



**DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242**

ADDENDUM NO. 3 TO PROJECT NO. 44589

**CONSTRUCTION, HVAC, PLUMBING, ELECTRICAL WORK
PROVIDE RENOVATIONS FOR FORENSICS IDENTIFICATION PROTOTYPE,
EVIDENCE STORAGE PROGRAM
TROOP C HEADQUARTERS
823 STATE HIGHWAY ROUTE 7
UNDADILLA, NY 13838**

November 10, 2015

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

ALL TRADES SPECIFICATIONS

1. APPENDIX BDC-406 & 406.1: REPLACE APPENDIX BDC-406 & 406.1 with completed BDC406.1.
2. SECTION 011000: DELETE paragraph 1.04.A. in Section 011000 – Summary of the Work in its entirety.
3. SECTION 013200: DELETE Section 013200 – Construction Project Documentation from the Project Manual.
4. SECTION 013113: ADD Section 013113 – Project Schedule to the Project Manual.
5. SECTION 013300: DELETE Section 013300 – Submittals in its entirety, and replace with attached Section (pages 013300-1 thru 013300-9) and noted “Revised 10/13/2015.”

ALL TRADES DRAWINGS

6. REPLACE all SECURITY reference drawings with the attached set of security reference drawings.

‘C’ CONTRACT SPECIFICATIONS

7. SECTION 081116: DELETE Specification Section 081116 Aluminum Doors and Frames from the Project Manual.
8. SECTION 085113: DELETE words from Section 085113, Part 2.04, C. 1. & 2., “using either single or double strength glass, as recommended by the manufacturer with a minimum of 3/16 inch air space”
9. SECTION 085113: ADD paragraph 3 to Section 085113, Part 2.04, C. which shall read: “All window glazing shall meet the requirements for Type M glass as specified in the Glass and Glazing Section 088100.”

10. SECTION 114102: REPLACE Paragraph 2.07, Humidity Levels in Section 114102, Prefabricated Walk-in Refrigerated and Freezer Boxes with the following:

“2.07 TEMPERATURE AND HUMIDITY LEVELS

- A. Size and equip boxes to maintain the following temperature and humidity levels:
1. Frozen: Temperature is maintained thermostatically at or below -10°C (14°F)
 2. Refrigerated: Temperature is maintained thermostatically between 2°C and 8°C (36°F and 46°F) with less than 25 % humidity.”

‘H’ CONTRACT SPECIFICATIONS

11. SECTION 002216: DELETE Section 002216 – Supplementary Instructions to Bidders Asbestos Projects in its entirety.
12. SECTION 230593: ADD Subsection 3.04 to the Specification 230593:
3.04 LEAKAGE TESTING OF DUCTWORK A. Provide a leakage test for all ductwork with a pressure class greater than 3-inch water gauge in accordance with SMACNA’s “HVAC Air Duct Leakage Test Manual and the Energy Conservation Construction Code of New York State - 2015. Test representative duct sections totaling no less than 25 percent of the total installed duct area. The rate of air leakage (CL) shall be less than or equal to 6.0.

‘P’ CONTRACT SPECIFICATIONS

13. SECTION 002216: DELETE Section 002216 – Supplementary Instructions to Bidders Asbestos Projects in its entirety.

‘E’ CONTRACT SPECIFICATIONS

14. SECTION 002216: DELETE Section 002216 – Supplementary Instructions to Bidders Asbestos Projects in its entirety.
15. ADD specification section “271500 – COMMUNICATIONS HORIZONTAL CABLING” in its entirety to the E-Contract Project Manual.

‘C’ CONTRACT DRAWINGS

16. ADD Drawing HM-104: Second Floor Asbestos Abatement dated October 14, 2015
17. DRAWING HM-102: DELETE Keyed Note No. 3 from Drawing HM-102.
18. DRAWING A-101: CHANGE Type 3 to Type 2 at K1/A101 Evidence Garage.
19. DRAWING A-104: RELACE Single Ply Membrane Roofing Note No. 1 on Drawing A-104, second sentence with, “Insulation thickness at roof drain sump edge shall be a minimum of 5 1/2”.”
20. DRAWING A-104: REPLACE note on Detail B8/A104 regarding insulation thickness at roof drain with “Taper insulation at roof drain sump. Minimum insulation thickness at roof drain sump edge shall be 5 1/2”.”
21. DRAWING A-200: CHANGE Type 3 to Type 2 at D2/A200 North Elevation.
22. DRAWING A-501: REPLACE glazing note on Frame Type D, Sheet A501 to read “Fire Resistive Glass Framing System, 90 minutes”
23. DRAWING A-501: REPLACE steel frame note on Frame Type D, Sheet A501 to read “Fire Resistive Glass Framing System, 90 minutes.”
24. DRAWING A-502: DELETE column labeled “Thickness” and associated 1 1/4” dimension for all windows on Drawing A502, Window Schedule.

25. DRAWING A-502: ADD Window Schedule Note No. 2, "Contractor to field verify window size and thickness for fit within existing rough openings and sill conditions." To Drawing A502.
26. DRAWING A-503: ADD Hardware Group #2 to Door 108 on the Door Schedule, Drawing A503.
27. DRAWING A-503: REPLACE text on Drawing A503, Finish Schedule "153A, Men's Toilet" with "153, Locker Room".
28. DRAWING A-503: REPLACE the material reference "S" for steel with "ST" on the Door Schedule Key, A503.
29. DRAWING A-503: REPLACE all references to "HM" on the Door Schedule, A503 with "ST" for steel as shown in the Door Schedule Key.
30. DRAWING A-503: ADD note in Remarks column of the Door 119 on Door Schedule, A503 to read "This door, frame and glazing are a 90 minute fire resistive glass system."
31. DRAWING A-503: REPLACE the door material reference "GS" for Door 119 on Door Schedule, A503 with "ST" for steel as shown on the Door Schedule Key.

'E' CONTRACT DRAWINGS

32. DRAWING E-101: REPLACE drawing E-101 with revised drawing E-101 to reflect modifications and additions to the scope of work related to IT.
33. DRAWINGS E-102: REPLACE drawing E-102 with revised drawing E-102 to reflect modifications and additions to the scope of work related to IT.
34. DRAWING E-106: REPLACE drawing E-106 with revised drawing E-106 to reflect modifications and additions to the scope of work related to IT.
35. DRAWING E-107: REPLACE drawing E-107 with revised drawing E-107 to reflect modifications and additions to the scope of work related to IT.
36. DRAWING E-501: REPLACE drawing E-501 with revised drawing E-501 to reflect modifications and additions to the scope of work related to IT.
37. DRAWING E-502: REPLACE drawing E-502 with revised drawing E-502 to reflect modifications and additions to the scope of work related to IT.

END OF ADDENDUM

Margaret F. Larkin
Executive Director
Design and Construction

SECTION 013113

PROJECT SCHEDULE

PART 1 GENERAL

1.01 RELATED REQUIREMENTS AND INFORMATION SPECIFIED ELSEWHERE

- A. Summary of Work: Section 011000.
- B. Administrative Requirements: Section 013000.
- C. Project Meetings: Section 013119.

1.02 SUMMARY

- A. Section includes administrative and procedural requirements to plan, schedule, and document the progress of the Project, and predict and prevent delays to established activities and milestones during performance of the Work.

1.03 SUBMITTALS

- A. Waiver of Submittals: The “Waiver of Certain Submittal Requirements” in Section 013300 does not apply to this Section.
- B. Schedule Submittals:
 - 1. Initial Spreadsheet
 - 2. CMU 01 Agreement Form

1.04 DEFINITIONS

- A. Project: Work to be performed as part of one or more Contracts.
- B. Project Team: Persons acting on behalf of the State or Contractors in an effort to successfully plan, schedule, and coordinate the Work of the Project.
- C. Schedule: A comprehensive leveling of necessary procedural tasks, the sequencing of those tasks, and the incorporated resource allocation required to successfully complete the Work by the Project completion date.
- D. Activity: A task or grouping of tasks containing an anticipated start-date and corresponding duration, comprising a generalized portion of the Work, that can be identified and measured for planning, coordinating, monitoring, and controlling the project.
- E. Milestone: A significant start or finish to Work on the Project defined by both the Director’s Representative and the Contractors.

- F. Bid Milestones: Milestones or phases identified and included in the Contract Documents to be utilized by the Contractors and Project team in developing the Baseline Project Schedule.
- G. Spreadsheet: The electronic Excel© file provided to the Contractors for establishing activities, anticipated start, duration, predecessors, successors, and budgeted cost for Work of the Project.
- H. Baseline Project Schedule: The Activities and their prescribed durations recognizing the completion of the Work of the Project in accordance with the Contract duration and approved by the Director's Representative and Contractors.
 - 1. Updates to the Baseline Project Schedule, including but not limited to starts, finishes, and activity percent complete, as agreed upon at the Project Schedule meeting by the Contractors and the Director's Representative, shall be defined as the Project Schedule.
 - 2. The Baseline Project Schedule will remain unaltered as a tool to measure progress outlined and anticipated during the initial Project Schedule meeting.
- I. Float: The measure of latitude in starting and/or completing an activity without impeding on the successful realization of Project milestones.
 - 1. Float time is not for the exclusive use or benefit of either the State or the Contractors, but is a jointly owned expiring Project resource; float is available as needed to meet scheduled milestones and Project completion.
 - 2. Recognizing float within an activity, or chain of activities, does not permit the Contractors to disrupt progress or delay completion of an activity.
- J. Resource: Any labor, material, or equipment, shared or exclusive, required for the completion of an Activity or the Work, which recognizes an associated cost.
- K. OGS Scheduling: A member of the OGS Scheduling Department responsible for importing, updating, analyzing, reviewing, and interpreting schedule related information for the Project team to ensure compliance with this or related sections.

1.05 DEVELOPMENT OF THE PROJECT SCHEDULE

- A. An electronic file is available to the Contractors and is to be utilized to assist in completing the Baseline Project Schedule. This file is an Excel© spreadsheet exported from the Scheduling Software and requires the completion of six specified columns including activity name, original duration, anticipated start, predecessor, successor, and budgeted cost.
 - 1. Failure to acquire the file by request upon Project Award will not excuse the required submission times as noted within the section.
 - 2. Contractors may submit initial planning schedule in format compatible with the State's Scheduling Software to be utilized in developing the Baseline Project Schedule in lieu of the Spreadsheet.

- B. The Contractors will complete the Spreadsheet with information relating to activity naming, duration, anticipated start date, predecessor, successor, and budgeted cost and submit to the Director's Representative for review prior to the initial Project Schedule meeting.
- C. The Director's Representative will schedule the initial Project Schedule meeting within 15 calendar-days of Project Award. The meeting will include members of the Project team and will be conducted by OGS Scheduling for the purpose of reviewing the Contractors' initial planning schedule, defining the intent of the specification, and realizing a schedule management strategy for all required iterations and reporting. The mutual agreements reached at this and subsequent meetings form the basis for the Baseline Project Schedule, and will be used for coordinating, scheduling, and monitoring the Work of all related contracts.
 - 1. OGS Scheduling will work with other members of the Project team to incorporate activities, task summaries, contractual or Project milestones, intermediate and critical milestones, and testing, inspection, or commissioning periods to assist in planning or coordination.
- D. The Contractors will sign the CMU 01 Agreement form (blank included in Document 013113) within five (5) calendar-days of final Baseline Project Schedule review and approval by the Director's Representative. Failure to complete and submit the Spreadsheets, develop the Baseline Project Schedule, and sign the CMU 01 Agreement form will not absolve the Contractors of the scheduling requirements. The Contractors will be required to provide the necessary resources, at no additional charge to the State, to complete the Project in the manner defined by the Director's Representative.
 - 1. The Baseline Project Schedule and CMU 01 agreement are to be completed within 45 days of Project Award. Failure by the Contractors to provide the required or requested information will result in the withholding of progress payments.
- E. A Baseline Project Schedule recognizing early completion will be reviewed by members of the Project team prior to acceptance.
- F. Bid Milestones are to be incorporated into the project schedule.

1.06 UPDATING THE PROJECT SCHEDULE

- A. Monthly Project Schedule meetings will be held to review updates to the actual starts, actual finishes, and the percent complete of in-progress activities, and consider logic changes, sequencing alterations, duration amendments, time impact events, and scope changes, for the purpose of determining the status of construction progress for the updated Project Schedule.
 - 1. During the progress of Work on the Project, the Contractors are required to document actual start, actual finish, and activity percent complete on a daily basis, and provide the information to OGS Scheduling in the manner defined during the Initial Project Schedule meeting.

2. The Contractors and Director's Representative will review the documented progress at the Project Schedule meeting prior to incorporating the information on the Project Schedule.
 3. Any Contractor failing to progress their Work as outlined in the updated Project Schedule will be informed of their deficiencies and, if required, be requested to provide a recovery option.
- B. The Contractors will furnish all schedule information requested by the Director's Representative. Any Contractor who fails to furnish accurate information during the Project Schedule meeting will be required to provide all resources necessary to execute the updated Project Schedule based on progress information documented and recorded by the Director's Representative.
 - C. Project Schedule updates recognizing early completion will be reviewed by members of the Project team prior to acceptance of the Project Schedule update.

1.07 MAINTAINING SCHEDULE

- A. Perform the Work in accordance with the Project Schedule and provide resources necessary to maintain the progress of activities as scheduled so that no delays are caused to other Contractors engaged in the Work.
 1. Should any Contractor fail to maintain progress according to the Project Schedule, or cause delay to another Contractor, that Contractor shall provide such additional manpower, equipment, additional shifts, or other measures, at their own cost, to bring their operations back on schedule.
 2. Performing activities as part of the Work out of sequence with the Project Schedule is not permitted unless written approval is obtained from the Director's Representative prior to commencement.

1.08 RECOVERY SCHEDULE

- A. Recovery Schedule: When periodic updates indicate the Work is 15 or more calendar-days behind the approved Baseline Project Schedule's Substantial or Physical Completion dates, the Contractors will present recovery options to the Director's Representative to be incorporated into an updated Project Schedule; these include, but are not limited to, allocating additional resources for activity duration reduction or modifying activity sequencing,
- B. Any Contractor failing to furnish recovery options to the Director's Representative for a Recovery Schedule within 10 calendar-days subsequent to the monthly Project Schedule update will be required to provide all resources necessary to execute an updated Project Schedule defined by a the Director's Representative .
- C. Alterations to the Project Schedule by a Recovery Schedule will require the approval of the Contractors and the Director's Representative.
- D. Approved alterations to the Project Schedule by a Recovery Schedule, will constitute the updated Project Schedule.

1. The updated Project Schedule following the implemented Recovery Schedule will be recognized as the primary baseline schedule for reporting. The Baseline Project Schedule will be retained as a secondary baseline schedule and will be utilized to measure progress against the alterations.
- E. A Recovery Schedule recognizing early completion will be reviewed by the Director's Representative prior to acceptance of the Project Schedule update.

1.09 RESOURCE ASSIGNMENTS

- A. Resources recognizing the budgeted cost associated with all efforts necessary for the completion of a unique activity within the schedule, and the total cumulative cost of the Work of the Project, are to be assigned by the Contractors. All Contractors are responsible for providing the information necessary for assigning resources for the Baseline Project Schedule; all Contractors are responsible for reviewing the information.
- B. Resources recognizing the total Labor/Manpower and specialized equipment associated with all efforts necessary for the completion of a unique activity within the schedule network, and the cumulative curve associated with the Work of the Project, are to be assigned concordant with the intended means and methods proposed by the Contractors. All Contractors are responsible for providing the information necessary for assigning resources for the Baseline Project Schedule; all Contractors are responsible for reviewing the information prior to approval.

PART 2 PRODUCTS

2.01 SCHEDULING SOFTWARE

- A. Scheduling Software: Schedule is to be prepared utilizing the Spreadsheet, developed specifically to interface with the State's schedule program portfolio.
1. The State's program portfolio utilizes Oracle's Primavera P6®.

2.02 SCHEDULE UPDATE REPORTS

- A. OGS Scheduling will submit the updated Project Schedule within five (5) calendar-days of the Project Schedule meeting utilizing the Scheduling Software.

PART 3 EXECUTION

3.01 PROJECT SCHEDULE

- A. The Contractors' will complete the Spreadsheet including all columns and rows within the form and submit to either the web collaborative site or Director's Representative, two (2) days prior to the initial meeting, in a manner appropriate to the development of the Baseline Project Schedule.

1. If compatible software is utilized, the Contractors will be required to provide all information applicable to the Spreadsheet, and in accordance with all submission requirements noted in this section or related sections.
- B. The Contractors will determine and define activities applicable to the Work of their Contract and the scope of the Project. Activities are to be appropriately placed within the Spreadsheet.
- C. Within 15 calendar-days of Project Award, the Contractor's will submit the completed Spreadsheet to be incorporated for the Baseline Project Schedule, encompassing the Work of the Project from Project Award through Physical Completion. The Project team will review the initial project schedule submissions at the Initial Project Schedule meeting and complete the Baseline Project Schedule.
 1. The Project team will recommend tasks or summaries appropriate to planning, scheduling and coordinating, including but not limited to: establishing a focused work breakdown structure (WBS), phasing requirements, identifying logical connections critical to Substantial and Physical completion, accounting for critical submittals or submission, fabrication, and delivery of long-lead materials, products, specialized equipment, or services, and recognizing critical testing, inspection, or commissioning durations for coordination and tracking.
- D. The Baseline Project Schedule is to be approved and the CMU 01 Agreement Form signed within 45 calendar-days of Project Award. Failure to complete the Spreadsheet, review the incorporated Spreadsheets and Baseline Project Schedule, and sign the CMU 01 Agreement Form will result in non-payment for Work progressing beyond 30 calendar-days subsequent to Project Award.
- E. Updates to the Project Schedule will be performed concurrent with Project Schedule meetings.

3.02 ACTIVITIES

- A. The Contractors are to provide activities which adequately represent the coordinating needs of the Project and scope of the Work.
 1. Each activity will identify the Contractors' anticipated start-date of the task or grouping of tasks, anticipated duration for the activity defined in work-days, and the budgeted cost of the activity.
 2. Activities are not required to realize an interlocking and dependent progression of the Work.
- B. The Contractors will identify each activity with a unique Activity Name. No Activity Name will be altered after the Baseline Project Schedule has been approved without written approval by the Director's Representative.
- C. The Project team will identify milestones, activities, or summary activities for incorporation into the Baseline or Project Schedule to assist in planning, scheduling, and coordinating the Project.

- D. The calendar utilized by the Baseline and Project Schedule for each activity will accurately reflect anticipated state and federal holidays as well as work being performed off-hours as defined in the Contract Documents and by the Director's Representative.

3.03 BASELINES

- A. OGS Scheduling will maintain a copy of the Baseline Project Schedule as the assigned project baseline schedule.

3.04 TIME IMPACT AND TIME IMPACT ANALYSIS

- A. OGS Scheduling will represent Time Impact to the Project Schedule milestones utilizing, at a minimum, a milestone event, an activity for resolution, and related work associated with the impact to the as-updated Work of the Project.
 - 1. OGS Scheduling and the Project team will use the most current Project Schedule update to prepare the Time Impact representation.
 - 2. If Project Schedules have not been updated in accordance with this specification, an update must be generated which includes an accurate realization of the Work performed and progressed up to the Time Impact event. Failure to maintain Project Schedule updates in accordance with this or related specifications will not absolve the Schedule Preparer or Contractors of the responsibility to identify Time Impact as defined at a minimum by this article.
 - 3. A Request for Time Extension will require Time Impact recognition within the CPM schedule.
 - 4. Time Impact events will be reviewed for accuracy and are to be updated in accordance with relevant new information regarding time for resolution and impact to remaining work on the Project.

3.05 REQUESTS FOR TIME EXTENSIONS

- A. The Contractors are to submit in writing to the Director's Representative a Request for Time Extension within ten (10) days of recognizing the need to amend the contractual Substantial or Physical Completion date.
 - 1. OGS Scheduling will provide Project Schedule reports, generated from the current Project Schedule update, recognizing the inability to complete the contractual, Project, or Bid Milestones by the established completion dates and a copy of the P6 file used to generate the reports.
 - 2. Submitting a Request for Time Extension does not permit the Contractors to delay Work on the current Project Schedule update.
- B. The Project team is to develop and submit CPM schedule options, in accordance with applicable requirements of this section, showing a milestone event, the time for resolution, the related work associated with the resolution or alternate options, and the newly projected Project and Bid Milestone dates.
- C. Requests for Time Extensions will be responded to within 15 calendar-days of receipt and the Contractors will be notified in writing of the refusal or acceptance of the request.

- D. Reasons for which extensions will be rejected upon receipt include, but are not limited to, the Contractors' failure to provide appropriate resources to complete the Work, misinterpretations of contract requirements, improper planning, failure to coordinate with other Contractors or the Director's Representative, misappropriated distribution of approved costs, payments, or budget for Project Work, failure to comprehend project schedule requirements, failure to provide Project Schedule updates consistent with the requirements of this or related sections, material procurement or delivery delays not associated with Special Events (*force majeure*), or subcontractor and worker related issues such as contractual disputes or work-stoppage strikes.
- E. Approved Request for Time Extensions will require the creation of a revised Project Schedule prepared by OGS Scheduling which will serve as the primary baseline

3.06 CONTRACTORS' OPTION

- A. The Contractors may elect, in writing, to utilize computerized software compatible with the Scheduling Software in place of the Spreadsheet and the OGS Scheduling provided service. Compatible software options include but are not limited to Microsoft Project Professional®, Asta PowerProject®, or P3®. If the Contractors resolve to utilize compatible software, one file is to be submitted encompassing the Work of all Contracts, and the selected compatible software file is to be submitted in the proper format for interfacing with the Scheduling Software. The Contractors will notify the Director's Representative, in writing, prior to proceeding with the Contractors' Option.
 - 1. The State will not be responsible for the Contractors' failure to properly review the compatibility properties or the requirements of this and related sections, and will not accommodate files submitted in an improper format.
 - 2. The Contractors will be responsible for complying with all requirements of this and related sections when coordinating the development or update of a Baseline or Project Schedule utilizing compatible software under the Contractors' Option.
 - 3. If the Contractors' elect to utilize compatible software, the Contractors will be responsible for all updating of the Project Schedule, obtaining approval of the updated activities actual start, actual finish, and activity percent complete by the Director's Representative, and submitting the properly formatted file for each update through Physical Completion; under this option, failure to create the Baseline Project Schedule, update the Project Schedule, obtain approval, or failure to submit the properly formatted file may result in withholding of payments.
 - 4. The State will not compensate any Contractor for the selection of this optional article during the compliance of this or related sections.
 - 5. Proceeding with this option will require the Contractors to assume at the role of OGS Scheduling as recognized within this section.

- B. If all Contractors elect to utilize compatible software, the Baseline Project Schedule is to be submitted within the parameters of this section and is to encompass the Work of all Contracts.
 - 1. If any Contractor fails or refuses to provide information for developing the Baseline Project Schedule, or if in the judgment of the Director's Representative the information provided does not adequately reflect the of Work of the Project, all Contractors will be deemed not to have provided the information necessary for development of the Baseline Project Schedule and payments may be withheld.

- C. The Contractors are not prohibited from developing a complete Project Schedule encompassing all Contracts utilizing the Critical Path Method.
 - 1. The Critical Path Method is a scheduling process used to plan and coordinate the Project, arranging activities based on logical relationships in order to create a network diagram of interconnected procedures.

END OF SECTION

PROJECT NO. _____

PROJECT NAME: _____

REPORT DATE: _____

REPORT NAME(S): _____

It is agreed that the Baseline Project Schedule defined by the above listed computer reports has been reviewed and is accepted for use in coordinating, scheduling, and monitoring the work of all related contracts.

EDIT THE CONTRACTOR SIGNATURE LINES BELOW TO REFLECT THE ACTUAL RELATED CONTRACTS FOR THE PROJECT.

FOR CONSTRUCTION WORK CONTRACTOR: _____ DATE: _____

FOR HVAC WORK CONTRACTOR: _____ DATE: _____

FOR PLUMBING WORK CONTRACTOR: _____ DATE: _____

FOR ELECTRICAL WORK CONTRACTOR: _____ DATE: _____

FOR DIRECTOR'S REPRESENTATIVE: _____ DATE: _____

SECTION 013300**SUBMITTALS****PART 1 GENERAL****1.01 RELATED REQUIREMENTS SPECIFIED ELSEWHERE**

- A. Other requirements pertaining to submittals are included in the General Conditions and in the various sections of the Specifications.
- B. Summary of the Work: Section 011000.
- C. Administrative Requirements: Section 013000.
- D. Contract Closeout Submittals: Section 017716.

1.02 DEFINITIONS

- A. Deviation: Changes in products, materials, equipment and methods of construction from those required by the Contract Documents and proposed by the Contractor.
- B. Acceptable Manufacturer, Company or Product: A manufacturer, company or product capable of achieving the requirements established in the Contract Documents and demonstrating compliance.
- C. Portable Document Format (PDF): An open standard file format used for representing documents in a device-independent and display resolution-independent fixed layout document format.

1.03 DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS

- A. Deviations from the requirements of the Contract Documents will not be allowed unless a request for deviation is made in writing prior to or at the time of submission and the specific deviation is approved by the Director's Representative subject to the requirements of Article 4 of the General Conditions. The request for deviation shall be made utilizing the CONTRACT DOCUMENT DEVIATION REQUEST FORM (Form BDC 49) accessible from the OGS Web Site.
 - 1. The submission of a deviation shall be done in a timely manner according to the schedule of submittals to allow the Director sufficient time for review.

1.04 "OR EQUAL" TO BRAND NAME PRODUCTS

- A. Whenever a product is specified by brand name, a comparable brand, equal to that named, may be submitted for approval subject to the requirements of Article 5 of the General Conditions.

1. The Contractor shall bear the burden of proving that the proposed product is equal to the specified product. The submission of an “or equal” shall be done in a timely manner to allow the Director sufficient time to review the proposed product.
2. Whenever a color or pattern is indicated by a specific manufacturer’s name or number, the intent is to communicate the required color or pattern of the material. Other manufacturers’ comparable colors or patterns may be submitted for approval as equal.

1.05 WAIVER OF CERTAIN SUBMITTAL REQUIREMENTS

- A. Unless otherwise specified, the requirement to submit product data and samples for approval will be waived for products specified by brand name if the specifically named products are furnished for the Work. In such cases, submit required Product Data to the Director’s Representative via Submittal Exchange® for information only.

1.06 ADMINISTRATIVE REQUIREMENTS

- A. Participate in the OGS’s hosted web-based collaboration service (Submittal Exchange® at www.submittalexchange.com) to transmit and track Contractor provided project related documents.
- B. Identify submittals by project title and number. Include Contractor’s name, date, and revision date. On shop drawings, product data and samples, also include the name of the supplier and subcontractor (if any), and applicable specification section number. Stamp each submittal and initial or sign the stamp to certify review and approval of submittal.
- C. Assemble submittals in accordance with the requirements in the individual sections of the Specifications and as required by this section. It is the Contractor's responsibility to review and verify that all information required for each submittal is included in the submittal package. Errors or omissions found by the Contractor are to be corrected prior to the submission of the submittal package for approval. Incomplete submittal packages that have been submitted for review and approval will be returned.
 1. It is the Contractor's responsibility to verify that portions of the submittal package to be provided by a subcontractor (or supplier) are complete, as well as portions of the submittal package being provided directly by the Contractor.
 2. Do not combine the submittals of more than one specification section with submittals required by other specification sections unless specifically stated in the contract Specifications.
- D. If a submittal is based on, or the result of, a change order or field order to the Contract Documents, include copies of the applicable change order or field order with the submittal.
- E. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.

1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 2. Submit all submittal items required for each specification section concurrently unless instructions for partial submittals are required in a specific specification section requiring sequential submissions.
 3. Submit action submittals and informational submittals required by the same specification section as separate packages under separate transmittals.
 4. Coordinate transmittals of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. The Director's Representative reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- F. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on uploading the submittal to Submittal Exchange®. No extension of the project schedule will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
1. Initial Review: Allow time for the initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. The Designer of Record will advise the Director's Representative when a submittal being processed must be delayed for coordination.
 2. Resubmittal Review: Allow time for review of each resubmittal.
 3. Sequential Review: Where sequential review of submittals by the project team is necessary for coordination, allow time for review.
- G. The C Contractor shall employ or otherwise provide a full-time Submittal Coordinator for no less than 90 days after the Initial Job Meeting (IJM). The Submittal Coordinator is responsible to manage, coordinate and facilitate the submittal process on behalf of the Contractor. The Submittal Coordinator shall have regularly been engaged in construction administration for a minimum of 3 years and shall not be employed or otherwise engaged as the Project Manager or Superintendent for either the Work of this Contract or be employed in any role, full or part time, outside of this Contract.

1.07 SUBMITTALS

- A. Submittal Coordinator Qualifications: Not later than 10 days after Award. Include resume and references, and other certification, licenses, or other requested information.
- B. Schedule of Submittals acknowledgement: Provide written acknowledgement that the Schedule of Submittals has been received and reviewed with Critical Submittals identified and Contractor's Projected Dates (three dates inserted into each column) are entered for each specification item.

1.08 RE-EVALUATION FEE

- A. In accordance with Article 4.7 of the General Conditions, a re-evaluation processing fee will be levied against the Contractor for each re-evaluation of a Submittal or Submittal Package submission that was returned for failure to comply with the submittal requirements relative to completeness, content or format.

1.09 ELECTRONIC SUBMITTALS

- A. Submittal Exchange® is used to provide an on-line database and repository which shall be used to transmit and track project related documents. The intent for using this service is to expedite the construction process by reducing paperwork, improving information flow, and decreasing submittal review turnaround time.
1. Project submittals (shop drawing, product data and quality assurance submittals) shall be transmitted by the Contractor in PDF to Submittal Exchange®, where it will be tracked and stored for retrieval for review. After the submittal is reviewed it is uploaded back to Submittal Exchange® for action or use by the Contractor and Director's Representatives.
 2. The service also tracks and stores documents related to the project such as RFI's (Request for Information), IB's (Information Bulletins), CAD Coordination, Minutes, Testing, Closeout, and SWPPP documents.
- B. For each submittal, the Contractor shall review and apply electronic stamp certifying that the submittal complies with the requirements of the Contract Documents, including verification of manufacturer/product, dimensions and coordination of information with other parts of the work.
- C. It is the Contractor's responsibility to provide submittals in PDF. The Contractor may use the following options:
1. Subcontractors and suppliers provide electronic submittals in PDF to the Contractor through Submittal Exchange®.
 2. Subcontractors and suppliers provide paper submittals to the Contractor, who electronically scans and converts them to PDF.
 3. Contract a Scanning Service, which will allow the Contractor and the Contractor's subcontractors and suppliers to provide paper submittals to the Scanning Service, which electronically scans and converts them to PDF. It will be the Contractor's responsibility to transmit the scanned submittals to Submittal Exchange®.
- D. Image Quality:
1. Image resolution: The PDF files shall be created at a minimum resolution of 200 dots per inch utilizing the original document size. The Contractor will be responsible to increase the resolution of the scanned file or images being submitted as required to adequately present the information.
 2. Image Color Rendition: When information represented requires color to convey the intent and compliance, provide full color PDF reproduction.
- E. Internet Service and Equipment Requirements:

1. The Contractor will be required to have an Email address and Internet access at Contractor's main office.
 2. Unless the Contractor will exclusively be using a Scanning Service to create PDF documents, the Contractor will be required to own a PDF reviewing, creating and editing software, such as Adobe Acrobat (www.adobe.com), Bluebeam PDF Revu® (www.bluebeam.com), or other similar PDF reviewing, creating and editing software for applying electronic stamps and comments.
- F. Training and Support:
1. Submittal web-based collaboration training and support shall be available, free of charge from Submittal Exchange®, for project participants using the submittals website.
 2. Training schedule will be coordinated through the Director's Representative.
- G. Paper prints (hardcopies) of reviewed submittals:
1. Record Copy: Each Contractor shall provide one paper copy of each submittal they are responsible for to the Director's Representative within 14 days of receipt of a released submittal (i.e. marked "Approved", "Approved As Noted", or other implied acceptance of a submittal), or meeting the requirements of Waiver Of Certain Submittal Requirements Article of this specification section.
 - a. Exception: Paper copies are not required for a submittal that is disapproved or requiring resubmission.
 - b. Paper copies shall be printed in a size format equal to the original document.
 - c. Scaled Shop Drawings shall be printed to the scale noted on the drawings.
 - d. The resolution of the printed copy shall be equal to that of the PDF file that it is being printed from.
 - e. The Record Copy shall be used by the Director's Representative during the construction of the project and shall be retained as a turn-over item to the facility at the end of the project as required under Section 017716 Contract Closeout.
 2. Use for Construction: Retain complete copies of submittals on project site. The Contractor shall not commence work for related activities until the appropriate submittals are approved and the corresponding record copies are delivered to the Director's Representative.
 3. Distribution: The Contractor will furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Maintain transmittal forms indicating distribution of submittals.

1.10 SHOP DRAWINGS

- A. Provide shop drawings in the format required by the Specifications. Show the information, dimensions, connections and other details necessary to insure that the shop drawings accurately interpret the Contract Documents. Show adjoining construction in such detail as required indicating proper connections. Where

adjoining connected construction requires shop drawings or product data, submit such information for approval at the same time so that connections can be accurately checked.

- B. Electronic copies of CAD Drawings of the Contract Drawings will be provided by the Director's Representative for Contractor's use in preparing submittals.
1. The Director's Representative will furnish one set of digital data drawing files of the Contract Drawings for use in preparing Shop Drawings.
 - a. The Director's Representative makes no representations as to the accuracy or completeness of digital data drawing files as they relate to the Contract Drawings.
 - b. Digital Drawing Software Program: The Contract Drawings are available in AutoCad.
 - c. The following digital data files will be furnished for each appropriate discipline:
 - 1) Floor Plans.
 - 2) Reflected Ceiling Plans.
 2. The Contractor will be required to sign a Use Agreement for Project Documents prior to release of digital data drawing files of the Contract Drawings.
- C. Have shop drawings prepared by a qualified detailer. Shop drawings shall be neatly drawn and clearly legible. Machine duplicated copies of Contract Drawings will not be accepted as shop drawings.
1. Where shop drawings are indicated to be drawn to scale:
 - a. Use scale normally found on an "Architect" or "Engineer" scale.
 - b. Written Scale: Clearly label scales being used on each drawing and/or on each detail on the drawing.
 - 1) Examples: 1/8" = 1'-0" 1" = 40'-0".
 - c. Graphic Scale: Adjacent to each Written Scale, provide a graphic scale delineating the scale being used. Graphic scale shall be divided into measuring units relating to the accuracy required for the drawing or details.
 - d. Clearly dimension key elements of the drawing or detail.
 2. When the drawing sheet is printed full size, the minimum text size shall be 1/8" (3.2 mm) for hand drafting and 3/32" (2.5 mm) for CADD drawings.
- D. Submit the shop drawings through Submittal Exchange®. The shop drawings will be reviewed and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review. If the review results in disposition of "DISAPPROVED" or "RETURNED FOR CORRECTION", promptly correct the deficiencies and resubmit the shop drawings meeting Contract requirements.

1.11 PRODUCT DATA

- A. Provide product data in the format required by the Specifications. Modify product data by deleting information that is not applicable to the project or by marking the product data to identify pertinent products. Supplement standard information, if necessary, to provide additional information applicable to project.

- B. Submit the product data through Submittal Exchange®. The product data will be reviewed and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review. If the review results in disposition of “DISAPPROVED” or “RETURNED FOR CORRECTION”, promptly correct the deficiencies and resubmit the product data meeting Contract requirements.
- C. Comply with applicable federal and State of New York Right-to-Know Law provisions. Provide Safety Data Sheets (SDS) documents for products that have SDS data prior to use on the project site.
 - 1. Upload and maintain electronic SDS documents on the Submittal Exchange® SDS tab.
 - 2. SDS tab is organized by prime contracts. To be readily identified, name products with SDS by specification section number and product name.
 - 3. Supply and maintain one hard copy of the appropriate SDS on the project site and one hard copy with the Facility’s Right-to-Know Information Officer.

1.12 QUALITY ASSURANCE

- A. Provide quality assurance information in the format required by the Specifications, including supporting documentation as required.
- B. Submit the quality assurance information through Submittal Exchange®. The quality assurance information will be reviewed and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review. If the review results in disposition of “DISAPPROVED” or “RETURNED FOR CORRECTION”, promptly correct the deficiencies and resubmit the quality assurance information meeting Contract requirements.

1.13 SAMPLES

- A. Submit 2 (unless a different number is specified) of each sample required by the Specifications.
- B. Samples will become the property of the State when submitted and will not be incorporated in the Work unless specifically stated otherwise.
- C. The electronic submittal process is not intended for color samples, color charts, or physical material samples.
- D. Record transmittal of each sample required by the Specifications through Submittal Exchange®.
- E. Consult with the Director’s Representative for direction on where Samples will be sent for review.
- F. The sample will be reviewed and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review.

1.14 REVIEW OF SUBMITTALS

- A. Items submitted for review will be reviewed for compliance with the Contract Documents, based upon the information submitted. The items will be acted upon with the following dispositions:
1. **Approved:**
Where the submittal is marked “Approved”, the work covered by the submittal may proceed provided it complies with the Contract Documents. Final acceptance will depend on that compliance.
 2. **Approved as Noted:**
Where the submittal is marked “Approved as Noted”, the work covered by the submittal may proceed provided it complies with the review comments noted on the submittal and the Contract Documents. Final acceptance will depend on that compliance.
 3. **Disapproved:**
Where the submittal is marked “Disapproved”, do not proceed with the work covered by the submittal, including purchasing, fabrication, delivery or other activity for the item submitted. Prepare a new submittal according to the review comments noted on the submittal and meeting the Contract Documents.
 4. **Returned for Correction:**
Where the submittal is marked “Returned for Correction”, do not proceed with the work covered by the submittal, including purchasing, fabrication, delivery or other activity for the item submitted. Revise or prepare a new submittal according to the review comments noted on the submittal and meeting the Contract Documents.
 5. **Acknowledged:**
Where the submittal is marked “Acknowledged”, receipt of the submittal is acknowledged and has been recorded.
 6. **No Action:**
Where the submittal is marked “No Action” or “No Action Taken”, no review was made of this item, see comments noted on submittal and take appropriate action.
 7. **Multi-Action:**
Where the submittal is marked “Multi-Action”, separate dispositions were made for the items submitted, see the review comments for the disposition of each item submitted.

1.15 SCHEDULES AND RECORDS

- A. Submit the following Schedules and Records information not later than 15 days after approval of the Contract unless the Contractor or the Director determines an earlier submission is required to properly schedule or progress the Work.
1. **SCHEDULE OF SUBMITTALS (S.O.S.):**
 - a. Follow the Instructions to the Contractor in the S.O.S (cover page of the Microsoft Excel form supplied by the State).
 - b. Confirm submittal items listed and indicate in the spaces following each item, the date the item will be submitted (Projected Transmittal Date).
 - c. Confirm critical submittals and long lead items identified by the

Architect / Engineer. Identify and mark with “X” additional submittals deemed as critical or having long lead times. In addition to the date each item will be submitted, include the date approval is required (allow at least 3 weeks), and the date delivery of the material or equipment is necessary for timely completion of the Work in accordance with the Project Schedule.

- d. Notify the Director’s Representative of modifications and/or additional submittals necessary for the project prior to requesting revisions with Submittal Exchange®.
2. **SUBMITTALS WEBSITE LOG:**
 - a. The submittal website log will be populated by Submittal Exchange® by means of the S.O.S.
 - b. Review the log and verify that all long lead items and critical submittals are properly indicated according to the latest version of the S.O.S. For each item to be submitted indicate the following:
 - i. In the “Date Expected” column insert the date the item will be submitted for review and approval (this is the same date as the S.O.S “Projected Transmittal Date”).
 - ii. In the “Date Requested on Site” column insert the date the item will be delivered to the project site (this is the same date as the S.O.S “Projected Delivery Date”).
 - c. The submission date that is entered shall provide sufficient time for the item to be reviewed, ordered, delivered and installed for timely completion of the Work in accordance with the Project Schedule. The date entered for submittal of each item is the last day a deviation will be considered.

1.16 TRANSMITTALS

- A. Submittal Transmittal (Form BDC 42) accessible from the OGS Web Site:
 1. Furnish separate Form BDC 42 for each submitted item sent to Submittal Exchange® for review.
 - a. Contractor may utilize their own Transmittal Form (or Transmittal Letter) in lieu of utilizing the Form BDC 42, contingent on the Contractor’s Transmittal Form includes all information and certifications required by Form BDC 42.
 2. Clearly identify applicable specification section number of submitted item (product data, shop drawing, etc.) on the Form BDC 42.
- B. All Contracts:
 1. Transmit items designated in the Schedule of Submittals (and project Specifications) to the Submittal Exchange®.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 271500

COMMUNICATIONS HORIZONTAL CABLING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section Includes:
 - 1. UTP cabling.
 - 2. Telecommunications outlet/connectors.
 - 3. Cabling system identification products.

1.03 DEFINITIONS

- A. BICSI: Building Industry Consulting Service International.
- B. Consolidation Point: A location for interconnection between horizontal cables extending from building pathways and horizontal cables extending into furniture pathways.
- C. Cross-Connect: A facility enabling the termination of cable elements and their interconnection or cross-connection.
- D. EMI: Electromagnetic interference.
- E. IDC: Insulation displacement connector.
- F. LAN: Local area network.
- G. Outlet/Connectors: A connecting device in the work area on which horizontal cable or outlet cable terminates.
- H. RCDD: Registered Communications Distribution Designer.
- I. UTP: Unshielded twisted pair.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate layout and installation of telecommunications cabling with Owner's telecommunications and LAN equipment and service suppliers.
- B. Coordinate telecommunications outlet/connector locations with location of power receptacles at each work area.

1.05 SUBMITTALS

- A. Product Data: For each type of product.
- B. Qualification Data: For Installer.
- C. Field quality-control reports.
- D. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Device Plates: 2 of each type.
 - 2. Jacks: 2 of each type.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications: Cabling Installer must have personnel certified by BICSI on staff.
 - 1. Installation Supervision: Installation shall be under the direct supervision of Registered Technician, who shall be present at all times when Work of this Section is performed at Project site.
 - 2. Testing Supervisor: Currently certified by BICSI as an RCDD to supervise on-site testing.
- B. Testing Agency Qualifications: An NRTL.
 - 1. Testing Agency's Field Supervisor: Currently certified by BICSI as an RCDD to supervise on-site testing.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Test cables upon receipt at Project site.
 - 1. Test each pair of UTP cable for open and short circuits.

PART 2 - PRODUCT

2.01. HORIZONTAL CABLING DESCRIPTION

- A. Horizontal cable and its connecting hardware provide the means of transporting signals between the telecommunications outlet/connector and the horizontal cross-connect located in the communications equipment room. This cabling and its connecting hardware are called a "permanent link," a term that is used in the testing protocols.
 - 1. TIA/EIA-568-B.1 requires that a minimum of two telecommunications outlet/connectors be installed for each work area.
 - 2. Horizontal cabling shall contain no more than one transition point or consolidation point between the horizontal cross-connect and the telecommunications outlet/connector.
 - 3. Bridged taps and splices shall not be installed in the horizontal cabling.

- B. The maximum allowable horizontal cable length is 295 feet. This maximum allowable length does not include an allowance for the length of 16 feet to the workstation equipment or in the horizontal cross-connect.

2.02. PERFORMANCE REQUIREMENTS

- A. General Performance: Horizontal cabling system shall comply with transmission standards in TIA/EIA-568-B.1 when tested according to test procedures of this standard.
- B. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1. Flame-Spread Index: 25 or less.
 - 2. Smoke-Developed Index: 50 or less.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- D. Grounding: Comply with J-STD-607-A.

2.03. UTP CABLE

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. 3M.
 - 2. AMP NETCONNECT; a TE Connectivity Ltd. company.
 - 3. Belden CDT Networking Division/NORDX.
 - 4. Berk-Tek Leviton; a Nexans/Leviton alliance.
 - 5. CommScope, Inc.
 - 6. Draka USA.
 - 7. General Cable; General Cable Corporation.
 - 8. Genesis Cable Products; Honeywell International, Inc.
 - 9. Hitachi Cable America Inc.
 - 10. Mohawk; a division of Belden Networking, Inc.
 - 11. Optical Cable Corporation.
 - 12. Superior Essex Inc.
 - 13. SYSTIMAX Solutions; a CommScope Inc. brand.
- B. Description: 100-ohm, four-pair UTP, formed into 25-pair, binder groups covered with a blue thermoplastic jacket.
 - 1. Comply with ICEA S-90-661 for mechanical properties.
 - 2. Comply with TIA/EIA-568-B.1 for performance specifications.
 - 3. Comply with TIA/EIA-568-B.2, Category 6.
 - 4. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with UL 444 and NFPA 70 for the following types:
 - a. Communications, General Purpose: Type CM or CMG.
 - b. Communications, Plenum Rated: Type CMP, complying with NFPA 262.
 - c. Communications, Riser Rated: Type CMR, complying with UL 1666.

- d. Communications, Limited Purpose: Type CMX.
- C. Jacks and Jack Assemblies: Modular, color-coded, eight-position modular receptacle units with integral IDC-type terminals.

2.04. TELECOMMUNICATIONS OUTLET/CONNECTORS

- A. Jacks: 100-ohm, balanced, twisted-pair connector; four-pair, eight-position modular. Comply with TIA/EIA-568-B.1.
- B. Workstation Outlets: Two-port-connector assemblies mounted in single faceplate.
 - 1. Plastic Faceplate: High-impact plastic. Coordinate color with Section 262726 "Wiring Devices."
 - 2. Metal Faceplate: Stainless steel, complying with requirements in Section 262726 "Wiring Devices."
 - 3. For use with snap-in jacks accommodating any combination of UTP work area cords.
 - a. Flush mounting jacks, positioning the cord at a 45-degree angle.
 - 4. Legend: Factory labeled by silk-screening or engraving for stainless steel faceplates.
 - 5. Legend: Machine printed, in the field, using adhesive-tape label.
 - 6. Legend: Snap-in, clear-label covers and machine-printed paper inserts.

PART 3 - EXECUTION

3.01 WIRING METHODS

- A. Install cables in pathways and cable trays except within consoles, cabinets, desks, and counters. Conceal pathways and cables except in unfinished spaces.
 - 1. Install plenum cable in environmental air spaces, including plenum ceilings.
 - 2. Comply with requirements in Section 270528 "Pathways for Communications Systems."
 - 3. Comply with requirements in Section 270536 "Cable Trays for Communications Systems."
- B. Conceal conductors and cables in accessible ceilings, walls, and floors where possible.
- C. Wiring within Enclosures:
 - 1. Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radii.
 - 2. Install lacing bars and distribution spools.
 - 3. Install conductors parallel with or at right angles to sides and back of enclosure.

3.02 INSTALLATION OF CABLES

- A. Comply with NECA 1.
- B. General Requirements for Cabling:
 - 1. Comply with TIA/EIA-568-B.1.
 - 2. Comply with BICSI ITSIM, Ch. 6, "Cable Termination Practices."
 - 3. Install 110-style IDC termination hardware unless otherwise indicated.
 - 4. MUTOA shall not be used as a cross-connect point.
 - 5. Consolidation points may be used only for making a direct connection to telecommunications outlet/connectors:
 - a. Do not use consolidation point as a cross-connect point, as a patch connection, or for direct connection to workstation equipment.
 - b. Locate consolidation points for UTP at least 49 feet from communications equipment room.
 - 6. Terminate conductors; no cable shall contain unterminated elements. Make terminations only at indicated outlets, terminals, cross-connects, and patch panels.
 - 7. Cables may not be spliced. Secure and support cables at intervals not exceeding 30 inches and not more than 6 inches from cabinets, boxes, fittings, outlets, racks, frames, and terminals.
 - 8. Install lacing bars to restrain cables, to prevent straining connections, and to prevent bending cables to smaller radii than minimums recommended by manufacturer.
 - 9. Bundle, lace, and train conductors to terminal points without exceeding manufacturer's limitations on bending radii, but not less than radii specified in BICSI ITSIM, "Cabling Termination Practices" Chapter. Install lacing bars and distribution spools.
 - 10. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation and replace it with new cable.
 - 11. Cold-Weather Installation: Bring cable to room temperature before dereeling. Heat lamps shall not be used for heating.
 - 12. In the communications equipment room, install a 10-foot- long service loop on each end of cable.
 - 13. Pulling Cable: Comply with BICSI ITSIM, Ch. 4, "Pulling Cable." Monitor cable pull tensions.
- C. UTP Cable Installation:
 - 1. Comply with TIA/EIA-568-B.2.
 - 2. Do not untwist UTP cables more than 1/2 inch from the point of termination to maintain cable geometry.
- D. Open-Cable Installation:
 - 1. Install cabling with horizontal and vertical cable guides in telecommunications spaces with terminating hardware and interconnection equipment.
 - 2. Suspend UTP cable not in a wireway or pathway a minimum of 8 inches above ceilings by cable supports not more than 60 inches apart.

3. Cable shall not be run through structural members or in contact with pipes, ducts, or other potentially damaging items.

E. Separation from EMI Sources:

1. Comply with BICSI TDMM and TIA-569-B for separating unshielded copper voice and data communication cable from potential EMI sources, including electrical power lines and equipment.
2. Separation between open communications cables or cables in nonmetallic raceways and unshielded power conductors and electrical equipment shall be as follows:
 - a. Electrical Equipment Rating Less Than 2 kVA: A minimum of 5 inches.
 - b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 12 inches.
 - c. Electrical Equipment Rating More Than 5 kVA: A minimum of 24 inches.
3. Separation between communications cables in grounded metallic raceways and unshielded power lines or electrical equipment shall be as follows:
 - a. Electrical Equipment Rating Less Than 2 kVA: A minimum of 2-1/2 inches.
 - b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 6 inches.
 - c. Electrical Equipment Rating More Than 5 kVA: A minimum of 12 inches.
4. Separation between communications cables in grounded metallic raceways and power lines and electrical equipment located in grounded metallic conduits or enclosures shall be as follows:
 - a. Electrical Equipment Rating Less Than 2 kVA: No requirement.
 - b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 3 inches.
 - c. Electrical Equipment Rating More Than 5 kVA: A minimum of 6 inches.
5. Separation between Communications Cables and Electrical Motors and Transformers, 5 kVA or HP and Larger: A minimum of 48 inches.
6. Separation between Communications Cables and Fluorescent Fixtures: A minimum of 5 inches.

3.03 FIRESTOPPING

- A. Comply with requirements in Section 078400 "Firestopping."

3.04 GROUNDING

- A. Install grounding according to BICSI TDMM, "Grounding, Bonding, and Electrical Protection" Chapter.
- B. Comply with J-STD-607-A.
- C. Bond metallic equipment to the grounding bus bar, using not smaller than No. 6 AWG equipment grounding conductor.

3.05 IDENTIFICATION

- A. Identify system components, wiring, and cabling complying with TIA/EIA-606-A. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."
 - 1. Administration Class: 1.
- B. Color-code cross-connect fields. Apply colors to voice and data service backboards, connections, covers, and labels.
- C. Cable Schedule: Post in prominent location in each equipment room and wiring closet. List incoming and outgoing cables and their designations, origins, and destinations. Protect with rigid frame and clear plastic cover. Furnish an electronic copy of final comprehensive schedules for Project.
- D. Cable and Wire Identification:
 - 1. Label each cable within 4 inches of each termination and tap, where it is accessible in a cabinet or junction or outlet box, and elsewhere as indicated.
 - 2. Each wire connected to building-mounted devices is not required to be numbered at device if color of wire is consistent with associated wire connected and numbered within panel or cabinet.
 - 3. Exposed Cables and Cables in Cable Trays and Wire Troughs: Label each cable at intervals not exceeding 15 feet.
 - 4. Label each terminal strip and screw terminal in each cabinet, rack, or panel.
 - a. Individually number wiring conductors connected to terminal strips, and identify each cable or wiring group being extended from a panel or cabinet to a building-mounted device shall be identified with name and number of particular device as shown.
 - b. Label each unit and field within distribution racks and frames.
 - 5. Identification within Connector Fields in Equipment Rooms and Wiring Closets: Label each connector and each discrete unit of cable-terminating and connecting hardware. Where similar jacks and plugs are used for both voice and data communication cabling, use a different color for jacks and plugs of each service.
- E. Labels shall be preprinted or computer-printed type with printing area and font color that contrasts with cable jacket color but still complies with requirements in TIA/EIA-606-A.
 - 1. Cables use flexible vinyl or polyester that flex as cables are bent.

3.06 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.

- C. Perform the following tests and inspections:
1. Visually inspect UTP cable jacket materials for NRTL certification markings. Inspect cabling terminations in communications equipment rooms for compliance with color-coding for pin assignments, and inspect cabling connections for compliance with TIA/EIA-568-B.1.
 2. Visually confirm Category 6, marking of outlets, cover plates, outlet/connectors, and patch panels.
 3. Visually inspect cable placement, cable termination, grounding and bonding, equipment and patch cords, and labeling of all components.
 4. UTP Performance Tests:
 - a. Test for each data outlet. Perform the following tests according to TIA/EIA-568-B.1 and TIA/EIA-568-B.2:
 - 1) Wire map.
 - 2) Length (physical vs. electrical, and length requirements).
 - 3) Insertion loss.
 - 4) Near-end crosstalk (NEXT) loss.
 - 5) Power sum near-end crosstalk (PSNEXT) loss.
 - 6) Equal-level far-end crosstalk (ELFEXT).
 - 7) Power sum equal-level far-end crosstalk (PSELFEXT).
 - 8) Return loss.
 - 9) Propagation delay.
 - 10) Delay skew.
 5. Final Verification Tests: Perform verification tests for UTP systems after the complete communications cabling and workstation outlet/connectors are installed.
 - a. Voice Tests: These tests assume that dial tone service has been installed. Connect to the network interface device at the demarcation point. Go off-hook and listen and receive a dial tone. If a test number is available, make and receive a local, long distance, and digital subscription line telephone call.
 - b. Data Tests: These tests assume the Information Technology Staff has a network installed and is available to assist with testing. Connect to the network interface device at the demarcation point. Log onto the network to ensure proper connection to the network.
- D. Document data for each measurement. Data for submittals shall be printed in a summary report that is formatted similar to Table 10.1 in BICSI TDMM, or transferred from the instrument to the computer, saved as text files, and printed and submitted.
- E. End-to-end cabling will be considered defective if it does not pass tests and inspections.
- F. Prepare test and inspection reports.

END OF SECTION 271500



STATEMENT OF SPECIAL INSPECTIONS

Project No.: **44589**

Instructions: BCNYS Section 1704.1.1 requires the project Design Professional to complete the Statement of Special Inspections as a condition for issuance of the Construction Permit. Complete each section of this form as applicable, and submit it to the Code Compliance Manager with the Summary of Special Inspections (BDC 406) and Construction Permit Application (BDC 399).

PROJECT INFORMATION:	DESIGNER INFORMATION:	CONSTRUCTION INFORMATION:	
Project Description: <i>(Project Title, Facility Name and Address)</i> Renovations for Forensics Identification Prototype Evidence Storage Program Troop C Headquarters 823 State Highway Route 7 Unadilla, NY 13838-0300	Architect/Engineer/Consultant: Spring Line Design, LLP	Engineer In Charge:	Region:
	Name of Person Completing Form: <i>(if different from above)</i> Jeffrey A. Bak	Name of Person Completing Form: <i>(if different from above)</i>	
	Phone: 518-487-4755 x2#	Date: 09/07/13	Phone:
Business Unit:	Comments:	Comments:	
Team Leader:			

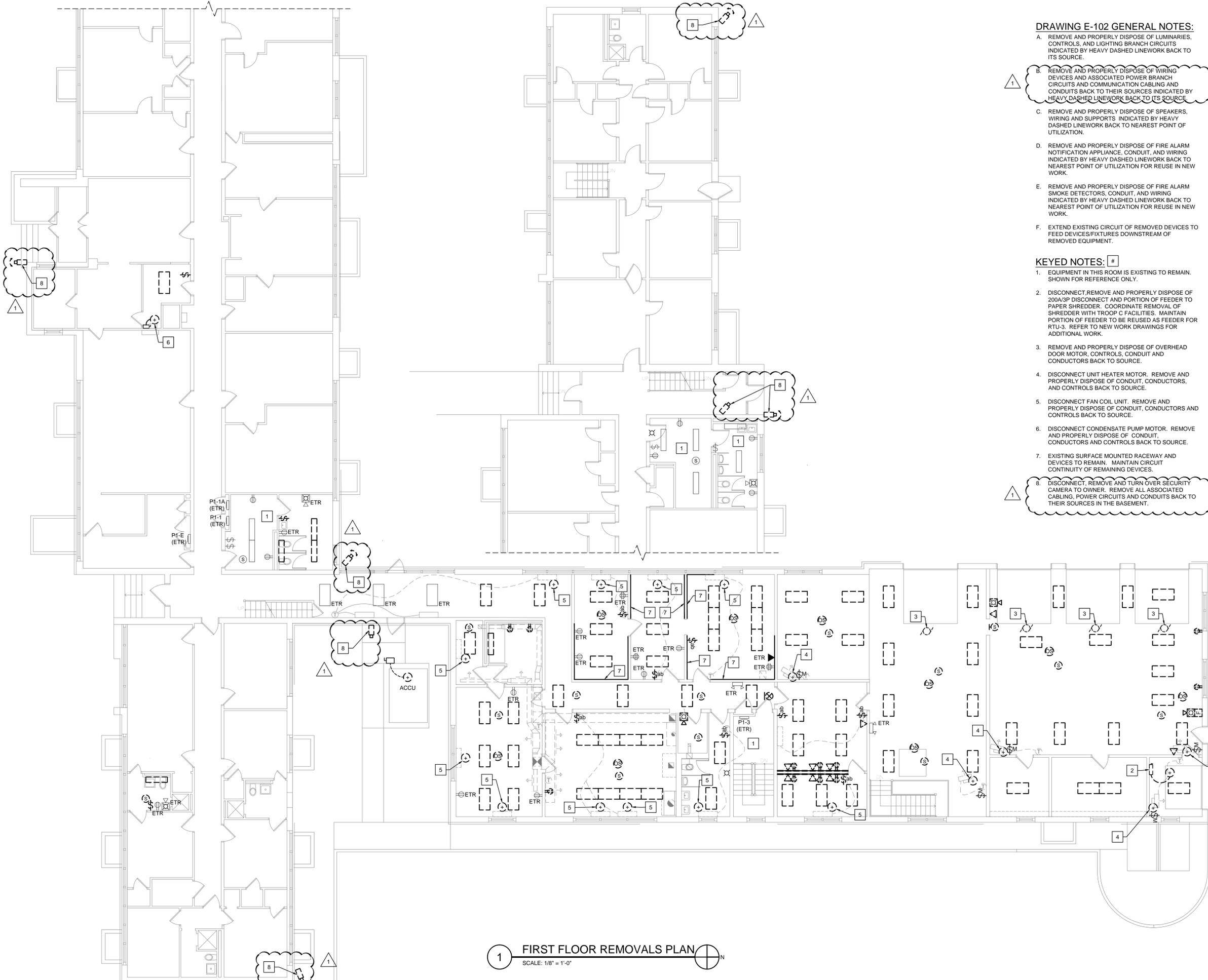
Check if Required	INSPECTION AND TESTING Continuous and Periodic as defined by the BCNYS	Continuous	Periodic	REFERENCE STANDARD	BCNYS REFERENCE	SPEC SECTION	COMMENTS	REGIONAL INSPECTION ASSIGNMENTS
	A. Steel Construction							
<input checked="" type="checkbox"/>	1. Material verification of high-strength bolts, nuts, and washers.		<input checked="" type="checkbox"/>	Applicable ASTM material specifications. AISC ASD, Section A3.4; AISC LRFD, Section A3.3	1704.3	051200, 1.08		
<input checked="" type="checkbox"/>	2. Inspection of high-strength bolting.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AISC LRFD, Section M2.5	1704.3, 1704.3.3	051200, 1.08		
<input checked="" type="checkbox"/>	3. Material verification of structural steel.			ASTM A 6 or A 568	1704.3, 1708.4	051200, 1.08		
<input checked="" type="checkbox"/>	4. Material verification of weld filler materials.			AISC, ASD, Section A3.6; AISC LRFD, Section A3.5	1704.3	051200, 1.08		

Check if Required	INSPECTION AND TESTING Continuous and Periodic as defined by the BCNYS	Continuous	Periodic	REFERENCE STANDARD	BCNYS REFERENCE	SPEC SECTION	COMMENTS	REGIONAL INSPECTION ASSIGNMENTS
<input checked="" type="checkbox"/>	5. Inspection of welding:			AWS D1.1, D1.3, D1.4; ACI 318: 3.5.2	1704.3, 1704.3.1, 1903.5.2	051200, 1.08		
<input checked="" type="checkbox"/>	a. Structural steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>			051200, 1.08		
<input type="checkbox"/>	b. Reinforcing steel	<input type="checkbox"/>	<input type="checkbox"/>					
	6. Inspection of steel frame joint details		<input checked="" type="checkbox"/>		1704.3, 1704.3.2	051200, 1.08		
	B. Concrete Construction							
<input checked="" type="checkbox"/>	1. Inspection of reinforcing steel, including prestressing tendons, and placement		<input checked="" type="checkbox"/>	ACI 318: 3.5, 7.1-7.7	1704.4, 1903.5, 1907.1, 1907.7, 1914.4	033000, 3.08		
<input type="checkbox"/>	2. Inspection of reinforcing steel welding.			AWS D1.4; ACI 318: 3.5.2	1704.4, 1903.5.2			
<input checked="" type="checkbox"/>	3. Inspection of bolts to be installed in concrete prior to and during placement.	<input checked="" type="checkbox"/>			1704.4, 1912.5	033000, 3.08		
<input checked="" type="checkbox"/>	4. Verify use of required design mix.		<input checked="" type="checkbox"/>	ACI 318: Ch. 4, 5.2-5.4	1704.4, 1904, 1905.2-1905.4, 1914.2, 1914.3	033000, 3.08		
<input checked="" type="checkbox"/>	5. Sampling fresh concrete: slump, air content, temperature, strength test specimens.	<input checked="" type="checkbox"/>		ASTM C 172, C 31; ACI 318: 5.6, 5.8	1704.4, 1905.6, 1914.10	033000, 3.08		
<input checked="" type="checkbox"/>	6. Inspection of placement for proper application techniques.	<input checked="" type="checkbox"/>		ACI 318: 5.9, 5.10	1704.4, 1905.9, 1905.10, 1914.6, 1914.7, 1914.8	033000, 3.08		
<input checked="" type="checkbox"/>	7. Inspection for maintenance of specified curing temperature and techniques.		<input checked="" type="checkbox"/>	ACI 318: 5.11, 5.13	1704.4, 1905.11, 1905.13, 1914.9	033000, 3.08		
<input type="checkbox"/>	8. Inspection of prestressed concrete.	<input type="checkbox"/>		ACI 318: 18.20, 18.18.4	1704.4			
<input type="checkbox"/>	9. Erection of precast concrete members.		<input type="checkbox"/>	ACI 318: Ch. 16	1704.4			
<input type="checkbox"/>	10. Verification of in-situ concrete strength prior to stressing of tendons and prior to removal of shores and forms from beams and slabs.		<input type="checkbox"/>	ACI 318: 6.2	1704.4, 1906.2			

Check if Required	INSPECTION AND TESTING Continuous and Periodic as defined by the BCNYS	Continuous	Periodic	REFERENCE STANDARD		BCNYS REFERENCE	SPEC SECTION	COMMENTS	REGIONAL INSPECTION ASSIGNMENTS
				ACI 530/ ASCE 5/TMS 402, Ch. 35	ACI 530.1/ ASCE 6/TMS 602, Ch. 35				
	C. Masonry Construction L1 = Level 1 Inspection required for nonessential facilities. L2 = Level 2 Inspection required for essential facilities. See 1704.5 for clarification.								
	1. Verify to ensure compliance:								
<input checked="" type="checkbox"/>	a. Proportions of site prepared mortar and grout.		<input type="checkbox"/> L1 <input checked="" type="checkbox"/> L2		2.6A	1704.5	042200, 1.04		
<input checked="" type="checkbox"/>	b. Placement of masonry units and construction of mortar joints.		<input type="checkbox"/> L1 <input checked="" type="checkbox"/> L2		3.3B	1704.5	042200, 1.04		
<input checked="" type="checkbox"/>	c. Location and placement of reinforcement, connectors, tendons, anchorages.		<input type="checkbox"/> L1 <input checked="" type="checkbox"/> L2		3.4, 3.6A	1704.5	042200, 1.04		
<input type="checkbox"/>	d. Prestressing technique and installation.		<input type="checkbox"/> L1 <input type="checkbox"/> L2		3.6A, 3.6B	1704.5			
<input type="checkbox"/>	e. Grade and size of tendons and anchorages.		<input type="checkbox"/> L1		2.4B, 2.4H	1704.5			
<input checked="" type="checkbox"/>	f. Grout space prior to grouting.	<input checked="" type="checkbox"/> L2			3.2D	1704.5	042200, 1.04		
<input checked="" type="checkbox"/>	g. Placement of grout.	<input checked="" type="checkbox"/> L2			3.5	1704.5	042200, 1.04		
<input type="checkbox"/>	h. Grouting of tendons.	<input type="checkbox"/> L2			3.6C	1704.5			
	2. Inspection shall verify:								
<input checked="" type="checkbox"/>	a. Size and location of structural elements.		<input type="checkbox"/> L1 <input checked="" type="checkbox"/> L2		3.3G	1704.5	042200, 1.04		
<input checked="" type="checkbox"/>	b. Type, size, and location of anchors.	<input checked="" type="checkbox"/> L2	<input type="checkbox"/> L1	1.15.4, 2.1.1		1704.5	042200, 1.04		
<input checked="" type="checkbox"/>	c. Specified size, grade, and types of reinforcement.		<input type="checkbox"/> L1 <input checked="" type="checkbox"/> L2	1.12	2.4, 3.4	1704.5	042200, 1.04		
<input type="checkbox"/>	d. Welding of reinforcement bars.	<input type="checkbox"/> L1 <input type="checkbox"/> L2		2.1.10.6, 2.1.10.6.2		1704.5			
<input checked="" type="checkbox"/>	e. Cold/hot weather protection of masonry construction.		<input type="checkbox"/> L1 <input checked="" type="checkbox"/> L2		1.8	1704.5, 2104.3, 2104.4	042200, 1.04		
<input type="checkbox"/>	f. Prestressing force measurement and application.	<input type="checkbox"/> L2	<input type="checkbox"/> L1		3.6B	1704.5			

Check if Required	INSPECTION AND TESTING Continuous and Periodic as defined by the BCNYS	Continuous	Periodic	REFERENCE STANDARD		BCNYS REFERENCE	SPEC SECTION	COMMENTS	REGIONAL INSPECTION ASSIGNMENTS
<input checked="" type="checkbox"/>	3. Inspection prior to grouting.		<input type="checkbox"/> L1 <input checked="" type="checkbox"/> L2	1.12	3.2D, 3.4, 2.6B, 3.3B	1704.5	042200, 1.04		
<input checked="" type="checkbox"/>	4. Grout placement.	<input type="checkbox"/> L1 <input checked="" type="checkbox"/> L2			3.5, 3.6C	1704.5	042200, 1.04		
<input checked="" type="checkbox"/>	5. Preparation of grout specimens, mortar specimens, and/or prisms.	<input type="checkbox"/> L1 <input checked="" type="checkbox"/> L2			1.4	1704.5, 2105.2.2, 2105.3	042200, 1.04		
<input checked="" type="checkbox"/>	6. Compliance with documents and submittals.		<input type="checkbox"/> L1 <input checked="" type="checkbox"/> L2		1.5	1704.5	042200, 1.04		
<input type="checkbox"/>	D. Wood Construction Fabrication of wood structural elements and assemblies.					1704.6, 1704.2			
	E. Soils								
<input checked="" type="checkbox"/>	1. Site preparation.					1704.7.1	310000, 3.11		
<input checked="" type="checkbox"/>	2. During fill placement.					1704.7.2	310000, 3.11		
<input checked="" type="checkbox"/>	3. Evaluation of in-place density.					1704.7.3	310000, 3.11		
<input type="checkbox"/>	F. Pile Foundations Installation and load tests.					1704.8			
<input type="checkbox"/>	G. Pier Foundations Seismic Design Category (SDC) C, D, E, F.					1704.9, 1616.3			
<input type="checkbox"/>	H. Wall Panels and Veneers Seismic Design Category (SDC) E, F.					1704.10, 1616.3, 1704.5			
	I. Sprayed Fire-Resistant Materials								
<input type="checkbox"/>	1. Structural member surface conditions.					1704.11.1			
<input type="checkbox"/>	2. Application.					1704.11.2			
<input type="checkbox"/>	3. Thickness.				ASTM E 605	1704.11.3			
<input type="checkbox"/>	4. Density.				ASTM E 605	1704.11.4			
<input type="checkbox"/>	5. Bond strength.				ASTM E 736	1704.11.5			
<input type="checkbox"/>	J. Exterior Insulation and Finish Systems (EIFS)					1704.12			
<input type="checkbox"/>	K. Special Cases					1704.13			
<input type="checkbox"/>	L. Smoke Control					1704.14			

Check if Required	INSPECTION AND TESTING Continuous and Periodic as defined by the BCNYS	Continuous	Periodic	REFERENCE STANDARD	BCNYS REFERENCE	SPEC SECTION	COMMENTS	REGIONAL INSPECTION ASSIGNMENTS
	M. Special Inspections for Seismic Resistance Applicable to specific structures, systems, and components.							
<input type="checkbox"/>	1. Structural steel.	<input type="checkbox"/>		AISC Seismic	1707.2			
<input type="checkbox"/>	2. Structural wood.	<input type="checkbox"/>	<input type="checkbox"/>		1707.3			
<input type="checkbox"/>	3. Cold-formed steel framing.		<input type="checkbox"/>		1707.4			
<input type="checkbox"/>	4. Storage racks and access floors.		<input type="checkbox"/>		1707.5			
<input type="checkbox"/>	5. Architectural components.		<input type="checkbox"/>		1707.6			
<input type="checkbox"/>	6. Mechanical and electrical components.		<input type="checkbox"/>		1707.7			
<input type="checkbox"/>	7. Seismic isolation system.		<input type="checkbox"/>		1707.8			
	N. Structural Testing for Seismic Resistance Applicable to specific structures, systems, and components.							
<input type="checkbox"/>	1. Testing and verification of masonry materials and assemblies.				1708.1			
<input type="checkbox"/>	2. Testing for seismic resistance.				1708.2			
<input type="checkbox"/>	3. Reinforcing and prestressing steel.			ACI 318	1708.3, 1903.5.2			
<input type="checkbox"/>	4. Structural steel.			AISC Seismic	1708.4			
<input type="checkbox"/>	5. Mechanical and electrical equipment.				1708.5			
<input type="checkbox"/>	6. Seismically isolated structures.				1708.6, 1623.1			
<input type="checkbox"/>	O. Structural Observations Applicable to specific structures.				1709.1			
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								



DRAWING E-102 GENERAL NOTES:

- A. REMOVE AND PROPERLY DISPOSE OF LUMINAIRES, CONTROLS, AND LIGHTING BRANCH CIRCUITS INDICATED BY HEAVY DASHED LINEWORK BACK TO ITS SOURCE.
- B. REMOVE AND PROPERLY DISPOSE OF WIRING DEVICES AND ASSOCIATED POWER BRANCH CIRCUITS AND COMMUNICATION CABLING AND CONDUITS BACK TO THEIR SOURCES INDICATED BY HEAVY DASHED LINEWORK BACK TO ITS SOURCE.
- C. REMOVE AND PROPERLY DISPOSE OF SPEAKERS, WIRING AND SUPPORTS INDICATED BY HEAVY DASHED LINEWORK BACK TO NEAREST POINT OF UTILIZATION.
- D. REMOVE AND PROPERLY DISPOSE OF FIRE ALARM NOTIFICATION APPLIANCE, CONDUIT, AND WIRING INDICATED BY HEAVY DASHED LINEWORK BACK TO NEAREST POINT OF UTILIZATION FOR REUSE IN NEW WORK.
- E. REMOVE AND PROPERLY DISPOSE OF FIRE ALARM SMOKE DETECTORS, CONDUIT, AND WIRING INDICATED BY HEAVY DASHED LINEWORK BACK TO NEAREST POINT OF UTILIZATION FOR REUSE IN NEW WORK.
- F. EXTEND EXISTING CIRCUIT OF REMOVED DEVICES TO FEED DEVICES/FIXTURES DOWNSTREAM OF REMOVED EQUIPMENT.

KEYED NOTES: #

- 1. EQUIPMENT IN THIS ROOM IS EXISTING TO REMAIN. SHOWN FOR REFERENCE ONLY.
- 2. DISCONNECT, REMOVE AND PROPERLY DISPOSE OF 200A/3P DISCONNECT AND PORTION OF FEEDER TO PAPER SHREDDER. COORDINATE REMOVAL OF SHREDDER WITH TROOP C FACILITIES. MAINTAIN PORTION OF FEEDER TO BE REUSED AS FEEDER FOR RTU-3. REFER TO NEW WORK DRAWINGS FOR ADDITIONAL WORK.
- 3. REMOVE AND PROPERLY DISPOSE OF OVERHEAD DOOR MOTOR, CONTROLS, CONDUIT AND CONDUCTORS BACK TO SOURCE.
- 4. DISCONNECT UNIT HEATER MOTOR. REMOVE AND PROPERLY DISPOSE OF CONDUIT, CONDUCTORS, AND CONTROLS BACK TO SOURCE.
- 5. DISCONNECT FAN COIL UNIT. REMOVE AND PROPERLY DISPOSE OF CONDUIT, CONDUCTORS AND CONTROLS BACK TO SOURCE.
- 6. DISCONNECT CONDENSATE PUMP MOTOR. REMOVE AND PROPERLY DISPOSE OF CONDUIT, CONDUCTORS AND CONTROLS BACK TO SOURCE.
- 7. EXISTING SURFACE MOUNTED RACEWAY AND DEVICES TO REMAIN. MAINTAIN CIRCUIT CONTINUITY OF REMAINING DEVICES.
- 8. DISCONNECT, REMOVE AND TURN OVER SECURITY CAMERA TO OWNER. REMOVE ALL ASSOCIATED CABLING, POWER CIRCUITS AND CONDUITS BACK TO THEIR SOURCES IN THE BASEMENT.



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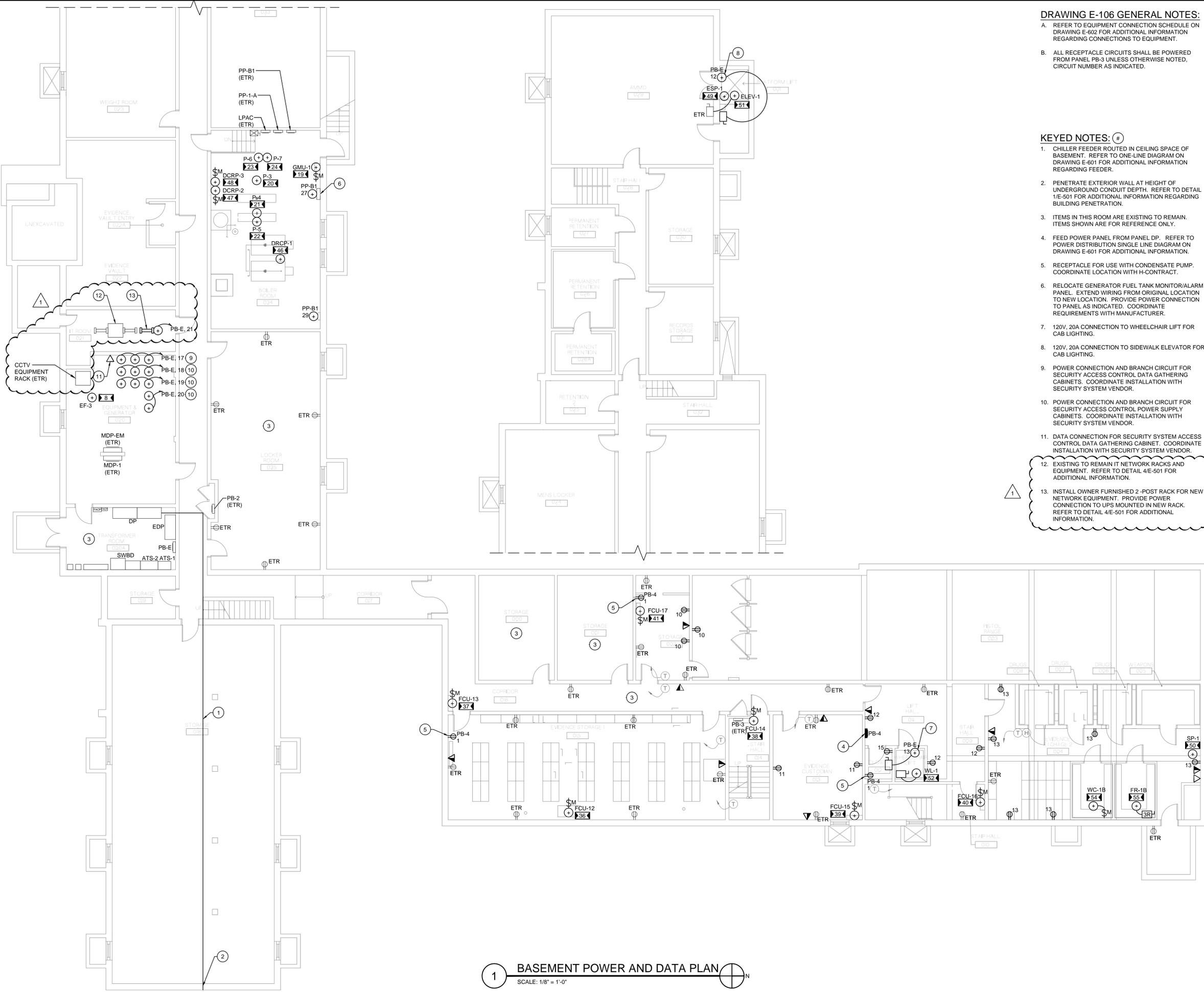


CONTRACT: ELECTRICAL
TITLE: RENOVATIONS FOR FORENSICS IDENTIFICATION PROTOTYPE, EVIDENCE STORAGE PROGRAM
LOCATION: TROOP C HEADQUARTERS 823 STATE HIGHWAY ROUTE 7 UNADILLA, NY 13838-0300
CLIENT: NEW YORK STATE POLICE

MARK	DATE	DESCRIPTION
△	NOVEMBER 6, 2015	BID ADDENDUM #3
	MARCH 6, 2015	FINAL CD SUBMISSION
PROJECT NUMBER:	44589	E
DESIGNED BY:	RRW	
DRAWN BY:	RRW	
FIELD CHECK:	RRW	
APPROVED:	JEH	

SHEET TITLE:
 FIRST FLOOR REMOVALS PLAN
DRAWING NUMBER:
 E-102
 SHEET 86 OF 103

1 FIRST FLOOR REMOVALS PLAN
 SCALE: 1/8" = 1'-0"



DRAWING E-106 GENERAL NOTES:

- A. REFER TO EQUIPMENT CONNECTION SCHEDULE ON DRAWING E-602 FOR ADDITIONAL INFORMATION REGARDING CONNECTIONS TO EQUIPMENT.
- B. ALL RECEPTACLE CIRCUITS SHALL BE POWERED FROM PANEL PB-3 UNLESS OTHERWISE NOTED, CIRCUIT NUMBER AS INDICATED.

KEYED NOTES: (K)

1. CHILLER FEEDER ROUTED IN CEILING SPACE OF BASEMENT. REFER TO ONE-LINE DIAGRAM ON DRAWING E-601 FOR ADDITIONAL INFORMATION REGARDING FEEDER.
2. PENETRATE EXTERIOR WALL AT HEIGHT OF UNDERGROUND CONDUIT DEPTH. REFER TO DETAIL 1/E-601 FOR ADDITIONAL INFORMATION REGARDING BUILDING PENETRATION.
3. ITEMS IN THIS ROOM ARE EXISTING TO REMAIN. ITEMS SHOWN ARE FOR REFERENCE ONLY.
4. FEED POWER PANEL FROM PANEL DP. REFER TO POWER DISTRIBUTION SINGLE LINE DIAGRAM ON DRAWING E-601 FOR ADDITIONAL INFORMATION.
5. RECEPTACLE FOR USE WITH CONDENSATE PUMP. COORDINATE LOCATION WITH H-CONTRACT.
6. RELOCATE GENERATOR FUEL TANK MONITOR/ALARM PANEL. EXTEND WIRING FROM ORIGINAL LOCATION TO NEW LOCATION. PROVIDE POWER CONNECTION TO PANEL AS INDICATED. COORDINATE REQUIREMENTS WITH MANUFACTURER.
7. 120V, 20A CONNECTION TO WHEELCHAIR LIFT FOR CAB LIGHTING.
8. 120V, 20A CONNECTION TO SIDEWALK ELEVATOR FOR CAB LIGHTING.
9. POWER CONNECTION AND BRANCH CIRCUIT FOR SECURITY ACCESS CONTROL DATA GATHERING CABINETS. COORDINATE INSTALLATION WITH SECURITY SYSTEM VENDOR.
10. POWER CONNECTION AND BRANCH CIRCUIT FOR SECURITY ACCESS CONTROL POWER SUPPLY CABINETS. COORDINATE INSTALLATION WITH SECURITY SYSTEM VENDOR.
11. DATA CONNECTION FOR SECURITY SYSTEM ACCESS CONTROL DATA GATHERING CABINET. COORDINATE INSTALLATION WITH SECURITY SYSTEM VENDOR.
12. EXISTING TO REMAIN IT NETWORK RACKS AND EQUIPMENT. REFER TO DETAIL 4/E-501 FOR ADDITIONAL INFORMATION.
13. INSTALL OWNER FURNISHED 2-POST RACK FOR NEW NETWORK EQUIPMENT. PROVIDE POWER CONNECTION TO UPS MOUNTED IN NEW RACK. REFER TO DETAIL 4/E-501 FOR ADDITIONAL INFORMATION.

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CONTRACT: ELECTRICAL
TITLE: RENOVATIONS FOR FORENSICS IDENTIFICATION PROTOTYPE, EVIDENCE STORAGE PROGRAM
LOCATION: TROOP C HEADQUARTERS
823 STATE HIGHWAY ROUTE 7
UNADILLA, NY 13838-0300
CLIENT: NEW YORK STATE POLICE

MARK	DATE	DESCRIPTION
(K)	NOVEMBER 6, 2015	BID ADDENDUM #3
(K)	MARCH 6, 2015	FINAL CD SUBMISSION
PROJECT NUMBER:	44589	E
DESIGNED BY:	RRW	
DRAWN BY:	RRW	
FIELD CHECK:	RRW	
APPROVED:	JEH	

SHEET TITLE:
BASEMENT
POWER/DATA PLAN
DRAWING NUMBER:
E-106
SHEET 90 **OF** 103

1 BASEMENT POWER AND DATA PLAN
SCALE: 1/8" = 1'-0"

36x24 PLOT SHEET

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CONTRACT: ELECTRICAL
TITLE: RENOVATIONS FOR FORENSICS IDENTIFICATION PROTOTYPE, EVIDENCE STORAGE PROGRAM
LOCATION: TROOP C HEADQUARTERS 823 STATE HIGHWAY ROUTE 7 UNADILLA, NY 13838-0300
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MARK	DATE	DESCRIPTION
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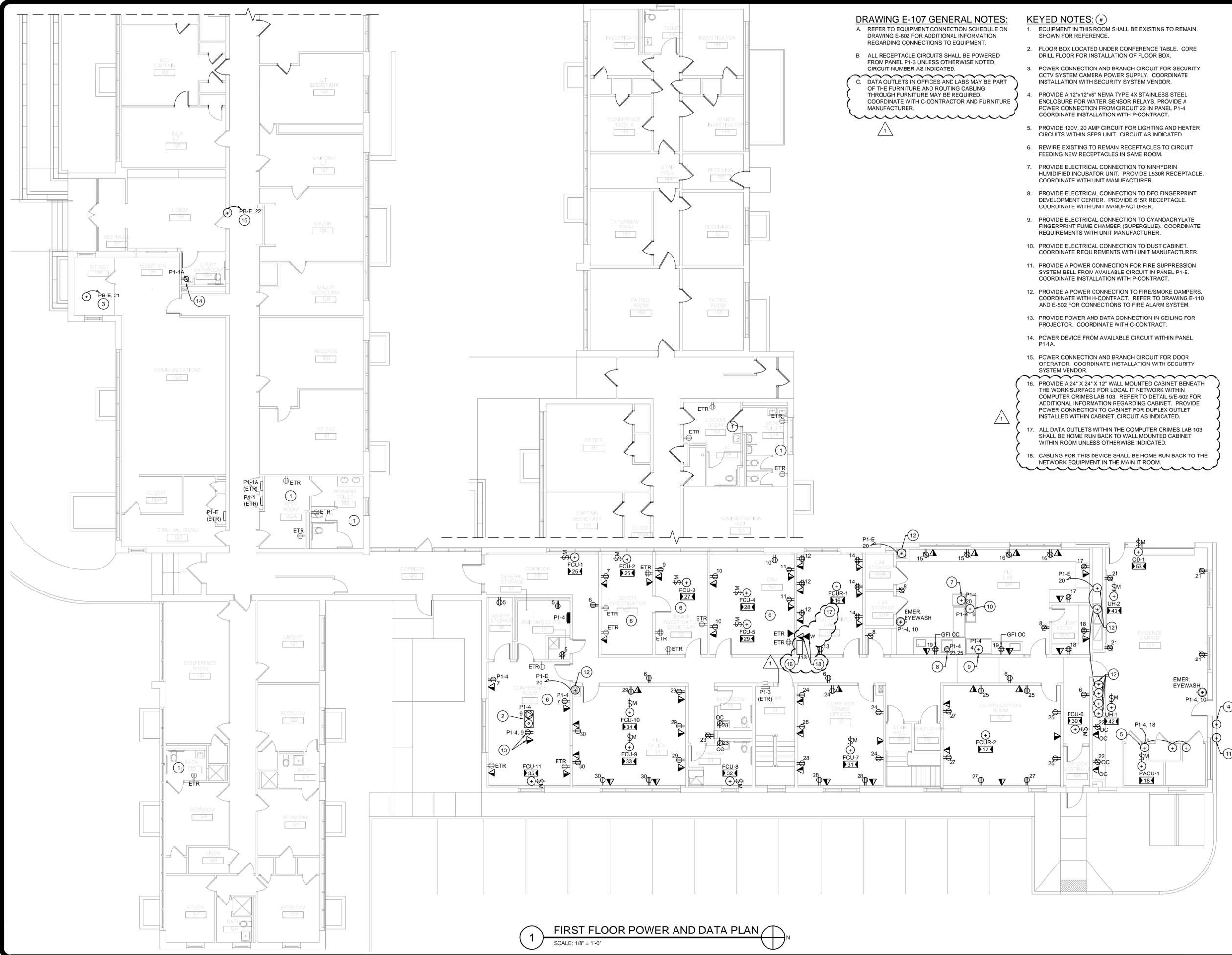
SHEET TITLE:
FIRST FLOOR POWER/DATA PLAN
DRAWING NUMBER:
E-107
SHEET 91 **OF** 103

DRAWING E-107 GENERAL NOTES:

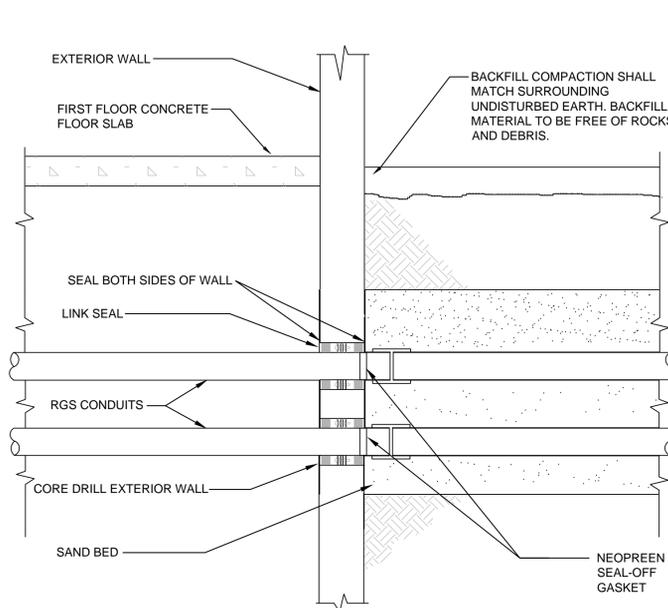
- A. REFER TO EQUIPMENT CONNECTION SCHEDULE ON DRAWING E-602 FOR ADDITIONAL INFORMATION REGARDING CONNECTIONS TO EQUIPMENT.
- B. ALL RECEPTACLE CIRCUITS SHALL BE POWERED FROM PANEL P1-3 UNLESS OTHERWISE NOTED, CIRCUIT NUMBER AS INDICATED.
- C. DATA OUTLETS IN OFFICES AND LABS MAY BE PART OF THE FURNITURE AND ROUTING CABLING THROUGH FURNITURE MAY BE REQUIRED. COORDINATE WITH C-CONTRACTOR AND FURNITURE MANUFACTURER.

KEYED NOTES: (1)

1. EQUIPMENT IN THIS ROOM SHALL BE EXISTING TO REMAIN. SHOWN FOR REFERENCE.
2. FLOOR BOX LOCATED UNDER CONFERENCE TABLE. CORE DRILL FLOOR FOR INSTALLATION OF FLOOR BOX.
3. POWER CONNECTION AND BRANCH CIRCUIT FOR SECURITY CCTV SYSTEM CAMERA POWER SUPPLY. COORDINATE INSTALLATION WITH SECURITY SYSTEM VENDOR.
4. PROVIDE A 12"x12"x6" NEMA TYPE 4X STAINLESS STEEL ENCLOSURE FOR WATER SENSOR RELAYS. PROVIDE A POWER CONNECTION FROM CIRCUIT 22 IN PANEL P1-4. COORDINATE INSTALLATION WITH P-CONTRACT.
5. PROVIDE 120V, 20 AMP CIRCUIT FOR LIGHTING AND HEATER CIRCUITS WITHIN SEPS UNIT. CIRCUIT AS INDICATED.
6. REWIRE EXISTING TO REMAIN RECEPTACLES TO CIRCUIT FEEDING NEW RECEPTACLES IN SAME ROOM.
7. PROVIDE ELECTRICAL CONNECTION TO NINHYDRIN HUMIDIFIED INCUBATOR UNIT. PROVIDE L530R RECEPTACLE. COORDINATE WITH UNIT MANUFACTURER.
8. PROVIDE ELECTRICAL CONNECTION TO DFO FINGERPRINT DEVELOPMENT CENTER. PROVIDE 616R RECEPTACLE. COORDINATE WITH UNIT MANUFACTURER.
9. PROVIDE ELECTRICAL CONNECTION TO CYANOACRYLATE FINGERPRINT FUME CHAMBER (SUPERGLUE). COORDINATE REQUIREMENTS WITH UNIT MANUFACTURER.
10. PROVIDE ELECTRICAL CONNECTION TO DUST CABINET. COORDINATE REQUIREMENTS WITH UNIT MANUFACTURER.
11. PROVIDE A POWER CONNECTION FOR FIRE SUPPRESSION SYSTEM BELL FROM AVAILABLE CIRCUIT IN PANEL P1-E. COORDINATE INSTALLATION WITH P-CONTRACT.
12. PROVIDE A POWER CONNECTION TO FIRE/SMOKE DAMPERS. COORDINATE WITH H-CONTRACT. REFER TO DRAWING E-110 AND E-502 FOR CONNECTIONS TO FIRE ALARM SYSTEM.
13. PROVIDE POWER AND DATA CONNECTION IN CEILING FOR PROJECTOR. COORDINATE WITH C-CONTRACT.
14. POWER DEVICE FROM AVAILABLE CIRCUIT WITHIN PANEL P1-1A.
15. POWER CONNECTION AND BRANCH CIRCUIT FOR DOOR OPERATOR. COORDINATE INSTALLATION WITH SECURITY SYSTEM VENDOR.
16. PROVIDE A 24" X 24" X 12" WALL MOUNTED CABINET BENEATH THE WORK SURFACE FOR LOCAL IT NETWORK WITHIN COMPUTER CRIMES LAB 103. REFER TO DETAIL 5/E-502 FOR ADDITIONAL INFORMATION REGARDING CABINET. PROVIDE POWER CONNECTION TO CABINET FOR DUPLEX OUTLET INSTALLED WITHIN CABINET, CIRCUIT AS INDICATED.
17. ALL DATA OUTLETS WITHIN THE COMPUTER CRIMES LAB 103 SHALL BE HOME RUN BACK TO WALL MOUNTED CABINET WITHIN ROOM UNLESS OTHERWISE INDICATED.
18. CABLING FOR THIS DEVICE SHALL BE HOME RUN BACK TO THE NETWORK EQUIPMENT IN THE MAIN IT ROOM.

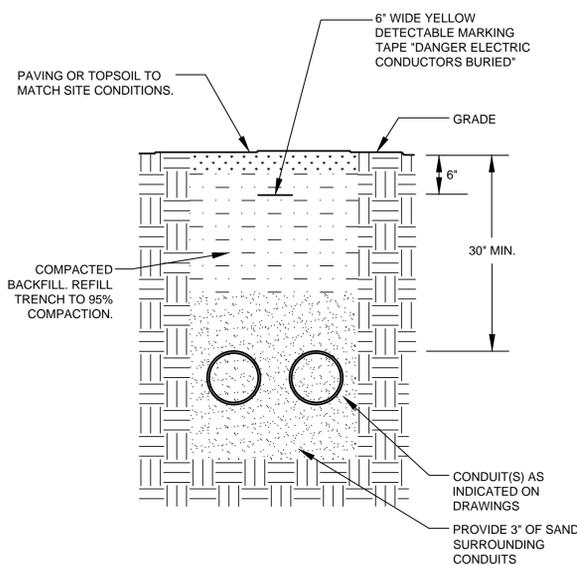


1 FIRST FLOOR POWER AND DATA PLAN
SCALE: 1/8" = 1'-0"



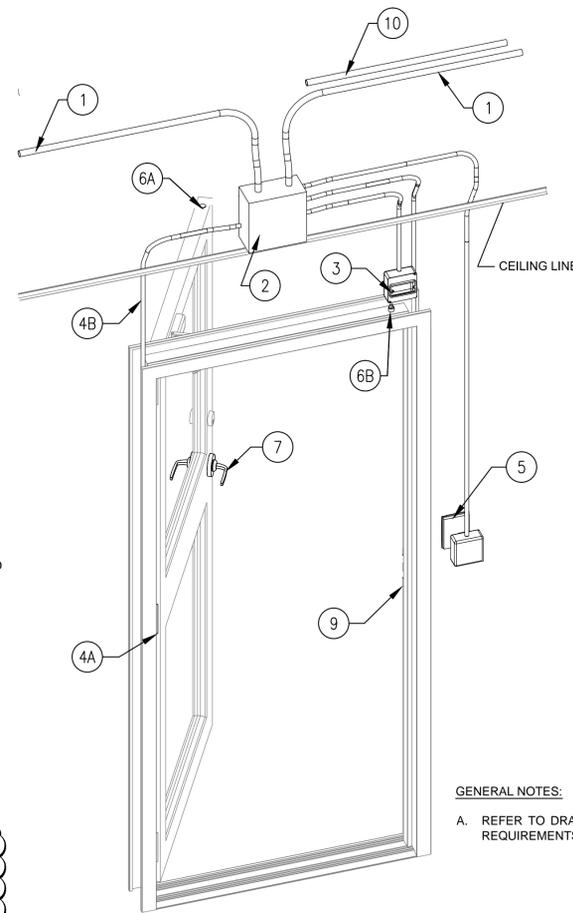
- NOTES:
1. FINAL GRADE FINISH SHALL MATCH EXISTING SURROUNDINGS
 2. SEALS MUST COMPLY WITH NEC 300.5.G

1 FOUNDATION WALL PENETRATION DETAIL
SCALE: NONE



- NOTES:
1. WHERE MULTIPLE CONDUITS ARE REQUIRED PROVIDE MINIMUM SPACING OF 3" BETWEEN CONDUITS.
 2. COORDINATE TRENCHING AND BACKFILL WITH ALL TRADES AND SITE CONDITIONS.

2 CONDUIT TRENCHING DETAIL
SCALE: NONE



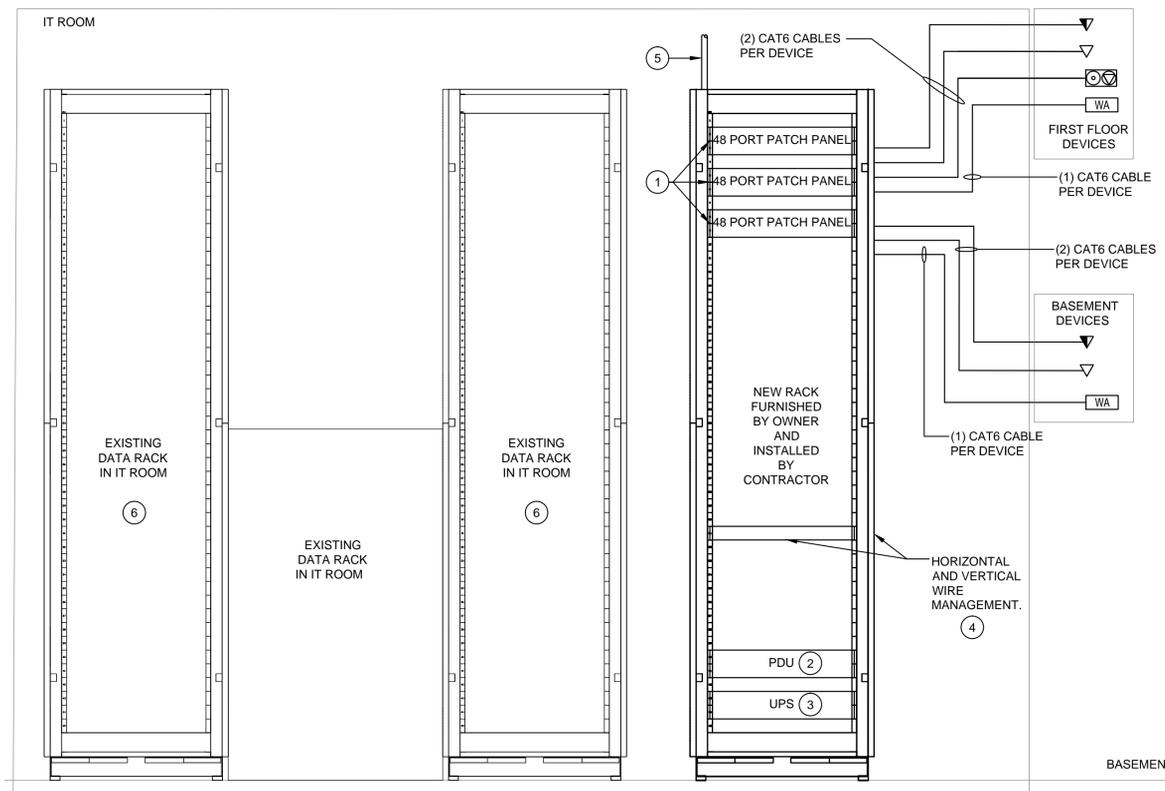
DETAIL NOTES: #

1. PROVIDE 1" PATHWAY OR "J" HOOKS FOR WIRING INSTALLATION TO BE PROVIDED BY SYSTEM VENDOR.
2. PROVIDE 5"x5" SYSTEM PULL BOX. (USE ENCLOSURE RATED FOR ENVIRONMENT).
3. PROVIDE BLANK COVER TO MATCH ELECTRICAL POWER SWITCH AND OUTLET COVERS.
4. A. POWER TRANSFER HINGE PROVIDED BY C-CONTRACT. WIRES FOR THE APPLICATION PROVIDED BY SYSTEM VENDOR. REFER TO DOOR SCHEDULE FOR FIRE RATING OF DOOR. IF INSTALLING ON A FIRE RATED DOOR THE POWER TRANSFER HINGE SHALL BE UL LISTED FOR USE ON A FIRE DOOR.
B. PROVIDE 1/2" PATHWAY FROM JUNCTION BOX TO POWER TRANSFER HINGE.
5. PROVIDE 1900 BACK BOX WITH SINGLE GANG TRIM RING AND ASSOCIATED CONDUIT PATHWAY FOR ACCESS CONTROL DEVICE. DEVICES AND WIRING PROVIDED BY SYSTEM VENDOR.
6. MAGNETIC DOOR POSITION SWITCH(S) PROVIDED BY SYSTEM VENDOR. (RECESSED TYPE SHOWN)
A - MAGNET
B - SWITCH
7. DOOR HARDWARE PROVIDED BY C-CONTRACT WITH INTEGRAL REQUEST TO EXIT FUNCTION. REFER TO DOOR SCHEDULE FOR TYPE. PROVIDE BACK BOX AND ASSOCIATED CONDUIT PATHWAY FOR ACCESS CONTROL DEVICE. DEVICES AND WIRING PROVIDED BY SYSTEM VENDOR.
8. NOT USED.
9. ELECTRIFIED DOOR STRIKE PROVIDED BY C-CONTRACT. COORDINATE WITH ACCESS CONTROL MANUFACTURER. PROVIDE BACK BOX AND ASSOCIATED CONDUIT PATHWAY FOR ACCESS CONTROL DEVICE. DEVICES AND WIRING PROVIDED BY SYSTEM VENDOR.
10. PROVIDE 120VAC POWER TO LOCKING DEVICE POWER SUPPLY <AS REQUIRED>.

GENERAL NOTES:

- A. REFER TO DRAWINGS FROM SECURITY VENDOR, TYCO, FOR ADDITIONAL REQUIREMENTS FOR PATHWAYS.

3 SECURITY/ACCESS CONTROL DOOR DETAIL
SCALE: NONE



DETAIL NOTES: #

1. PROVIDE 48 PORT PATCH PANELS FOR USE WITH CAT6 CABLING. TERMINATE ALL CAT6 CABLING PROVIDED AS PART OF THIS PROJECT SCOPE OF WORK ON PATCH PANELS.
2. PROVIDE A RACK MOUNTED POWER DISTRIBUTION UNIT (PDU) FOR NEW 2 POST RACK.
3. PROVIDE A RACK MOUNTED UPS FOR NEW 2 POST RACK. UPS SHALL BE A SMART UPS, ON-LINE, 2100 WATT/3000VA UNIT WITH 120V INPUT AND 120V OUTPUT, AS MANUFACTURED BY APC, MODEL NUMBER SURTA3000RML3U OR APPROVED EQUAL.
4. PROVIDE HORIZONTAL AND VERTICAL WIRE MANAGEMENT FOR OWNER FURNISHED 2-POST RACK. COORDINATE WIRE MANAGEMENT PRODUCTS WITH MANUFACTURER OF OWNER FURNISHED RACK.
5. PROVIDE POWER TO NEW RACK. REFER TO PLAN FOR CIRCUIT INFORMATION. ROUTE POWER THROUGH UPS AND INTO PDU.
6. CABLES ASSOCIATED WITH REMOVED DEVICES SHALL BE REMOVED BACK TO THESE EXISTING RACKS.

4 PARTIAL DATA RISER DIAGRAM
SCALE: NONE

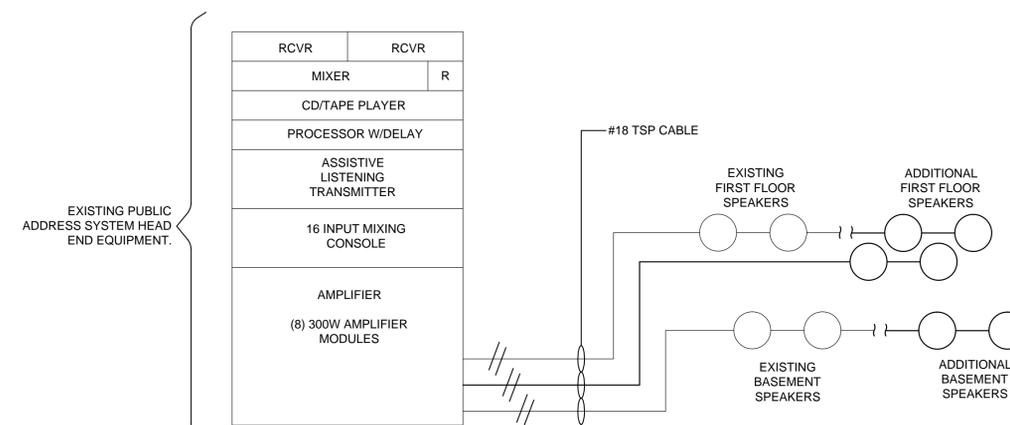


DIAGRAM NOTES:

1. PROVIDE ALL PROGRAMMING AND SYSTEM MODIFICATIONS WITHIN THE HEAD END EQUIPMENT TO ACCOMMODATE NEW SPEAKER LAYOUT AND QUANTITIES.
2. MATCH NEW SPEAKERS TO EXISTING TYPE.
3. MATCH CABLING TO EXISTING CABLING.

5 PARTIAL PUBLIC ADDRESS RISER DIAGRAM
SCALE: NONE



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ANDREW M. CUOMO
Governor
RO ANN M. DESTITTO
Commissioner



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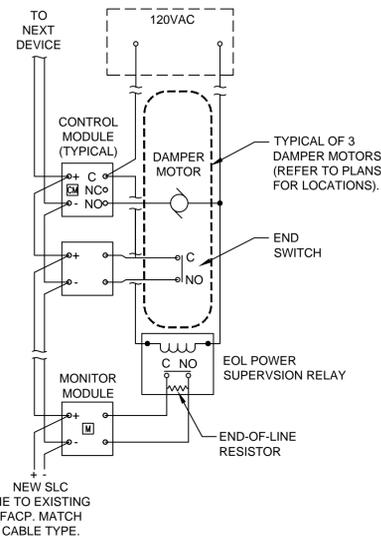
CONTRACT:		ELECTRICAL
TITLE:		RENOVATIONS FOR FORENSICS IDENTIFICATION PROTOTYPE, EVIDENCE STORAGE PROGRAM
LOCATION:		TROOP C HEADQUARTERS 823 STATE HIGHWAY ROUTE 7 UNADILLA, NY 13838-0300
CLIENT:		NEW YORK STATE POLICE

MARK	DATE	DESCRIPTION
△	NOVEMBER 6, 2015	BID ADDENDUM #3
	MARCH 6, 2015	FINAL CD SUBMISSION
PROJECT NUMBER:	44589	E
DESIGNED BY:	RRW	
DRAWN BY:	RRW	
FIELD CHECK:	RRW	
APPROVED:	JEH	

SHEET TITLE: DETAILS

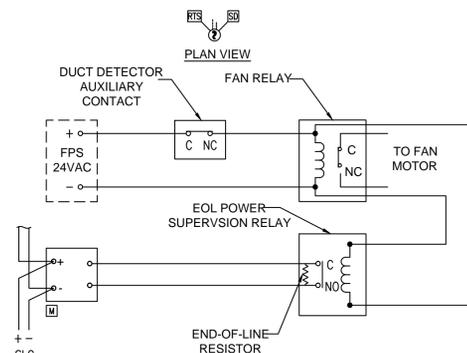
DRAWING NUMBER: E-501

SHEET 98 OF 103



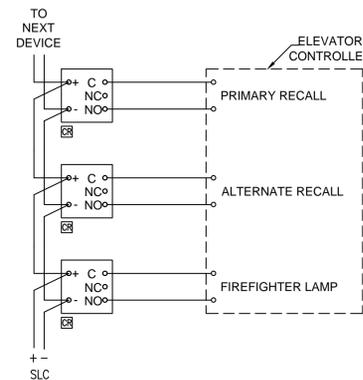
- NOTES:**
- NEW 120V CIRCUIT ROUTE TO BE DETERMINED BY CONTRACTOR. CONTRACTOR TO CORE DRILL AND SEAL ANY WALL/FLOOR PENETRATION AS REQUIRED.
 - REFER TO DIVISION 230000 FOR EQUIPMENT SPECIFICATION.

1 FIRE/SMOKE DAMPER CONNECTION DETAIL
SCALE: NONE



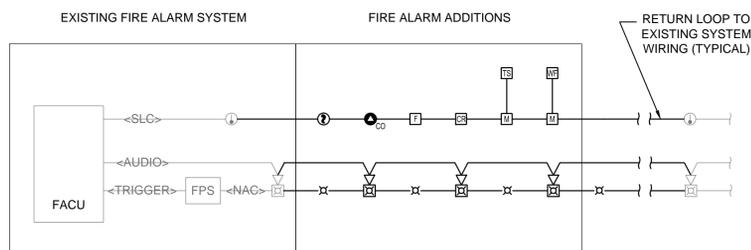
- DETAIL NOTES:**
- REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR REMOTE TEST STATION CONNECTIONS AND WIRING REQUIREMENTS.
 - PROVIDE FAN RELAY RATED FOR FAN STARTUP POWER

2 DUCT DETECTOR CONNECTION DETAIL
SCALE: NONE



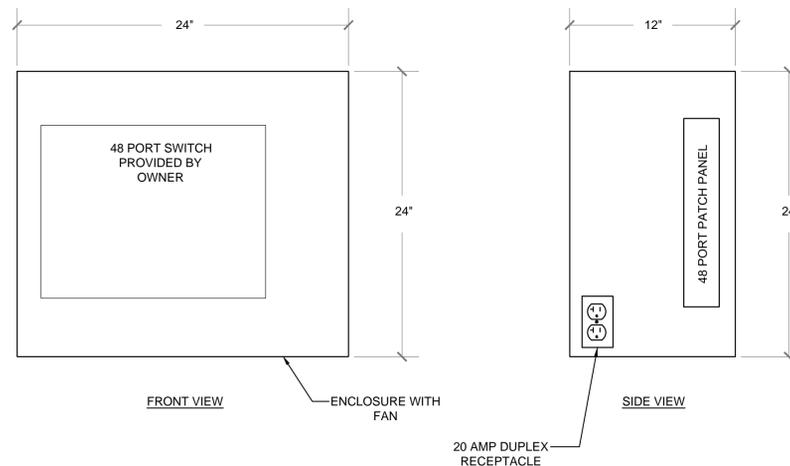
- DETAIL NOTES:**
- REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND WIRING REQUIREMENTS.
 - COORDINATE INSTALLATION WITH C-CONTRACT.

3 TYPICAL ELEVATOR RECALL DETAIL
SCALE: NONE



- DIAGRAM NOTES:**
- PROVIDE PRETEST OF THE EXISTING FIRE ALARM SYSTEM DOCUMENT AND REPORT ANY DISCREPANCIES TO OWNER PRIOR TO CONSTRUCTION.
 - DETAIL IS NOT MEANT TO REPRESENT EVERY CONNECTION IN SYSTEM. REFER TO SYSTEM PLANS FOR QUANTITIES AND LOCATIONS OF ALL DEVICES.
 - EXTEND EXISTING CIRCUITS FOR NEW DEVICES FROM EXISTING CIRCUITS. PROVIDE WIRING TO MATCH EXISTING.
 - PROVIDE ALL WIRING, PATHWAY, DEVICES, POWER SUPPLIES, AUDIO AMPLIFIERS AND CONNECTIONS TO PROVIDE A COMPLETE OPERATING FIRE DETECTION AND ALARM SYSTEM.
 - REFER TO SYSTEM MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR WIRING TYPES AND QUANTITIES REQUIRED AS WELL AS RESTRICTIONS.
 - COORDINATE WITH ALL OTHER TRADES PRIOR TO CONSTRUCTION FOR CONNECTION REQUIREMENTS AND TO COORDINATE FINAL TESTING.
 - CARBON MONOXIDE DETECTOR SHALL HAVE A SOUNDER BASE FOR LOCAL AUDIBLE NOTIFICATION AND BE CONNECTED TO THE FIRE ALARM SYSTEM AS A SUPERVISORY ALARM WITH NOTIFICATION TO THE MONITORING AGENCY.

4 PARTIAL FIRE ALARM RISER DIAGRAM
SCALE: NONE



5 LOCAL NETWORK CABINET ENCLOSURE DETAIL
SCALE: NONE



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CONTRACT:

ELECTRICAL

TITLE: RENOVATIONS FOR FORENSICS IDENTIFICATION PROTOTYPE, EVIDENCE STORAGE PROGRAM

LOCATION: TROOP C HEADQUARTERS
823 STATE HIGHWAY ROUTE 7
UNADILLA, NY 13838-0300

CLIENT: NEW YORK STATE POLICE

MARK	DATE	DESCRIPTION

NOVEMBER 6, 2015	BID ADDENDUM #3
MARCH 6, 2015	FINAL CD SUBMISSION

PROJECT NUMBER:	44589	E
DESIGNED BY:	RRW	
DRAWN BY:	RRW	
FIELD CHECK:	RRW	
APPROVED:	JEH	

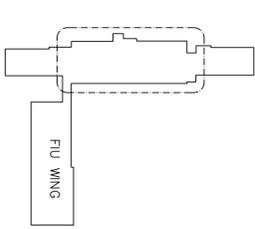
SHEET TITLE:

DETAILS

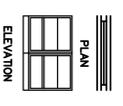
DRAWING NUMBER:

E-502

KEY PLAN: NTS

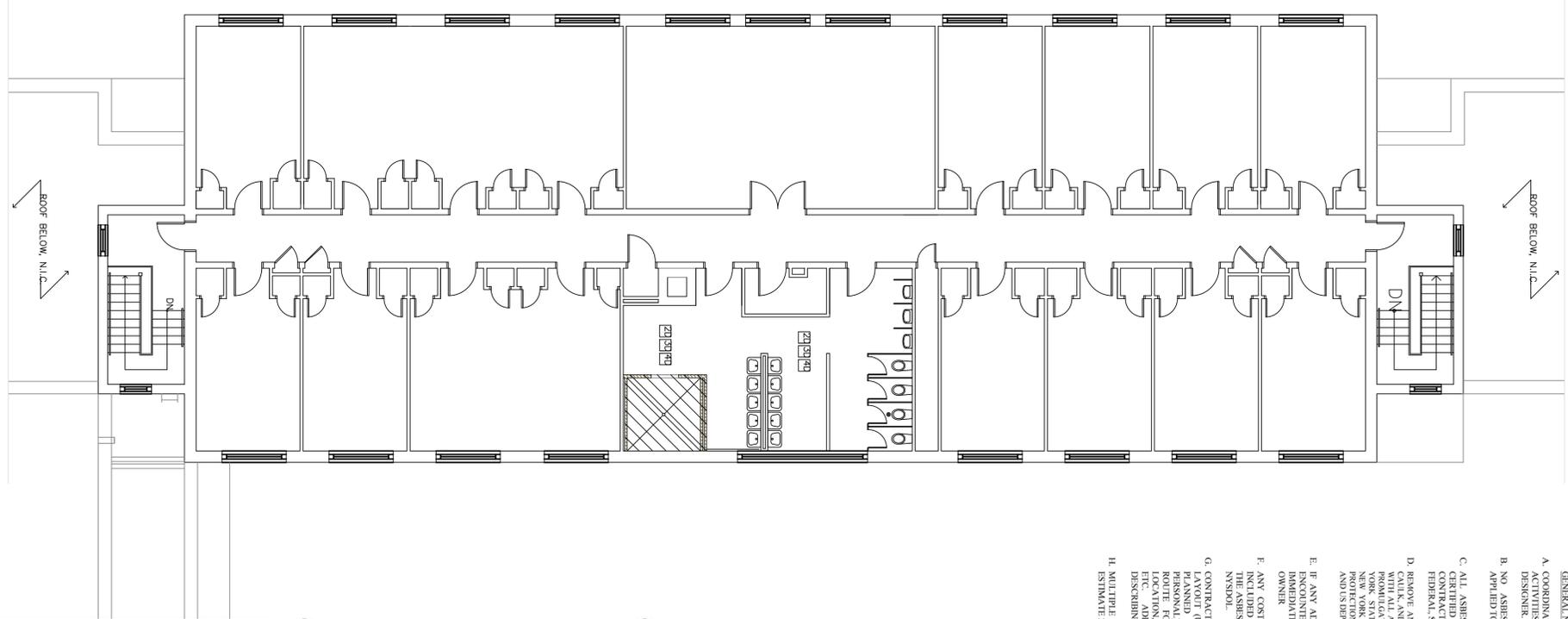


- GENERAL NOTES:**
- A. COORDINATE ALL ASBESTOS AND HAZARDOUS MATERIAL ABATEMENT ACTIVITIES WITH OWNER, PRODUCT MONITOR, AND ENGINEER/PRODUCT DESIGNER.
 - B. NO ASBESTOS-CONTAINING MATERIALS SHALL BE INSTALLED OR APPLIED TO ANY SURFACE OR USED AS REPLACEMENT MATERIAL.
 - C. ALL ASBESTOS/HAZARDOUS WASTE WORK SHALL BE PERFORMED BY CERTIFIED ASBESTOS ABATEMENT WORKERS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS, OR APPROVED VARIANCES.
 - D. REMOVE AND DISPOSE ASBESTOS-CONTAINING MATERIALS, PCB-CONTAINING MATERIALS AND OTHER HAZARDOUS MATERIALS IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS INCLUDING BUT NOT LIMITED TO THOSE PROMULGATED BY NEW YORK STATE DEPARTMENT OF LABOR (NYSDDL), NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH), US ENVIRONMENTAL PROTECTION AGENCY (USEPA), US DEPARTMENT OF TRANSPORTATION (USDOT) AND US DEPARTMENT OF LABOR (USDOL).
 - E. IF ANY ADDITIONAL SUSPECT ASBESTOS-CONTAINING MATERIALS ARE IDENTIFIED DURING THE COURSE OF THIS PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER/ASBESTOS PROJECT DESIGNER AND OWNER OF MATERIAL LOCATION AND DESCRIPTION.
 - F. ANY COST ASSOCIATED WITH A SITE SPECIFIC VARIANCE SHALL BE INCLUDED IN THE CONTRACT BIDDING PRIOR TO SUBMISSION TO NYSDDL.
 - G. CONTRACTOR SHALL SUBMIT FOR APPROVAL, A DETAILED PROJECT LAYOUT (USING THE PROVIDED PROJECT DRAWINGS) DETERMINING THE PLANNED LOCATION OF DECONTAMINATION UNITS (WASTE AND PERSONAL ROUTE FOR TRANSPORT OF WASTE THROUGH THE BUILDING, LOCATION OF WASTE STORAGE AREAS, WASTE DUMPSTER STAGING AREA, ETC. ADDITIONALLY, CONTRACTOR SHALL SUBMIT A WORK PLAN DESCRIBING THE METHODS TO BE USED FOR REMOVALS.
 - H. MULTIPLE MOBILIZATIONS MAY BE REQUIRED TO COMPLETE THIS WORK. ESTIMATE MOBILIZATIONS FOR BIDDING PURPOSES.

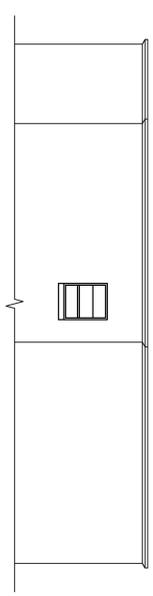


LEGEND

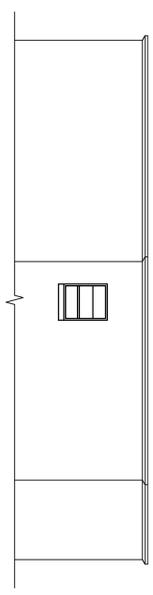
WINDOW, SEALANTS, CAULKS, GLAZING AND PAINT
 TO BE REMOVED = 658 SF
 TOTAL PCB TO BE REMOVED = 200 SF



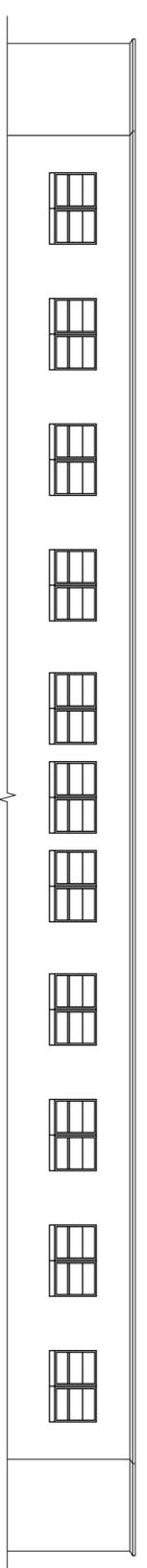
K1
 DT03 SCALE 1/8" = 1'-0"
 SECOND FLOOR REMOVALS PLAN



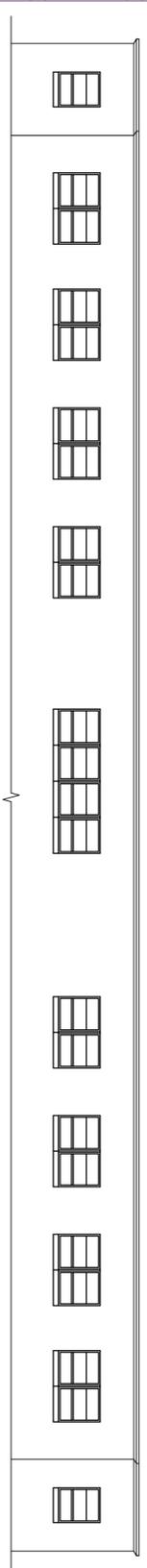
F6
 DT03 SCALE 1/8" = 1'-0"
 2ND FLOOR REMOVALS ELEVATION - WEST



F10
 DT03 SCALE 1/8" = 1'-0"
 2ND FLOOR REMOVALS ELEVATION - EAST



H6
 DT03 SCALE 1/8" = 1'-0"
 2ND FLOOR REMOVALS ELEVATION - SOUTH



K6
 DT03 SCALE 1/8" = 1'-0"
 2ND FLOOR REMOVALS ELEVATION - NORTH

CONSULTANT

Q+

Setting New York

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 Governor

ROANN M. DESTITO
 Commissioner

Lomonaco & Pitts, Architects P.C.
 297 River Street, Troy, NY 12180
 518.272.4481 Fax: 518.272.1805

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Consulting Engineering & Land Surveying LLC

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CONTRACTOR

CONSTRUCTION

TITLE: RENOVATIONS FOR FORENSICS IDENTIFICATION PROTOTYPE EVIDENCE STORAGE PROGRAM

LOCATION: TROOP C HEADQUARTERS 823 STATE HIGHWAY ROUTE 7 UNADILLA, NY 13838-0300

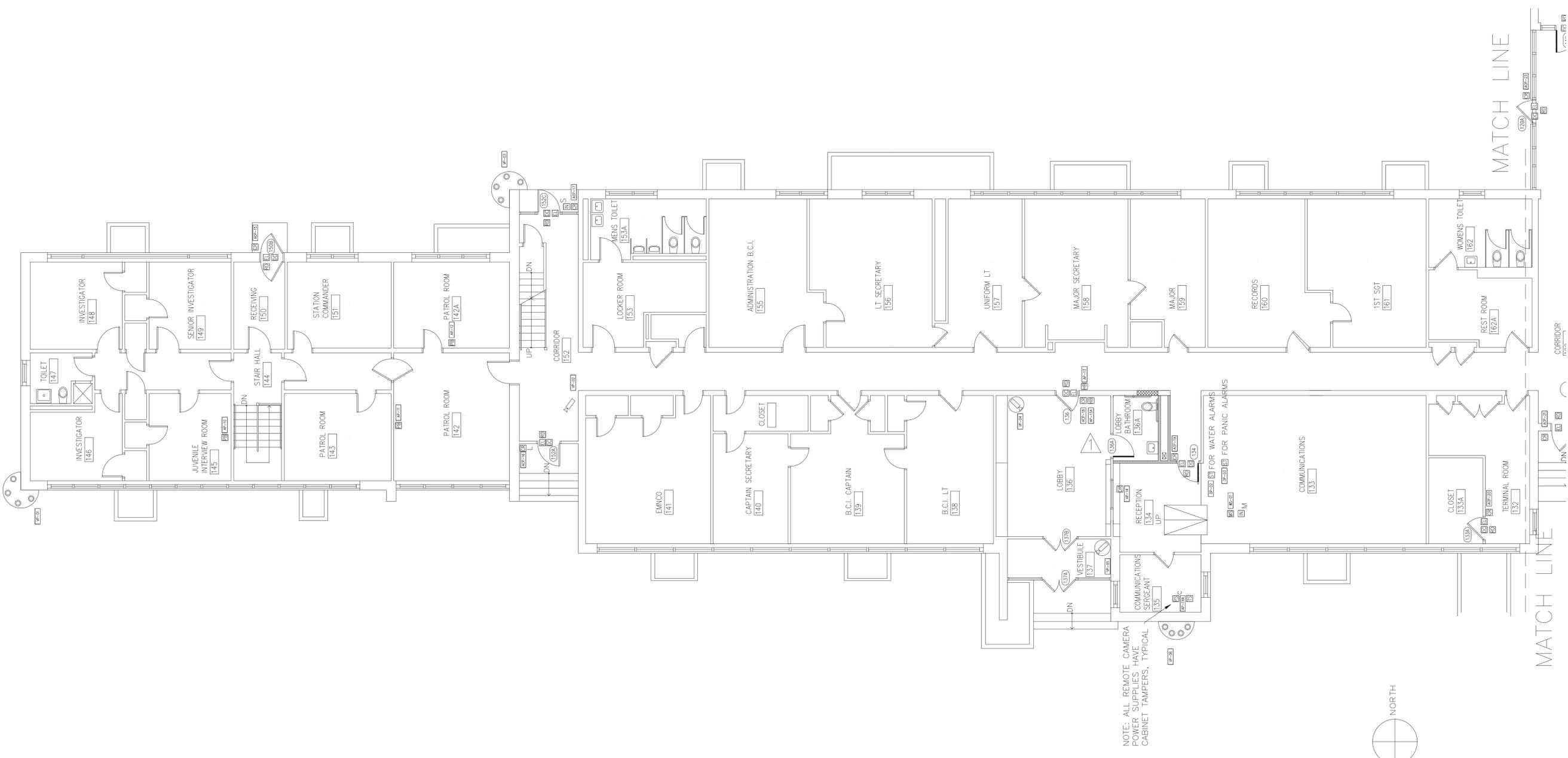
CLIENT: NEW YORK STATE POLICE

HAZARDOUS MATERIALS ABATEMENT PLAN MAIN BLDG. SECOND FLOOR

DRAWING NUMBER: **HM-104**

SHEET 4 OF 104

MARK	October 14, 2015	Adendum #1
DATE		
DESCRIPTION		
PROJECT NUMBER:	44589-C	
DESIGNED BY:	JTM	
DRAWN BY:	TKK	
FIELD CHECK:	WCH	
APPROVED:		
SHEET TITLE:		



NOTE: ALL REMOTE CAMERA POWER SUPPLIES HAVE TYPICAL CABINET TAMPERS.



MATCH LINE

SECURITY PLAN LEGEND

SYMBOL	DESCRIPTION
[CR]	CARD READER K=KEYPAD L=LONG RANGE
[SD]	SINGLE DOOR CONTACT
[EC]	CONNECT TO ELECTRIC LOCK (BY OTHERS)
[OD]	OVERHEAD DOOR CONTACT
[SW]	SINGLE WINDOW CONTACT
[PS]	POWER SUPPLY L=LOCK C=CAMERA A=AUX
[SL]	STROBE LIGHT
[AB]	ARMING BUTTON
[DR]	DOOR RELEASE BUTTON
[JB]	JUNCTION BOX
[TS]	TEMPERATURE SENSOR BY TYCO
[TI]	TIE INTO TEMPERATURE SENSOR BY OTHERS
[WS]	WATER SENSOR
[SO]	SURFACE OVERHEAD DOOR CONTACT
[SS]	SECURITY SCREEN
[GB]	GLASS BREAK DETECTOR
[LP]	LOCAL POWER SUPPLY
[IC]	INTERCOM M=MASTER S=DOOR STATION
[LS]	LOCAL ALARM SOUNDER
[PB]	EMERGENCY PANIC BUTTON
[TS]	TAMPER SWITCH, CAMERA POWER SUPPLY
[DP]	DATA GATHERING PANEL
[LD]	SECURITY LCD VIDEO MONITOR
[DB]	DURESS BUTTON
[RE]	REQUEST TO EXIT DEVICE BY OTHERS
[360]	EXTERIOR 360° SECURITY CAMERA
[180]	EXTERIOR 180° SECURITY CAMERA
[FX]	EXTERIOR FIXED SECURITY CAMERA
[IX]	INTERIOR FIXED CAMERA

AP-XX	ALARM POINT
OP-XX	OUTPUT POINT
ACP-XX	ACCESS CONTROL POINT
VP-XX	VIDEO POINT
IP-XX	INTERCOM POINT
WS-XX	WORK STATION

FOR REFERENCE ONLY

GENERAL NOTE:
THE WORK INDICATED WITHIN THESE DOCUMENTS WILL BE PERFORMED BY TYCO EXCEPT THE CONDUIT SYSTEM (CONDUIT, TROUGHES, BOXES, FITTINGS, PULL STRINGS, J-HOOKS, ETC), FIRE STOPPING, 120 VOLT CIRCUITS AND CONNECTIONS TO TYCO EQUIPMENT. ALL EXPOSED WIRING BELOW CEILING HEIGHT MUST BE IN CONDUIT.

REVISIONS				
No.	Date	Description	MM	GG
3	3/12/15	ISSUED FOR REVIEW	MM	
4	3/18/15	ISSUED FOR REVIEW	GG	

OFFICE OF GENERAL SERVICES
FOR THE NY STATE POLICE
TROOP C HEADQUARTERS

LOCATION:
823 STATE HIGHWAY ROUTE 7
UNADILLA, NY 13838-0300

TITLE:
FIRST FLOOR PLAN
WEST WING WITH
SECURITY DEVICES

DATE: 02/26/14	SCALE: N.T.S.
FILE: 14\NY\NYS\UNADILLA	
CREATED BY: MM	REV BY: MM
SHEET:	DRAWING: FP-2.11

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Integrated Security

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