell "ON" Photocell "OFF"	No Override		
11HH2	Photocell "ON" Photocell "OFF"	No Override		
Spare				
Spare				
Spare				

Lighting Control Panel "LCP-HM3"

Circuit Number	Controlled By Which Input Device(s)	Controlled By Override Switch	Switch Override Duration	Additional Control Requirements
18HM3	Photocell "ON" Photocell "OFF"	No Override		
2INVM3	Photocell "ON" Photocell "OFF"	No Override		
Spare				
Spare				
Spare				
Spare				

2 CENTRAL LIGHTING CONTROL SYSTEM CONTROL SCHEDULES
No Scale

Grace Design Studios

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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE
PROJECT NO.:08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

NO.	DESCRIPTION	DATE
1	Addendum No. 1	4/21/26
2	Addendum No. 2	4/27/26

DATE: 03-30-2026
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PROJECT NO: 571506

ELECTRICAL PANEL SCHEDULES & CENTRAL LIGHTING CONTROL SYSTEM CONTROL SCHEDULE

SHEET NUMBER
E508

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ELECTRICAL RISER DIAGRAM NOTES

A. 750kW/937.5kVA or 800kW/1000kVA, 0.8P.F., 277/480V, 3-phase, 4-wire, natural-gas-fueled, engine-generator set ("Genset-A") with a 1200A/3P, 100%-rated, electrically-operated, main/paralleling, output, circuit breaker. Reference the specifications.

B. 750kW/937.5kVA or 800kW/1000kVA, 0.8P.F., 277/480V, 3-phase, 4-wire, natural-gas-fueled, engine-generator set ("Genset-B") with a 1200A/3P, 100%-rated, electrically-operated, main/paralleling, output, circuit breaker. Reference the specifications.

C. 750kW/937.5kVA or 800kW/1000kVA, 0.8P.F., 277/480V, 3-phase, 4-wire, natural-gas-fueled, engine-generator set ("Genset-C") with a 1200A/3P, 100%-rated, electrically-operated, main/paralleling, output, circuit breaker. Reference the specifications.

D. Reinforced-concrete slabs/foundations for the electrical equipment. Reference the project structural drawings and specifications for construction details, and for other required information.

E. Ground rod and connector

F. 3/4", 1#3/0EG. NOTE: This is not an electrical system ground, merely an electrical equipment ground; therefore, DO NOT BOND the neutral and the equipment ground together here.

G. 3/4", 1#3/0GEC. NOTE: Because "DPDS" is part of a "separately-derived system", this is an electrical system ground; therefore, BOND the neutral and the equipment ground together here.

H. 3/4", 1#3/0GEC. NOTE: This is an electrical system ground; therefore, BOND the neutral and the equipment ground together here.

I. 3/4", 1#3/0GEC to building steel, to a concrete-encased electrode as per NEC 250.52(A)(3), to the grounded incoming cold-water piping, and to the grounded, incoming, natural-gas piping; 1/2", 1#6EG to the main equipment-ground bar at the main telecommunication backboard in the MDF; and 1/2", 1#6EG to each data-and-fiber-optic equipment rack in each IDF.

J. Entergy-provided, pad-mounted, main, power transformer. Provide the required, Entergy approved, reinforced-concrete slab/foundation and grounding apparatuses, and provide all other required appurtenances, in strict accordance with all applicable Entergy requirements. Contact Entergy directly, obtain all required information, details, recommendations, etc. from Entergy in advance. Reference the specifications.

K. (4) 3" EC (including one [1] spare EC), underground, from the Entergy-provided, pad-mounted, main, power transformer to the exact location (likely to be to a new overhead-power-service "dip" pole at the property line along Highway 964) which is stipulated by Entergy (verify in advance, and provide accordingly), for the Entergy-provided, underground, incoming, transformer-primary-service, electrical cables.

L. (8) 3-1/2", 4-500KCM EACH, underground, from the secondary of the Entergy-provided, pad-mounted, main, power transformer to the MECB.

M. (8) 3-1/2", 4-500KCM & 1-400KCM EG EACH

N. (11) 4", 4-500KCM & 1-500KCM EG EACH

O. 4000A, 277/480V, 3-phase, 4-wire, genset-paralleling, common-bus, switchgear lineup ("GPCBC"). Reference the specifications.

P. 4000A, 277/480V, 3-phase, 4-wire, dual-purpose, temporary-generator and portable-load-bank, docking station ("DPDS"). Reference the specifications.

Q. 4000A, 277/480V, 3-phase, 4-wire, ATS-distribution, switchgear lineup ("ATSDSL") with three (3) 1200A/3P, 100%-rated, solid-state, "load", circuit breakers. Reference the specifications.

R. 1200A, 4P (switched neutral), 277/480V, 3-Phase, 4-Wire, "ATS-1" (dedicated to the project, "life-safety" and "most-critical", electrical loads). Reference the specifications.

S. 1200A, 4P (switched neutral), 277/480V, 3-Phase, 4-Wire, "ATS-2" (dedicated to the project, "less-critical", electrical loads). Reference the specifications.

T. 1200A, 4P (switched neutral), 277/480V, 3-Phase, 4-Wire, "ATS-3" (dedicated to the project, "least-critical", electrical loads). Reference the specifications.

U. Lighting-control-system photocell. Mount as high as practicable (preferably on the northern exterior wall of the facility). Reference the specifications.

V. Lighting-control-system, photocell, control cabling and the associated raceway

W. Control cabling, and the associated raceway, between lighting-control-system, lighting-control panels

X. Lighting branch circuits (raceways and electrical cables) between the branch circuit panel and the respective lighting-control-panel. See the respective electrical panel schedule,

Y. Floor-mounted dry-type transformer

Z. 120/208V, 400A, 3P, NF, transformer-secondary, safety switch

AA. Genset-paralleling-control-and-management-system enclosure. Reference the specifications.

BB. (4) 3", 4-350KCM & 1#3/0EG EACH

CC. 1", with the required control, signal, and alarm cabling between Genset-A and the Genset-A, remote, annunciator panel. Verify the desired location for such annunciator panel in advance with the user agency.

DD. 1", with the required control, signal, and alarm cabling between Genset-B and the Genset-B, remote, annunciator panel. Verify the desired location for such annunciator panel in advance with the user agency.

EE. 1", with the required control, signal, and alarm cabling between Genset-C and the Genset-C, remote, annunciator panel. Verify the desired location for such annunciator panel in advance with the user agency.

FF. Control cabling and the associated raceway between the local paralleling-system controls located at "Genset-A" and the genset-paralleling-control-and-management-system enclosure, for controlling "Genset-A", "ATS-1", "ATS-2", and "ATS-3". Reference the specifications.

GG. Control cabling and the associated raceway between the local paralleling-system controls located at "Genset-B" and the genset-paralleling-control-and-management-system enclosure, for controlling "Genset-B", "ATS-1", "ATS-2", and "ATS-3". Reference the specifications.

HH. Control cabling and the associated raceway between the local paralleling-system controls located at "Genset-C" and the genset-paralleling-control-and-management-system enclosure, for controlling "Genset-C", "ATS-1", "ATS-2", and "ATS-3". Reference the specifications.

II. Control cabling and the associated raceway between the genset-paralleling-control-and-management-system enclosure and "ATS-1", for controlling "ATS-1". Reference the specifications.

JJ. Control cabling and the associated raceway between the genset-paralleling-control-and-management-system enclosure and "ATS-2", for controlling "ATS-2". Reference the specifications.

KK. Control cabling and the associated raceway between the genset-paralleling-control-and-management-system enclosure and "ATS-3", for controlling "ATS-3". Reference the specifications.

LL. 1/2", 2#10 & 1#10EG from Panel "LA1" to the genset-paralleling-control-and-management-system enclosure, for control power. Reference the Panel "LA1" schedule.

MM. Control cabling, and the associated raceway, between "ATS-1" and "DPDS" for tripping the portable-load-bank-connection, shunt-trip, circuit breaker in "DPDS"

NN. Control cabling, and the associated raceway, between "ATS-2" and "DPDS" for tripping the portable-load-bank-connection, shunt-trip, circuit breaker in "DPDS"

OO. Control cabling, and the associated raceway, between "ATS-3" and "DPDS" for tripping the portable-load-bank-connection, shunt-trip, circuit breaker in "DPDS"

PP. 2-1/2", 4#3/0 & 1#6EG

QQ1. To all lighting circuits controlled by LCP-HA1; raceways and electrical cables as required.

QQ2. To all lighting circuits controlled by LCP-HA2; raceways and electrical cables as required.

QQ3. Not Used.

QQ4. To all lighting circuits controlled by LCP-HB1; raceways and electrical cables as required.

QQ5. To all lighting circuits controlled by LCP-HB3; raceways and electrical cables as required.

QQ6. To all lighting circuits controlled by LCP-HC1; raceways and electrical cables as required.

QQ7. To all lighting circuits controlled by LCP-HC2; raceways and electrical cables as required.

QQ8. To all lighting circuits controlled by LCP-HD1; raceways and electrical cables as required.

QQ9. To all lighting circuits controlled by LCP-HD2; raceways and electrical cables as required.

QQ10. To all lighting circuits controlled by LCP-HE1; raceways and electrical cables as required.

QQ11. To all lighting circuits controlled by LCP-Hf2; raceways and electrical cables as required.

QQ12. To all lighting circuits controlled by LCP-HG1; raceways and electrical cables as required.

QQ13. To all lighting circuits controlled by LCP-HG2; raceways and electrical cables as required.

QQ14. To all lighting circuits controlled by LCP-HH1; raceways and electrical cables as required.

QQ15. To all lighting circuits controlled by LCP-HH2; raceways and electrical cables as required.

QQ16. Not Used.

QQ17. To all lighting circuits controlled by LCP-HM3; raceways and electrical cables as required.

RR. 1-1/4", 2#4 & 1#8EG

SS. Energy-meter-data collection cabinet (EMDCC)

TT. 277/480V, 4000A/3P, 3-phase, 4-wire, NEMA 3R, free-standing, service-entrance-rated, (normal-power) main, enclosed, circuit breaker, equipped with an integral, 320kA/phase, surge-protective device (SPD4) and with an energy-reducing, active, arc-flash, mitigation system (ERMS)

UU. 1200A MLO, 277/480V, 3-Phase, 4-Wire, NEMA 1, Surface-Mounted, Distribution Panel "DP1".

VV. 1200A MLO, 277/480V, 3-Phase, 4-Wire, NEMA 1, Surface-Mounted, Distribution Panel "DP2".

WW. 1200A MLO, 277/480V, 3-Phase, 4-Wire, NEMA 1, Surface-Mounted, Distribution Panel "DP3".

XX. Cadweld grounding connector.

YY. Provide structural-steel, electrical equipment rack. See Referenced Electrical Note No. 58 and provide accordingly.

ZZ. 1/2", 1#2EG to the underground ground ring.

AAA. To building structural steel.

BBB. 1#2GEC to the underground ground ring.

CCC. 1/2", 1#8GEC.

DDD. 2-1/2", 4#4/0 & 1#4EG.

EEE. (2) 3", 4-250KCM & 1#2EG EA.

FFF. 3", 4-350KCM & 1#4EG.

GGG. (2) 2-1/2", 4#4/0 & 1#2EG EA.

HHH. (2) 2-1/2", 4#3/0 & 1#1EG EA.

III. 2-1/2", 4#3/0 & 1#6EG.

JJJ. 3", 4-250KCM & 1#4EG.

KKK. 3", 3-500KCM & 1#EG.

LLL. (2) 3", 4-350KCM & 1#2/0EG EA.

MMM. 3/4", 1#2/0GEC to building-structural steel.

NNN. 2", 3#2/0 & 1#6EG.

OOO. 3", 4-350KCM & 1#2EG.

PPP. 1/2", 1#2GEC to building-structural steel.

QQQ. 1-1/4", 3#6 & 1#10EG.

RRR. 1-1/2", 4#2& 1#6EG.

SSS. 1/2", 1#6GEC to building-structural steel.

TTT. 1-1/4", 3#3 & 1#8EG.

UUU. 2", 4#2/0 & 1#4EG.

VVV. 1/2", 1#4GEC to building-structural steel.

WWW. 2-1/2", 3-250KCM & 1#4EG.

XXX. 3/4", 1#1GEC to building-structural steel.

YYY. 3/4", 1#1/0EG to the underground ground ring.

ZZZ. 3/4", 1@2/0GEC to the underground ground ring.

AAAA. 1#3/0EG to the underground ground ring.

BBBB. 1#3/0GEC to the underground ground ring.

1 ELECTRICAL RISER DIAGRAM
N.T.S.

Grace Design Studios

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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO.:08-403-04-02, Part 09 (F.080000780) &
08-403-24-01, F.080000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

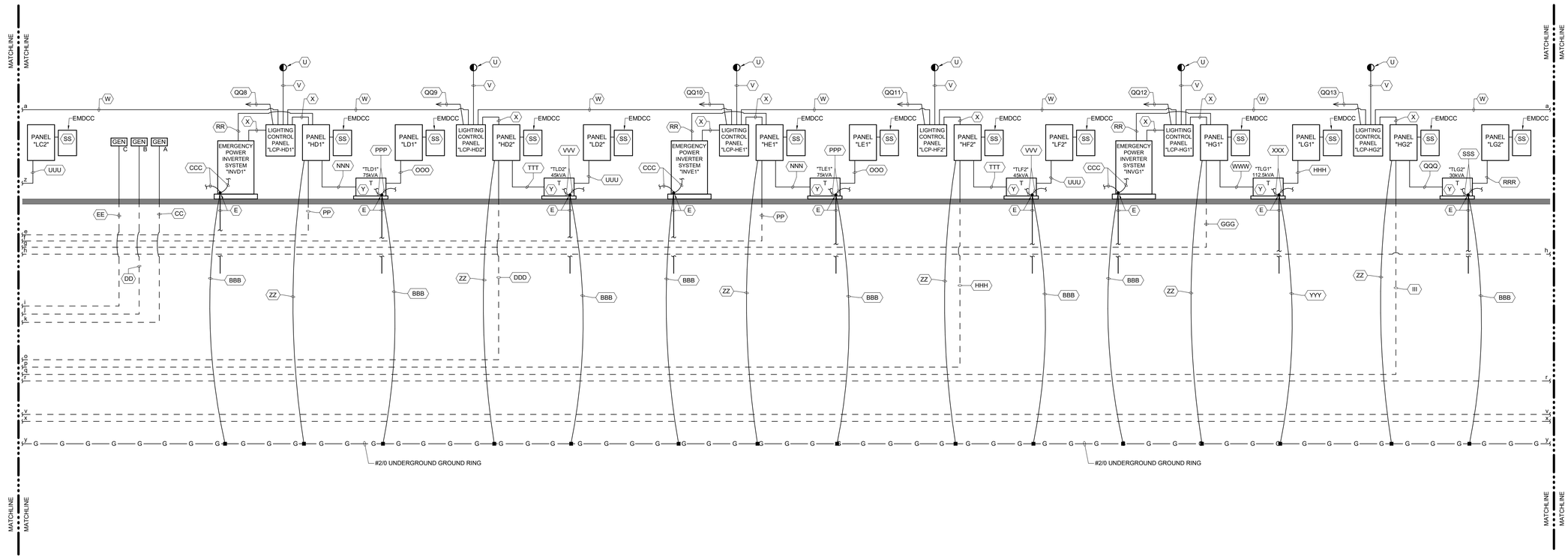
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2	Addendum No. 2	4/27/26

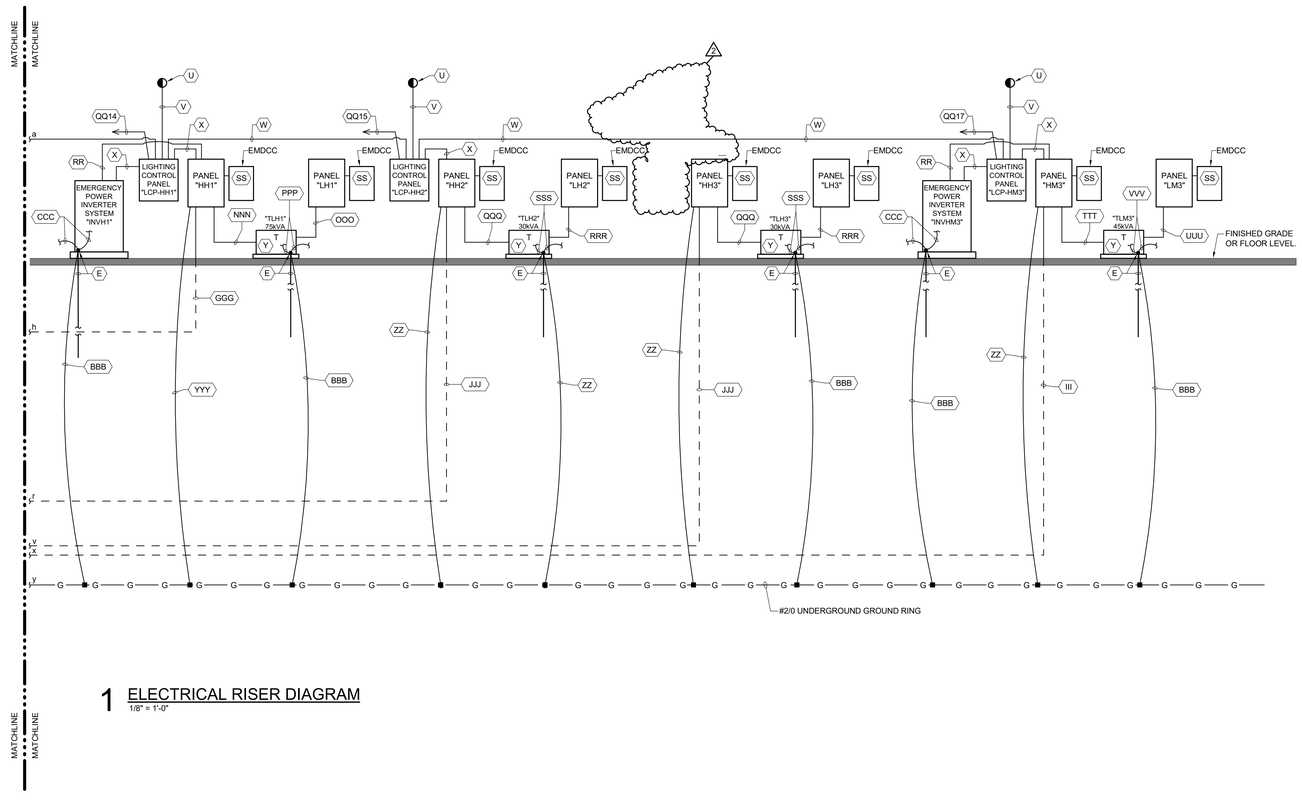
DATE: 03-30-2026
PHASE: CONSTRUCTION DOCUMENTS
ISSUED FOR: REVIEW & PRICING
PROJECT NO: 571506

ELECTRICAL RISER DIAGRAM

SHEET NUMBER
E603

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1 ELECTRICAL RISER DIAGRAM
1/8" = 1'-0"

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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO.:08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

NO.	DESCRIPTION	DATE
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DATE: 03-30-2026
PHASE: CONSTRUCTION DOCUMENTS
ISSUED FOR: REVIEW & PRICING
PROJECT NO: 571506

ELECTRICAL RISER DIAGRAM

SHEET NUMBER
E604

Grace Design Studios

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NSA Project Number: 2562

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NOTES FOR THIS RISER DIAGRAM & SEWER PUMP-STATION ELECTRICAL PLAN ONLY:

SEWER PUMP-STATION ELECTRICAL RISER DIAGRAM NOTES

A. 1", 3#8 & 1#10EG, underground, to Panel "HH2". Reference the Panel "HH2" schedule.

B. Install (furnished by the sewer-pump-station-equipment vendor) the sewer, pump-station, remote-signal, alarm device on the exterior wall of the maintenance building (verify the required exact location in advance) and connect it, in strict accordance with the instructions from the sewer-pump-station-equipment vendor (verify in advance).

C. Ground rod and connector

D. 1" raceway underground, with the proper monitoring, signal, and alarm cables, from the sewer-pump-station, main, control panel (MCP) to the sewer, pump-station, remote-signal, alarm device

E. Check-Valve No. 1 limit switches, and 3/4", 4#12 & 1#12EG from such limit switches to MCP. Verify all requirements with the sewer-pump-station-equipment vendor, and provide accordingly.

F. 3/4", 1#4EG from the ground rod and connector to the equipment rack and to the enclosure equipment-grounding lug of MCP

G. The equipment rack for the sewer-pump-station, main, control panel and the weatherproof duplex receptacle will be furnished and installed as part of the sewer-pump-station-equipment package.

H. Provide a weatherproof duplex receptacle on the equipment rack, and locate it approximately 3'-0" above finished grade or concrete.

I. Check-Valve No. 2 limit switches, and 3/4", 4#12 & 1#12EG from such limit switches to MCP. Verify all requirements with the sewer-pump-station-equipment vendor, and provide accordingly.

J. 3/4", 1#8EGC between and among the ground-rod connector and all conduits which are routed from MCP to any pump motor, to the wet well, to within 10'-0" of any wet-well vent, or to within 5'-0" of the nearest edge of any wet-well opening

K. Pump No. 1, motor-terminal box

L. Pump No. 2, motor-terminal box

M. 3/4", 1#4EG to all project piping. Provide all required, piping-grounding connections.

N. 3/4", 2#8 & 1#10EG from the designated, 20A/1P, GFI, branch, circuit breaker in Panel "LH2" (reference the Panel "LH2" panel schedule) to the weatherproof duplex receptacle at the sewer-pump-station, electrical equipment rack.

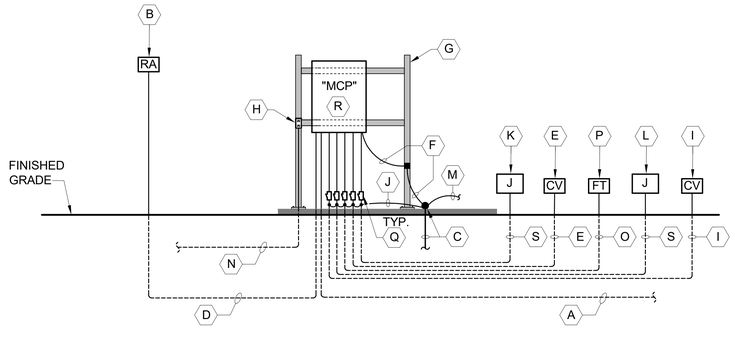
O. 1-1/4" conduit, and the float-switch-system signaling cables, from the float-switch system to MCP. Make all required terminations and connections; verify in advance. Provide a properly-rated, code-approved, and UL-listed, sealing fitting, approved sealing compound, and approved sealing fibers, where and as required; verify in advance. Verify all requirements with the sewer-pump-station-equipment vendor in advance, and provide accordingly.

P. Install and connect (furnished by the sewer-pump-station-equipment vendor) the float-switch system. Verify all requirements with the sewer-pump-station-equipment vendor in advance, and provide accordingly.

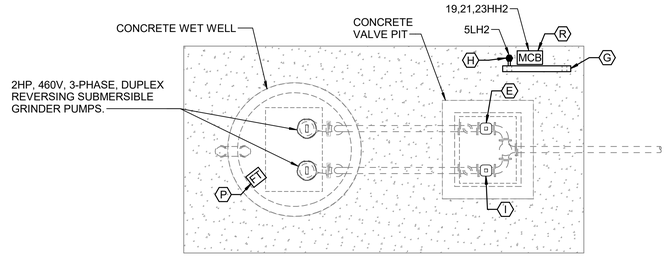
Q. Conduit sealing fitting with proper sealing compound and proper sealing fiber (typical). Reference the specifications.

R. Install and connect (furnished by the sewer-pump-station-equipment vendor) MCP. Verify all requirements with the sewer-pump-station-equipment vendor in advance, and provide accordingly.

S. 1-1/2", with the pump-manufacturer-furnished, pump-motor, power-and-signal cable, from each of the two (2) pump-motor terminal (junction) boxes to the respective motor starter, and to the respective temperature-sensor relay, in MCP. Reference the "POWER DIAGRAM" and the "CONTROL DIAGRAM " of MPC. Verify all requirements with the sewer-pump-station-equipment vendor in advance, and provide accordingly.



1 SEWER PUMP-STATION ELECTRICAL RISER DIAGRAM
3/16" = 1'-0"



2 SEWER PUMP-STATION ELECTRICAL PLAN
N.T.S.

Grace Design Studios

STATE OF LOUISIANA
DANIEL NESBIT, JR
License No. 15212
PROFESSIONAL ENGINEER
IN
ELECTRICAL CONTROL SYSTEMS
ENGINEERING
04/09/26

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NEW JETSON CENTER FOR YOUTH

OFFICE OF JUVENILE JUSTICE

PROJECT NO.:08-403-04-02, Part 09 (F.08000078) &
08-403-24-01, F.08000165
SITE CODE: 2-17-044 STATE I.D.: NEW
820 GROOM ROAD, BAKER, LOUISIANA 70714

NO.	DESCRIPTION	DATE
2	Addendum No. 2	4/27/26

DATE: 03-30-2026
PHASE: CONSTRUCTION DOCUMENTS
ISSUED FOR: REVIEW & PRICING
PROJECT NO: 571506

SEWER PUMP-STATION ELECTRICAL RISER DIAGRAM & SEWER PUMP-STATION ELECTRICAL PLAN

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