By eMARYLAND MARKETPLACE (eMM) ONLY

ADDENDUM NO. 4

TO THE CONTRACT DOCUMENTS FOR THE

BCDC YOUTH DETENTION CENTER
at the
Baltimore City Detention Center
in the
Division of Pretrial Detention and Services (DPDS)

STATE OF MARYLAND
CONTRACT NUMBER: KT-000-150-C01

DATE OF ISSUE: MARCH 2, 2015

To All Bidders: This Addendum is intended to modify, explain, correct and/or delete the provisions of the original Contract Documents issued February 5, 2015, and previously-issued Addenda, and is hereby (unless noted otherwise) made a part of the Contract Documents on which the Construction Contract will be based.

Acknowledge receipt of the Addendum by inserting its number and date in the Construction Bid Form (issued with Addendum 1 on February 10, 2015, with pages 6 and 8 revised and issued with Addendum 4 on March 2, 2015). Failure to do so may subject the bidder to disqualification.

Addendum No. 4 consists of eleven (11) 8½" x 11" pages, plus eight (8) specification attachments containing sixty (60) pages and eighty-seven (87) full-size drawing sheets.

I. Addendum: eleven (11) pages.
II. Attachments:

Specifications: Sixty (60) total pages), as follows

00 12 50	CONSTRUCTION BID FORM—Pages 6 and 8 (2 pages)
01 21 00	SPECIALTY ALLOWANCES (6 pages)
01 22 00	UNIT PRICES (7 pages)
10 14 00	SIGNAGE—ATTACHMENT A (7 pages)
10 14 00	SIGNAGE—ATTACHMENT B (9 pages)
23 09 23.11	CONTROL VALVES (8 pages)
23 09 23.12	CONTROL DAMPERS (11 pages)
28 23 13	VIDEO SURVEILLANCE FOR ELECTRONIC SECURITY (10 pages)

Drawings: eighty-seven (87) sheets, as follows:

Fifteen (15) Structural sheets:

SO110	SP110B	SP140A	S301	S500	
SO120	SP120A	SP150A	S302	S504	
SP110A	SP120B	S300	S303	S601	

Seventeen (17) Architectural sheets:

A220	A302	A322	A505	FE110A	FE120B
A300	A320	A403	A620	FE110B	FE130A
A301	A321	A504	FE100	FE120A	

Seven (7) Detention sheets:

D110A	D120A	D130	D403		
D110B	D120B	D400			

Five (5) Plumbing sheets

P100	P101	PO182	PO183	PO184	

Twenty-three (23) Mechanical sheets:

MO001	MD140	MV110B	MV130A	MO160	MO180
MD100	MO100	MO120	MO140	MO161	MO181
MD110	MO110	MV120A	MV140A	MO170	MO182
MD120	MV110A	MV120B	MV140B	MO171	

Twenty (20) Electrical sheets:

EG000	EL120A	EP110B	EP140	E400	
EL100	EL120B	EP120A	EY100	E401	
EL110A	EP100	EP120B	ES111	E402	
EL110B	EP110A	EP130	ES112	E541	

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A. Clarifications and General Bidders' Questions (THESE ARE INTENDED ONLY TO CLARIFY PROVISIONS OF THE CONTRACT DOCUMENTS BUT DO NOT MODIFY THEM):

4.1.	**Question:** Request to add a manufacturer or a product to a list of acceptable manufacturers or products in a specification section. **Response:** Lists of products and manufacturers in the specifications are in the form of either a Restricted List or a Nonrestricted List, as defined in Section 01 60 00 PRODUCT REQUIREMENTS. In the case of a Nonrestricted List, submission of an unnamed product or manufacturer does not require a substitution or change to the Contract Documents, but must comply with requirements for "Comparable Products" as outlined in that Section. For products specified by name and accompanied by the term "or equal," or "or approved equal," or "or approved," comply with the requirements in "Comparable Products" Article in Section 01 60 00 PRODUCT REQUIREMENTS. Such a product is not considered a substitution. Proposed changes to a Restricted List shall be in accordance with Section 01 25 00 SUBSTITUTION PROCEDURES. Per the Contract Documents, no substitutions will be entertained during the bidding period. After Contract award, alternate approaches or substitutions may be reviewed in accordance with the procedures outlined in Section 01 25 00 SUBSTITUTION PROCEDURES.
4.2.	**Question:** Requests to add manufacturers or products to various Division 28 Sections. **Response:** See revisions to Division 28 Sections of the Project Manual, below.
4.3.	**Question:** Section 28 50 500 MISCELLANEOUS SYSTEMS FOR ELECTRONIC SECURITY, PART 2 – PRODUCTS, 2.4 and 2.5: are the listed manufacturers correct for those items? **Response:** Manufacturers are correct as shown. See revision to this section, below.
4.4.	**Question:** In Section 11 19 23 DETENTION STAINLESS STEEL WINDOWS, request to remove requirements for Grade No. 1 and Grade No. 2 Composite T.R. Steel at 1.3.A.6; 1.3.A.8, and 2.2.C. **Response:** No revisions are required at these locations, as the listed grades are presented as options from which the Contractor must choose.
4.5.	**Question:** Is a badging station required as part of Electronic Security? **Response:** No badging station is required.
4.6.	**Question:** Contractor's responsibilities and scope for lightning protection system. **Response:** Requirements for lightning protection system are specified in Section 26 41 13 LIGHTNING PROTECTION FOR STRUCTURES, including requirements for delegated design of the system by a Professional Engineer and protection of new construction and existing building.

B. Drawings

4.7.	Sheet SO110: Replace this sheet with revised sheet SO110, attached.
4.8.	Sheet SO120: Replace this sheet with revised sheet SO120, attached.

4.9.	Sheet SP110A: Replace this sheet with revised sheet SP110A, attached.
4.10.	Sheet SP110B: Replace this sheet with revised sheet SP110B, attached.
4.11.	Sheet SP120A: Replace this sheet with revised sheet SP120A, attached.
4.12.	Sheet SP120B: Replace this sheet with revised sheet SP120B, attached.
4.13.	Sheet SP140A: Replace this sheet with revised sheet SP140A, attached.
4.14.	Sheet SP150A: Replace this sheet with revised sheet SP150A, attached.
4.15.	Sheet S300: Replace this sheet with revised sheet S300, attached.
4.16.	Sheet S301: Replace this sheet with revised sheet S301, attached.
4.17.	Sheet S302: Replace this sheet with revised sheet S302, attached.
4.18.	Sheet S303: Replace this sheet with revised sheet S303, attached.
4.19.	Sheet S500: Replace this sheet with revised sheet S500, attached.
4.20.	Sheet S504: Replace this sheet with revised sheet S504, attached.
4.21.	Sheet S601: Replace this sheet with revised sheet S601, attached.
4.22.	Sheet A220: Replace this sheet with revised sheet A220, attached.
4.23.	Sheet A300: Replace this sheet with revised sheet A300, attached.
4.24.	Sheet A301: Replace this sheet with revised sheet A301, attached.
4.25.	Sheet A302: Replace this sheet with revised sheet A302, attached.
4.26.	Sheet A320: Replace this sheet with revised sheet A320, attached.
4.27.	Sheet A321: Replace this sheet with revised sheet A321, attached.
4.28.	Sheet A322: Replace this sheet with revised sheet A322, attached.
4.29.	Sheet A403: Replace this sheet with revised sheet A403, attached.
4.30.	Sheet A504: Replace this sheet with revised sheet A504, attached.
4.31.	Sheet A505: Replace this sheet with revised sheet A505, attached.
4.32.	Sheet A620: Replace this sheet with revised sheet A620, attached.
4.33.	Sheet FE100: Replace this sheet with revised sheet FE100, attached.
4.34.	Sheet FE110A: Replace this sheet with revised sheet FE110A, attached.
4.35.	Sheet FE110B: Replace this sheet with revised sheet FE110B, attached.
4.36.	Sheet FE120A: Replace this sheet with revised sheet FE120A, attached.

4.37.	Sheet FE120B: Replace this sheet with revised sheet FE120B, attached.
4.38.	Sheet FE130A: Replace this sheet with revised sheet FE130A, attached.
4.39.	Sheet AF801 ROOM FINISH SCHEDULE: Change 6.2 HOT & COLD PREP Floor Finish from SC-6/SC-7 to SC-6.
4.40.	Sheet D110A: Replace this sheet with revised sheet D110A, attached.
4.41.	Sheet D110B: Replace this sheet with revised sheet D110B, attached.
4.42.	Sheet D120A: Replace this sheet with revised sheet D120A, attached.
4.43.	Sheet D120B: Replace this sheet with revised sheet D120B, attached.
4.44.	Sheet D130: Replace this sheet with revised sheet D130, attached.
4.45.	Sheet D400: Replace this sheet with revised sheet D400, attached.
4.46.	Sheet D403: Replace this sheet with revised sheet D403, attached.
4.47.	Sheet P100: Replace this sheet with revised sheet P100, attached.
4.48.	Sheet P101: Add sheet P101, attached.
4.49.	Sheet PO182: Replace this sheet with revised sheet PO182, attached.
4.50.	Sheet PO183: Replace this sheet with revised sheet PO183, attached.
4.51.	Sheet PO184: Replace this sheet with revised sheet PO184, attached.
4.52.	Sheet MO001: Replace this sheet with revised sheet MO001, attached.
4.53.	Sheet MD100: Replace this sheet with revised sheet MD100, attached.
4.54.	Sheet MD110: Replace this sheet with revised sheet MD110, attached
4.55.	Sheet MD120: Replace this sheet with revised sheet MD120, attached
4.56.	Sheet MD140: Replace this sheet with revised sheet MD140, attached
4.57.	Sheet MO100: Replace this sheet with revised sheet MO100, attached.
4.58.	Sheet MO110: Replace this sheet with revised sheet MO110, attached.
4.59.	Sheet MV110A: Replace this sheet with revised sheet MV110A, attached.
4.60.	Sheet MV110B: Replace this sheet with revised sheet MV110B, attached.
4.61.	Sheet MO120: Replace this sheet with revised sheet MO120, attached.
4.62.	Sheet MV120A: Replace this sheet with revised sheet MV120A, attached.
4.63.	Sheet MV120B: Replace this sheet with revised sheet MV120B, attached.
4.64.	Sheet MV130A: Replace this sheet with revised sheet MV130A, attached.

4.65.	Sheet MO140: Replace this sheet with revised sheet MO140, attached.
4.66.	Sheet MV140A: Replace this sheet with revised sheet MV140A, attached.
4.67.	Sheet MV140B: Replace this sheet with revised sheet MV140B, attached.
4.68.	Sheet MO160: Replace this sheet with revised sheet MO160, attached.
4.69.	Sheet MO161: Replace this sheet with revised sheet MO161, attached.
4.70.	Sheet MO170: Replace this sheet with revised sheet MO170, attached.
4.71.	Sheet MO171: Replace this sheet with revised sheet MO171, attached.
4.72.	Sheet MO180: Replace this sheet with revised sheet MO180, attached.
4.73.	Sheet MO181: Replace this sheet with revised sheet MO181, attached.
4.74.	Sheet MO182: Replace this sheet with revised sheet MO182, attached.
4.75.	Sheet EG000: Replace this sheet with revised sheet EG000.
4.76.	Sheet EL100: Replace this sheet with revised sheet EL100.
4.77.	Sheet EL110A: Replace this sheet with revised sheet EL110A.
4.78.	Sheet EL110B: Replace this sheet with revised sheet EL110B.
4.79.	Sheet EL120A: Replace this sheet with revised sheet EL120A.
4.80.	Sheet EL120B: Replace this sheet with revised sheet EL120B.
4.81.	Sheet EP100: Replace this sheet with revised sheet EP100.
4.82.	Sheet EP110A: Replace this sheet with revised sheet EP110A.
4.83.	Sheet EP110B: Replace this sheet with revised sheet EP110B.
4.84.	Sheet EP120A: Replace this sheet with revised sheet EP120A.
4.85.	Sheet EP120B: Replace this sheet with revised sheet EP120B.
4.86.	Sheet EP130: Replace this sheet with revised sheet EP130.
4.87.	Sheet EP140: Replace this sheet with revised sheet EP140.
4.88.	Sheet EY100: Replace this sheet with revised sheet EY100.
4.89.	Sheet ES111: Replace this sheet with revised sheet ES111.
4.90.	Sheet ES112: Replace this sheet with revised sheet ES112.
4.91.	Sheet E400: Replace this sheet with revised sheet E400.
4.92.	Sheet E401: Replace this sheet with revised sheet E401.

4.93.	Sheet E402: Replace this sheet with revised sheet E402.
4.94.	Sheet E541: Replace this sheet with revised sheet E500.
4.95.	Sheet TY110A, FIRST FLOOR PLAN AREA A – SECURITY, GENERAL NOTES: Move General Note 3 to Keyed Notes on this sheet and label as Keyed Note 3.

C. Project Manual

4.96.	Section 00 12 50 CONSTRUCTION BID FORM: Replace pages 6 and 8 with revised pages 6 and 8, attached.
4.97.	Section 01 10 00 SUMMARY OF WORK, PART 1 – GENERAL, 1.9 ACCESS TO SITE, Paragraph D.4.: Add subparagraph a as follows: a. Contractor may access SUI Building basement via existing exterior stair at Forrest St. Existing freight elevator may be accessed via the existing OSTC loading at Forrest St. Loading dock provides a wider path to the freight elevator. Comply with requirements for security control for access to occupied areas.
4.98.	Section 01 21 00 SPECIALTY ALLOWANCES: Replace entire section with revised Section 01 21 00, attached.
4.99.	Section 01 22 00 UNIT PRICES: Replace entire section with revised Section 01 22 00, attached.
4.100.	Section 01 50 00 TEMPORARY FACILITIES AND CONTROLS, PART 3 – EXECUTION, 3.2 TEMPORARY UTILITY INSTALLATION, Paragraph A.10: Replace subparagraph b with the following: b. Coordinate with BGE to provide a temporary Medium Voltage switch, transformer, conduit, CT cabinet, metering and all associated appurtenances required to maintain power to the OSTC and other occupied areas of the SUI Building. Locate the temporary equipment on the sidewalk between Truxton street and the SUI Building. This will include new underground conduits from the nearest BGE manhole to the transformer and underground conduits from the BGE transformer to a CT cabinet located on the exterior of the SUI Building per BGE standards. Provide bollards around the transformer per BGE standards. Adjacent to the CT cabinet, provide a new 600A 480V breaker in a NEMA 3R enclosure and extend two sets of 4 # 350kcmil in 2-4" EMT conduits routed in the basement of the SUI Building to the existing-to-remain switchboard. This reconnection or cutover from the existing to the temporary service shall be performed while the OSTC area is unoccupied (after 4:00pm and until 6:00am on weekdays, or else on weekends). The contractor shall be fully responsible to coordinate all aspects of the BGE work to maintain service to occupied areas of the SUI Building. The energy usage component of this service shall be paid by the Owner. An allowance as described in Section 01 21 00 SPECIALTY ALLOWANCES is included to cover the BGE cost for this service.
4.101.	Section 08 88 53 DETENTION GLAZING, PART 1 – GENERAL, 1.5 QUALITY ASSURANCE: Delete Paragraph C. Indiana Building Code, Chapters 43 and 54.
4.102.	Section 08 88 53 DETENTION GLAZING, PART 2 – PRODUCTS, 2.1 MANUFACTURERS: Add Paragraph B as follows: B. Provide all security glazing products from a single manufacturer.
4.103.	Section 10 14 00 SIGNAGE: Replace entire Attachment A SIGNAGE SCHEDULE & entire Attachment B SIGNAGE DRAWINGS with revised Attachments A & B.

4.104.	Section 11 19 23 DETENTION STAINLESS STEEL WINDOWS, PART 2 – PRODUCTS, 2.2 MATERIALS: Replace Paragraph C and subparagraphs 1 through 4 with the following: C. Tool-Resisting Steel Bars: Shall be painted with approved-rust-inhibitive primer paint and shall conform to ONE of the following grades by ASTM A 627-03 standard: 1. Grade No. 1, Composite T.R. Steel, 1" dia. round & 3/8" x 2 1/4" flat. 2. Grade No. 2, Composite T.R. Steel, 1" dia. round & 3/8" x 2 1/4" flat. 3. Grade No. 3, Homogenous T.R. Steel, 1" dia. Round & 5/16" x 2 1/4" flat.
4.105.	Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC, PART 1 – GENERAL, 1.5 QUALITY ASSURANCE: Replace Paragraph A and subparagraphs 1 and 2 with the following: A. TAB Contractor Qualifications: Engage a TAB entity certified by AABC or NEBB 1. TAB Field Supervisor: Employee of the TAB contractor and certified by AABC or NEBB. 2. TAB Technician: Employee of the TAB contractor and certified by AABC or NEBB as a TAB technician.
4.106.	Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC, PART 1 – GENERAL, 1.5 QUALITY ASSURANCE: Replace Paragraph C. with the following: C. TAB Report Forms: TAB forms are to be AABC or NEBB standard forms.
4.107.	Section 23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC, PART 1 – GENERAL, 1.5 QUALITY ASSURANCE: Replace Paragraph D with the following: D. All equipment and procedures are to follow AABC or NEBB current standards.
4.108.	Section 23 09 23.11 CONTROL VALVES: Replace entire section with revised Section 23 09 23.11, attached. .
4.109.	Section 23 09 23.12 CONTROL DAMPERS: Replace entire section with revised Section 23 09 23.12, attached. .
4.110.	Section 23 31 13 METAL DUCTS, PART 3 – EXECUTION, 3.6 FIELD QUALITY CONTROL, B. Leakage Tests: Add subparagraph 6 as follows: 6. All ductwork except transfer ducts are to be leak tested regardless of the requirements or recommendations by SMACNA. All of the ductwork leak testing is to be witness by the TAB contractor and documented by the TAB contractor. See specification section 230800 for additional requirements.
4.111.	Section 23 33 00 AIR DUCT ACCESSORIES, PART 3 0 EXECUTION, 3.1 INSTALLATION, Paragraph D: Add subparagraph 2 as follows: 2. Install duct mounted manual volume dampers at each duct branch, riser take off, tap, air device, grille, diffuser, register, equipment/device connection, open ended duct, etc.
4.112.	**NOT USED**
4.113.	Section 26 23 13 MEDIUM VOLTAGE LOAD INTERRUPTER SWITCHGEAR, PART 3 – EXECUTION, 3.1 FACTORY TESTING, Paragraph B: Delete subparagraph 2.
4.114.	Section 26 23 14 INTERIOR MEDIUM VOLTAGE METAL-ENCLOSED SWITCHGEAR, PART 3 – EXECUTION, 3.1 FACTORY TESTING, Paragraph B: Delete subparagraph 2.

4.115.	Section 26 24 16 PANELBOARDS, PART 3 – EXECUTION, 3.2 INSTALLATION: Delete paragraph H.
4.116.	Section 26 25 24 COORDINATION WITH DIVISION 28, PART 3 – EXECUTION: Replace Paragraph 3.1 and all subparagraphs with the following: 3.1 Work provided under Division 28 A. All electrical work associated with the security electronics systems including conduit, conduit bodies, back boxes, wire and cable, wiring devices, panel boards, and all appurtenances thereto are part of the Division 26 scope of work; exceptions are as noted under item B below. B. The interface between the electrical and security electronics scope of work is as follows: 1. Security system power distribution is the responsibility of the Division 26 contractor. Conduit, wire, wiring devices and panel boards shall be provided under the Division 26 scope of work. All material and workmanship will be as specified in the Division 26 specifications. Power to all security control consoles, equipment cabinets, etc. is the responsibility of the Division 26 contractor. 2. Elevator interface panels are provided under the Division 28 scope of work. All conduit and wire associated with the security electronics control side of the interface is by Division 26. Conduit and wire between the security electronics interface panel and the elevator equipment is by Division 26. 3. Security lighting control interface requires the lighting distribution circuits to be routed through the relay cabinet. The distribution circuits, relays and locations controlled are described in the relay schedules on sheet E542 and see detail 2 sheet TY601. The Division 26 electrical contractor is responsible for all conduit, wire, and fixtures etc. for the lighting circuits. The electrical contractor is responsible for providing the relay panels and control relays and integrating the control into the PLC/Bacnet. 4. Security receptacle control interface requires the power distribution circuits to be routed through the relays cabinet. The distribution circuits, relays and locations controlled are described in the relay schedules on sheet E542 and see detail 2 on sheet TY601. The Division 26 electrical contractor is responsible for all conduit, and wire, for the receptacle circuits. The electrical contractor is responsible for providing the relay panels and control relays and integrating the control into the PLC/Bacnet. 5. The signal grounding system indicated on electrical and security drawings provided by the Division 26 contractor. Conduit and wire required to connect the TMGB to the main electrical ground point is the responsibility of the Division 26 contractor. Connection of the telecommunications rooms (MDF/IDF) ground buss bars to the signal grounding system is by the Division 26 contractor.
4.117.	Section 26 32 13 DIESEL GENERATOR, PART 1 – GENERAL, 1.8 WARRANTY, A. Base Warranty: Revise "twelve (24) months" to "twenty-four (24) months".
4.118.	Section 26 43 13 SURGE PROTECTIVE DEVICES (SPDS) – LOW VOLTAGE AC SURGE PROTECTION FOR ELECTRICAL DISTRIBUTION SYSTEMS, PART 3 – EXECUTION, 3.4 WARRANTY, Paragraph A: Revise "ten (10) year warranty" to "five (5) year warranty."

4.119.	At each of the following Sections, PART 2 – PRODUCTS, 2.1 GENERAL: 28 05 11 BACKBONE SYSTEM CABLING FOR ELECTRONIC SECURITY, 28 05 26 GROUNDING AND BONDING FOR ELECTRONIC SECURITY, 28 11 16 CABINETS AND ENCLOSURES FOR ELECTRONIC SECURITY, 28 13 00 ACCESS CONTROL SYSTEM FOR ELECTRONIC SECURITY, 28 46 19 PLC HARDWARE FOR ELECTRONIC SECURITY, 28 46 20 PLC SOFTWARE FOR ELECTRONIC SECURITY, 28 50 00 MISCELLANEOUS SYSTEMS FOR ELECTRONIC SECURITY, 28 51 23 INTEGRATED INTERCOM/PAGING SYSTEM FOR ELECTRONIC SECURITY, Replace Paragraph B with the following: B. Lists of products and manufacturers are Nonrestricted. Submission of an unnamed product or manufacturer does not require a substitution or change to the Contract Documents, but must comply with requirements for "Comparable Products" as outlined in Section 01 60 00 PRODUCT REQUIREMENTS.
4.120.	Section 28 23 13 VIDEO SURVEILLANCE FOR ELECTRONIC SECURITY: Replace entire section with revised Section 28 23 1, attached.
4.121.	Section 28 50 00 MISCELLANEOUS SYTEMS FOR ELECTRONIC SECURITY, PART 2 – PRODUCTS, 2.5 PANIC ALARM PUSHBUTTON, UNDER COUNTER, Paragraph B. Acceptable Manufacturers: Delete the following from subparagraph 1: "Button head engraved 'DURESS'."

END of ADDENDUM NO. 4

SA-2	Removal of Hazardous Roof Material: In accordance with description and requirements in Section 01 21 00 Specialty Allowances.	1	$ 25,000.00	$ 25,000.00
SA-3	Removal of Hazardous Material from Existing Fire Suppression System and Fire Alarm/Detection System in the OSTC Portion of SUI Building: In accordance with description and requirements in Section 01 21 00 Specialty Allowances.	1	$15,000.00	$15,000.00
SA-4	Repair of the Existing Concrete Masonry Partition that Separates the Renovated YDC Portion of the SUI Building from the OSTC Portion of the SUI Building: In accordance with description and requirements in Section 01 21 00 Specialty Allowances	1	$10,000.00	$10,000.00
SA-5	Upgrade to Existing Fire Suppression System in OSTC Occupied Portion of SUI Building In accordance with description and requirements in Section 01 21 00 Specialty Allowances.	1	$45,000.00	$45,000.00
SA-6	Resolution to Unknown Below Grade or Hidden Utility Conflicts In accordance with description and requirements in Section 01 21 00 Specialty Allowances.	1	$25,000.00	$25,000.00
SA-7	Penetration Scan of First Floor "Dox Plank" Type Slab System in YDC Renovation Area of SUI Building to Locate Existing Reinforcing for New Openings In accordance with description and requirements in Section 01 21 00 Specialty Allowances.	1	$10,000.00	$10,000.00
SA-8	Maintenance of Electrical Service to Occupied Areas of SUI Building: In accordance with description and requirements of Section 01 2100 Specialty Allowances.	1	$30,000	$30,000
SA-9	Repairs to Existing 15kV Switchgear in D-Block Basement: In accordance with description and requirements of Section 01 20 00 Specialty Allowances.	1	$7,500	$7,500
			LUMP SUM TOTAL	$ 197, 500.00

Total **LUMP SUM PRICE** for **SPECIALTY ALLOWANCE SCHEDULE A** as required by the Contract Documents**:**

One Hundred Ninety-seven Thousand Five Hundred & 00/100 Dollars
Written

($) **197,500.00**
Figures

- **Include Lump Sum Price for the Specialty Allowance in the Lump Sum Bid Price, Paragraph B, above**

(Sign for Identification) Firm Name (Please PRINT or Type)

UPA-3	Removal of Unsuitable Material (backfill with structural fill material): In accordance with description and requirements in Section 01 22 00 Unit Price Allowances. Unit of Measurement: Payment will be made for the actual number of cubic yards of fill material in place.	1,200 CY	$_____/CY	$_____
UPA-4	Removal of unsuitable material (backfill with aggregate fill material): In accordance with description and requirements in Section 01 22 00 Unit Price Allowances. Unit of Measurement: Payment will be made for the actual number of cubic yards of fill material in place.	1,500 CY	$_____/CY	$_____
UPA-5	Provision of Exit Signs, in Place: In accordance with description and requirements in Section 01 22 00 Unit Price Allowances. Unit of Measurement: Payment will be made per exit sign, in place. Each sign shall include 100 linear feet of wiring.	10 EA	$_____/EA	$_____
UPA-6	Provision of Security Cameras: In accordance with description and requirements in Section 01 22 00 Unit Price Allowances. Unit of Measurement: Payment will be made for each camera type, including 150 linear feet of wiring per camera.	5 EA 0.3 Mega Pixel Interior IP	$_____/EA	$_____
		5 EA 0.3 Mega Pixel Exterior IP	$_____/EA	$_____
		1 EA 1.3 Megapixel Exterior IP	$_____/EA	$_____
		2 EA 1.3 Megapixel Interior IP	$_____/EA	$_____
		1 EA Wall Mount V-Cell Fixed IP	$_____/EA	$_____
		3 EA Corner Mount V-Cell Fixed IP	$_____/EA	$_____

(Sign for Identification) Firm Name (Please PRINT or Type)

SECTION 01 21 00 – SPECIALTY ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and other Division 00, Division 01, and Division 02 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements governing allowances.

1. Certain items are specified in the Contract Documents by allowances. Specialty Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor. If necessary, additional requirements will be issued by Change Order.

B. Types of allowances include the following:
1. Unit-cost allowances per Section 012200, Unit Price Allowances.
2. Specialty allowances.

C. Related Requirements:

1. Division 01 Section 012200 "Unit Prices" for procedures for using unit prices.
2. Division 01 Section 012600 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
3. Division 01 Section 012900 “Payment Procedures” for Application for Payment.
4. Division 01 Section 014000 "Quality Requirements" for general testing and inspecting requirements.
5. Division 01 Section 016000 “Product Requirements” for Product Options and Substitutions.
6. Division 31 Section 312500 “Erosion and Sediment Control.
7. Divisions 02 through 33 Sections for items of Work covered by allowances.

1.3 DEFINITIONS

A. Rock: Any material which cannot be removed by methods other than special rock excavation machinery, drilling, wedging and/or blasting shall be termed rock excavation. All other excavations shall be termed earth excavation. Should boulders be encountered, those in size up to 1/2 cubic yard shall be termed earth excavation.

B. Unknown, as applied to below-grade structure and infrastructure described under Schedule of Specialty Allowances: Subsurface or latent conditions not shown in either the Contract Documents, including the Limited Hazardous Materials Survey, or in the referenced existing building drawings provided by the Owner.

1.4 SELECTION AND PURCHASE

A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection and purchase of each product or system described by a Specialty Allowance must be completed to avoid delaying the Work.

B. At Owner's and Architect's request, obtain proposals for each Specialty Allowance for use in making final selections. Include recommendations that are relevant to performing the Work.

1.5 ACTION SUBMITTALS

A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders, as specified in Section 01 26 00, Contract Modification Procedures.

1.6 INFORMATIONAL SUBMITTALS

A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each Specialty Allowance.

B. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the Specialty Allowance.

C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.7 COORDINATION

A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.8 SPECIALTY ALLOWANCES

A. Allowance shall include: Cost of material, product or services to General Contractor and/or Subcontractor, less applicable trade discounts; all applicable direct and indirect costs; delivery to site; applicable fees and taxes, permit costs, warranty costs, bond costs, unemployment compensation, and insurance costs; testing and cleanup; overhead and profit; labor and installation; finishing; unloading, uncrating, handling, and storage; protection from elements and damage; submittals, engineering, and shop drawing requirements; supplementary or miscellaneous items, appurtenances and devices, tools or

equipment incidental to or necessary for a sound, secure and complete installation.

B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, and similar General Condition costs shall be included as part of the Contract Sum and not part of the Specialty Allowance.

C. Unused Materials: Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.

1. If requested by Architect, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.

D. Use the Specialty Allowance only as directed by Owner and reviewed by Architect, for Owner's purposes and only by a proposal that indicate amounts to be charged to the allowance.

E. Payment shall be made in accordance with Section 012900, “Payment Procedures”, and GENERAL CONDITIONS.

F. These Specialty Allowances are included in the Contract Sum. However, Contractor must submit a proposal and obtain authorization from the Owner for the use of the funds from the Specialty Allowance.

G. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count. If the actual work requires more or fewer quantities than those quantities indicated in the proposal, provide the actual quantities to be applied against the Specialty Allowance.

H. At Project closeout, credit all unused amounts remaining in the specialty allowances back to the Owner.

I. General Contractor is advised that the proposed Specialty Allowance prices given to him shall be subject to negotiations and revisions resulting in final prices that shall be mutually agreed upon and approved by the Owner.

J. Submit substantiation of scope of work, if any, claimed in proposal related to Specialty Allowances.

K. Final payment for work governed by specialty allowance prices will be made on the basis for the actual measurements and quantities accepted by the Owner.
1. List of Specialty Allowances: A schedule of Specialty Allowances is included in Part 3.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF SPECIALTY ALLOWANCES

A. In accordance with the General Conditions and Division 1, "Specialty Allowance", or "Unit Prices", when Owner orders work to be performed beyond the work limits as set forth in the Contract Documents including materials, operations, and items of work, etc., related to the specialty allowance items listed in the following schedule, the allowance prices for these items shall prevail.

B. Accordingly, the Contractor is advised that the proposed Lump Sum Total Price given by him for the items listed below shall be subject to measurement negotiations and revisions resulting in Final prices which shall be mutually agreed upon.

C. The Owner and Architect shall determine that the work associated with the Specialty Allowance items are applicable to this allowance and beyond the limits and requirements set forth within the Contract Documents.

D. All costs associated with the Specialty Allowance prices noted in the Schedule below shall be provided within the proper Construction Bid Form as required by Section 00 12 50.

E. **Precedence of Allowances:** For all work beyond the limits and requirements as set forth within the Contract Documents, the use of the Unit Price Allowance Items shall take precedence over the use of **Specialty Allowances 1 through 7,** as described below.

F. **SA-1 Removal of Unknown Below-Grade Site Structures:** Include **$30,000** for the demolition, removal and disposal off-site of unforeseen below-grade existing infrastructure (utilities, foundation walls and footings, tanks, rubble, etc.) within the Project site, due to unknown and unforeseen conditions that require resolution to enable the proper and complete construction of the Project. Removal of unknown and unforeseen below-grade hazardous materials is included in this allowance, and shall be performed with applicable Division 02 Environmental Sections. Such work may require environmental testing and

laboratory services to determine the actual extent of contamination in accordance with Division 01 Section "Environmental Inspection, Testing and Laboratory Services." The Owner and Architect shall determine that the work is applicable to this allowance and beyond the requirements set forth within the Contract Documents.

G. **SA-2 Removal of Hazardous Roof Material:** Include **$25,000.00** for the abatement and removal of hazardous roof material within the roofing system of the SUI building to the extent of the roof replacement. The work may require environmental testing and laboratory services to determine the actual extent of contamination in accordance with Division 01 "Environmental Inspection, Testing & Laboratory Services. All Environmental work shall be performed in strict accordance with Division 02 Section "Asbestos Abatement". This unforeseen or unsatisfactory condition requires resolution to enable the proper and complete construction of the Project. The Owner and Architect shall determine that the work is applicable to this allowance and beyond the requirements set forth within the Contract Documents.

H. **SA-3 Removal of Hazardous Material from Existing Fire Suppression System and Fire Alarm/Detection System in the OSTC Portion of SUI Building:** Include **$15,000.00** for the abatement and removal of hazardous material associated with the existing fire suppression system upgrade within the OSTC portion of the SUI Building as defined in the Contract Documents. The work may require environmental testing and laboratory services to determine the actual extent of contamination in accordance with Division 01 "Environmental Inspection, Testing & Laboratory Services. All Environmental work shall be performed in strict accordance with Division 02 Section "Asbestos Abatement". This unforeseen or unsatisfactory condition requires resolution to enable the proper and complete construction of the Project. The Owner and Architect shall determine that the work is applicable to this allowance and beyond the requirements set forth within the Contract Documents.

I. **SA-4 Repair of the Existing Concrete Masonry Partition that Separates the Renovated YDC Portion of the SUI Building from the OSTC Portion of the SUI Building:** Include **$10,000.00** for the repair and infill of the existing concrete masonry wall between the new YDC portion of the SUI Building and the existing OSTC portion of the SUI Building on both the first and second existing floor levels. It is unknown whether the existing wall runs to the underside of the floor or roof deck and that all penetrations, and openings throughout the height and length of the wall are properly infilled, sealed, and made smoketight to ensure a sound smoke barrier as shown in the construction documents. Smaller opening may be firesafed or smoke sealed. Larger openings may be receive a more stable infill system. This unforeseen or unsatisfactory condition requires resolution to enable the proper and complete construction of the Project. The Owner and Architect shall determine that the work is applicable to this allowance and beyond the requirements set forth within the Contract Documents.

J. **SA-5 Upgrade to Existing Fire Suppression System in OSTC Occupied Portion of SUI Building:** Include **$45,000** for the upgrade or replacement of the existing fire suppression system in the OSTC occupied portion of the SUI Building. This may include, but not be limited to: replacement or relocation of sprinkler heads, provision of new sprinkler heads, replacement of existing piping, provision of new fire suppression piping, removal and reinstallation of existing suspended ceilings to obtain access to fire suppression systems, etc. This unforeseen or unsatisfactory condition requires resolution to enable the

proper and complete construction of the Project. The Owner and Architect shall determine that the work is applicable to this allowance and beyond the requirements set forth within the Contract Documents.

K. **SA-6 Resolution to Unknown Below Grade or Hidden Utility Conflicts:** Include **$25,000.00** for the resolution of below grade conflicts between new work and existing utilities or structures within Forrest St. This work may include, but not be limited to: relocation of new work to accommodate existing conditions to remain in place, alternate detailing to bridge over an existing utility, etc. These unknown or unforeseen conditions require resolution to enable the proper and complete construction of the Project. The Owner and Architect shall determine that the work is applicable to this allowance and beyond the requirements set forth within the Contract Documents.

L. **SA-7 Penetration Scan of First Floor "Dox Plank" Type Slab System in YDC Renovation Area of SUI Building to Locate Existing Reinforcing for New Openings:** Include **$10,000** to perform a penetration scan of the existing "Dox Plank" type slab system in the YDC renovation area of SUI Building in order to determine the configuration of the reinforcing in the existing system. This information will be used by the Architect, and its consultants, to properly locate and detail the new openings in the slab for the new work (ducts, piping, chases, conduits, etc.) relative to the reinforcing. The scan only needs to occur where penetrations occur or existing large openings are to be filled. This unforeseen or unsatisfactory condition requires resolution to enable the proper and complete construction of the Project. The Owner and Architect shall determine that the work is applicable to this allowance and beyond the requirements set forth within the Contract Documents.

M. **SA-8 Maintenance of Electrical Service to Occupied Areas of SUI Building:** Include **$30,000** for BGE costs associated with a temporary transformer and meter to main electrical service to the OSTC and other occupied areas of the SUI Building. Allowance does not apply to all other costs associated with maintaining this service, including cable, conduit, breakers and other equipment and labor, which shall be included in the bid price before the addition of the Allowance.

N. **SA-9 Repairs to Existing 15kV Switchgear in D-Block Basement:** Include **$7,500** for repairs to existing switchgear in D-Block Basement required to perform the Work of this contract. The Owner and Architect shall determine that the work is applicable to this allowance and beyond the requirements set forth within the Contract Documents.

END OF SECTION 01 21 00

SECTION 01 22 00 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for unit prices:

1. The unit prices in the UNIT PRICE SCHEDULE shall be used to increase or decrease the contract price depending upon the quantities of the items actually measured in place and authorized by the Owner. Each unit price shall include all work, materials and incidentals necessary to complete the Work required by the item.
2. The unit costs will be used to adjust the Contract Sum and shall include all direct and indirect costs, as noted below. The unit price work is above and beyond the work shown in the Contract Documents and the project work limits, however, during the course of the Work, the Owner may direct their incorporation as necessary. Payment for unit price items will be made on the basis of the quantities actually measured in place.

B. Types of allowances include the following:

1. Specialty allowances per Section 012100, Specialty Allowances
2. Unit Price Allowances:
   a. For purposes of this Information for Bid (IFB), a Unit Price Allowance has been developed which includes quantity-unit assumptions. The Contractor shall apply a unit cost to determine a total allowance for each Unit Price noted in the Unit Price Schedule. The Lump Sum total of the Unit Price Schedule is to be included in the Bid, Paragraph B, Section 00 12 50, Construction Bid Form.
   b. As noted in Paragraph 1.2, A above, the Contractor’s unit costs and actual measured quantities, will be charged to the Unit Price Allowance. Any adjustment to the Contract Sum due to a difference between the Unit Price Allowance and the actual used will be resolved as noted above, and in Section 01 29 00, Payment Procedures.

C. Related Requirements:

1. Division 01 Section 012100 "Specialty Allowance" for procedures for using the specialty allowances.
2. Division 01 Section 012600 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
3. Division 01 Section 012900 “Payment Procedures” for Application for Payment.
4. Division 01 Section 014000 "Quality Requirements" for general testing and inspecting requirements.

5. Division 01 Section 016000 “Product Requirements” for Product Options and Substitutions.
6. Division 31 Section 312500 “Erosion and Sediment Control.
7. Divisions 02 through 33 Sections for items of Work covered by allowances.

1.3 DEFINITIONS

A. Unit price is an amount proposed by the Bidders and stated on the Bid Form as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

B. Rock: Any material which cannot be removed by methods other than special rock excavation machinery, drilling, wedging and/or blasting shall be termed rock excavation. All other excavations shall be termed earth excavation. Should boulders be encountered, those in size up to 1/2 cubic yard shall be termed earth excavation.

1.4 ACTION SUBMITTALS

A. Submit proposals for Owner’s approval for purchase of products or systems included in allowances, in the form specified for Change Orders, as specified in Section 01 26 00, Contract Modification Procedures.

1.5 INFORMATIONAL SUBMITTALS

A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each unit price allowance.

B. Submit time sheets and other documentation to show labor time and cost for installation of unit price allowance items that include installation as part of the allowance.

C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.6 COORDINATION

1.7 Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.8 PROCEDURES

A. Unit Price Costs include: Cost of material, product or services to General Contractor and/or Subcontractor, less applicable trade discounts; all applicable direct and indirect costs; delivery to site; applicable fees and taxes, permit costs, warranty costs, bond costs, unemployment compensation, and insurance costs; testing and cleanup; overhead and profit; labor and installation; finishing; unloading, uncrating, handling, and storage; protection from elements and damage; submittals, engineering, and shop drawing requirements; supplementary or miscellaneous items, appurtenances and

devices, tools or equipment incidental to or necessary for a sound, secure and complete installation.

B. Use the Unit Prices only as directed by Owner and reviewed by Architect, for Owner's purposes and only by a proposal that indicate amounts to be charged to the unit price allowance.

C. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.

1. Quantities Specified:

   a. Quantities indicated in the Construction Bid Form are for bidding and contract purposes only. Quantities and measurements supplied or placed in the Work and verified by the owner determine payment.
   b. If the actual work requires more or fewer quantities than those quantities indicated, provide the required quantities at the unit sum/prices contracted.

2. Measurement of Quantities:

   a. The calculations for determining the number of units of work, unless otherwise noted, shall be of actual units of measurement for the class of work, complete in place and accepted or omitted. No allowance for waste, loss, bulking factor, or damage will be made.
   b. Measurement by devices:

      1) Weigh scales: Inspected, tested and certified by the applicable State Weights and Measures department within the past year.
      2) Platform scales: Of sufficient size and capacity to accommodate the conveying vehicle.
      3) Metering devices: Inspected, tested and certified by the applicable State department within the past year

   c. Measurement by weight: Handbook or scale weight.
   d. Measurement by volume: Measured by cubic dimension using mean length, width and height or thickness.
   e. Measurement by area: Measured by square dimension using mean length and width or radius.
   f. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord.
   g. Hours
   h. Numbers by individual items

3. Take all measurements and compute quantities. The Owner in coordination with the Agency Construction Manager will verify measurements and quantities.

D. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor. If found that the Contractor’s measurement was unreasonably determined, the expense will revert to the Contractor.

1. If the unit prices are stated in the Contract Documents or subsequently agreed upon, and if the quantities originally contemplated increase or decrease by more

than twenty percent (20%), or if application of the agreed unit prices to the quantities of work proposed will cause substantial inequity to the Owner or the Contractor, the applicable unit prices shall be equitably adjusted.

E. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

F. Payment shall be made in accordance with Section 012900, “Payment Procedures”, and GENERAL CONDITIONS.

G. **AT PROJECT CLOSEOUT, CREDIT ALL UNUSED UNIT PRICE ALLOWANCES REMAINING BACK TO THE OWNER.**

H. General Contractor is advised that the proposed unit allowance prices given by him shall be subject to negotiations and revisions resulting in final prices that shall be mutually agreed upon and approved by the Owner.

I. Submit substantiation of scope of work, if any, claimed in proposal related to Unit Price Allowances.

J. Final payment for work governed by unit allowance prices will be made on the basis for the actual measurements and quantities, accepted by the Owner and Agency Construction Manager, and multiplied by the unit sum/price for work, which is incorporated in or made necessary by the work.

K. List of Unit Price Allowances: A schedule of Unit Price Allowances is included in Part 3.

L. **All unit prices shall apply equally to both additions and/or deductions.**

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF UNIT PRICES ALLOWANCES

A. In accordance with the General Conditions and Division 1, “Specialty Allowance”, or “Unit Price Allowances”, when Owner orders work to be performed beyond the work limits, as set forth in the Contract Documents, including materials, operations, and items

of work, etc., related to the unit price allowance items listed in the following schedule, the unit price allowance prices for these items shall prevail.

B. Accordingly, the Contractor is advised that the proposed Lump Sum Total Price given by him for the items listed below shall be subject to measurement negotiations and revisions resulting in Final prices which shall be mutually agreed upon.

C. The Owner and Architect shall determine that the work associated with the Unit Price Allowance items are applicable to this allowance and beyond the limits and requirements set forth within the Contract Documents.

D. All costs associated with the Unit Price Allowance items noted in the Schedule below shall be provided within the Construction Bid Form as required by Section 00 12 50, CONSTRUCTION BID FORM.

E. **Precedence of Allowances:**

1. For all work beyond the limits and requirements as set forth within the Contract Documents, the use of the Unit Price Allowance Items shall take precedence over the use of **Specialty Allowances 1 through 4,** as described in Division 01, Section "Specialty Allowance Schedule".

F. **UPA-1, Filling of Existing Openings in Gypsum Deck System in YDC Renovation Area of SUI Building, in Place:**

1. Provision, per square feet, for filling/patching of existing gypsum roof deck openings up to 6 inches deep, in accordance with structural detail shown in Structural Construction Drawings. **Quantity = 500 SF;**

G. **UPA-2, Rock Excavation and replacement with satisfactory soil material:**

1. Provision, per cubic yard, for open rock excavation, including rock excavation in trenches, caissons, and including disposal off site, and replacement with satisfactory fill material or engineered fill form off site, according to Section 312000 "Earth Moving"; **Quantity = 250 CY;**

H. **UPA-3, Removal of Unsuitable Material (backfill with structural fill material):**

1. Provision, per cubic yard, for removal of unsuitable material and replacement with structural fill for backfill adjacent to foundations, below paved areas, at utility excavations, behind walls and within 5 feet of building foundations in accordance with Section 312000, "Earth Moving"; **Quantity = 1200 CY;**

I. **UPA-4, Removal of Unsuitable Material (Backfill with Aggregate Fill Material):**

1. Provision, per cubic yard, for removal of unsuitable material within the building footprint below sub-grade elevation indicated on the drawings and replacement with aggregate fill material in accordance with the Geotechnical Report prepared by EBA Engineering, August, 2014. Allowance does not apply to backfill of voids created by the demolition work that are located below the proposed building foundations and slabs-on-grade, which shall be included in the bid price before the addition of the prices for the Specialty and Unit Price Allowances. **Quantity = 1500 CY;**

J. **UPA-5, Provision of Exit Signs, in Place:**

1. Provision of additional exit lights as specified in Section 265100, "Interior Lighting", and in accordance with Contract Documents; Need and location shall be as determined by Owner, and Architect, or State Fire Marshall, and shall include attachments, installation, and applicable required wiring. **Quantity = 10 Exit Signs and 100 LF wiring per sign;**

K. **UPA-6, Provision of Security Cameras:**

1. Provision of security camera types noted below, including installation, conduits, and wiring/cabling in accordance with Division 28, "Electronic Safety and Security". Camera types:

   a. Interior IP Fixed 0.3 Mega Pixel Camera; **Quantity = 5 Cameras and 150 LF wiring per camera**;
   b. Exterior IP Fixed 0.3 Mega Pixel Camera; **Quantity = 5 Cameras and 150 LF wiring per camera**;
   c. Exterior IP Fixed 1.3 Mega Pixel Camera; **Quantity = 1 Cameras and 150 LF wiring per camera**;
   d. Interior IP Fixed 1.3 Mega Pixel Camera; **Quantity = 2 Cameras and 150 LF wiring per camera**;
   e. Wall Mount IP, V-Cell Fixed Camera; **Quantity = 1 Cameras and 150 LF wiring per camera**;
   f. Corner Mount IP, V-Cell Fixed Camera; **Quantity = 3 Cameras and 150 LF wiring per camera**;

L. **UPA-7,** Patching of Existing Concrete Roof Slab where Roofing Material is Removed on SUI Building:

1. Provision, per square feet, of concrete leveling repair system for spalled, chipped damaged or deteriorated gypsum roof deck in accordance, including equipment, materials, placing, complete; **Quantity = 1200 SF**

M. **UPA-8, Replacement of Conduit & Wiring for Existing OSTC Fire Alarm System:**

1. Provision, per linear feet, of replacement conduit and wiring for the existing fire alarm system conduit and wiring, including equipment, materials, placing, complete; **Quantity = 5000 LF**

N. **UPA-9, Replacement of Duct Detectors for Existing OSTC Fire Alarm System:**

1. Provision, per duct detector, including new duct detector, wiring, and conduit to nearest addressable loop, programming of fire alarm panel, removal of existing control wiring for AHU shut down, reconnection to new duct detector and fire alarm panel, complete; **Quantity = 10 EA and 100 LF of wiring and conduit.**

O. **UPA-10,** Filling of Existing Small Unreinforced Openings (< .5 SF) in First Floor "Dox Plank" Type Slab System in YDC Renovation Area of SUI Building**:**

1. Provision, per square feet, of concrete fill, in accordance with structural detail shown in Structural Construction Drawings, including equipment, materials, placing, complete; **Quantity = 250 SF**

P. **UPA-11,** Filling of Existing Large Reinforced Openings (> .5 SF) in First Floor "Dox Plank" Type Slab System in YDC Renovation Area of SUI Building**:**

1. Provision, per square feet, of reinforced concrete fill, steel support framing, and metal deck, in accordance with structural detail shown in Structural Construction Drawings, including equipment, materials, placing, complete; **Quantity = 250 SF**

Q. **UPA-12,** Filling of Existing Openings in Second Floor Metal Deck and Concrete Slab System in YDC Renovation Area of SUI Building**:**

1. Provision, per square feet, of reinforced concrete fill, steel support framing, and metal deck, in accordance with structural detail shown in Structural Construction Drawings, including equipment, materials, placing, complete; **Quantity = 250 SF**

END OF SECTION 01 22 00

EXIT SIGN PLAQUE (ADA)

2.0

DOOR TAG PLAQUE (NON-ADA)

1.0

ADDENDUM # 4 02/26/2015

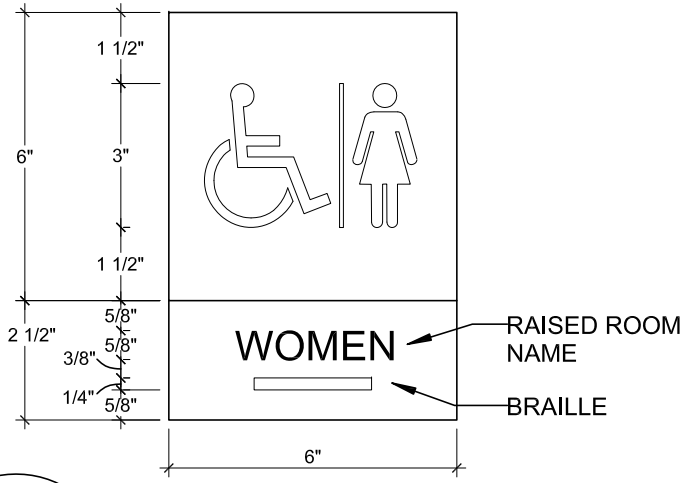
2.1

EXIT SIGN PLAQUE (NON-ADA)

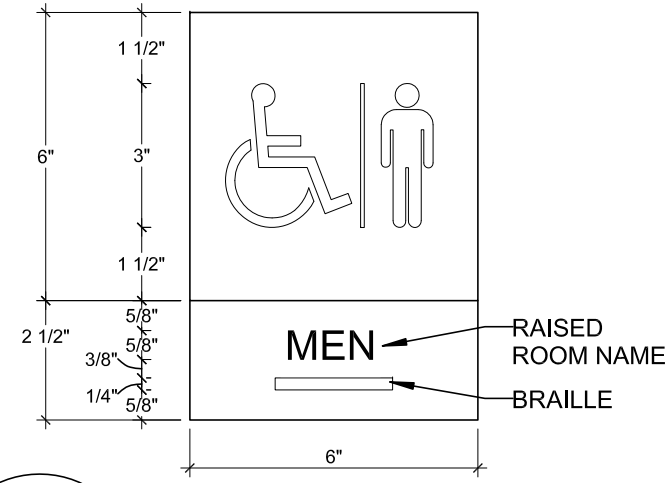
2.2

EXIT SIGN PLAQUE (NON-ADA)

ADDENDUM # 4 02/26/2015



3.2 ROOM PLAQUE (ADA)



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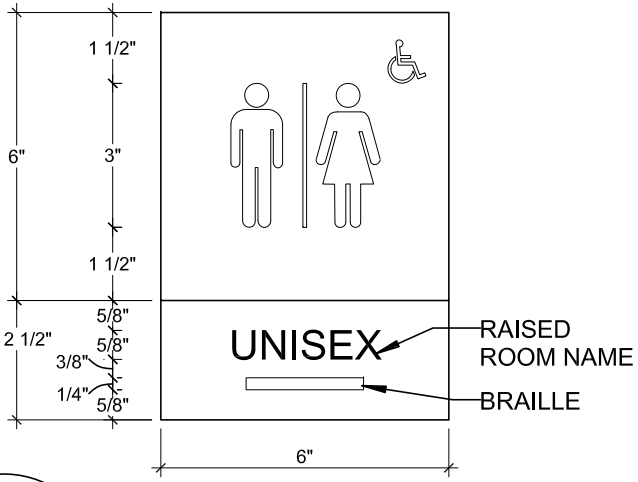

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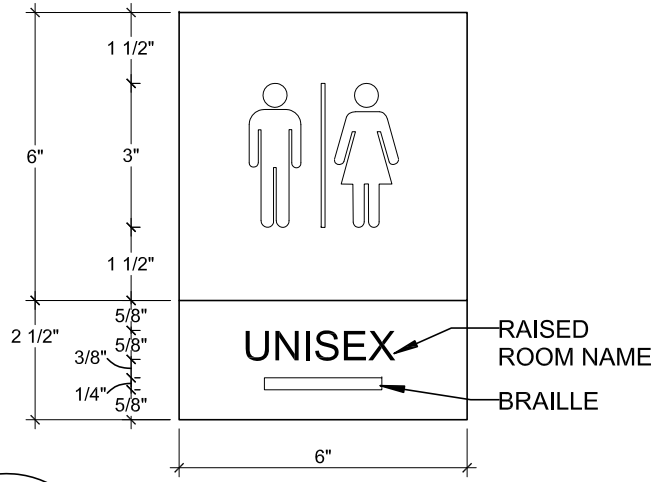

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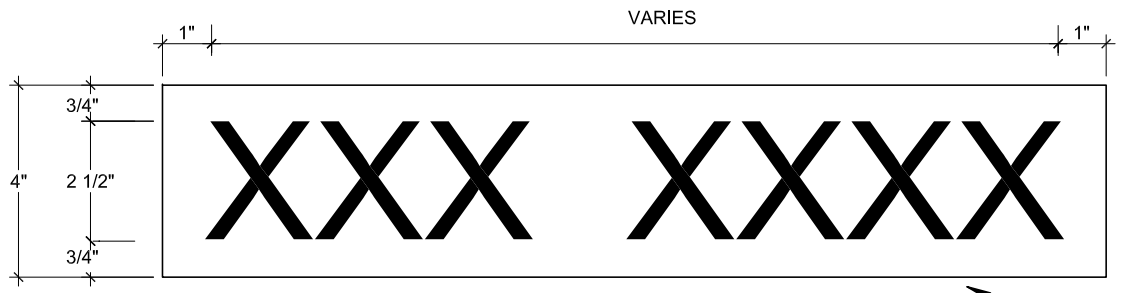
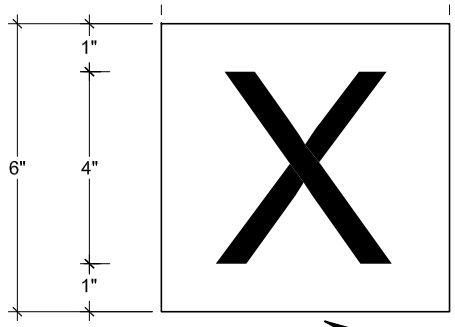


SEE SIGN SCHEDULE
FOR REQUIRED TEXT

4.0

SINGLE LINE TEXT, SOLID PLAQUE (NON-ADA)



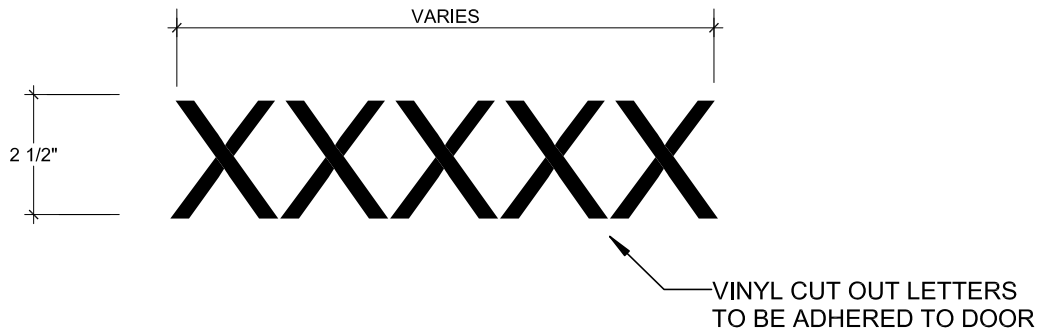
SEE SIGN SCHEDULE
FOR REQUIRED TEXT

4.1

SINGLE LINE TEXT, SOLID PLAQUE (NON-ADA)

4.2 NOT USED

4.3



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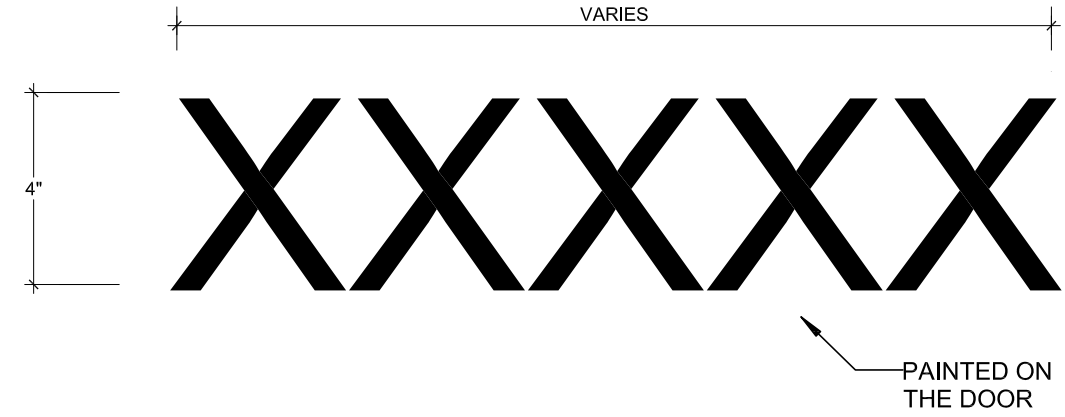
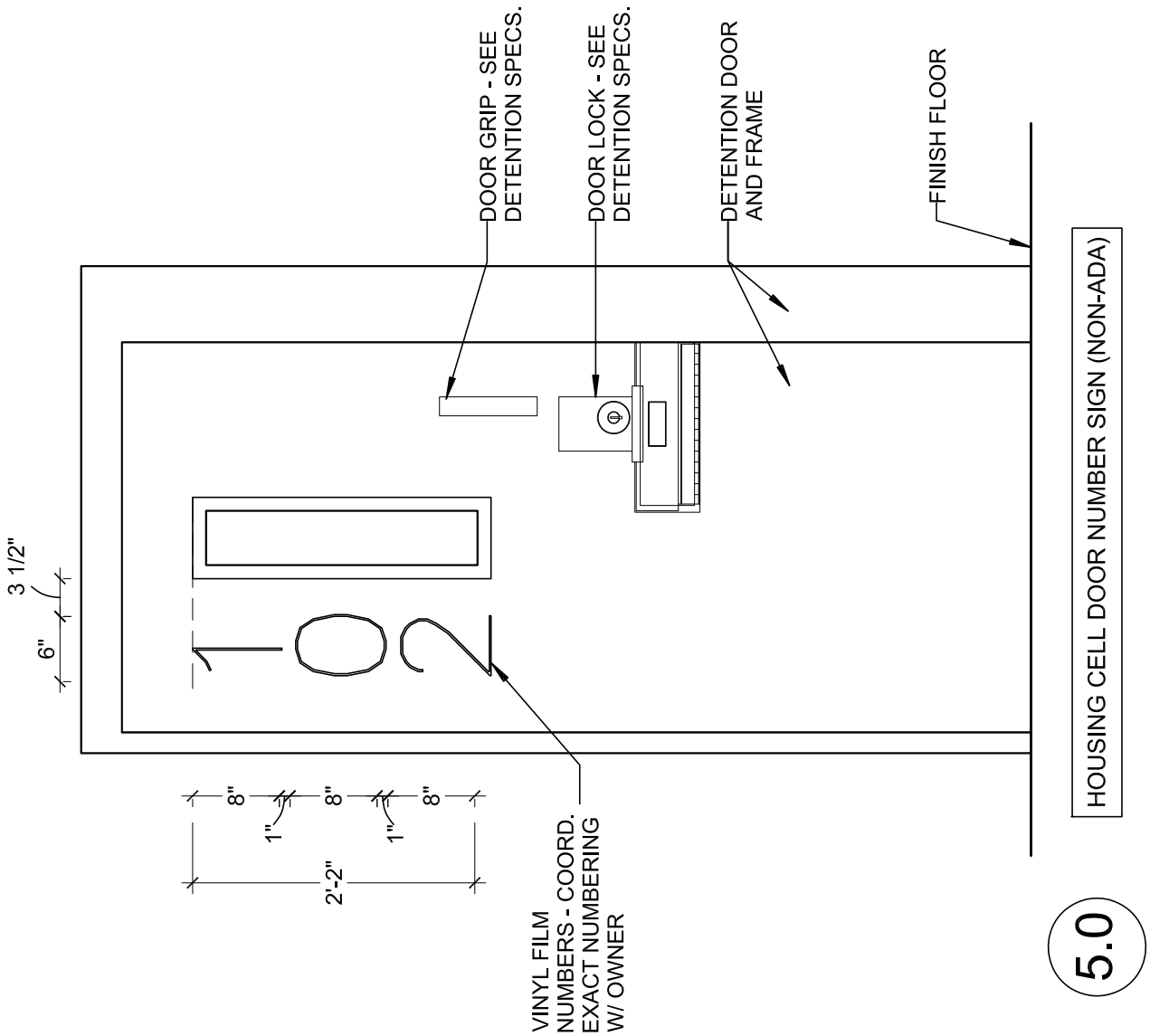
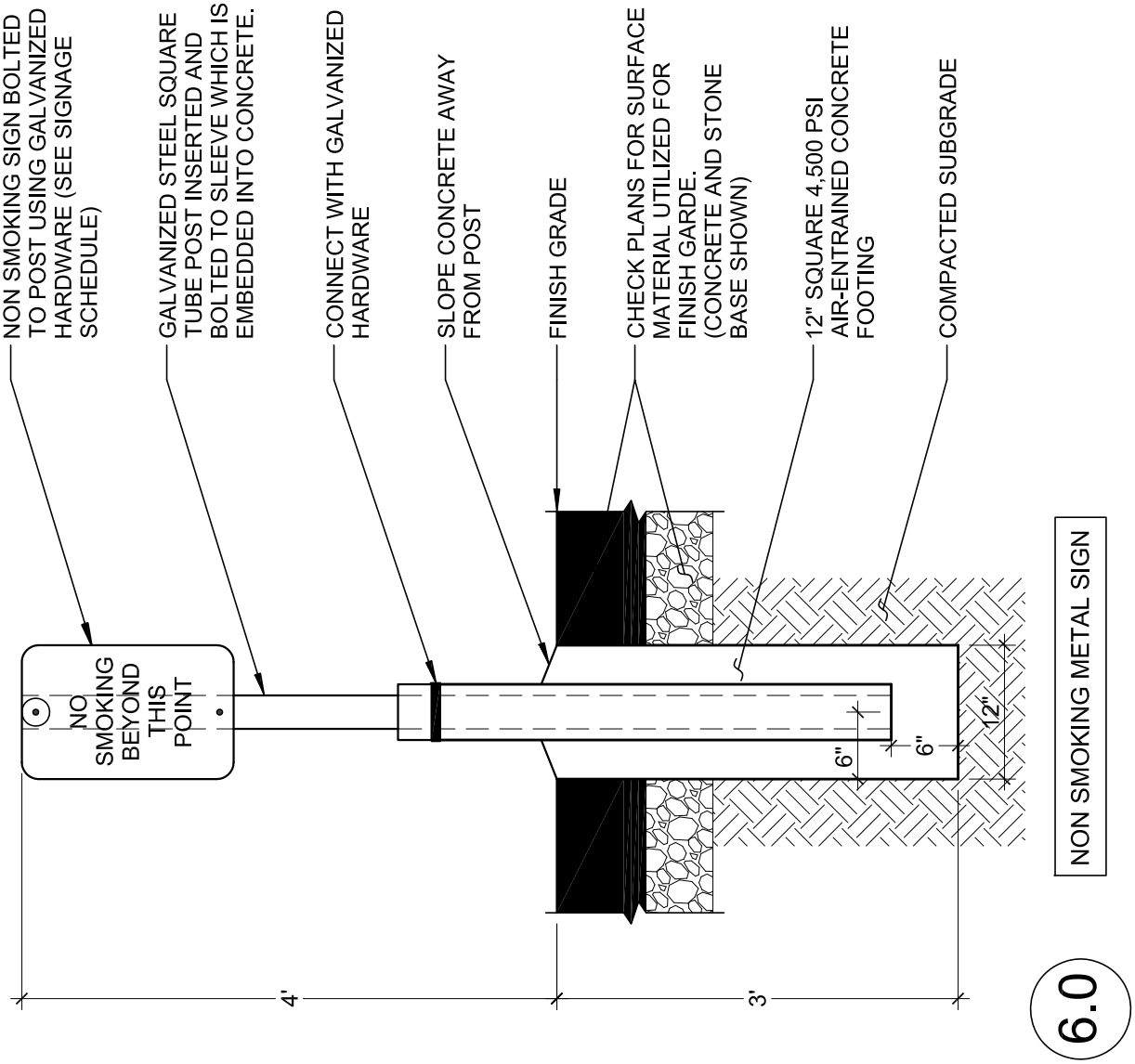



DOOR GRIP - SEE DETENTION SPECS.
DOOR LOCK - SEE DETENTION SPECS.
DETENTION DOOR AND FRAME
FINISH FLOOR
HOUSING CELL DOOR NUMBER SIGN (NON-ADA)
3 1/2"
6"
102
8"
1"
8"
1"
8"
2'-2"
VINYL FILM NUMBERS - COORD. EXACT NUMBERING W/ OWNER
5.0



NON SMOKING METAL SIGN

6.0

ADDENDUM # 4 02/26/2015

BUILDING SIGNAGE SCHEDULE

				DOOR TAG				SIGN				
						LOCATION						
LEVEL	ROOM NUMBER	ROOM NAME	ARCHITECTURAL DOOR NUMBER	TYPE	COLOR	PULL SIDE	PUSH SIDE	TYPE	COLOR	LOCATION	REMARKS	TEXT
BASEMENT	E002	ELECTRICAL ROOM	11.1.22	-	-				-			
BASEMENT	E003	MECHANICAL ROOM	11.1.20	-	-				-			
BASEMENT	E004	ELECTRICAL ROOM	11.1.18	-	-				-			
BASEMENT	E008	CLASSROOM	11.1.28	-	-				-			
BASEMENT	E008		11.1.29	-	-				-			
BASEMENT	E009	MECHANICAL ROOM	11.1.17	-	-				-			
BASEMENT	E009		11.1.39	-	-				-			
BASEMENT	E011	ELEVATOR	-	-	-				-			
BASEMENT	E012	STAIR 4	11.1.21	-	-			-	-	-		
BASEMENT	11.0.1	MAIN ELECTRIC ROOM	11.0.1A	1.0	-	X	-	3.0	-	WHL		ELECTRIC RM.
BASEMENT	11.0.1		11.0.1B	1.0	-	X	-	3.0	-	WHL		ELECTRIC RM.
BASEMENT	11.0.2	EMERGENCY ELECTRIC ROOM	11.0.2	1.0	-	X	-	3.0	-	WHL		EMERGENCY ELECTRIC RM.
BASEMENT	11.0.3	MDF ROOM	11.0.3	1.0	-	X	-	3.0	-	WSL		MDF
BASEMENT	11.0.4	WATER SPRINKLER ROOM	11.0.4	1.0	-	X	-	3.0	-	WHL		WATER SPRINKLER
BASEMENT	-		11.1.19	1.0	-	-	-	-	-	-		
FIRST FLOOR	0.1	ENTRY VEST.	0.1A	1.0	-	-	X	-	-	-		-
FIRST FLOOR	0.1		0.1B	1.0	-	-	X	-	-	-		-
FIRST FLOOR	0.2	SALLYPORT	0.2A	1.0	-	X	X		-			-
FIRST FLOOR	0.2		0.2B	1.0	-	X	X	4.2	-	DPL		NO VISITORS BEYOND THIS POINT
FIRST FLOOR	0.2		0.2C	1.0	-	X	X	-	-	-		-
FIRST FLOOR	0.3	STAFF SALLY	0.3A	1.0	-	X	X	3.0	-	DPL	2	MASTER CONTROL
FIRST FLOOR	0.3		0.3B	1.0	-	X	X	-	-	-		-
FIRST FLOOR	0.4	QUEUING AREA	-	-	-	-	-	4.2	-	CLG	1	SECURITY SCREENING
FIRST FLOOR	0.6	SECURITY SCREEN	0.6	1.0	-	X	X	-	-	-		-
FIRST FLOOR	-	LOBBY	-	-	-	-	-	-	-	-		-
FIRST FLOOR	0.8.1	W. TLT.	0.8.1	1.0	-	X	-	3.2	-	WSL		WOMEN
FIRST FLOOR	0.8.1	W. TLT.	0.8.1	-	-	-	-	4.0	-	DPH		VISITORS ONLY
FIRST FLOOR	0.8.2	M. TLT.	0.8.2	1.0	-	X	-	3.3	-	WSL		MEN
FIRST FLOOR	0.8.2	M. TLT.	0.8.2	-	-	-	-	4.0	-	DPH		VISITORS ONLY
FIRST FLOOR	1.0	CORRIDOR	1.0A	1.0	-	X	X	4.2	-	DPL		NO VISITORS BEYOND THIS POINT
FIRST FLOOR	1.0	CORRIDOR	1.0B	1.0	-	X	X	3.0	-	WSL		ADMINISTRATION SUPPORT
FIRST FLOOR	1.1	FACILITY ADMIN. OFFICE	1.1	1.0	-	-	X	3.1	-	DPH		"NAME & TITLE"
FIRST FLOOR	1.2	MGT. ASSOC. OFFICE	1.2	1.0	-	-	X	3.1	-	DPH		"NAME & TITLE"
FIRST FLOOR	1.3	CONF. RM.	1.3A	1.0	-	X	-	3.0	-	DPL		CONFERENCE RM.
FIRST FLOOR	1.3		1.3B	1.0	-	-	X		-	-		-
FIRST FLOOR	1.4	ADMIN. SUPPORT	-	-	-	-	-	-	-	-		-
FIRST FLOOR	1.5	SUPPLY CLOS.	1.5	-	-	-	X	3.0	-	WSH		STORAGE CLOSET
FIRST FLOOR	1.6	JAN.	1.6	1.0	-	-	X	3.0	-	WSH		JANITOR CLOSET
FIRST FLOOR	1.7	STAFF TLT.	1.7	1.0	-	-	X	3.4	-	WSH		STAFF
FIRST FLOOR	2.9.1	LT. OFFICE	2.9.1	1.0	-	-	X	3.0	-	WSH	3	LIEUTENANT
FIRST FLOOR	2.10.1	COUNSELOR OFFICE	2.10.1	1.0	-	X	-	3.1	-	WSL		"NAME & TITLE"
FIRST FLOOR	2.11.1	CASE MGR. OFFICE	2.11.1	1.0	-	X	-	3.1	-	WSL		"NAME & TITLE"
FIRST FLOOR	3.0.1	CORR.	3.0.1	1.0	-	X	X		-			
FIRST FLOOR	3.1.1	HOLD	3.1.1	1.0	-	X	-	3.0	-	WSL		HOLD 1
FIRST FLOOR	3.1.2	HOLD	3.1.2	1.0	-	X	-	3.0	-	WSL		HOLD 2
FIRST FLOOR	3.2	Y. TLT.	3.2	1.0	-	X	-	3.4	-	WSL		YOUTH
FIRST FLOOR	3.3	ADMISS. / REL. OFF.	3.3	1.0	-	-	X	3.0	-	WSH	3	ADDMISSION/RELEASE
FIRST FLOOR	3.6	SECURE VEST.	3.6A	1.0	-	X	X	-	-	-		-
FIRST FLOOR	3.6		3.6B	1.0	-	X	X	-	-	-		-
FIRST FLOOR	3.7	VEHICLE SALLY	3.7B	1.0	-	X	X	-	-	-	-	-
FIRST FLOOR	4.0.1	CORR.	4.0.1	1.0	-	X	X	-	-	-		-
FIRST FLOOR	4.0.2	CORR.	4.0.2A	1.0	-	X	-	-	-	-		-
FIRST FLOOR	4.0.2		4.0.2B	1.0	-	X	-	-	-	-		-
FIRST FLOOR	4.0.3	CORR.	4.0.3	1.0	-	X	X	3.0	-	WSH		HEALTH SERVICES
FIRST FLOOR	4.0.4	CORR.	4.0.4	1.0	-	X	X	-	-	-		
FIRST FLOOR	4.1	YOUTH WAITING	4.1	1.0	-	X	-	3.0	-	WSL		WAITING ROOM
FIRST FLOOR	4.2	NURSE EXAM RM.	4.2	1.0	-	X	-	3.0	-	WSL		EXAM 2
FIRST FLOOR	4.3	CLINICIAN EXAM RM.	4.3	1.0	-	X	-	3.0	-	WSL		EXAM 1
FIRST FLOOR	4.4.1	YOUTH TLT.	4.4.1	1.0	-	-	X	3.4	-	WSH		YOUTH
FIRST FLOOR	4.4.2	YOUTH TLT.	4.4.2	1.0	-	-	X	3.4	-	WSH		YOUTH
FIRST FLOOR	4.5	NURSE STATION	4.5A	1.0	-	X	-	-	-	-		-
FIRST FLOOR	4.5		4.5B	1.0	-	-	X	-	-	-		-
FIRST FLOOR	4.7	ADMIN. SUPPORT RM.	4.7A	1.0	-	-	X	3.0	-	WSH		HEALTH SERVICES ADMINISTRATION
FIRST FLOOR	4.7		4.7B	1.0	-	X	-	3.0	-	WSL		HEALTH SERVICES ADMINISTRATION
FIRST FLOOR	4.8	SUPPLY STOR.	4.8	1.0	-	X	-	3.0	-	WSL		STORAGE CLOSET
FIRST FLOOR	4.9	MEDICAL FILE WORKROOM	4.9	1.0	-	-	X	3.0	-	WSH		FILE ROOM
FIRST FLOOR	4.10.1	MED. SUPPLY RM.	4.10.1	1.0	-	-	X	3.0	-	WSH		MEDICAL SUPPLY 2
FIRST FLOOR	4.10.2	MED.SUPPLY RM.	4.10.2	1.0	-	X	-	3.0	-	WSL		MEDICAL SUPPLY 1
FIRST FLOOR	4.11	SECURE MED. RM.	4.11	1.0	-	X	-	3.0	-	WSL		SECURE MEDICATION
FIRST FLOOR	4.12	DENTAL EXAM	4.12	1.0	-	X	-	3.0	-	WHL	3	DENTAL
FIRST FLOOR	-	DENTAL DIGITAL IMAGING	-	1.0	-	-	-	-	-	-		-
FIRST FLOOR	4.14	COMP. RM.	4.14	1.0	-	X	-	-	-	-		-

BUILDING SIGNAGE SCHEDULE

				DOOR TAG LOCATION				SIGN				
LEVEL	ROOM NUMBER	ROOM NAME	ARCHITECTURAL DOOR NUMBER	TYPE	COLOR	PULL SIDE	PUSH SIDE	TYPE	COLOR	LOCATION	REMARKS	TEXT
FIRST FLOOR	4.15.1	STAFF TLT.	4.15.1	1.0	-	-	X	3.4	-	WSH		STAFF
FIRST FLOOR	4.15.2	STAFF TLT.	4.15.2	1.0	-	-	X	3.4	-	WSH		STAFF
FIRST FLOOR	4.16	PHYS. / PSYCH. OFFICE	4.16	1.0	-	-	X	3.0	-	WSH		OFFICE
FIRST FLOOR	4.17	JAN.	4.17	1.0	-	X	-	3.0	-	WSL		JANITOR CLOSET
FIRST FLOOR	4.18	EDUCATION SERVICES RM.	4.18	1.0	-	X	-	3.0	-	WSL		EDUCATION SERVICES
FIRST FLOOR	4.20.1	ISOLATION RM. (ADA)	4.20.1	1.0	-	X	-	-	-	-		-
FIRST FLOOR	4.20.2	ISOLATION RM.	4.20.2	1.0	-	X	-	-	-	-		-
FIRST FLOOR	4.21.1	ANTE	4.21.1	1.0	-	X	-	3.0	-	WSL	3	ISOLATION ROOM 1
FIRST FLOOR	4.21.2	ANTE	4.21.2	1.0	-	X	-	3.0	-	WSL	3	ISOLATION ROOM 2
FIRST FLOOR	4.22.1	INFIRM. RM. (ADA)	4.22.1	1.0	-	X	-	3.0	-	WSL		INFIRM RM 1
FIRST FLOOR	4.22.2	INFIRM. RM.	4.22.2	1.0	-	X	-	3.0	-	WSL		INFIRM RM 2
FIRST FLOOR	4.22.3	INFIRM. RM. (ADA)	4.22.3	1.0	-	X	-	3.0	-	WSL		INFIRM RM 3
FIRST FLOOR	4.23.1	SAFE CELL	4.23.1	1.0	-	X	-	5.0	-	DPL		SAFE CELL 1
FIRST FLOOR	4.23.2	SAFE CELL	4.23.2	1.0	-	X	-	5.0	-	DPL		SAFE CELL 2
FIRST FLOOR	4.23.3	SAFE CELL	4.23.3	1.0	-	X	-	5.0	-	DPL		SAFE CELL 3
FIRST FLOOR	4.23.4	SAFE CELL (ADA)	4.23.4	1.0	-	X	-	5.0	-	DPL		SAFE CELL 4
FIRST FLOOR	4.24	C.U.	4.24	1.0	-	X	-	3.0	-	WSL		CLEAN UTILITIES
FIRST FLOOR	4.25	S.U.	4.25	1.0	-	X	-	3.0	-	WSL		SOILED UTILITIES
FIRST FLOOR	4.26.1	SAFE SHOWER	4.26.1	1.0	-	X	-	3.0	-	WSL		SHOWER 1
FIRST FLOOR	4.26.2	SAFE SHOWER	4.26.2	1.0	-	X	-	3.0	-	WSL		SHOWER 2
FIRST FLOOR	5.1	PYSCH. OFFICE	5.1	1.0	-	X	-	3.1	-	WSL	3	"NAME & TITLE"
FIRST FLOOR	5.2	CLINICIAN OFFICE	5.2	1.0	-	X	-	3.1	-	WSL	3	"NAME & TITLE"
FIRST FLOOR	5.3	GROUP ASSESS. / INTERVENTION	5.3	1.0	-	X	-	3.0	-	WSL	3	GROUP ASSESSMENT
FIRST FLOOR	5.4	B.H. STOR.	5.4	1.0	-	-	X	3.0	-	WSH		STORAGE CLOSET
FIRST FLOOR	6	BEV. COOLER	----		-				-			
FIRST FLOOR	6.1	SERVING COUNTER	-		-	-	-	-	-			
FIRST FLOOR	6.2	HOT & COLD PREP	6.2A	1.0	-	X	X	-				
FIRST FLOOR	6.2							4.4	-	DPL		FOOD SERVICES RECEIVING
FIRST FLOOR	6.2		6.2B	1.0	-	X	X	-				
FIRST FLOOR	6.2							4.4	-	DPL		FOOD SERVICES
FIRST FLOOR	6.2		6.2C	1.0	-	X	X	3	-	WSH		FOOD SERVICES
FIRST FLOOR	6.3	AMBIENT STOR.	6.3	1.0	-	-	X	3.0	-	WSH		AMBIENT STORAGE
FIRST FLOOR	6.4	COOLER	----		-				-			
FIRST FLOOR	6.5	JAN.	6.5	1.0	-	-	X	3.0	-	WSH		JANITOR CLOSET
FIRST FLOOR	6.6	YOUTH DINING RM.	6.6A	1.0	-	X	X	-	-			
FIRST FLOOR	6.6		6.6B	1.0	-	X	X	3.0	-	WSH		DINNING ROOM
FIRST FLOOR	6.7	CLEAN CART	6.7	1.0	-	X	-	4.4	-	DPL		CLEAN CART
FIRST FLOOR	6.8	NON-FOOD STOR	6.8	1.0	-	-	X	3.0	-	WSH		NON-FOOD STORAGE
FIRST FLOOR	6.9	CAN WASH	6.9	1.0	-	X	-	4.4	-	DPL		CAN WASH
FIRST FLOOR	6.10	STAFF TLT.	6.10	1.0	-	X	-	3.4	-	WSL		STAFF
FIRST FLOOR	6.11	SANITIZ.	6.11	1.0	-	X	X	3.0	-	WSH		SANITIZE
FIRST FLOOR	6.12	F.S. OFF.	6.12	1.0	-	X	-	3.0	-	WSL		OFFICE
FIRST FLOOR	6.13	JAN.	6.13	1.0	-	-	X	3.0	-	WSL		JANITOR CLOSET
FIRST FLOOR	6.14	SOILED CART	6.14	1.0	-	X	-	4.4	-	DPL		SOILED CART
FIRST FLOOR	7.1	MASTER CONTROL	-	-	-	-	-	-	-	-		-
FIRST FLOOR	7.10	STAFF LOCKER	7.10	1.0	-	X	X	3.0	-	WSH		STAFF LOCKERS
FIRST FLOOR	7.2	STAFF MUSTER	7.2	1.0	-	X	X	3.0	-	WSH		ROLL CALL
FIRST FLOOR	7.4.1	SECURITY ELEC.	7.4.1	1.0	-	X	-	3.0	-	WSH		SECURITY ELECTRIC RM.
FIRST FLOOR	7.5	CAPT. OFFICE	7.5	1.0	-	-	X	3.1	-	WSH	3	"NAME & TITLE"
FIRST FLOOR	7.6	STAFF BREAK AREA	-	-	-	-	-	-	-	-		-
FIRST FLOOR	7.7	STAFF SALLY		-	-				-			
FIRST FLOOR	7.8	STAFF TLT.	7.8	1.0	-	X	-	3.4	-	WSL		STAFF
FIRST FLOOR	7.9	STAFF TLT.	7.9	1.0	-	-	X	3.4	-	WSH		STAFF TOILET/SHOWER
FIRST FLOOR	8.1.1	INTER.	8.1.1	1.0	-	-	X	3.0	-	WSL		C
FIRST FLOOR	8.1.2	N.C. INTER.	8.1.2	1.0	-	X	-	3.0	-	WSL		B
FIRST FLOOR	8.1.3	N.C. INTER.	8.1.3	1.0	-	X	-	3.0	-	WSL		B
FIRST FLOOR	8.1.4	N.C. INTER.	8.1.4	1.0	-	X	-	3.0	-	WSL		A
FIRST FLOOR	8.1.5	N.C. INTER.	8.1.5	1.0	-	X	-	3.0	-	WSL		A
FIRST FLOOR	8.2	VISITATION	-	-	-				-			
FIRST FLOOR	8.4.1	SEARCH	8.4.1	1.0	-	X	-	3.0	-	WSL		SEARCH 1
FIRST FLOOR	8.4.2	SEARCH	8.4.2	1.0	-	X	-	3.0	-	WSL		SEARCH 2
FIRST FLOOR	8.6	YOUTH TLT.	8.6	1.0	-	X	-	3.4	-	WSL		YOUTH
FIRST FLOOR	8.7	CORR.	8.7A	1.0	-	X	X	4.2	-	DPL		NO VISITORS BEYOND THIS POINT
FIRST FLOOR	8.7		8.7B	1.0	-	X	X	-	-	-		-
FIRST FLOOR	10.8F	FEMALE OUTDOOR REC.	10.8F	1.0	-	X	-	-	-	-		-
FIRST FLOOR	11.1.1	STAIR A	11.1.1A	1.0	-	X	X	2.0	-	WSH		EMERGENCY EXIT STAIR
FIRST FLOOR	11.1.1		11.1.1A	-	-	-	-	2.1	-	WSL	1	STAIR A/ FLOOR 1
FIRST FLOOR	11.1.1		11.1.1B	1.0	-	X	X	4.0	-	DPH		EXIT TO GRADE
FIRST FLOOR	-	CORR.	-	-	-	-	-	-	-	-		-
FIRST FLOOR	11.1.4	JAN.	11.1.4	1.0	-	X	-	3.0	-	WSL		JANITOR CLOSET
FIRST FLOOR	11.1.5	STAIR B CORR.	11.1.5A	1.0	-	X	X	4.0	-	DPH		EXIT TO GRADE
FIRST FLOOR	11.1.5		11.1.5B	1.0	-	X	X	4.0	-	DPH		EXIT TO GRADE

BUILDING SIGNAGE SCHEDULE

				DOOR TAG				SIGN				
						LOCATION						
LEVEL	ROOM NUMBER	ROOM NAME	ARCHITECTURAL DOOR NUMBER	TYPE	COLOR	PULL SIDE	PUSH SIDE	TYPE	COLOR	LOCATION	REMARKS	TEXT
FIRST FLOOR	11.1.6	MECH. RM.	11.1.6	1.0	-	X	-	3.0	-	WSL		MECHANICAL RM.
FIRST FLOOR	-	ELEVATOR	-	-	-				-			
FIRST FLOOR	11.1.8	MECH. RM.	11.1.8	1.0	-	X	X	4.4	-	DPL		MECHANICAL RM.
FIRST FLOOR	11.1.9	ELEC. RM.	11.1.9	1.0	-	X	X	4.4	-	DPL		ELECTRIC RM.
FIRST FLOOR	11.1.10	STAIR B	11.1.10A	1.0	-	X	X	2.0	-	WHH	3,4	EMERGENCY EXIT STAIR
FIRST FLOOR	11.1.10		11.1.10B	1.0	-	X	X	2.0	-	WHH	3,4	EMERGENCY EXIT STAIR
FIRST FLOOR	11.1.10		-	-		-	-	2.1	-	-	1,5	STAIR B/ FLOOR 1
FIRST FLOOR	11.1.14	CORR.	11.1.14	1.0	-	X	X	4.0	-	ADH	2	EXIT TO OSTC
FIRST FLOOR	11.1.15	MECH.	11.1.15	1.0	-	X	-	3.0	-	WSL		MECHANICAL RM.
FIRST FLOOR		SECURE DOCK (COVERED)		-	-				-			
FIRST FLOOR		OPEN DOCK (COVERED)		-	-				-			
FIRST FLOOR		SECURE DOCK (COVERED)		-	-				-			
FIRST FLOOR	11.5	SUPPLY STOR.	11.5A	1.0	-	X	X	3.0	-	WSH		SUPPLY STORAGE
FIRST FLOOR	11.5		11.5B	1.0	-	X	X	4.2	-	ADL		RECEIVING
FIRST FLOOR	2F.0.1	SALLY	2F.0.1A	1.0	-	X	X	4.1	-	ADL	2	F
FIRST FLOOR	2F.0.1		2F.0.1B	1.0	-	X	X	-	-	-		-
FIRST FLOOR	2F1.1	BEDROOM	2F1.1	1.0	-	X	-	5.0	-	DPL		2
FIRST FLOOR	2F.1.2	BEDROOM	2F.1.2	1.0	-	X	-	5.0	-	DPL		3
FIRST FLOOR	2F.1.3	BEDROOM	2F.1.3	1.0	-	X	-	5.0	-	DPL		4
FIRST FLOOR	2F.1.4	BEDROOM	2F.1.4	1.0	-	X	-	5.0	-	DPL		5
FIRST FLOOR	2F.1.5	BEDROOM	2F.1.5	1.0	-	X	-	5.0	-	DPL		6
FIRST FLOOR	2F.1.6	BEDROOM	2F.1.6	1.0	-	X	-	5.0	-	DPL		7
FIRST FLOOR	2F.1.7	BEDROOM	2F.1.7	1.0	-	X	-	5.0	-	DPL		8
FIRST FLOOR	2F.1.8	BEDROOM	2F.1.8	1.0	-	X	-	5.0	-	DPL		9
FIRST FLOOR	2F.1.9	BEDROOM	2F.1.9	1.0	-	X	-	5.0	-	DPL		10
FIRST FLOOR	2F.2	ADA BEDROOM	2F.2	1.0	-	X	-	5.0	-	DPL		1
FIRST FLOOR	2F.0.3	CORR.	2F.0.3	1.0	-	X	X	4.1	-	ADL	2	F
FIRST FLOOR	2F.3A	FEMALE DAYROOM	2F.3A	1.0	-	X	-	-	-	-		-
FIRST FLOOR	2F.3B		2F.3B	1.0	-	X	-	-	-	-		-
FIRST FLOOR	2F.3C		2F.3C	1.0	-	X	-	-	-	-		-
FIRST FLOOR	2F.3D		2F.3D	1.0	-	X	-	-	-	-		-
FIRST FLOOR	2F.3E		2F.3E	1.0	-	X	-	-	-	-		-
FIRST FLOOR	2F.4	GROUP ACTIVITY	2F.4	1.0	-	X	-	3.0	-	WSL	3	GROUP ACTIVITY
FIRST FLOOR	2F.5	READING / WRITING	2F.5	1.0	-	X	-	3.0	-	WSL	3	READING/WRITING
FIRST FLOOR	2F.6	SHOWER	-	-	-			5.1	-	DPL	1	A
FIRST FLOOR	2F.6		-	-	-			5.1		DPL	1	B
FIRST FLOOR	2F.6		-	-	-			5.1		DPL	1	C
FIRST FLOOR	2F.7	STOR.	2F.7	1.0	-	X	-	3.0	-	WSL		STORAGE CLOSET
FIRST FLOOR	-	STAFF STATION	-	-	-	-	-	-	-	-		-
FIRST FLOOR	2F.12	JAN.	2F.12	1.0	-	X	-	3.0	-	WSL		JANITOR CLOSET
FIRST FLOOR	2F.13	STAFF TLT.	2F.13	1.0	-	-	X	3.4	-	WSH		STAFF
FIRST FLOOR	2F.14	YOUTH LAUNDRY	2F.14	1.0	-	X	-	5.1	-	DPL		LAUNDRY
FIRST FLOOR	2F.15	C.U.	2F.15	1.0	-	X	-	3.0	-	WSL		CLEAN UTILITIES
FIRST FLOOR	N/A	EXISTING STAIR TO BASEMENT @ COLUMN GRID 'H.E' AND '6.E'	-	-				4.4	-	DPL		MAIN ELECTRICAL ROOM
SECOND FLOOR	2.6	STAFF TLT.	2.6	1.0	-	-	X	3.4	-	WSH		STAFF
SECOND FLOOR	2.7	STOR / C.U.	2.7	1.0	-	-	X	3.0	-	WSH		STORAGE/CLEAN UTILITIES
SECOND FLOOR	2.8	LOCAL CONTROL	-	-	-	-	-	-	-	-		-
SECOND FLOOR	2.9.2	LT. OFFICE	2.9.2	1.0	-	-	X	3.0	-	WSH	3	LIEUTENANT
SECOND FLOOR	2.10.2	COUNSELOR OFFICE	2.10.2	1.0	-	-	X	3.0	-	WSH	3	COUNSELOR
SECOND FLOOR	2.11.2	CASE MGR OFFICE	2.11.2	1.0	-	-	X	3.0	-	WSH	3	CASE MANAGER
SECOND FLOOR	7.4.2	SEC. ELEC.	7.4.2	1.0	-	-	X	3.0	-	WSH		SECURITY ELECTRIC RM.
SECOND FLOOR	9.1.1	CLASSROOM 1	9.1.1	1.0	-	-	X	3.0	-	WSL	3	CLASSROOM 1
SECOND FLOOR	9.1.2	CLASSROOM 2	9.1.2	1.0	-	-	X	3.0	-	WSL	3	CLASSROOM 2
SECOND FLOOR	9.1.3	CLASSROOM 3	9.1.3	1.0	-	-	X	3.0	-	WSL	3	CLASSROOM 3
SECOND FLOOR	9.1.4	SCIENCE LAB	9.1.4	1.0	-	-	X	3.0	-	WSL	3	SCIENCE LAB
SECOND FLOOR	9.1.5	ART ROOM	9.1.5	1.0	-	-	X	3.0	-	WSL	3	ART ROOM
SECOND FLOOR	9.2.1	CLASSROOM 4	9.2.1	1.0	-	-	X	3.0	-	WSL	3	CLASSROOM 4
SECOND FLOOR	9.2.2	CLASSROOM 5	9.2.2	1.0	-	-	X	3.0	-	WSL	3	CLASSROOM 5
SECOND FLOOR	9.2.3	CLASSROOM 6	9.2.3	1.0	-	-	X	3.0	-	WSL	3	CLASSROOM 6
SECOND FLOOR	9.3.1	COMPUTER LAB	9.3.1	1.0	-	-	X	3.0	-	WSL	3	COMPUTER LAB
SECOND FLOOR	9.3.2	STOR.	9.3.2	1.0	-	X	-	-	-	-		-
SECOND FLOOR	9.4.1	MEDIA CENTER	9.4.1A	1.0	-	X	X		-	WHL	3	MEDIA CENTER
SECOND FLOOR	9.4.1		9.4.1B	1.0	-	X	X	3.0	-	WSL	3	MEDIA CENTER
SECOND FLOOR	9.4.2	STOR.	9.4.2	1.0	-	X	-	-	-	-		-
SECOND FLOOR	9.4.3	STOR.	9.4.3	1.0	-	X	-	-	-	-		-
SECOND FLOOR	9.5	SPEC ED TEST OFF	9.5	1.0	-	X	-	3.0	-	WSL	3	TESTING
SECOND FLOOR	9.6	ASSESSMENT OFFICE	9.6	1.0	-	X	-	3.0	-	WSL	3	ASSESSMENTS
SECOND FLOOR	9.7.1	YOUTH TLT.	9.7.1	1.0	-	X	-	3.4	-	WSL		YOUTH
SECOND FLOOR	9.7.2	YOUTH TLT.	9.7.2	1.0	-	X	-	3.4	-	WSL		YOUTH
SECOND FLOOR	9.8	TEACHER WORKROOM	9.8A	1.0	-	X	X	3.0	-	WSL	3	TEACHER WORKROOM
SECOND FLOOR	9.8		9.8B	1.0	-	X	X	3.0	-	WSL	3	TEACHER WORKROOM

BUILDING SIGNAGE SCHEDULE

				DOOR TAG				SIGN				
						LOCATION						
LEVEL	ROOM NUMBER	ROOM NAME	ARCHITECTURAL DOOR NUMBER	TYPE	COLOR	PULL SIDE	PUSH SIDE	TYPE	COLOR	LOCATION	REMARKS	TEXT
SECOND FLOOR	9.9	STAFF TLT.	9.9	1.0	-	-	X	3.4	-	WSH		STAFF
SECOND FLOOR	9.10	GEN. STOR.	9.10	1.0	-	X	-	3.0	-	WSL		STORAGE CLOSET
SECOND FLOOR	9.11	PRINCIPAL	9.11A	1.0	-	-	X	3.1	-	WSH	3	"NAME & TITLE"
SECOND FLOOR	9.11		9.11B	1.0	-	X	-	3.0	-	WSL		PRINCIPAL
SECOND FLOOR	9.12	SPEC ED IEP MTG	9.12	1.0	-	X	-	3.0	-	WSL	3	MEETING
SECOND FLOOR	9.13	GUIDANCE CNSLR	9.13	1.0	-	X	-	3.0	-	WSL	3	GUIDANCE
SECOND FLOOR	9.14	ADMIN. SUPPORT	9.14A	1.0	-	-	X	3.0	-	WSH	3	ADMIN SUPPORT
SECOND FLOOR	9.14		9.14B	1.0	-	-	X	3.0	-	WSH	3	ADMIN SUPPORT
SECOND FLOOR	9.15	JAN.	9.15	1.0	-	X	-	3.0	-	WSL		JANITOR CLOSET
SECOND FLOOR	9.16	TITLE 1	9.16	1.0	-	X	-	3.0	-	WSL	3	TITLE 1
SECOND FLOOR	9.17	SOC WRKR	9.17	1.0	-	X	-	3.0	-	WSL	3	SOCIAL WORKER
SECOND FLOOR	9.18	BUS MGR / SCHED	9.18	1.0	-	X	-	3.1	-	WSL	3	"NAME & TITLE"
SECOND FLOOR	10.8A	OUTDOOR REC	10.8AA	1.0	-	X	-	-	-	-		-
SECOND FLOOR	10.8A		10.8AB	1.0	-	X	-	-	-	-		-
SECOND FLOOR	10.8B	OUTDOOR REC	10.8BA	1.0	-	X	-	-	-	-		-
SECOND FLOOR	10.8B		10.8BB	1.0	-	X	-	-	-	-		-
SECOND FLOOR	10.8C	OUTDOOR REC	10.8CA	1.0	-	X	-	-	-	-		-
SECOND FLOOR	10.8C		10.8CB	1.0	-	X	-	-	-	-		-
SECOND FLOOR	10.8D	OUTDOOR REC	10.8DA	1.0	-	X	-	-	-	-		-
SECOND FLOOR	10.8D		10.8DB	1.0	-	X	-	-	-	-		-
SECOND FLOOR	11.2.1	STAIR A	11.2.1	1.0	-	X	X	2.0	-	WSH		EMERGENCY EXIT STAIR
SECOND FLOOR	11.2.1		11.2.1	-	-	-	-	2.2		WSL	1	STAIR A/FLOOR 2
SECOND FLOOR	11.2.5	CORR.	11.2.5A	1.0	-	X	X	2.0	-	WHH	3,4	EMERGENCY EXIT STAIR
SECOND FLOOR	11.2.5		11.2.5B	1.0	-	X	X	2.0	-	WHH	3,4	EMERGENCY EXIT STAIR
SECOND FLOOR	11.2.5		-	-	-	-	-	2.2	-	-	1	STAIR B/FLOOR 2
SECOND FLOOR	11.2.7	ELEVATOR	-	-	-				-			
SECOND FLOOR	11.2.10	STAIR B	-	-	-	-	-	-	-	-		-
SECOND FLOOR	11.2.15	CORR.	11.2.15	1.0	-	X	X	2.0	-	WSL		EMERGENCY EXIT STAIR
SECOND FLOOR	11.2.16	SALLY	11.2.16	1.0	-	X	X	2.0	-	WSL		EMERGENCY EXIT STAIR
SECOND FLOOR	11.2.17	IT. CLOS.	11.2.17	1.0	-	X	-	3.0	-	WSL		IT CLOSET
SECOND FLOOR	11.2.18	ELEC.	11.2.18	1.0	-	X	-	3.0	-	WSL		ELECTRIC RM.
SECOND FLOOR	11.2.19	ELEC.	11.2.19	1.0	-	-	X	3.0	-	WSH		ELECTRIC RM.
SECOND FLOOR	11.2.20	JAN.	11.2.20	1.0	-	X	-	3.0	-	WSL		JANITOR CLOSET
SECOND FLOOR	2A.1.1	BEDROOM	2A.1.1	1.0	-	X	-	5.0	-	DPL	2	1
SECOND FLOOR	2A.1.2	BEDROOM	2A.1.2	1.0	-	X	-	5.0	-	DPL	2	2
SECOND FLOOR	2A.1.3	BEDROOM	2A.1.3	1.0	-	X	-	5.0	-	DPL	2	3
SECOND FLOOR	2A.1.4	BEDROOM	2A.1.4	1.0	-	X	-	5.0	-	DPL	2	4
SECOND FLOOR	2A.1.5	BEDROOM	2A.1.5	1.0	-	X	-	5.0	-	DPL	2	5
SECOND FLOOR	2A.2	ADA BEDROOM	2A.2	1.0	-	X	-	5.0	-	DPL	2	6
SECOND FLOOR	2A.3	DAYROOM	2A.3A	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2A.3		2A.3B	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2A.3		2A.3C	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2A.6	SHOWER	-	-	-	-	-	5.1	-	DPL	1	A
SECOND FLOOR	2A.6		-	-	-	-	-	5.1	-	DPL	1	B
SECOND FLOOR	2A.6		-	-	-	-	-	5.1	-	DPL	1	C
SECOND FLOOR	2A.12	JAN.	2A.12	1.0	-	X	-	3.0	-	WSL		JANITOR CLOSET
SECOND FLOOR	2A.13	STAFF TLT.	2A.13	1.0	-	-	X	3.5	-	WSH		STAFF
SECOND FLOOR	2A.15	LAUNDRY	2A.15	1.0	-	X	-	5.1	-	DPL		LAUNDRY
SECOND FLOOR	2A.16	SALLY	2A.16A	1.0	-	X	X	4.1	-	ADL	2	A
SECOND FLOOR	2A.16		2A.16B	1.0	-	X	X	-	-	-		
SECOND FLOOR	2A.17	STAFF STATION	-	-	-	-	-	-	-	-		-
SECOND FLOOR	2B.1.1	BEDROOM	2B.1.1	1.0	-	X	-	5.0	-	DPL	2	1
SECOND FLOOR	2B.1.2	BEDROOM	2B.1.2	1.0	-	X	-	5.0	-	DPL	2	2
SECOND FLOOR	2B.1.3	BEDROOM	2B.1.3	1.0	-	X	-	5.0	-	DPL	2	3
SECOND FLOOR	2B.1.4	BEDROOM	2B.1.4	1.0	-	X	-	5.0	-	DPL	2	4
SECOND FLOOR	2B.1.5	BEDROOM	2B.1.5	1.0	-	X	-	5.0	-	DPL	2	4
SECOND FLOOR	2B.1.6	BEDROOM	2B.1.6	1.0	-	X	-	5.0	-	DPL	2	6
SECOND FLOOR	2B.2	ADA BEDROOM	2B.2	1.0	-	X	-	5.0	-	DPL	2	7
SECOND FLOOR	2B.3	DAYROOM	2B.3A	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2B.3		2B.3B	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2B.3		2B.3C	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2B.3		2B.3D	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2B.6	SHOWER	-	-	-	-	-	5.1	-	DPL	1	A
SECOND FLOOR	2B.6		-	-	-	-	-	5.1	-	DPL	1	B
SECOND FLOOR	2B.6		-	-	-	-	-	5.1	-	DPL	1	C
SECOND FLOOR	2B.12	JAN.	2B.12	1.0	-	X	-	3.0	-	WSL		JANITOR CLOSET
SECOND FLOOR	2B.13	STAFF TLT.	2B.13	1.0	-	-	X	3.5	-	WSH		STAFF
SECOND FLOOR	2B.15	LAUNDRY	2B.15	1.0	-	X	-	5.1	-	DPL		LAUNDRY
SECOND FLOOR	2B.16	SALLY	2B.16A	1.0	-	X	X	4.1	-	ADL	2	B
SECOND FLOOR	2B.16		2B.16B	1.0	-	X	X	-	-	-		-
SECOND FLOOR	2B.17	STAFF STATION	-	-	-	-	-	-	-	-		-
SECOND FLOOR	2C.1.1	BEDROOM	2C.1.1	1.0	-	X	-	5.0	-	DPL	2	1

BUILDING SIGNAGE SCHEDULE

				DOOR TAG				SIGN				
						LOCATION						
LEVEL	ROOM NUMBER	ROOM NAME	ARCHITECTURAL DOOR NUMBER	TYPE	COLOR	PULL SIDE	PUSH SIDE	TYPE	COLOR	LOCATION	REMARKS	TEXT
SECOND FLOOR	2C.1.2	BEDROOM	2C.1.2	1.0	-	X	-	5.0	-	DPL	2	2
SECOND FLOOR	2C.1.3	BEDROOM	2C.1.3	1.0	-	X	-	5.0	-	DPL	2	3
SECOND FLOOR	2C.1.4	BEDROOM	2C.1.4	1.0	-	X	-	5.0	-	DPL	2	4
SECOND FLOOR	2C.1.5	BEDROOM	2C.1.5	1.0	-	X	-	5.0	-	DPL	2	5
SECOND FLOOR	2C.1.6	BEDROOM	2C.1.6	1.0	-	X	-	5.0	-	DPL	2	6
SECOND FLOOR	2C.2	ADA BEDROOM	2C.2	1.0	-	X	-	5.0	-	DPL	2	7
SECOND FLOOR	2C.3	DAYROOM	2C.3A	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2C.3		2C.3B	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2C.3		2C.3C	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2C.3		2C.3D	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2C.6	SHOWER	-	-	-	-	-	5.1	-	DPL	1	A
SECOND FLOOR	2C.6		-	-	-	-	-	5.1		DPL	1	B
SECOND FLOOR	2C.6		-	-	-	-	-	5.1		DPL	1	C
SECOND FLOOR	2C.12	JAN.	2C.12	1.0	-	X	-	3.0	-	WSL		JANITOR CLOSET
SECOND FLOOR	2C.13	STAFF TLT.	2C.13	1.0	-	-	X	3.5	-	WSH		STAFF
SECOND FLOOR	2C.15	LAUNDRY	2C.15	1.0	-	X	-	5.1	-	DPL		LAUNDRY
SECOND FLOOR	2C.16	SALLY	2C.16A	1.0	-	X	X	4.1	-	ADL	2	C
SECOND FLOOR	2C.16		2C.16B	1.0	-	X	X	-	-	-		-
SECOND FLOOR	2C.17	STAFF STATION	-	-	-	-	-	-	-	-		-
SECOND FLOOR	2D.1.1	BEDROOM	2D.1.1	1.0	-	X	-	5.0	-	DPL	2	1
SECOND FLOOR	2D.1.2	BEDROOM	2D.1.2	1.0	-	X	-	5.0	-	DPL	2	2
SECOND FLOOR	2D.1.3	BEDROOM	2D.1.3	1.0	-	X	-	5.0	-	DPL	2	3
SECOND FLOOR	2D.1.4	BEDROOM	2D.1.4	1.0	-	X	-	5.0	-	DPL	2	4
SECOND FLOOR	2D.1.5	BEDROOM	2D.1.5	1.0	-	X	-	5.0	-	DPL	2	5
SECOND FLOOR	2D.2	ADA BEDROOM	2.D2	1.0	-	X	-	5.0	-	DPL	2	6
SECOND FLOOR	2D.3	DAYROOM	2D.3A	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2D.3		2D.3B	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2D.3		2D.3C	1.0	-	X	-	-	-	-		-
SECOND FLOOR	2D.6	SHOWER	-	-	-	-	-	5.1	-	DPL	1	A
SECOND FLOOR	2D.6		-	-	-	-	-	5.1		DPL	1	B
SECOND FLOOR	2D.6		-	-	-	-	-	5.1		DPL	1	C
SECOND FLOOR	2D.12	JAN	2D.12	1.0	-	X	-	3.0	-	WSL		JANITOR CLOSET
SECOND FLOOR	2D.13	STAFF TLT.	2D.13	1.0	-	-	X	3.5	-	WSH		STAFF
SECOND FLOOR	2D.15	LAUNDRY	2D.15	1.0	-	X	-	5.1	-	DPL		LAUNDRY
SECOND FLOOR	2D.16	SALLY	2D.16A	1.0	-	X	X	4.1	-	ADL	2	D
SECOND FLOOR	2D.16		2D.16B	1.0	-	X	X	-	-	-		-
SECOND FLOOR	2D.17	STAFF STATION	-	-	-	-	-	-	-	-		-
SECOND FLOOR MEZZ.	2A.1.6	BEDROOM	2A.1.6	1.0	-	X	-	5.0	-	DPL		7
SECOND FLOOR MEZZ.	2A.1.7	BEDROOM	2A.1.7	1.0	-	X	-	5.0	-	DPL		8
SECOND FLOOR MEZZ.	2A.1.8	BEDROOM	2A.1.8	1.0	-	X	-	5.0	-	DPL		9
SECOND FLOOR MEZZ.	2A.1.9	BEDROOM	2A.1.9	1.0	-	X	-	5.0	-	DPL		10
SECOND FLOOR MEZZ.	2A.1.10	BEDROOM	2A.1.10	1.0	-	X	-	5.0	-	DPL		11
SECOND FLOOR MEZZ.	2A.1.11	BEDROOM	2A.1.11	1.0	-	X	-	5.0	-	DPL		12
SECOND FLOOR MEZZ.	2A.19	MEZZ. CORR.	2A.19A	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2A.19		2A.19B	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2A.19		2A.19C	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2B.1.7	BEDROOM	2B.1.7	1.0	-	X	-	5.0	-	DPL		8
SECOND FLOOR MEZZ.	2B.1.8	BEDROOM	2B.1.8	1.0	-	X	-	5.0	-	DPL		9
SECOND FLOOR MEZZ.	2B.1.9	BEDROOM	2B.1.9	1.0	-	X	-	5.0	-	DPL		10
SECOND FLOOR MEZZ.	2B.1.10	BEDROOM	2B.1.10	1.0	-	X	-	5.0	-	DPL		11
SECOND FLOOR MEZZ.	2B.1.11	BEDROOM	2B.1.11	1.0	-	X	-	5.0	-	DPL		12
SECOND FLOOR MEZZ.	2B.1.12	BEDROOM	2B.1.12	1.0	-	X	-	5.0	-	DPL		13
SECOND FLOOR MEZZ.	2B.1.13	STORAGE	2B.1.13	1.0	-	X	-	3.0	-	WSL		STORAGE CLOSET
SECOND FLOOR MEZZ.	2B.19	MEZZ. CORR.	2B.19A	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2B.19		2B.19B	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2B.19		2B.19C	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2B.19		2B.19D	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2C.1.7	BEDROOM	2C.1.7	1.0	-	X	-	5.0	-	DPL		8
SECOND FLOOR MEZZ.	2C.1.8	BEDROOM	2C.1.8	1.0	-	X	-	5.0	-	DPL		9
SECOND FLOOR MEZZ.	2C.1.9	BEDROOM	2C.1.9	1.0	-	X	-	5.0	-	DPL		10
SECOND FLOOR MEZZ.	2C.1.10	BEDROOM	2C.1.10	1.0	-	X	-	5.0	-	DPL		11
SECOND FLOOR MEZZ.	2C.1.11	BEDROOM	2C.1.11	1.0	-	X	-	5.0	-	DPL		12
SECOND FLOOR MEZZ.	2C.1.12	BEDROOM	2C.1.12	1.0	-	X	-	5.0	-	DPL		13
SECOND FLOOR MEZZ.	2C.1.13	STORAGE	2C.1.13	1.0	-	X	-	3.0	-	WSL		STORAGE CLOSET
SECOND FLOOR MEZZ.	2C.19	MEZZ. CORR.	2C.19A	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2C.19		2C.19B	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2C.19		2C.19C	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2C.19		2C.19D	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2D.1.6	BEDROOM	2D.1.6	1.0	-	X	-	5.0	-	DPL		7
SECOND FLOOR MEZZ.	2D.1.7	BEDROOM	2D.1.7	1.0	-	X	-	5.0	-	DPL		8
SECOND FLOOR MEZZ.	2D.1.8	BEDROOM	2D.1.8	1.0	-	X	-	5.0	-	DPL		9
SECOND FLOOR MEZZ.	2D.1.9	BEDROOM	2D.1.9	1.0	-	X	-	5.0	-	DPL		10

BUILDING SIGNAGE SCHEDULE

				DOOR TAG				SIGN				
						LOCATION						
LEVEL	ROOM NUMBER	ROOM NAME	ARCHITECTURAL DOOR NUMBER	TYPE	COLOR	PULL SIDE	PUSH SIDE	TYPE	COLOR	LOCATION	REMARKS	TEXT
SECOND FLOOR MEZZ.	2D.1.10	BEDROOM	2D.1.10	1.0	-	X	-	5.0	-	DPL		11
SECOND FLOOR MEZZ.	2D.1.11	BEDROOM	2D.1.11	1.0	-	X	-	5.0	-	DPL		12
SECOND FLOOR MEZZ.	2D.19	MEZZ. CORR.	2D.19A	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2D.19		2D.19B	1.0	-	X	-	-	-	-		-
SECOND FLOOR MEZZ.	2D.19		2D.19C	1.0	-	X	-	-	-	-		-
THIRD FLOOR	10.1	GYMNASIUM	-	1.0	-	-	-	-	-	-		-
THIRD FLOOR	10.10	REC. OFFICE	10.10	1.0	-	-	X	3.0	-	WSH	3	RECREATION OFFICE
THIRD FLOOR	10.2.1	EQ. STOR.	10.2.1	1.0	-	-	X	3.0	-	WHL		EQUIPMENT STORAGE
THIRD FLOOR	10.3	FITNESS RM.	10.3	1.0	-	X	-	3.0	-	WSL	3	FITNESS ROOM
THIRD FLOOR	10.4	YOUTH TLT.	10.4	1.0	-	X	-	3.4	-	WSL		YOUTH
THIRD FLOOR	10.7	STAFF TLT.	10.7	1.0	-	-	X	3.4	-	WSH		STAFF
THIRD FLOOR	10.9	JAN.	10.9	1.0	-	X	-	3.0	-	WSL		JANITOR CLOSET
THIRD FLOOR	11.3.1	STAIR A	11.3.1	1.0	-	X	X	2.0	-	WSH		EMERGENCY EXIT STAIR
THIRD FLOOR	11.3.1		-	-	-	-	-	2.2	-	WSL	1	STAIR A/ FLOOR 3
THIRD FLOOR	11.3.3	CORR.	11.3A	1.0	-	X	X	3.0	-	WSL		GYMNASIUM
THIRD FLOOR	11.3.3		11.3B	1.0	-	X	X		-			
THIRD FLOOR	11.3.6	ELEVATOR	-	1.0	-				-			
THIRD FLOOR	11.3.7	MECH. RM.	11.3.7	1.0	-	-	X	3.0	-	WHH		MECHANICAL RM.
THIRD FLOOR	11.3.8	MECH. RM.	11.3.8	1.0	-	-	X	3.0	-	WHH		MECHANICAL RM.
THIRD FLOOR	11.3.9	ELEV. REMOTE CLOSET	11.3.9	1.0	-	X	-	3.0	-	WSL		ELEVATOR REMOTE
THIRD FLOOR	11.3.10	STAIR B	11.3.10A	1.0	-	X	X	2.0	-	DPH		EMERGENCY EXIT STAIR
THIRD FLOOR			11.3.10A	-	-	-	-	3.0	-	WSL		GYMNASIUM
THIRD FLOOR	11.3.10		11.3.10A	-	-	-	-	2.2	-	WSL	1	STAIR B/FLOOR3
THIRD FLOOR	11.3.10		11.3.10B	1.0	-	X	X		-			
MAIN ENTRANCE (GREENMOUNT AVE)	-	-	-	-				6.0		POLE MOUNTED		NO SMOKING BEYOND THIS POINT

SIGN LOCATION ABBREVIATIONS			
	MOUNT TO	ADEJACENT TO	SIDE OF DOOR
DPH	DOOR	STRIKE	PUSH
DPL	DOOR	STRIKE	PULL
WHH	WALL	HINGE	PUSH
WHL	WALL	HINGE	PULL
WSH	WALL	STRIKE	PUSH
WSL	WALL	STRIKE	PULL
ADH	WALL	ABOVE DOOR	PUSH
ADL	WALL	ABOVE DOOR	PULL
CLG	CEILING	-	-

REMARKS

1 COORDINATE LOCATION WITH FIELD ARCHITECT
2 CONSIDER THE DOOR HOUSING SIDE OF SLIDING DOOR TO BE THE PULL SIDE FOR MOUNTING PURPOSES
3 LOCATE ON NEAREST ADJACENT WALL
4 CONSIDER THE SIDE OF DOOR FACING THE STAIRS AS PULL SIDE FOR MOUNTING PURPOSES
5 USE TEMPLATE 2.1 FOR STAIRWAY IDENTIFICATION SIGN

SIGN TYPE		
1.0	DOOR TAG PLAQUE	NON-ADA
2.0	EMERGENCY EXIT STAIRS	ADA
2.1	TEMPLATE FOR STAIRWAY ID	NON-ADA
3.0	ROOM PLAQUE	ADA
3.1	ROOM PLAQUE W/ WINDOW INSERT	
3.2	WOMEN	ADA
3.3	MEN	ADA
3.4	UNISEX	ADA
3.5	UNISEX (NON-ADA)	NON-ADA
4.0	SINGLE LINE TEXT PLAQUE	NON-ADA
4.1	SINGE LETTER TEXT PLAQUE	NON-ADA
4.2	MULTI-LINE TEXT PLAQUE	NON-ADA
4.3	SUSPENDED MULTI-LINE TEXT PLAQUE	NON-ADA
5.0	BEDROOM NUMBER SIGNS	NON-ADA
5.1	SINGLE LINE ADHESIVE VINLY LETTERING	NON-ADA

SECTION 23 09 23.11 - CONTROL VALVES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes control valves and actuators for DDC systems.

B. Related Requirements:

1. Section 230923 "Direct-Digital Control System for HVAC" control equipment and software, relays, electrical power devices, uninterruptible power supply units, wire, and cable.
2. Section 230933 "Electric and Electronic Control System for HVAC" for electric/electronic control valves and actuators in electric and electronic control systems.
3. Section 230943 "Pneumatic Control System for HVAC" for pneumatic control valves and actuators in pneumatic control systems.
4. Section 230993 "Sequence of Operations for HVAC Controls" for requirements that relate to Section 230923.11.

1.3 DEFINITIONS

A. Cv: Design valve coefficient.

B. DDC: Direct-digital control.

C. NBR: Nitrile butadiene rubber.

D. PTFE: Polytetrafluoroethylene

E. RMS: Root-mean-square value of alternating voltage, which is the square root of the mean value of the square of the voltage values during a complete cycle.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product, including the following:

1. Construction details, material descriptions, dimensions of individual components and profiles, and finishes.
2. Operating characteristics, electrical characteristics, and furnished accessories indicating process operating range, accuracy over range, control signal over range, default control signal with loss of power, calibration data specific to each unique application, electrical power requirements, and limitations of ambient operating environment, including temperature and humidity.

3. Product description with complete technical data, performance curves, and product specification sheets.
4. Installation, operation, and maintenance instructions, including factors affecting performance.

B. Shop Drawings:

1. Include plans, elevations, sections, and mounting details.
2. Include details of product assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
3. Include diagrams for power, signal, and control wiring.
4. Include diagrams for pneumatic signal and main air tubing.

C. Delegated-Design Submittal:

1. Schedule and design calculations for control valves and actuators, including the following:

   a. Flow at project design and minimum flow conditions.
   b. Pressure differential drop across valve at project design flow condition.
   c. Maximum system pressure differential drop (pump close-off pressure) across valve at project minimum flow condition.
   d. Design and minimum control valve coefficient with corresponding valve position.
   e. Maximum close-off pressure.
   f. Leakage flow at maximum system pressure differential.
   g. Torque required at worst case condition for sizing actuator.
   h. Actuator selection indicating torque provided.

1.5 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Plan drawings and corresponding product installation details, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:

1. Control valve installation location shown in relationship to room, duct, pipe, and equipment.
2. Size and location of wall access panels for control valves installed behind walls.
3. Size and location of ceiling access panels for control valves installed above inaccessible ceilings.

1.6 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For control valves to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. 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.

B. ASME Compliance: Fabricate and label products to comply with ASME Boiler and Pressure Vessel Code where required by authorities having jurisdiction.

C. Delegated Design: Engage a qualified professional[engineer], as defined in Section 014000 "Quality Requirements," to size products where indicated as delegated design.

D. Ground Fault: Products shall not fail due to ground fault condition when suitably grounded.

E. Backup Power Source: Systems and equipment served by a backup power source shall have associated control valve actuators served from a backup power source.

F. Environmental Conditions:

1. Provide electric control valve actuators, with protective enclosures satisfying the following minimum requirements unless more stringent requirements are indicated. Electric control valve actuators not available with integral enclosures, complying with requirements indicated, shall be housed in protective secondary enclosures.

    a. Hazardous Locations: Explosion-proof rating for condition.

G. Determine control valve sizes and flow coefficients by ISA 75.01.01.

H. Control valve characteristics and rangeability shall comply with ISA 75.11.01.

2.2 GLOBE-STYLE CONTROL VALVES

A. General Globe-Style Valve Requirements:

1. Globe-style control valve body dimensions shall comply with ISA 75.08.01.
2. Construct the valves to be serviceable from the top.
3. For cage guided valves, trim shall be field interchangeable for different valve flow characteristics, such as equal percentage, linear, and quick opening.
4. Reduced trim for one nominal size smaller shall be available for industrial valves NPS 1 (DN 25) and larger.
5. Replaceable seats and plugs.
6. Furnish each control valve with a corrosion-resistant nameplate indicating the following:

    a. Manufacturer's name, model number, and serial number.
    b. Body and trim size.
    c. Arrow indicating direction of flow.

2.3 SOLENOID VALVES

A. Description:

1. Action: Either normally open or normally closed in the event of electrical power failure as required by the application.
2. Size to close against the system pressure.
3. Manual override capable.
4. Heavy-duty assembly.
5. Body: Brass.
6. Seats and Discs: NBR or PTFE.
7. Solenoid Enclosure: NEMA 250, Type 4.

2.4 ELECTRIC AND ELECTRONIC CONTROL VALVE ACTUATORS

A. Position indicator and graduated scale on each actuator.

B. Type: Motor operated, with or without gears, electric and electronic.

C. Deliver torque required for continuous uniform movement of controlled device from limit to limit when operated at rated voltage.

D. Function properly within a range of 85 to 120 percent of nameplate voltage.

E. Construction:

1. For Actuators Less Than 100 W: Fiber or reinforced nylon gears with steel shaft, copper alloy or nylon bearings, and pressed steel enclosures.
2. For Actuators from 100 to 400 W: Gears ground steel, oil immersed, shaft hardened steel running in bronze, copper alloy or ball bearings. Operator and gear trains shall be totally enclosed in dustproof cast-iron, cast-steel or cast-aluminum housing.
3. For Actuators Larger Than 400 W: Totally enclosed reversible induction motors with auxiliary hand crank and permanently lubricated bearings.

F. Field Adjustment:

1. Spring Return Actuators: Easily switchable from fail open to fail closed in the field without replacement.
2. Gear Type Actuators: External manual adjustment mechanism to allow manual positioning when the actuator is not powered.

G. Two-Position Actuators: Single direction, spring return or reversing type.

H. Modulating Actuators:

1. Operation: Capable of stopping at all points across full range, and starting in either direction from any point in range.
2. Control Input Signal:

a. Three Point, Tristate, or Floating Point: Clockwise and counter-clockwise inputs. One input drives actuator to open position and other input drives actuator to close position. No signal of either input remains in last position.
b. Proportional: Actuator drives proportional to input signal and modulates throughout its angle of rotation. Suitable for zero- to 10 signals.

c. Pulse Width Modulation (PWM): Actuator drives to a specified position according to pulse duration (length) of signal from a dry contact closure, triac sink, or source controller.
d. Programmable Multi-Function:

1) Control Input, Position Feedback, and Running Time: Factory or field programmable.
2) Diagnostic: Feedback of hunting or oscillation, mechanical overload, mechanical travel, and mechanical load limit.
3) Service Data: Include, at a minimum, number of hours powered and number of hours in motion.

I. Fail-Safe:

1. Where indicated, provide actuator to fail to an end position.
2. Internal spring return mechanism to drive controlled device to an end position (open or close) on loss of power.
3. Batteries, capacitors, and other non-mechanical forms of fail-safe operation are acceptable only where uniquely indicated.

J. Integral Overload Protection:

1. Provide against overload throughout the entire operating range in both directions.
2. Electronic overload, digital rotation sensing circuitry, mechanical end switches, or magnetic clutches are acceptable methods of protection.

K. Enclosure:

1. Suitable for ambient conditions encountered by application.
2. NEMA 250, Type 2 for indoor and protected applications.
3. NEMA 250, Type 4 or Type 4X for outdoor and unprotected applications.
4. Provide actuator enclosure with heater and control where required by application.

5. Spring Return: 62 dBA.
6. Non-Spring Return: 45 dBA.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Examine roughing-in for valves installed in piping to verify actual locations of piping connections before installation.

C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. Furnish and install products required to satisfy most stringent requirements indicated.

B. Install products level, plumb, parallel, and perpendicular with building construction.

C. Properly support instruments, tubing, piping, wiring, and conduits to comply with requirements indicated. Brace all products to prevent lateral movement and sway or a break in attachment when subjected to a <Insert value> force.

D. Provide ceiling, floor, roof, and wall openings and sleeves required by installation. Before proceeding with drilling, punching, or cutting, check location first for concealed products that could potentially be damaged. Patch, flash, grout, seal, and refinish openings to match adjacent condition.

E. Firestop penetrations made in fire-rated assemblies and seal penetrations made in acoustically rated assemblies.

F. Fastening Hardware:

1. Stillson wrenches, pliers, and other tools that will cause injury to or mar surfaces of rods, nuts, and other parts are prohibited for assembling and tightening nuts.
2. Tighten bolts and nuts firmly and uniformly. Do not overstress threads by excessive force or by oversized wrenches.
3. Lubricate threads of bolts, nuts, and screws with graphite and oil before assembly.

G. Install products in locations that are accessible and that will permit calibration and maintenance from floor, equipment platforms, or catwalks. Where ladders are required for Owner's access, confirm unrestricted ladder placement is possible under occupied condition.

H. Corrosive Environments:

1. Use products that are suitable for environment to which they will be subjected.

2. Use Type 316 stainless-steel tubing and fittings when in contact with a corrosive environment.
3. When conduit is in contact with a corrosive environment, use Type 316 stainless-steel conduit and fittings or conduit and fittings that are coated with a corrosive-resistant coating that is suitable for environment.
4. Where control devices are located in a corrosive environment and are not corrosive resistant from manufacturer, field install products in a NEMA 250, Type 4X enclosure constructed of Type 316L stainless steel.

3.3 ELECTRIC POWER

A. Furnish and install electrical power to products requiring electrical connections.

B. Furnish and install circuit breakers. Comply with requirements in Section 262816 "Enclosed Switches and Circuit Breakers."

C. Furnish and install power wiring. Comply with requirements in Section 260519 "Low-Voltage Electrical Power Conductors and Cables."

D. Furnish and install raceways. Comply with requirements in Section 260533 "Raceways and Boxes for Electrical Systems."

3.4 CONTROL VALVES

A. Install pipe reducers for valves smaller than line size. Position reducers as close to valve as possible but at distance to avoid interference and impact to performance. Install with manufacturer-recommended clearance.

B. Install flanges or unions to allow drop-in and -out valve installation.

C. Clearance:

1. Locate valves for easy access and provide separate support of valves that cannot be handled by service personnel without hoisting mechanism.
2. Install valves with at least 12 inches of clear space around valve and between valves and adjacent surfaces.

D. Threaded Valves:

1. Note internal length of threads in valve ends, and proximity of valve internal seat or wall, to determine how far pipe should be threaded into valve.
2. Align threads at point of assembly.
3. Apply thread compound to external pipe threads, except where dry seal threading is specified.
4. Assemble joint, wrench tight. Apply wrench on valve end as pipe is being threaded.

E. Flanged Valves:

1. Align flange surfaces parallel.
2. Assemble joints by sequencing bolt tightening to make initial contact of flanges and gaskets as flat and parallel as possible. Use suitable lubricants on bolt threads. Tighten bolts gradually and uniformly with a torque wrench.

3.5 CONNECTIONS

A. Connect electrical devices and components to electrical grounding system. Comply with requirements in Section 260526 "Grounding and Bonding for Electrical Systems."

3.6 IDENTIFICATION

A. Identify system components, wiring, cabling, and terminals. Each piece of wire, cable, and tubing shall have the same designation at each end for operators to determine continuity at points of connection. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

3.7 CLEANING

A. Remove grease, mastic, adhesives, dust, dirt, stains, fingerprints, labels, and other foreign materials from exposed interior and exterior surfaces.

B. Wash and shine glazing.

C. Polish glossy surfaces to a clean shine.

3.8 CHECKOUT PROCEDURES

A. Control Valve Checkout:

1. Check installed products before continuity tests, leak tests, and calibration.
2. Check valves for proper location and accessibility.
3. Check valves for proper installation for direction of flow, elevation, orientation, insertion depth, or other applicable considerations that will impact performance.
4. For pneumatic products, verify air supply for each product is properly installed.
5. For pneumatic valves, verify that pressure gauges are provided in each air line to valve actuator and positioner.
6. Verify that control valves are installed correctly for flow direction.
7. Verify that valve body attachment is properly secured and sealed.
8. Verify that valve actuator and linkage attachment are secure.
9. Verify that actuator wiring is complete, enclosed, and connected to correct power source.
10. Verify that valve ball, disc, and plug travel are unobstructed.
11. After piping systems have been tested and put into service, but before insulating and balancing, inspect each valve for leaks. Adjust or replace packing to stop leaks. Replace the valve if leaks persist.

3.9 ADJUSTMENT, CALIBRATION, AND TESTING

A. Stroke and adjust control valves following manufacturer's recommended procedure, from 100 percent open to 100 percent closed back to 100 percent open.

B. Stroke control valves with pilot positioners. Adjust valve and positioner following manufacturer's recommended procedure, so valve is 100 percent closed, 50 percent closed, and 100 percent open at proper air pressures.

C. Check and document open and close cycle times for applications with a cycle time of less than 30 seconds.

D. For control valves equipped with positive position indication, check feedback signal at multiple positions to confirm proper position indication.

END OF SECTION 230923.11

SECTION 23 09 23.12 - CONTROL DAMPERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes control dampers and actuators for DDC systems.

B. Related Requirements:

1. Section 230923 "Direct-Digital Control System for HVAC" for control equipment and software, relays, electrical power devices, uninterruptible power supply units, wire, and cable.
2. Section 230993 "Sequence of Operations for HVAC Controls" for requirements that relate to Section 230923.12.

1.3 DEFINITIONS

A. DDC: Direct-digital control.

B. RMS: Root-mean-square value of alternating voltage, which is the square root of the mean value of the square of the voltage values during a complete cycle.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product, including the following:

1. Construction details, material descriptions, dimensions of individual components and profiles, and finishes.
2. Operating characteristics, electrical characteristics, and furnished accessories indicating process operating range, accuracy over range, control signal over range, default control signal with loss of power, calibration data specific to each unique application, electrical power requirements, and limitations of ambient operating environment, including temperature and humidity.
3. Product description with complete technical data, performance curves, and product specification sheets.
4. Installation instructions, including factors affecting performance.

B. Shop Drawings:

1. Include plans, elevations, sections, and mounting details.
2. Include details of product assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.

3. Include diagrams for power, signal, and control wiring.
4. Include diagrams for air and process signal tubing.
5. Include diagrams for pneumatic signal and main air tubing.

1.5 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Plan drawings and corresponding product installation details, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:

1. Product installation location shown in relationship to room, duct, and equipment.
2. Size and location of wall access panels for control dampers and actuators installed behind walls.
3. Size and location of ceiling access panels for control dampers and actuators installed above inaccessible ceilings.

1.6 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For control dampers to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. 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.

B. ASME Compliance: Fabricate and label products to comply with ASME Boiler and Pressure Vessel Code where required by authorities having jurisdiction.

C. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to size products where indicated as delegated design.

D. Ground Fault: Products shall not fail due to ground fault condition when suitably grounded.

E. Backup Power Source: Systems and equipment served by a backup power source shall have associated control damper actuators served from a backup power source.

F. Environmental Conditions:

1. Provide electric control-damper actuators, with protective enclosures satisfying the following minimum requirements unless more stringent requirements are indicated. Electric control-damper actuators not available with integral enclosures, complying with requirements indicated, shall be housed in protective secondary enclosures.

a. Hazardous Locations: Explosion-proof rating for condition.

G. Selection Criteria:

1. Fail positions unless otherwise indicated:

a. Supply Air: Open.
b. Return Air: Open.
c. Outdoor Air: Close.
d. Mixed Air: Close.
e. Exhaust Air: Close.

2. Dampers shall have stable operation throughout full range of operation, from design to minimum airflow over varying pressures and temperatures encountered.
3. Select modulating dampers for a pressure drop of 2 percent of fan total static pressure unless otherwise indicated.
4. Two-position dampers shall be full size of duct or equipment connection unless otherwise indicated.

2.2 RECTANGULAR CONTROL DAMPERS

A. General Requirements:

1. Unless otherwise indicated, use parallel blade configuration for two-position control, equipment isolation service, and when mixing two airstreams. For other applications, use opposed blade configuration.
2. Factory assemble multiple damper sections to provide a single damper assembly of size required by the application.
3. Damper actuator shall be factory installed by damper manufacturer as integral part of damper assembly. Coordinate actuator location and mounting requirements with damper manufacturer.

B. Rectangular Dampers with Aluminum Airfoil Blades:

1. Performance:

a. Leakage: AMCA 511, Class 1A. Leakage shall not exceed 3 cfm/sq. ft. against 1-in. wg differential static pressure.
b. Pressure Drop: 0.05-in. wg at 1500 fpm across a 24-by-24-inch damper when tested according to AMCA 500-D, figure 5.3.
c. Velocity: Up to 6000 fpm.
d. Temperature: Minus 40 to plus 185 deg F.
e. Pressure Rating: Damper close-off pressure equal to fan shutoff pressure with a maximum blade deflection of 1/200 of blade length.
f. Damper shall have AMCA seal for both air leakage and air performance.

2. Construction:

a. Frame:

1) Material: ASTM B 211, Alloy 6063 T5 extruded-aluminum profiles,0.07 inch thick.
2) Hat-shaped channel with integral flange(s). Mating face shall be a minimum of 1 inch.
3) Width not less than 5 inches.

b. Blades:

1) Hollow, airfoil, extruded aluminum.
2) Parallel or opposed blade configuration as required by application.

3) Material: ASTM B 211, Alloy 6063 T5 aluminum, 0.07 inch thick.
4) Width not to exceed 6 inches.
5) Length as required by close-off pressure, not to exceed 48 inches.

c. Seals:

1) Blades: Replaceable, mechanically attached extruded silicone, vinyl, or plastic composite.
2) Jambs: Stainless steel, compression type.

d. Axles: 0.5-inch-diameter plate steel, mechanically attached to blades.
e. Bearings:

1) Molded synthetic or stainless-steel sleeve mounted in frame.
2) Where blade axles are installed in vertical position, provide thrust bearings.

f. Linkage:

1) Concealed in frame.
2) Constructed of aluminum and plated steel.
3) Hardware: Stainless steel.

g. Transition:

1) For round and flat oval duct applications, provide damper assembly with integral transitions to mate to adjoining field connection.
2) Factory mount damper in a sleeve with a close transition to mate to field connection.
3) Damper size and sleeve shall be connection size plus 2 inches.
4) Sleeve length shall be not less than 12 inches for dampers without jackshafts and shall be not less than 16 inches for dampers with jackshafts.
5) Sleeve material shall match adjacent duct.

h. Additional Corrosion Protection for Corrosive Environments:

1) Provide anodized finish for aluminum surfaces in contact with airstream. Anodized finish shall be a minimum of 0.0007 inch thick.
2) Axles, damper linkage, and hardware shall be constructed of Type 316L stainless steel.

3. Airflow Measurement:

a. Where indicated, provide damper assembly with integral airflow monitoring.
b. Zero- to 10-V dc or 4- to 20-mA scaled output signal for remote monitoring of actual airflow.
c. Accuracy shall be within 5 percent of the actual flow rate between the range of minimum and design airflow. For applications with a large variation in range between the minimum and design airflow, configure the damper sections and flow measurement assembly as required to comply with the stated accuracy over the entire modulating range.
d. Provide a straightening device as part of the flow measurement assembly to achieve the specified accuracy with configuration indicated.
e. Suitable for operation in untreated and unfiltered air.
f. Provide temperature and altitude compensation and correction to maintain accuracy over temperature range encountered at site altitude.

g. Provide automatic zeroing feature.

4. Airflow Control:

a. Where indicated, provide damper assembly with integral airflow measurement and control.
b. A factory-furnished and -calibrated controller shall be programmed, in nonvolatile EPROM, with application-specific airflow set point and range.
c. The controller and actuator shall communicate to control the desired airflow.
d. The controller shall receive a zero- to 10-V dc input signal and report a zero- to 20-mA output signal that is proportional to the airflow.
e. Airflow measurement and control range shall be suitable for operation between 150 to 2000 fpm.

C. Rectangular Dampers with Steel Airfoil Blades:

1. Performance:

a. Leakage: AMCA 511, Class 1A. Leakage shall not exceed 3 cfm/sq. ft. against 1-in. wg differential static pressure.
b. Pressure Drop: 0.06-in. wg at 1500 fpm across a 24-by-24-inch damper when tested according to AMCA 500-D, figure 5.3.
c. Velocity: Up to 6000 fpm.
d. Temperature: Minus 40 to plus 185 deg F.
e. Pressure Rating: Damper close-off pressure equal to fan shutoff pressure with a maximum blade deflection of 1/200 of blade length.
f. Damper shall have AMCA seal for both air leakage and air performance.

2. Construction:

a. Frame:

1) Material: ASTM A 653/A 653M galvanized-steel profiles, 0.06 inch thick.
2) Hat-shaped channel with integral flanges. Mating face shall be a minimum of 1 inch.
3) Width not less than 5 inches.

b. Blades:

1) Hollow, airfoil, galvanized steel.
2) Parallel or opposed blade configuration as required by application.
3) Material: ASTM A 653/A 653M galvanized steel, 0.05 inch thick.
4) Width not to exceed 6 inches.
5) Length as required by close-off pressure, not to exceed 48 inches.

c. Seals:

1) Blades: Replaceable, mechanically attached extruded silicone, vinyl, or plastic composite.
2) Jambs: Stainless steel, compression type.

d. Axles: 0.5-inch- diameter stainless steel, mechanically attached to blades.
e. Bearings:

1) Stainless steel mounted in frame.

2) Where blade axles are installed in vertical position, provide thrust bearings.

f. Linkage:

1) Concealed in frame.
2) Constructed of aluminum and plated steel.
3) Hardware: Stainless steel.

g. Transition:

1) For round and flat oval duct applications, provide damper assembly with integral transitions to mate to adjoining field connection.
2) Factory mount damper in a sleeve with a close transition to mate to field connection.
3) Damper size and sleeve shall be connection size plus 2 inches.
4) Sleeve length shall be not less than 12 inche for dampers without jackshafts and shall be not less than 16 inches for dampers with jackshafts.
5) Sleeve material shall match adjacent duct.

h. Additional Corrosion Protection for Corrosive Environments:

1) Provide epoxy finish for surfaces in contact with airstream.
2) Axles, damper linkage, and hardware shall be constructed of Type 316L stainless steel.

2.3 ROUND CONTROL DAMPERS

A. Round Dampers, Sleeve Type:

1. Construction:

a. Frame:

1) Material: Galvanized steel, 0.04 in thick.
2) Outward rolled stiffener beads positioned approximately 1 inch inboard of each end.
3) Sleeve-type connection for mating to adjacent ductwork.
4) Size Range: 4 to 24 inches.
5) Length not less than 7 inches.
6) Provide 2-inch sheet metal stand-off for mounting actuator.

b. Blade: Double-thickness circular flat blades sandwiched together and constructed of galvanized steel.
c. Blade Seal: Polyethylene foam seal sandwiched between two sides of blades and fully encompassing blade edge.
d. Axle: 0.5-inch-diameter plated steel, mechanically attached to blade.
e. Bearings: Stainless-steel sleeve pressed into frame.

2.4 GENERAL CONTROL-DAMPER ACTUATORS REQUIREMENTS

A. Actuators shall operate related damper(s) with sufficient reserve power to provide smooth modulating action or two-position action and proper speed of response at velocity and pressure conditions to which the damper is subjected.

B. Actuators shall produce sufficient power and torque to close off against the maximum system pressures encountered. Actuators shall be sized to close off against the fan shutoff pressure as a minimum requirement.

C. The total damper area operated by an actuator shall not exceed 80 percent of manufacturer's maximum area rating.

D. Provide one actuator for each damper assembly where possible. Multiple actuators required to drive a single damper assembly shall operate in unison.

E. Avoid the use of excessively oversized actuators which could overdrive and cause linkage failure when the damper blade has reached either its full open or closed position.

F. Use jackshafts and shaft couplings in lieu of blade-to-blade linkages when driving axially aligned damper sections.

G. Provide mounting hardware and linkages for connecting actuator to damper.

H. Select actuators to fail in desired position in the event of a power failure.

I. Actuator Fail Positions: As indicated below:

1. Exhaust Air: Close.
2. Outdoor Air: Close.
3. Supply Air: Open.
4. Return Air: Open.

2.5 ELECTRIC AND ELECTRONIC ACTUATORS

A. Type: Motor operated, with or without gears, electric and electronic.

B. Voltage:

1. Voltage selection is delegated to professional designing control system.
2. Actuator shall deliver torque required for continuous uniform movement of controlled device from limit to limit when operated at rated voltage.
3. Actuator shall function properly within a range of 85 to 120 percent of nameplate voltage.

C. Construction:

1. Less Than 100 W: Fiber or reinforced nylon gears with steel shaft, copper alloy or nylon bearings, and pressed steel enclosures.
2. 100 up to 400 W: Gears ground steel, oil immersed, shaft-hardened steel running in bronze, copper alloy, or ball bearings. Operator and gear trains shall be totally enclosed in dustproof cast-iron, cast-steel, or cast-aluminum housing.
3. Greater Than 400 W: Totally enclosed reversible induction motors with auxiliary hand crank and permanently lubricated bearings.

D. Field Adjustment:

1. Spring return actuators shall be easily switchable from fail open to fail closed in the field without replacement.
2. Provide gear-type actuators with an external manual adjustment mechanism to allow manual positioning of the damper when the actuator is not powered.

E. Two-Position Actuators: Single direction, spring return or reversing type.

1. Where indicated, provide actuator to fail to an end position.
2. Internal spring return mechanism to drive controlled device to an end position (open or close) on loss of power.
3. Batteries, capacitors, and other non-mechanical forms of fail-safe operation are acceptable only where uniquely indicated.

F. Integral Overload Protection:

1. Provide against overload throughout the entire operating range in both directions.
2. Electronic overload, digital rotation sensing circuitry, mechanical end switches, or magnetic clutches are acceptable methods of protection.

G. Damper Attachment:

1. Unless otherwise required for damper interface, provide actuator designed to be directly coupled to damper shaft without need for connecting linkages.
2. Attach actuator to damper drive shaft in a way that ensures maximum transfer of power and torque without slippage.
3. Bolt and set screw method of attachment is acceptable only if provided with at least two points of attachment.

H. Temperature and Humidity:

1. Temperature: Suitable for operating temperature range encountered by application with minimum operating temperature range of minus 20 to plus 120 deg.
2. Humidity: Suitable for humidity range encountered by application; minimum operating range shall be from 5 to 95 percent relative humidity, non-condensing.

I. Enclosure:

1. Suitable for ambient conditions encountered by application.
2. NEMA 250, Type 2 for indoor and protected applications.
3. NEMA 250, Type 4 or Type 4X for outdoor and unprotected applications.
4. Provide actuator enclosure with a heater and controller where required by application.

J. Stroke Time:

1. Operate damper from fully closed to fully open within 60 seconds.
2. Operate damper from fully open to fully closed within 60 seconds.
3. Move damper to failed position within 15 seconds.
4. Select operating speed to be compatible with equipment and system operation.
5. Actuators operating in smoke control systems comply with governing code and NFPA requirements.

K. Sound:

1. Spring Return: 62 dBA.
2. Non-Spring Return: 45 dBA.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Examine roughing-in for dampers and instruments installed in duct systems to verify actual locations of connections before installation.

C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. Furnish and install products required to satisfy most stringent requirements indicated.

B. Properly support dampers and actuators, tubing, wiring, and conduit to comply with requirements indicated. Brace all products to prevent lateral movement and sway or a break in attachment when subjected to a force.

C. Provide ceiling, floor, roof, and wall openings and sleeves required by installation. Before proceeding with drilling, punching, or cutting, check location first for concealed products that could potentially be damaged. Patch, flash, grout, seal, and refinish openings to match adjacent condition.

D. Seal penetrations made in fire-rated and acoustically rated assemblies.

E. Fastening Hardware:

1. Stillson wrenches, pliers, or other tools that will cause injury to or mar surfaces of rods, nuts, and other parts are prohibited for assembling and tightening nuts.
2. Tighten bolts and nuts firmly and uniformly. Do not overstress threads by excessive force or by oversized wrenches.
3. Lubricate threads of bolts, nuts, and screws with graphite and oil before assembly.

F. Install products in locations that are accessible and that will permit calibration and maintenance from floor, equipment platforms, or catwalks. Where ladders are required for Owner's access, confirm unrestricted ladder placement is possible under occupied condition.

G. Corrosive Environments:

1. Use products that are suitable for environment to which they will be subjected.

2. Use Type 316 stainless-steel tubing and fittings when in contact with a corrosive environment.

3. When conduit is in contact with a corrosive environment, use Type 316 stainless-steel conduit and fittings or conduit and fittings that are coated with a corrosive-resistant coating that is suitable for environment.
4. Where actuators are located in a corrosive environment and are not corrosive resistant from manufacturer, field install products in a NEMA 250, Type 4X enclosure constructed of Type 316L stainless steel.

3.3 ELECTRIC POWER

A. Furnish and install electrical power to products requiring electrical connections.

B. Furnish and install circuit breakers. Comply with requirements in Section 262816 "Enclosed Switches and Circuit Breakers."

C. Furnish and install power wiring. Comply with requirements in Section 260519 "Low-Voltage Electrical Power Conductors and Cables."

D. Furnish and install raceways. Comply with requirements in Section 260533 "Raceways and Boxes for Electrical Systems."

3.4 CONTROL DAMPERS

A. Install smooth transitions, not exceeding 30 degrees, to dampers smaller than adjacent duct. Install transitions as close to damper as possible but at distance to avoid interference and impact to performance. Consult manufacturer for recommended clearance.

B. Clearance:

1. Locate dampers for easy access and provide separate support of dampers that cannot be handled by service personnel without hoisting mechanism.
2. Install dampers with at least 24 inches of clear space on sides of dampers requiring service access.

C. Service Access:

1. Dampers and actuators shall be accessible for visual inspection and service.
2. Install access door(s) in duct or equipment located upstream of damper to allow service personnel to hand clean any portion of damper, linkage, and actuator. Comply with requirements in Section 233300 "Air Duct Accessories."

D. Install dampers straight and true, level in all planes, and square in all dimensions. Install supplementary structural steel reinforcement for large multiple-section dampers if factory support alone cannot handle loading.

E. Attach actuator(s) to damper drive shaft.

F. For duct-mounted and equipment-mounted dampers installed outside of equipment, install a visible and accessible indication of damper position from outside.

3.5 CONNECTIONS

A. Connect electrical devices and components to electrical grounding system. Comply with requirements in Section 260526 "Grounding and Bonding for Electrical Systems."

3.6 IDENTIFICATION

A. Identify system components, wiring, cabling, and terminals. Each piece of wire, cable, and tubing shall have the same designation at each end for operators to determine continuity at points of connection. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems. "Section 260553 "Electrical Identification."

B. Install engraved phenolic nameplate with damper identification on damper.

3.7 CHECKOUT PROCEDURES

A. Control-Damper Checkout:

1. Check installed products before continuity tests, leak tests, and calibration.
2. Check dampers for proper location and accessibility.
3. Check instrument tubing for proper isolation, fittings, slope, dirt legs, drains, material, and support.
4. For pneumatic products, verify air supply for each product is properly installed.
5. For pneumatic dampers, verify that pressure gages are provided in each airline to damper actuator and positioner.
6. Verify that control dampers are installed correctly for flow direction.
7. Verify that proper blade alignment, either parallel or opposed, has been provided.
8. Verify that damper frame attachment is properly secured and sealed.
9. Verify that damper actuator and linkage attachment are secure.
10. Verify that actuator wiring is complete, enclosed, and connected to correct power source.
11. Verify that damper blade travel is unobstructed.

3.8 ADJUSTMENT, CALIBRATION, AND TESTING:

A. Stroke and adjust control dampers following manufacturer's recommended procedure, from 100 percent open to 100 percent closed back to 100 percent open.

B. Stroke control dampers with pilot positioners. Adjust damper and positioner following manufacturer's recommended procedure, so damper is 100 percent closed, 50 percent closed, and 100 percent open at proper air pressure.

C. Check and document open and close cycle times for applications with a cycle time of less than 30 seconds.

D. For control dampers equipped with positive position indication, check feedback signal at multiple positions to confirm proper position indication.

END OF SECTION 230923.12

SECTION 282313 - VIDEO SURVEILLANCE FOR ELECTRONIC SECURITY

PART 1 - GENERAL

1.1 SYSTEM DESCRIPTION

A. Visual surveillance of the facility via cameras as indicated on the plans.

B. Video monitoring of all cameras on VMS workstations and displays at locations identified on the plans.

C. Review capabilities for the recorded images via the Video Management System.

D. Stored image transfer capabilities to allow archival functions and stored image transfer via removable media such as CD/DVD.

E. Cameras shall utilize Category 6 cable to transport video signal to the system.

F. Video surveillance system shall integrate with PLC/GUI Control system allowing for automatic camera call up upon manual input via touch screen icons, alarm or event activation. Alarms such as panic device activation or events such as intercom call acknowledge. When an alarm is activated, the nearest camera shall be displayed on the control station VMS displays automatically.

G. All IP cameras, recording devices, viewing stations, and controllers shall reside on a private dedicated Video Surveillance Ethernet Network included by the security electronics contactor as part of the system.

H. Provide all software and licensing as required.

I. Camera system to provide masking capability. Typical masking to include toilet/shower areas in detention areas, as well as other areas requested by Owner during final system testing.

J. Recording parameters and storage capacity

1. Servers and Mass storage devices are specified below. Provide a quantity of servers and storage devices necessary to accommodate the number of cameras indicated on the floor plans based on the camera specifications, and the following recording parameters:

a. 7 IPS per camera
b. Record based on motion
c. Calculate motion based on 50% motion factor
d. Minimum stored image retention of 45 days
e. 30 IPS per camera when in alarm condition

2. If the installed system fails to provide the minimum 45 days of storage image retention for each camera; the integrator shall increase the storage array capacity until the 45 day requirement is met at no additional cost to the owner.

PART 2 - PRODUCTS

2.1 GENERAL

A. Equipment specified is intended as a reference standard for level of quality.

B. Substitutions of equal quality will be accepted for ONLY those products which state "Approved Equal" under the Acceptable Manufacturers list.

C. Provide materials listed by UL or ETL.

2.2 CORNER MOUNT CAMERA

A. Specifications

1.	Imaging Device	1 / 2.8" Exmor CMOS
2.	Max Resolution	1920 x 1080
3.	Shutter Speed	1/10000 – 1/60 (slow shutter 1/15, 1/8, ¼)
4.	Angle of View	120 degrees(H) – 70 degrees(V)
5.	Lens	Fixed 2.6mm, F2.0
6.	Input Voltage	24 VAC, 12 VDC POE IEEE 802.3af Class 0
7.	Power Consumption	24 VAC / 12VDC 500mA 6.0W PoE 48 VDC 125mA 6W
8.	Ethernet	RJ-45 10BASE-T/100BASE-TX
9.	Radio Frequency	FCC, CE
10.	Operating Temp	0 degrees celcius – 50 degrees celcius
11.	Humidity	0 – 80% (non-condensing)
12.	External Dimension	15" x 12.6"
13.	Weight	1600g

B. Acceptable Manufacturers

1. Vicon XX247-10-01 V-CELL HD Corner Mount Camera
2. Vicon

2.3 FIXED VIDEO SURVEILLANCE CAMERA 0.3 MP

A. Specifications

1.	Imaging Device:	1/2.8-inch CMOS sensor
2.	Max. Resolution:	SD (D1)
3.	Shutter Speed:	¼ - 1/20,000
4.	Automatic Gain Control:	On/Off selectable
5.	Signal-to-Noise Ratio:	>50 dB
6.	Sensitivity:	VGA: Color: 0.12 fc (1.25 lux); B&W: 0.014 fc (0.15 lux),slow shutter On, @f/1.6, 30 IRE 720P/1080P: Color: 0.07 fc (0.7 lux);

B&W: 0.007 fc (0.08 lux),slow shutter On, @f/1.4, 50 IRE

7. Zoom and Focus: Motorized focus and Zoom
8. Slow Shutter: 2X
9. Electronic Zoom: 1 ~ 10X (client software)
10. Lens Adjustment: Focus and zoom adjustment; fixed lens, DC iris/P-iris motorized lens, iris automatically adjusts to zoom condition
11. Focal Length: 3-9 mm (3X zoom)
12. Horizontal Field of View: 3-9 mm: 93°- 31.7°
13. Input Voltage: 24 VAC, 12 VDC, PoE
14. Current (MFZ On/Off): 24 VAC: 590 mA
    12 VDC: 550 mA

    PoE: Class 2
15. Power Consumption (MFZ Off/On): 12 VDC: 6.5 W, 24VAC: 7.5W, POE: 6.4W
16. Connectors: Power: 24 VAC/12 VDC screw terminal
    PoE/Network: RJ-45

    Video/Data: RJ-45
    Alarm In/Out: terminal block
    Audio In /Out: jack (audio out requires external amplifier)
    Slot for SD card
    Composite output provided for installation (NTSC/PAL selectable)
17. Radio Frequency

    Emission Rating: FCC Class A; CE
18. Operating Temperature: -40° to 122°F (-40° to 50°C)
19. Humidity: <90% relative, non-condensing
20. Construction: Plastic Dome: clear polycarbonate tamperproof screws, die-cast aluminum base
21. Dimensions: Height: 4.3 in. (110 mm), Diameter: 6.06 in. (154 mm)
    Dome Diameter: 4.3 in. (110 mm)
22. Weight: Approximately 2.5 lb (1.1 kg)

B. Acceptable Manufacturers

1. Vicon V920D-39MD-IP, typical of interior and exterior cameras. Provide required mounting supports and hardware. Provide quantity shown on plans. Provide software license as required.
2. Vicon

2.4 FIXED VIDEO SURVEILLANCE CAMERA 1.3 MP

A. Specifications

1.	Imaging Device:	1/2.8-inch CMOS sensor
2.	Max. Resolution:	720p
3.	Shutter Speed:	¼ - 1/20,000
4.	Signal-to-Noise Ratio:	>50 dB
5.	Tilt and Horizontal Adjustment:	3-axis adjustment: pan (360°), tilt (90°) and roll (lens may be rotated on its axis 360°)
6.	Electronic Zoom:	1 ~ 10X (client software)
7.	Lens Adjustment:	Focus and zoom adjustment; fixed lens, DC iris/P-iris motorized lens, iris automatically adjusts to zoom condition
8.	Focal Length:	3-9 mm
9.	Horizontal Field of View:	3-9 mm: 93°- 31.7°
10.	Input Voltage:	24 VAC, 12 VDC or PoE
11.	Current (MFZ On/Off):	24 VAC: 590 mA 12 VDC: 550 mA PoE: Class 2
12.	Power Consumption (MFZ Off/On):	12 VDC: 6.5 W, 24VAC: 7.5W, POE: 6.4W
13.	Connectors:	Power: 24 VAC/12 VDC screw terminal PoE/Network: RJ-45 Video/Data: RJ-45 Alarm In/Out: terminal block Audio In /Out: jack (audio out requires external amplifier) Slot for SD card Composite output provided for installation (NTSC/PAL selectable)
14.	Radio Frequency	
	Emission Rating:	FCC Class A; CE
15.	Operating Temperature:	-40° to 122°F (-40° to 50°C)
16.	Humidity:	<90% relative, non-condensing
17.	Construction:	Plastic Dome: clear polycarbonate tamperproof screws, die-cast aluminum base
18.	Dimensions:	Height: 4.3 in. (110 mm), Diameter: 6.06 in. (154 mm) Dome Diameter: 4.3 in. (110 mm)
19.	Weight:	Approximately 2.5 lb (1.1 kg)

B. Acceptable Manufacturers

1. Vicon V921D-39MD-IP, typical of interior cameras. Provide required mounting supports and hardware. Provide quantity shown on plans. Provide software license as required.
2. Vicon

2.5 MONITOR

A. Specifications

1.	LCD Panel:	LED
2.	Screen Size:	24”
3.	Pixel Pitch:	.248” x .248”
4.	Resolution:	1920x1080 pixels
5.	Aspect Ratio:	16:9
6.	Display Colors:	16.7 million colors
7.	Response Times:	5 ms
8.	Backlight:	LED
9.	Luminance:	250 cd/m²
10.	Contrast:	1000:1
11.	Viewing angle:	170 deg/160 deg
12.	Digital Input:	DVI-D, HDMI, VGA

B. Acceptable Manufacturer

1. Vicon VM-6215 LED-1
2. Approved Equal

2.5 MONITOR MOUTING ARM

A. Specifications

1. Accommodates CCTV Monitor size.
2. Accommodates CCTV Monitor weight.
3. Extends 16” (minimum)
4. Equipped with +/- 15 degree (minimum) tilt capabilities.

B. Acceptable Manufacturers

1. CorLiving A-202-MLM
2. Approved Equal

2.6 VIDEO MANAGEMENT SYSTEM

A. Specifications

1. Enterprise-Class Client/Server based video management system.
2. System-wide user management, alarm handling, health monitoring, and configuration.
3. Full virtual matrix capabilities, including analog monitor support and CCTV keyboard control

4. Superior alarm handling with alarm priorities and selectable user group distribution.
5. Provide load balanced storage across multiple arrays with recording failover in the event of an array malfunction.
6. Workstations must be capable of displaying live video independent of management server in the event the management server is unavailable.
7. Advances user interface concepts for effective and efficient operation
8. Supports all ONVIF Profile S devices,H.264, MPEG-4 encoders, decoders, IP cameras, IP auto domes.
9. Enterprise support for multiple management servers.
10. Video decoder support.
11. Support for camera call up. No scripting shall be required for interfacing between the VMS and PLC system.
12. VMS must have capability to monitor all network devices using SNMP.
13. Software Maintenance Agreements shall not be *required* by the manufacturer but rather offered.
14. Minimum Client Workstation PC Requirements
    a. HP Z420 Series
15. Minimum Central Server PC Requirements
    a. HP R8 Series

B. Acceptable Manufacturer

1. Vicon Viconnet Version 7. Provide expansion modules as required for support of viewing stations identified on plans, as well as modules required for video recording, system configuration and management, and system monitoring. Provide software license as required. Provide Software Maintenance as required.
2. Vicon

2.7 VIDEO MANAGEMENT SERVER

A. Specifications

1. 1RU Rack Mount
2. Windows Server 2012 standard, 64 bit OS
3. Intel Xeon E5-2603 Processor 1.8 GHz 4C 10M 6.4GT Hyper T 80 Watt
4. 16 GB 1RX4 RDIMM DDR3 1600
5. (4) 1TB 3.5” SATA enterprise hard drive 7.2K, 6 GB/s Hot Swap
6. Slim SATA DVD Optical
7. Mouse
8. Keyboard
9. Single monitor video card
10. Intel Pro/1000 PT Dual Port 1GB Ethernet Adapter
11. Dual 800 Watt Redundant PS
12. 3 Year onsite service

B. Acceptable Manufactures

1. Lenovo Thinkserver RD530
2. HP
3. Dell
4. Vicon

2.8 VIDEO STORAGE ARRAY

A. Specifications

1. The IP Video Storage System shall be an embedded, all-in-one IP Video Storage subsystem that provides “plug-and-play” iSCSI-based recording and management.
2. The IP Video Storage Array shall be a 2 U rack-mount chassis with eight (9) hot swappable, 3 Gbps SATA-II hard disk drives with RAID-5 protection..
3. The IP Video Storage Array shall be equipped with two (2) redundant 1 GbE network interfaces.
4. The IP Video Storage System shall contain a Disk-on-Module (DoM) solid-state memory module that contains a non-volatile backup image of all system software which can be used to initiate a full system recovery in the event the system partition is lost or corrupted.
5. The IP Video Storage Array shall be installed with the Microsoft Windows Storage Server 2012 operating system.
6. The IP Video Storage Array shall support the following:
   a. SNMP
   b. Remote Desktop
   c. HTTP monitoring
7. The IP Video Storage Array processor shall include ECC Unbuffered memory protection.
8. The storage array is designed so that all data is protected even if one hard disk drive completely fails.
9. Each 2TB disk drive in the storage array is hot swappable, so that a failed drive can be easily replaced without cycling power or interrupting recording or data retrieval.

B. Acceptable Manufacturer

1. Vicon NVR-Shadow digital video storage array. Provide a quantity of digital storage arrays to support the number of cameras shown on the plans.
2. Vicon

2.9 SECURITY NETWORK SWITCH

A. Specifications

1. (24) Ethernet 10/100/1000 ports, (4) shared SFB/GBIC 1000ports
2. Switching fabric: 68 Gbps
3. Forwarding rate: 50 mpps
4. Memory: 64 MB DRAM & 32 MB flash
5. MAC addresses: Up to 10,000
6. IGMP groups/Multicast routes: Up to 255
7. Configurable MTU: 10000 Bytes with jumbo frames
8. 1000BaseT ports: RJ-45 connectors
9. Stacking: Minimum 16 switches
10. Stacking Backplane: 10gbps
11. Input power: 100 – 240 VAC auto-ranging
12. Indicators:
    a. Port link integrity
    b. Port disabled
    c. Port speed
    d. Port full duplex

e. System status
f. System RPS
g. System link status
h. System link duplex
i. System link speed

13.	Operating Temp:	0 to 50 degrees C
14.	Operating relative humidity:	10 – 85% non-condensing
15.	Power consumption:	40 Watts max (120VAC)
16.	Certifications:	UL listed, FCC part 15 Class A
17.	POE:	IEEE 802.3af on all ports simultaneously

B. Acceptable Manufacturers

1. IFS NS3601-24P/4S
2. Cisco
3. HP

PART 3 COMPLETION

3.6 INSTALLATION

A. All system programming shall be done at the Trade Contractor's facility prior to installation on site.

B. Qualified personnel shall install the System in strict compliance with manufacturer's instructions.

C. Wiring shall be color coded, uniform and in accordance with national electric codes and manufacturer's instructions.

D. Equipment shall be firmly secured, plumb and level.

E. All cable runs to the main equipment rack shall be tagged and identified.

F. Coordinate all work with General Contractor other Trades Contractors.

G. Grounding of cables and peripheral equipment shall be installed per manufacturer's direction to eliminate noise induction and achieve optimum system performance.

H. Install and configure Security local area network as required for control and communication between system devices. When required, provide necessary coordination, termination, and programming associated with integrating Security local area network with facility administrative network.

I. Equipment cabinets shall be assembled in the Security Electronics Contractor's shop prior to delivery to the job site.

J. Cameras shall be aimed and focused in the presence and at the direction of the Owner.

3.7 SOFTWARE SUPPORT

A. Refer to Section 284620 for software support and programming requirements.

3.8 SYSTEM INITIALIZING AND PROGRAMMING

A. All programming shall occur in the Security Electronics Contractor's shop prior to installation on site.

B. The System shall be turned on and adjustment made to meet requirements of the specification and on-site conditions.

C. The System shall be programmed to function as specified.

D. Any special programming shall be documented and a written copy given to the Owner/User.

E. Coordinate integration of other electronic systems as called for in the contract documents.

3.9 FINAL ADJUSMENTS

A. Before obtaining permission from the Owner to schedule the acceptance test, provide written certification to the Architect Engineer that the complete system has been calibrated, tested and is ready to begin the 14 day burn-in period and acceptance testing.

B. Acceptance tests

1. Conduct final acceptance test after a period of not less than 14 consecutive normal working days of trouble free operation, on the complete and operational video surveillance system to demonstrate that it is functioning in accordance with all requirements of this specification. During this burn-in period, the video surveillance system shall operate continuously for 24 hours per day. Demonstrate the correct operation of all monitored and controlled points as well as the operation and capabilities of all sequences during the acceptance test.
2. Should retesting be deemed necessary by the Architect Engineer due to malfunction or inappropriate construction methods, the Trade Contractor shall be fully responsible for additional cost incurred for retesting, including the Architect Engineer and Trade Contractor's time.
3. Final system acceptance shall be based upon the completion of the following items:

    a. Completion of the installation of all hardware items. Complete operation of the system, with no failures during the entire acceptance test period.
    b. Satisfactory completion of the as-builts, operating, and maintenance manuals.
    c. Satisfactory completion of all training programs.
    d. Upon final acceptance, the warranty period shall begin.

3.10 SYSTEM TEST PROCEDURES

A. The System shall be completely tested to assure that all components are hooked up and in working order. Inspect system for defects. Correct all causes of such defects. If the cause is outside of the scope of the Division 28 series scope of work, promptly notify the Architect Engineer in writing, indicating the cause of the defect and suggested corrective procedures.

B. The Security Electronics Contractor is to verify the system is communicating with all controlled devices.

C. Test 120VAC power equipment and hardware internal to all equipment racks. Test all conductors for shorts, opens, and polarity.

D. Verify operation of UPS power conditioning and backup. Test by removing utility power from system.

E. Verify all field wiring is free of defects prior to termination of head end electronics.

F. After termination of head end electronics, fully test operation of system including activation of field devices, alarm initiation from field devices.

G. Provide written documentation showing all test results.

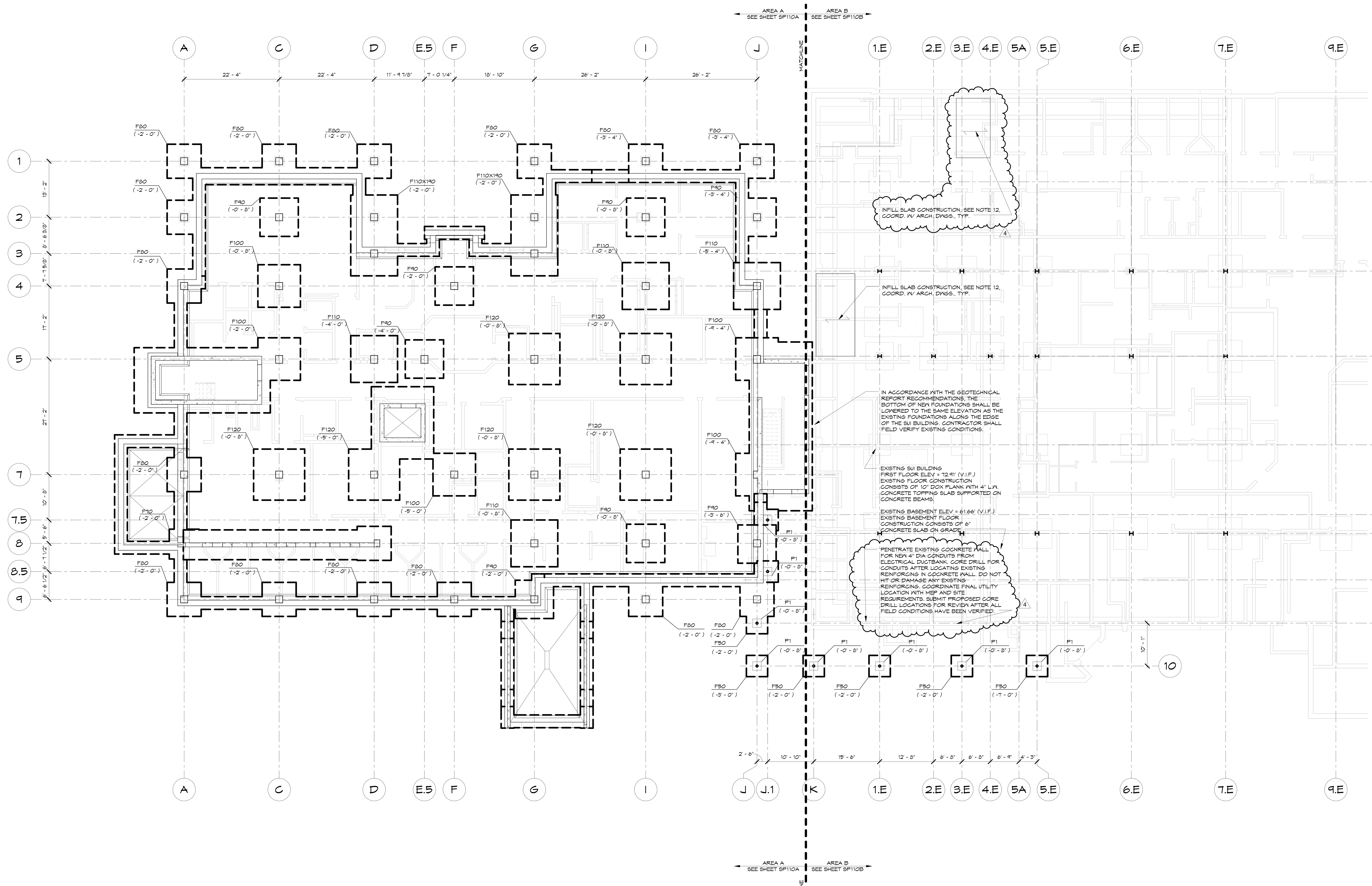
H. The System shall be final tested in the presence of the Architect Engineer. Trade Contractor is to provide all required testing equipment.

3.11 TRAINING

A. Contractor is responsible for providing operational and maintenance training applicable to the entire control system. Training is to include, but not be limited to the following-

1. Review all O+M manuals with Owner representatives present for training.
2. Perform a tour of the entire facility. During the tour the trainer shall point out all surveillance equipment and provide a brief description of its purpose and use. This is to include but not be limited to cameras, monitors, control stations, recording devices, and devices controlled.

END OF SECTION 282313



N

1 FOUNDATION / FIRST FLOOR FRAMING PLAN - OVERALL
3/32" = 1'-0"

FOUNDATION/FIRST FLOOR FRAMING PLAN NOTES:

1. ELEVATION TOP OF FINISHED FIRST FLOOR SLAB EQUALS ELEVATION OF THE ADJACENT SUI BUILDING EXISTING FIRST FLOOR, WHICH IS THE REFERENCE DATUM ELEVATION. THIS ELEVATION IS ASSUMED TO BE 73.41' WHICH SHALL BE FIELD VERIFIED.
2. ALL ELEVATIONS NOTED ON PLAN ARE WITH RESPECT TO REFERENCE DATUM ELEVATION.
3. ALL FOOTINGS SHALL BE SPREAD FOOTINGS WITH A NET ALLOWABLE BEARING CAPACITY OF 4000 PSF ON A MODIFIED SUB GRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND RECOMMENDATIONS.
4. ELEVATIONS NOTED THUS (-0'-0") ARE TOP OF FOOTING ELEVATIONS.
5. ELEVATION TOP OF ALL INTERIOR FOOTINGS SHALL BE (-0-8") UNLESS NOTED OTHERWISE IN PLAN.
6. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE MINIMUM 2'-6" BELOW FINISHED GRADE.
7. FLOOR SLAB SHALL BE 5" THICK CONCRETE SLAB ON GRADE REINFORCED WITH 6 X 6 W2.1 X W2.1 WELDED WIRE REINFORCEMENT AND PLACED ON VAPOR BARRIER OVER 6" GRANULAR BASE AND A PROPERLY PROOF ROLLED SUB BASE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND RECOMMENDATIONS. PROVIDE 2" LIGHT WEIGHT NON-STRUCTURAL CONCRETE TOPPING SLAB REINFORCED WITH 6X6-W1.4XW1.4 W.W.R.; COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SLOPING OR RECESSES IN NON-STRUCTURAL CONCRETE TOPPING SLAB.
8. SEE ARCHITECTURAL AND/OR MECHANICAL DRAWINGS FOR:
   A. LOCATION OF FLOOR DRAINS AND SLOPE OF FINISHED FLOOR.
   B. LOCATION AND EXTENT OF SLAB DEPRESSIONS AND RAMPS NOT SHOWN.
   C. SIZE AND LOCATION OF SLAB OPENINGS AND/OR MECHANICAL SLEEVES. SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT AROUND SLAB OPENINGS.
   D. EQUIPMENT PADS AND SUPPORTS.
   E. BRICK LEDGE ELEVATION AND EXTENT.
   F. SIZE AND LOCATION OF NON-BEARING MASONRY PARTITIONS. SEE TYPICAL DETAILS FOR THICKENED SLAB AT MASONRY PARTITIONS.
9. MINIMUM SLAB ON GRADE THICKNESS OF 5 INCHES SHALL BE MAINTAINED AT ALL LOCATIONS. THIS INCLUDES BUT IS NOT LIMITED TO LOCATIONS OF DRAINS, DEPRESSIONS, FLOOR BOXES, AND EMBEDDED ITEMS PER M/E/P AND ARCHITECTURAL DRAWINGS.
10. WORK THIS DRAWING WITH:
   A. GENERAL NOTES: SG0XX SERIES
   B. TYPICAL FOUNDATION NOTES, DETAILS AND SECTIONS: S4XX SERIES
   C. COLUMN SCHEDULE: S6XX SERIES
   D. CONCRETE SHEAR WALLS: S3XX SERIES
11. "SW-#" ON PLAN INDICATES A CONCRETE SHEAR WALL. COORDINATE WITH TYPICAL DETAILS AND CONCRETE SHEAR WALL ELEVATIONS. REFER TO ARCHITECTURAL DRAWING FOR EXTENT OF NEW CONSTRUCTION.
12. INFILL SLAB CONSTRUCTION SHALL BE 3-1/4" LIGHT WEIGHT CONCRETE ON 3"X20 GAUGE COMPOSITE METAL DECK (6-1/4" TOTAL THICKNESS) REINFORCE SLAB WITH 6x6-W1.4xW1.4 W.W.R. COORD. WITH DEMO DRAWINGS AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO FABRICATION OF MATERIALS. SUPPORT DECK WITH CONT. L6X6X3/8 W/ 1/2" DIA X 4" EMBED EXP ANCHORS AT 2'-0" O.C. MAX. 4
13. EXTERIOR 5" THICK CONCRETE SLAB ON GRADE REINFORCED WITH 6x6-W2.1xW2.1 WELDED WIRE REINFORCEMENT AND PLACED ON VAPOR BARRIER OVER 6" GRANULAR BASE AND A PROPERLY PROOF ROLLED SUB BASE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND RECOMMENDATIONS ALL CONCRETE SHALL CONTAIN A CORROSION INHIBITOR.
14. FLOOR SLAB SHALL BE 8" THICK NORMAL WEIGHT ONE-WAY CONVENTIONAL CAST-IN-PLACE CONCRETE SLAB. REINFORCE WITH A CONTINUOUS MAT OF #6@12" O.C. CENTER EACH WAY.
15. ALL DIMENSIONS ADJACENT TO EXISTING CONSTRUCTION SHALL BE VERIFIED.
16. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
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11350 McCORMICK ROAD
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TERRALOGOS ECO ARCHITECTURE, PC

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

DESIGN DEVELOPMENT

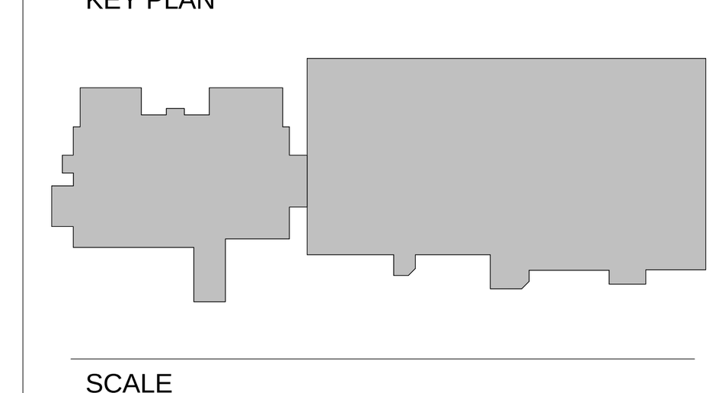
SEAL

STATE OF MARYLAND
Hope Hughes Furrer
No. 10976
PROFESSIONAL ENGINEER

[illegible]

"PROFESSIONAL CERTIFICATION. I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 10976, EXPIRATION DATE 06-09-16."

KEY PLAN



SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

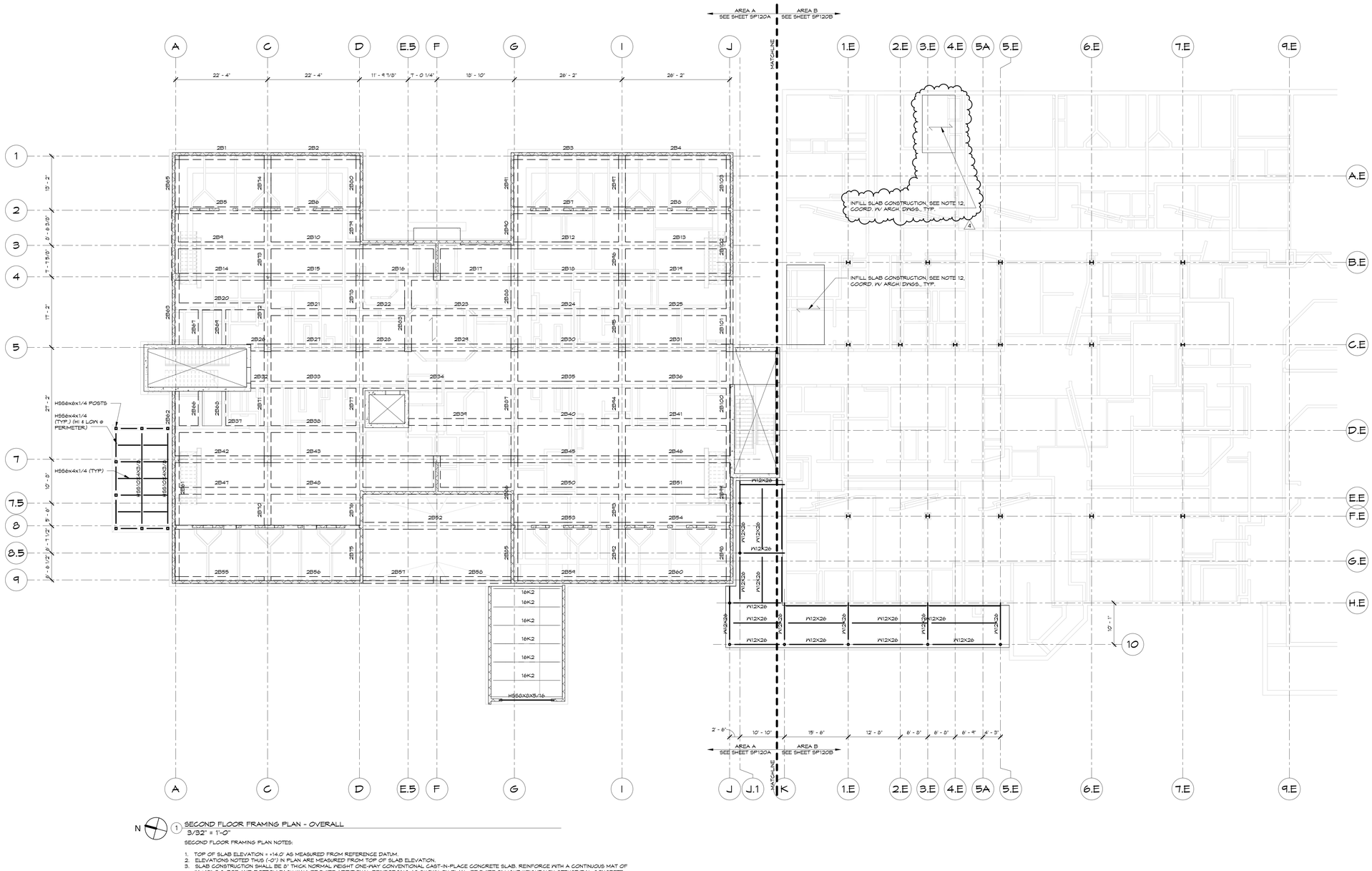
TITLE

FOUNDATION / FIRST FLOOR FRAMING PLAN - OVERALL

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

SO110

SHEET NO.



N

1 SECOND FLOOR FRAMING PLAN - OVERALL
3/32" = 1'-0"

SECOND FLOOR FRAMING PLAN NOTES:

1. TOP OF SLAB ELEVATION = +14.0' AS MEASURED FROM REFERENCE DATUM.
2. ELEVATIONS NOTED THUS (-0') IN PLAN ARE MEASURED FROM TOP OF SLAB ELEVATION.
3. SLAB CONSTRUCTION SHALL BE 5" THICK NORMAL WEIGHT ONE-WAY CONVENTIONAL CAST-IN-PLACE CONCRETE SLAB. REINFORCE WITH A CONTINUOUS MAT OF #6@12" O.C. TOP AND BOTTOM EACH WAY. PROVIDE ADDITIONAL REINFORCING AS SHOWN ON PLAN. PROVIDE 2" LIGHT WEIGHT NON-STRUCTURAL CONCRETE TOPPING SLAB REINFORCED WITH 6X6-W1.4XW1.4 MWR.; COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SLOPING OR RECESSES IN NON-STRUCTURAL CONCRETE TOPPING SLAB.
4. ROOF SHALL BE 1-1/2"X20 GA GALVANIZED TYPE 'B' METAL DECK, UNLESS NOTED OTHERWISE.
5. SEE ARCHITECTURAL AND/OR MECHANICAL DRAWINGS FOR:
   A. LOCATION OF FLOOR DRAINS AND SLOPE OF FINISHED FLOOR.
   B. LOCATION AND EXTENT OF SLAB DEPRESSIONS, SLOPES, RECESSES AND RAMPS NOT SHOWN.
   C. SIZE AND LOCATION OF SLAB OPENINGS AND/OR MECHANICAL SLEEVES. PROVIDE ADDITIONAL FRAMING IN ACCORDANCE WITH TYPICAL FLOOR OPENING DETAIL.
   D. EQUIPMENT PADS AND/OR SUPPORTS.
6. WORK THIS DRAWING WITH:
   A. GENERAL NOTES: SGXXX SERIES
   B. SUPERSTRUCTURE SECTIONS AND DETAILS: S5XX SERIES
   C. CONCRETE SHEAR WALLS AND LATERAL BRACING: S3XX SERIES
   D. COLUMN SCHEDULE: S6XX SERIES
7. COLUMNS NOTED THUS (A) IN PLAN ARE ABOVE ONLY.
8. COLUMNS NOTED THUS (B) IN PLAN ARE BELOW ONLY.
9. FILLER BEAM LAYOUT IS BASED ON EQUAL SPACING BETWEEN COLUMN LINES, UNLESS NOTED OTHERWISE. COORDINATE WITH TYPICAL DETAILS AROUND OPENINGS.
10. "SW-#" ON PLAN INDICATES A CONCRETE SHEAR WALL. COORDINATE WITH TYPICAL DETAILS AND CONCRETE SHEAR WALL ELEVATIONS.
11. REFER TO ARCHITECTURAL DRAWING FOR EXTENT OF NEW CONSTRUCTION.
12. ALL DIMENSIONS ADJACENT TO EXISTING CONSTRUCTION SHALL BE VERIFIED.
13. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW.
14. DUCT AND PIPE PENETRATIONS AS REQUIRED PER MEP DRAWINGS. FRAME SLAB PENETRATIONS PER TYPICAL DETAIL 7 # 6/S501, CONTRACTOR SHALL COORD. & SUBMIT FINAL PENETRATION LAYOUT FOR REVIEW AND APPROVAL.
15. INFILL SLAB CONSTRUCTION SHALL BE 3-1/4" LIGHT WEIGHT CONCRETE ON 3"X20 GAUGE COMPOSITE METAL DECK (6-1/4" TOTAL THICKNESS) REINFORCED WITH 6X6-W1.4XW1.4 WWR AT CENTER OF SLAB. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF INFILL SLAB CONSTRUCTION. SEE SHOP DRAWING REQUIREMENTS UNDER SECTION 05210 FOR SUBMISSION OF SHOP DRAWINGS FOR FABRICATION OF MATERIALS. SUPPORT DECK WITH 4 CONT. L6X6X3/8 W/ 1/2" DIA X 4" EMBED EMP ANCHORS AT 2'-0" O.C. MAX.

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KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

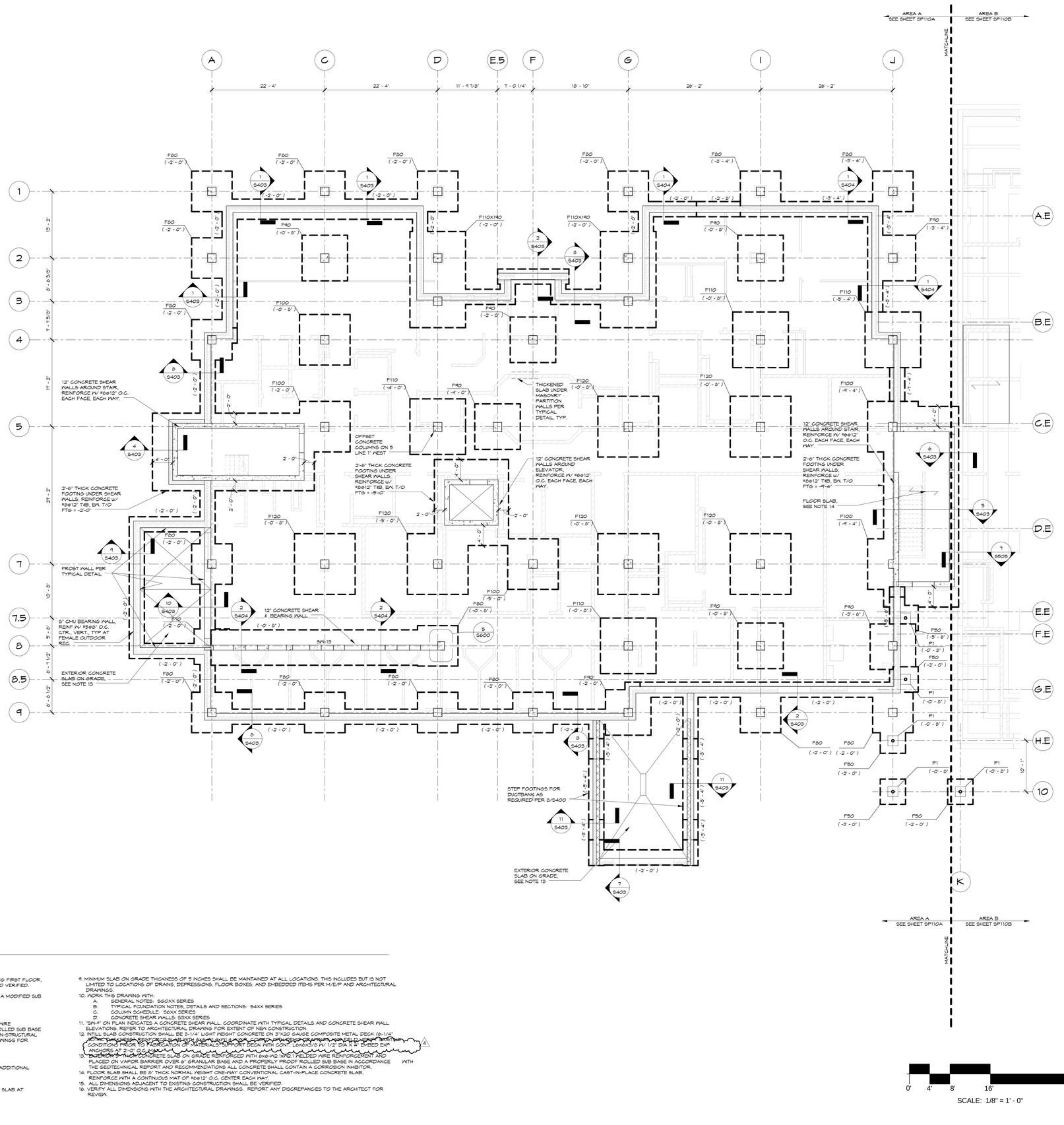
TITLE

SECOND FLOOR FRAMING PLAN - OVERALL

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

SO120

SHEET NO.



N

1 FOUNDATION / FIRST FLOOR FRAMING PLAN AREA A

1/8" = 1'-0"

FOUNDATION/FIRST FLOOR FRAMING PLAN NOTES:

1. ELEVATION TOP OF FINISHED FIRST FLOOR SLAB EQUALS ELEVATION OF THE ADJACENT SUI BUILDING EXISTING FIRST FLOOR, WHICH IS THE REFERENCE DATUM ELEVATION. THIS ELEVATION IS ASSUMED TO BE 73.41' WHICH SHALL BE FIELD VERIFIED.
2. ALL ELEVATIONS NOTED ON PLAN ARE WITH RESPECT TO REFERENCE DATUM ELEVATION.
3. ALL FOOTINGS SHALL BE SPREAD FOOTINGS WITH A NET ALLOWABLE BEARING CAPACITY OF 4000 PSF ON A MODIFIED SUB GRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND RECOMMENDATIONS.
4. ELEVATIONS NOTED THUS (-0'-0") ARE TOP OF FOOTING ELEVATIONS.
5. ELEVATION TOP OF ALL INTERIOR FOOTINGS SHALL BE (-0'-0") UNLESS NOTED OTHERWISE IN PLAN.
6. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE MINIMUM 2'-6" BELOW FINISHED GRADE.
7. FLOOR SLAB SHALL BE 5" THICK CONCRETE SLAB ON GRADE REINFORCED WITH 6 X 6 W2.1 X W2.1 WELDED WIRE REINFORCEMENT AND PLACED ON VAPOR BARRIER OVER 6" GRANULAR BASE AND A PROPERLY PROOF ROLLED SUB BASE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND RECOMMENDATIONS. PROVIDE 2" LIGHT WEIGHT NON-STRUCTURAL CONCRETE TOPPING SLAB REINFORCED WITH 6X6-W1.4XW1.4 FIVR ; COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SLOPING OR RECESSES IN NON-STRUCTURAL CONCRETE TOPPING SLAB.
8. SEE ARCHITECTURAL AND/OR MECHANICAL DRAWINGS FOR:
   A. LOCATION OF FLOOR DRAINS AND SLOPE OF FINISHED FLOOR.
   B. LOCATION AND EXTENT OF SLAB DEPRESSIONS AND RAMPS NOT SHOWN.
   C. SIZE AND LOCATION OF SLAB OPENINGS AND/OR MECHANICAL SLEEVES. SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT AROUND SLAB OPENINGS.
   D. EQUIPMENT PADS AND SUPPORTS.
   E. BRICK LEDGE ELEVATION AND EXTENT.
   F. SIZE AND LOCATION OF NON-BEARING MASONRY PARTITIONS. SEE TYPICAL DETAILS FOR THICKENED SLAB AT MASONRY PARTITIONS.
9. MINIMUM SLAB ON GRADE THICKNESS OF 5 INCHES SHALL BE MAINTAINED AT ALL LOCATIONS. THIS INCLUDES BUT IS NOT LIMITED TO LOCATIONS OF DRAINS, DEPRESSIONS, FLOOR BOXES, AND EMBEDDED ITEMS PER M/E/P AND ARCHITECTURAL DRAWINGS.
10. WORK THIS DRAWING WITH:
    A. GENERAL NOTES: S6OXX SERIES
    B. TYPICAL FOUNDATION NOTES, DETAILS AND SECTIONS: S4XX SERIES
    C. COLUMN SCHEDULE: S6XX SERIES
    D. CONCRETE SHEAR WALLS: S3XX SERIES
11. "SW#" ON PLAN INDICATES A CONCRETE SHEAR WALL. COORDINATE WITH TYPICAL DETAILS AND CONCRETE SHEAR WALL ELEVATIONS. REFER TO ARCHITECTURAL DRAWING FOR EXTENT OF NEW CONSTRUCTION.
12. INFILL SLAB CONSTRUCTION SHALL BE 3-1/4" LIGHT WEIGHT CONCRETE ON 3"X20 GAUGE COMPOSITE METAL DECK (6-1/4" TOTAL THICKNESS) REINFORCED WITH 6X6-W1.4XW1.4 WWR. CONFIRM EXISTING CONDITIONS PRIOR TO FABRICATION OF MATERIALS. REPORT DECK WITH CONT LEANS 6 IN 1/2" DIA X 4" EMBED EXP ANCHORS AT 2'-0" O.C. 4
13. SLAB ON GRADE: CONCRETE SLAB ON GRADE REINFORCED WITH 6X6-W2.1XW2.1 WELDED WIRE REINFORCEMENT AND PLACED ON VAPOR BARRIER OVER 6" GRANULAR BASE AND A PROPERLY PROOF ROLLED SUB BASE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND RECOMMENDATIONS ALL CONCRETE SHALL CONTAIN A CORROSION INHIBITOR.
14. FLOOR SLAB SHALL BE 5" THICK NORMAL WEIGHT ONE-WAY CONVENTIONAL CAST-IN-PLACE CONCRETE SLAB. REINFORCE WITH A CONTINUOUS MAT OF #5@12" O.C. CENTER EACH WAY.
15. ALL DIMENSIONS ADJACENT TO EXISTING CONSTRUCTION SHALL BE VERIFIED.
16. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW.

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.
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TERRALOGOS
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

DESIGN DEVELOPMENT

SEAL

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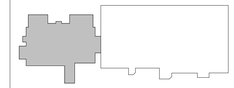
KEY PLAN



SCALE

1/8" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

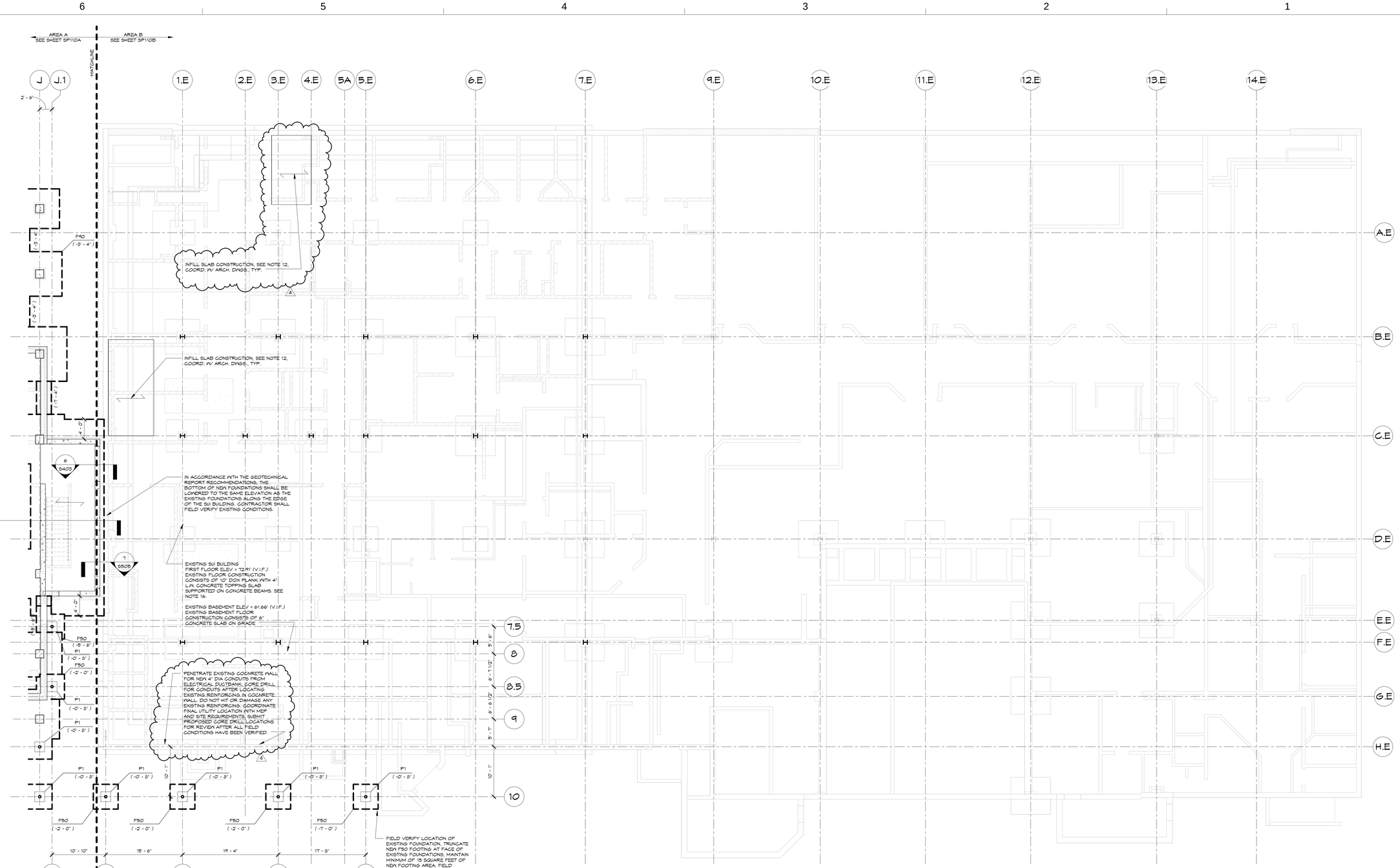
TITLE

FOUNDATION / FIRST FLOOR FRAMING PLAN AREA A

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

SP110A

SHEET NO.



N

1 FOUNDATION / FIRST FLOOR FRAMING PLAN AREA B
1/8" = 1'-0"

FOUNDATION/FIRST FLOOR FRAMING PLAN NOTES:

1. ELEVATION TOP OF FINISHED FIRST FLOOR SLAB EQUALS ELEVATION OF THE ADJACENT SUI BUILDING EXISTING FIRST FLOOR, WHICH IS THE REFERENCE DATUM ELEVATION. THIS ELEVATION IS ASSUMED TO BE 73.41' WHICH SHALL BE FIELD VERIFIED.
2. ALL ELEVATIONS NOTED ON PLAN ARE WITH RESPECT TO REFERENCE DATUM ELEVATION.
3. ALL FOOTINGS SHALL BE SPREAD FOOTINGS WITH A NET ALLOWABLE BEARING CAPACITY OF 4000 PSF ON A MODIFIED SUB GRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND RECOMMENDATIONS.
4. ELEVATIONS NOTED THUS (-0'-0") ARE TOP OF FOOTING ELEVATIONS.
5. ELEVATION TOP OF ALL INTERIOR FOOTINGS SHALL BE (-0'-0") UNLESS NOTED OTHERWISE IN PLAN.
6. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE MINIMUM 2'-6" BELOW FINISHED GRADE.
7. FLOOR SLAB SHALL BE 5" THICK CONCRETE SLAB ON GRADE REINFORCED WITH 6 X 6 (W2.1 X W2.1) WELDED WIRE REINFORCEMENT AND PLACED ON VAPOR BARRIER OVER 6" GRANULAR BASE AND A PROPERLY PROOF ROLLED SUB BASE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND RECOMMENDATIONS. PROVIDE 2" LIGHT WEIGHT NON-STRUCTURAL CONCRETE TOPPING SLAB REINFORCED WITH 6X6-W1.4XW1.4 W.W.R., COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SLOPING OR RECESSES IN NON-STRUCTURAL CONCRETE TOPPING SLAB.
8. SEE ARCHITECTURAL AND/OR MECHANICAL DRAWINGS FOR:
   A. LOCATION OF FLOOR DRAINS AND SLOPE OF FINISHED FLOOR.
   B. LOCATION AND EXTENT OF SLAB DEPRESSIONS AND RAMPS NOT SHOWN.
   C. SIZE AND LOCATION OF SLAB OPENINGS AND/OR MECHANICAL SLEEVES. SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT AROUND SLAB OPENINGS.
   D. EQUIPMENT PADS AND SUPPORTS.
   E. BRICK LEDGE ELEVATION AND EXTENT.
   F. SIZE AND LOCATION OF NON-BEARING MASONRY PARTITIONS. SEE TYPICAL DETAILS FOR THICKENED SLAB AT MASONRY PARTITIONS.
9. MINIMUM SLAB ON GRADE THICKNESS OF 5 INCHES SHALL BE MAINTAINED AT ALL LOCATIONS. THIS INCLUDES BUT IS NOT LIMITED TO LOCATIONS OF DRAINS, DEPRESSIONS, FLOOR BOXES, AND EMBEDDED ITEMS PER M/E/P AND ARCHITECTURAL DRAWINGS.
10. WORK THIS DRAWING WITH:
    A. GENERAL NOTES: S50XX SERIES
    B. TYPICAL FOUNDATION NOTES, DETAILS AND SECTIONS: S4XX SERIES
    C. COLUMN SCHEDULE: S6XX SERIES
    D. CONCRETE SHEAR WALLS: S3XX SERIES
11. "SW-#" ON PLAN INDICATES A CONCRETE SHEAR WALL. COORDINATE WITH TYPICAL DETAILS AND CONCRETE SHEAR WALL ELEVATIONS. REFER TO ARCHITECTURAL DRAWING FOR EXTENT OF NEW CONSTRUCTION.
12. INFILL SLAB CONSTRUCTION SHALL BE 3-1/4" LIGHT WEIGHT CONCRETE ON 3" 20 GA. COMPOSITE METAL DECK W/ WELDED SHEAR STUDS AS REQUIRED BY DESIGN. COORDINATE ANY OPENINGS WITH ARCH. & MEP/FP DRAWINGS AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO FABRICATION OF MATERIALS. SUPPORT DECK WITH CONT. L6X6X5/16 W/ 1/2" DIA X 4" EMBED EXP. ANCHORS AT 2'-0" O.C. MAX.
13. EXTERIOR 6" REINFORCED CONCRETE SLAB ON GRADE REINFORCED WITH 6X6-W2.1XW2.1 WELDED WIRE REINFORCEMENT AND PLACED ON VAPOR BARRIER OVER 6" GRANULAR BASE AND A PROPERLY PROOF ROLLED SUB BASE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND RECOMMENDATIONS ALL CONCRETE SHALL CONTAIN A CORROSION INHIBITOR.
14. ALL DIMENSIONS ADJACENT TO EXISTING CONSTRUCTION SHALL BE VERIFIED.
15. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW.
16. EXISTING SUI BUILDING FIRST FLOOR CONSTRUCTION CONSISTS OF 10" DOX PLANK WITH 4" L/W. CONCRETE TOPPING SLAB SUPPORTED ON CONCRETE BEAMS ACCORDING TO EXISTING DRAWINGS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONSTRUCTION AND NOTIFY THE ARCHITECT IF FIELD CONDITIONS DIFFER THAN CONDITIONS NOTED OR IN THE EXISTING DRAWINGS. EXISTING FRAMING SHALL REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE. COORDINATE WITH ARCHITECTURAL, DETENTION, FOOD SERVICE, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS FOR ANY PENETRATIONS. THE CONTRACTOR SHALL ACCURATELY FIELD LOCATE ALL EXISTING REINFORCING, INCLUDING MILD STEEL, BONDED OR UN-BONDED POST TENSIONED CABLES, AND PROVIDE DIMENSIONED DRAWING INDICATING THE PROPOSED PENETRATIONS AND THE RELATIONSHIP TO ADJACENT EXISTING REINFORCING FOR REVIEW. THE ARCHITECT SHALL REVIEW THE PROPOSED FIELD VERIFIED LOCATIONS AND PROVIDE ANY MODIFICATIONS IF REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO EXISTING REINFORCING SHALL BE CUT OR DAMAGED.

0' 4' 8' 16' 32'
SCALE: 1/8" = 1' - 0"

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KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

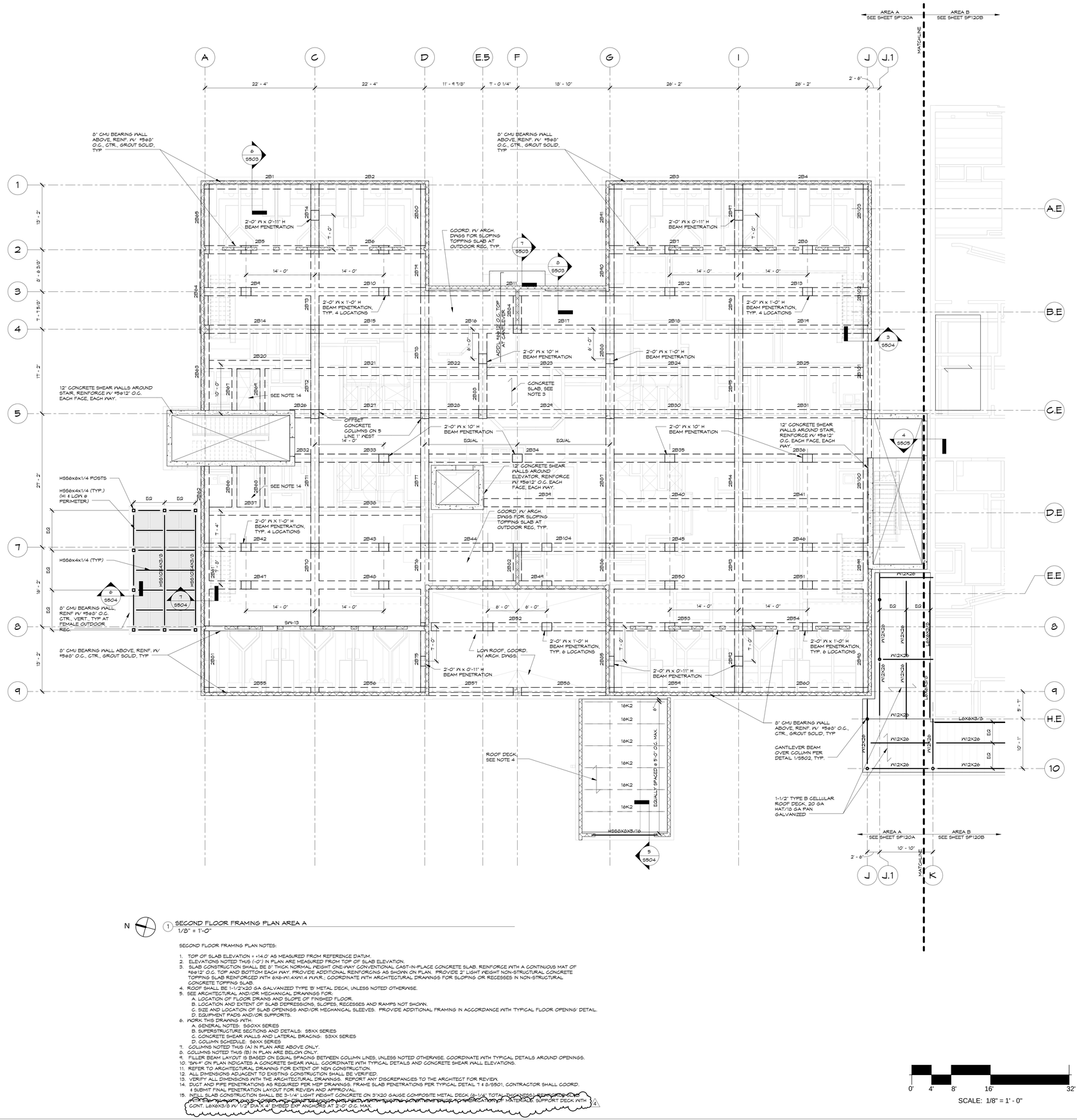
TITLE

FOUNDATION / FIRST FLOOR FRAMING PLAN AREA B

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

SP110B

SHEET NO.



N

1 SECOND FLOOR FRAMING PLAN AREA A
1/8" = 1'-0"

SECOND FLOOR FRAMING PLAN NOTES:

1. TOP OF SLAB ELEVATION = +14.0' AS MEASURED FROM REFERENCE DATUM.
2. ELEVATIONS NOTED THUS (-0') IN PLAN ARE MEASURED FROM TOP OF SLAB ELEVATION.
3. SLAB CONSTRUCTION SHALL BE 5" THICK NORMAL WEIGHT ONE-WAY CONVENTIONAL CAST-IN-PLACE CONCRETE SLAB, REINFORCE WITH A CONTINUOUS MAT OF #5@12" O.C. TOP AND BOTTOM EACH WAY. PROVIDE ADDITIONAL REINFORCING AS SHOWN ON PLAN. PROVIDE 2" LIGHT WEIGHT NON-STRUCTURAL CONCRETE TOPPING SLAB REINFORCED WITH 6X6-W1.4XW1.4 WWR., COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SLOPING OR RECESSES IN NON-STRUCTURAL CONCRETE TOPPING SLAB.
4. ROOF SHALL BE 1-1/2"X20 GA GALVANIZED TYPE 'B' METAL DECK, UNLESS NOTED OTHERWISE.
5. SEE ARCHITECTURAL AND/OR MECHANICAL DRAWINGS FOR:
   A. LOCATION OF FLOOR DRAINS AND SLOPE OF FINISHED FLOOR.
   B. LOCATION AND EXTENT OF SLAB DEPRESSIONS, SLOPES, RECESSES AND RAMPS NOT SHOWN.
   C. SIZE AND LOCATION OF SLAB OPENINGS AND/OR MECHANICAL SLEEVES. PROVIDE ADDITIONAL FRAMING IN ACCORDANCE WITH TYPICAL FLOOR OPENING DETAIL.
   D. EQUIPMENT PADS AND/OR SUPPORTS.
6. WORK THIS DRAWING WITH:
   A. GENERAL NOTES: S50XX SERIES
   B. SUPERSTRUCTURE SECTIONS AND DETAILS: S5XX SERIES
   C. CONCRETE SHEAR WALLS AND LATERAL BRACING: S3XX SERIES
   D. COLUMN SCHEDULE: S6XX SERIES
7. COLUMNS NOTED THUS (A) IN PLAN ARE ABOVE ONLY.
8. COLUMNS NOTED THUS (B) IN PLAN ARE BELOW ONLY.
9. FILLER BEAM LAYOUT IS BASED ON EQUAL SPACING BETWEEN COLUMN LINES, UNLESS NOTED OTHERWISE. COORDINATE WITH TYPICAL DETAILS AROUND OPENINGS.
10. "SW-#" ON PLAN INDICATES A CONCRETE SHEAR WALL. COORDINATE WITH TYPICAL DETAILS AND CONCRETE SHEAR WALL ELEVATIONS.
11. REFER TO ARCHITECTURAL DRAWING FOR EXTENT OF NEW CONSTRUCTION.
12. ALL DIMENSIONS ADJACENT TO EXISTING CONSTRUCTION SHALL BE VERIFIED.
13. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW.
14. DUCT AND PIPE PENETRATIONS AS REQUIRED PER MEP DRAWINGS. FRAME SLAB PENETRATIONS PER TYPICAL DETAIL 1 & 2/S501, CONTRACTOR SHALL COORD. & SUBMIT FINAL PENETRATION LAYOUT FOR REVIEW AND APPROVAL.
15. INFILL SLAB CONSTRUCTION SHALL BE 3-1/4" LIGHT WEIGHT CONCRETE ON 3"X20 GAUGE COMPOSITE METAL DECK (6-1/4" TOTAL THICKNESS) REINFORCED WITH WELDED WIRE FABRIC AT CENTER OF SLAB. PROVIDE SHEAR STUDS AT SHEAR WALLS, SHEAR CONNECTORS BACK-UP FABRICATION OF MATERIALS, SUPPORT DECK WITH CONT. L6X6X3/8 W/ 1/2" DIA X 4" EMBED EXP ANCHORS AT 2'-0" O.C. MAX. 4

0' 4' 8' 16' 32'
SCALE: 1/8" = 1' - 0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS
EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
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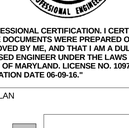
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS
BCDC YOUTH DETENTION CENTER
BALTIMORE MARYLAND
DESIGN DEVELOPMENT

SEAL



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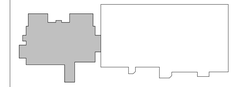
KEY PLAN



SCALE

1/8" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

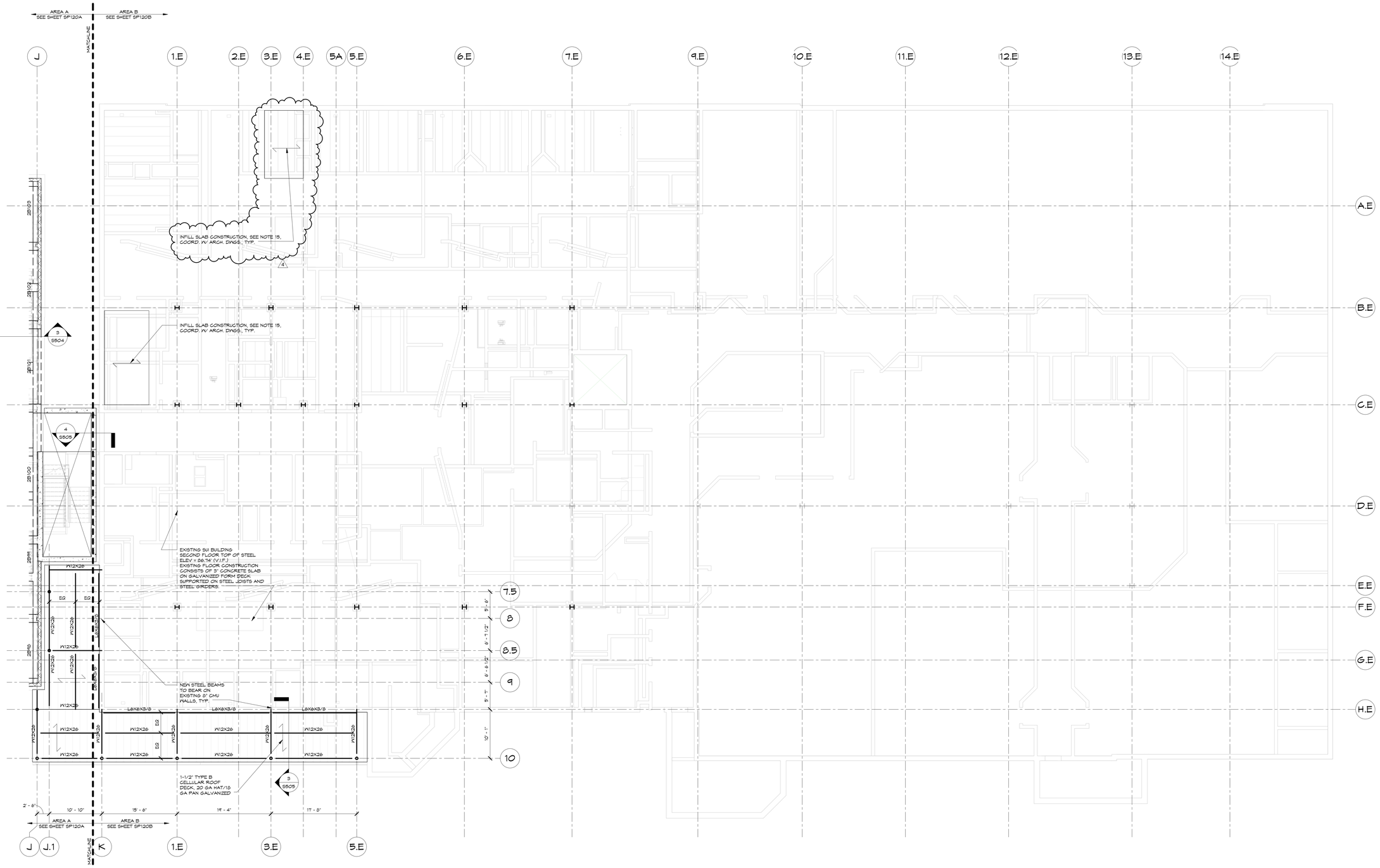
TITLE

SECOND FLOOR FRAMING PLAN AREA A

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

SP120A

SHEET NO.



N

1 SECOND FLOOR FRAMING PLAN AREA B

1/8" = 1'-0"

SECOND FLOOR FRAMING PLAN NOTES:

1. TOP OF SLAB ELEVATION = +14.0' AS MEASURED FROM REFERENCE DATUM.
2. ELEVATIONS NOTED THUS (-0') IN PLAN ARE MEASURED FROM TOP OF SLAB ELEVATION.
3. SLAB CONSTRUCTION SHALL BE 5" THICK NORMAL WEIGHT ONE-WAY CONVENTIONAL CAST-IN-PLACE CONCRETE SLAB. REINFORCE WITH A CONTINUOUS MAT OF #4@12" O.C. TOP AND BOTTOM EACH WAY. PROVIDE ADDITIONAL REINFORCING AS SHOWN ON PLAN. PROVIDE 2" LIGHT WEIGHT NON-STRUCTURAL CONCRETE TOPPING SLAB REINFORCED WITH 6X6-W1.4XW1.4 W.W.R.; COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SLOPING OR RECESSES IN NON-STRUCTURAL CONCRETE TOPPING SLAB.
4. ROOF SHALL BE 1-1/2"X20 GA GALVANIZED TYPE 'B' METAL DECK, UNLESS NOTED OTHERWISE.
5. SEE ARCHITECTURAL AND/OR MECHANICAL DRAWINGS FOR:
   A. LOCATION OF FLOOR DRAINS AND SLOPE OF FINISHED FLOOR.
   B. LOCATION AND EXTENT OF SLAB DEPRESSIONS, SLOPES, RECESSES AND RAMPS NOT SHOWN.
   C. SIZE AND LOCATION OF SLAB OPENINGS AND/OR MECHANICAL SLEEVES. PROVIDE ADDITIONAL FRAMING IN ACCORDANCE WITH TYPICAL FLOOR OPENING DETAIL.
   D. EQUIPMENT PADS AND/OR SUPPORTS.
6. WORK THIS DRAWING WITH:
   A. GENERAL NOTES: S0-0XX SERIES
   B. SUPERSTRUCTURE SECTIONS AND DETAILS: S5XX SERIES
   C. CONCRETE SHEAR WALLS AND LATERAL BRACING: S3XX SERIES
   D. COLUMN SCHEDULE: S6XX SERIES
7. COLUMNS NOTED THUS (A) IN PLAN ARE ABOVE ONLY.
8. COLUMNS NOTED THUS (B) IN PLAN ARE BELOW ONLY.
9. FILLER BEAM LAYOUT IS BASED ON EQUAL SPACING BETWEEN COLUMN LINES, UNLESS NOTED OTHERWISE. COORDINATE WITH TYPICAL DETAILS AROUND OPENINGS.
10. "SW-#" ON PLAN INDICATES A CONCRETE SHEAR WALL. COORDINATE WITH TYPICAL DETAILS AND CONCRETE SHEAR WALL ELEVATIONS.
11. REFER TO ARCHITECTURAL DRAWING FOR EXTENT OF NEW CONSTRUCTION.
12. ALL DIMENSIONS ADJACENT TO EXISTING CONSTRUCTION SHALL BE VERIFIED.
13. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW.
14. DUCT AND PIPE PENETRATIONS AS REQUIRED PER MEP DRAWINGS. FRAME SLAB PENETRATIONS PER TYPICAL DETAIL "1 # S/S501, CONTRACTOR SHALL COORD. & SUBMIT FINAL PENETRATION LAYOUT FOR REVIEW AND APPROVAL.
15. INFILL SLAB CONSTRUCTION SHALL BE 3-1/4" LIGHT WEIGHT CONCRETE ON 3"X20 GAUGE COMPOSITE METAL DECK (6-1/4" TOTAL THICKNESS). REINFORCE SLAB WITH 6X6- W1.4XW1.4 W.W.R. COORD. WITH DEMO DRAWINGS AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO FABRICATION OF MATERIALS. SUPPORT DECK WITH CONT. L6X6X3/8 W/ 1/2" DIA X 4" EMBED EXP ANCHORS AT 2'-0" O.C. MAX.

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

DESIGN DEVELOPMENT

SEAL

STATE OF MARYLAND
Mike Hughes Farmer
No. 10976
PROFESSIONAL ENGINEER

"PROFESSIONAL CERTIFICATION. I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 10976, EXPIRATION DATE 06-09-16."

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

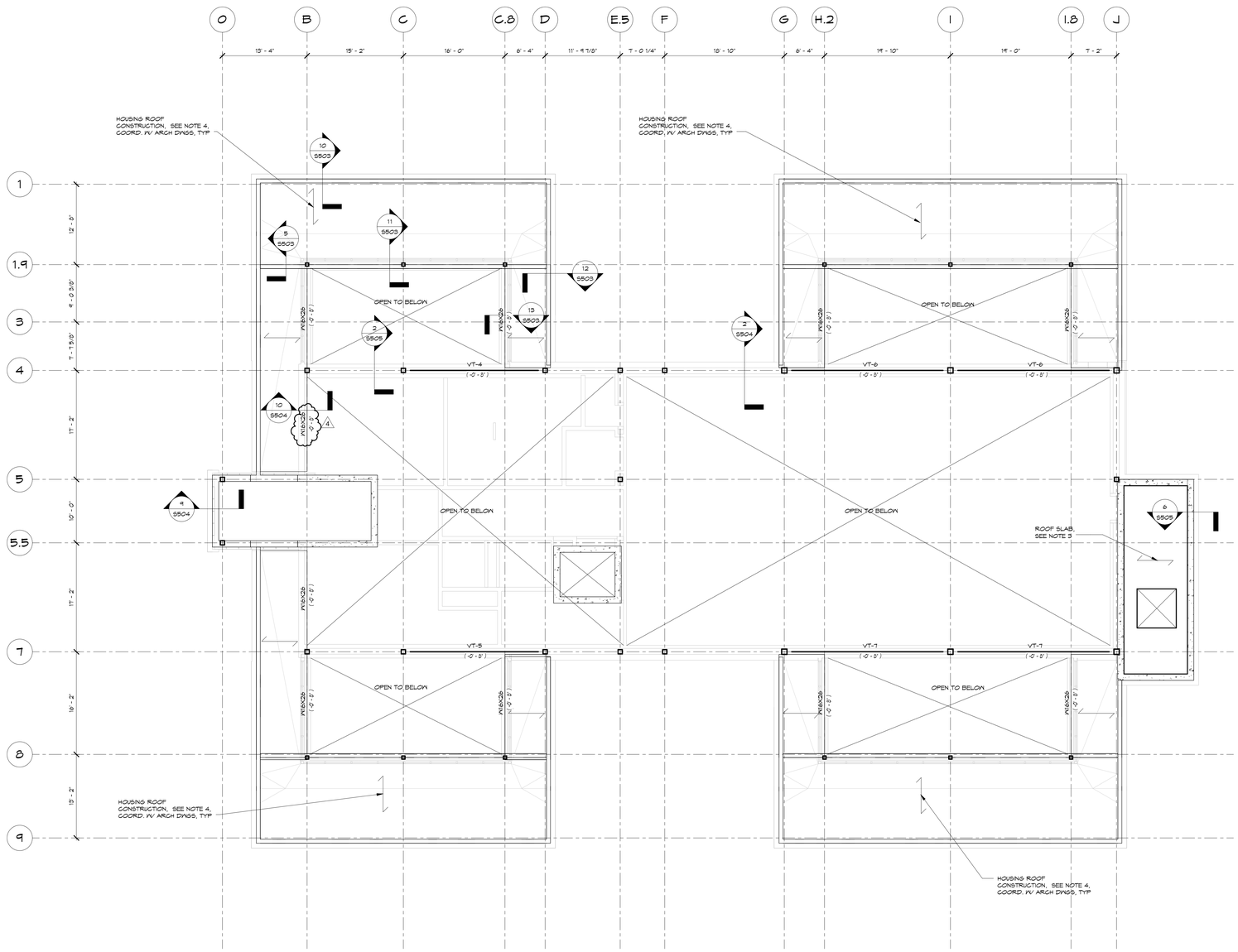
TITLE

SECOND FLOOR FRAMING PLAN AREA B

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

SP120B

SHEET NO.



N

1 ROOF AND CLERESTORY FRAMING PLAN
1/8" = 1'-0"

ROOF & CLERESTORY FRAMING PLAN NOTES:

1. TOP OF STEEL ELEVATION = 436.8'T AS MEASURED FROM REFERENCE DATUM.
2. ELEVATIONS NOTED THUS (-0") IN PLAN ARE MEASURED FROM TOP OF STEEL ELEVATION. SLOPE STEEL UNIFORMLY BETWEEN HIGH AND LOW POINTS.
3. ROOF SHALL BE 5" THICK NORMAL WEIGHT ONE-WAY CONVENTIONAL CAST-IN-PLACE CONCRETE SLAB. REINFORCE WITH A CONTINUOUS MAT OF #5@12" O.C. CENTER EACH WAY.
4. HOUSING ROOF CONSTRUCTION SHALL BE 6-1/2" NORMAL WEIGHT CONCRETE ON 1-1/2" (16 GA HAT / 18 GA PAN) ACOUSTICAL CELLULAR FORM DECK (8" TOTAL THICKNESS). REINFORCE SLAB WITH A CONTINUOUS MAT OF #5@12" O.C. TOP AND BOTTOM EACH WAY. PROVIDE ADDITIONAL REINFORCING AS SHOWN ON PLAN. CONTRACTOR SHALL SHORE DECK DURING CONSTRUCTION AS REQUIRED BY DECK MANUFACTURER.
5. ALL STEEL SHALL BE ASTM A992, UNLESS NOTED OTHERWISE.
6. ROOF JOISTS SHALL BE DESIGNED FOR NET UPLIFT OF 20 PSF.
7. ⊢ IN PLAN INDICATES MOMENT CONNECTION.
8. "SW-#" ON PLAN INDICATES A CONCRETE SHEAR WALL. COORDINATE WITH TYPICAL DETAILS AND CONCRETE SHEAR WALL ELEVATIONS.
9. "VT-#" ON PLAN INDICATES A VERTICAL TRUSS. COORDINATE WITH TYPICAL DETAILS AND VERTICAL TRUSS ELEVATIONS.
10. SEE ARCHITECTURAL AND/OR MECHANICAL DRAWINGS FOR:
    A. LOCATION OF FLOOR DRAINS AND SLOPE OF FINISHED FLOOR.
    B. SIZE AND LOCATION OF SLAB OPENINGS AND/OR MECHANICAL SLEEVES.
11. WORK THIS DRAWING WITH:
    A. GENERAL NOTES: S50XX SERIES
    B. SUPERSTRUCTURE SECTIONS AND DETAILS: S5XX SERIES
    C. LATERAL BRACING: S3XX SERIES
    D. COLUMN SCHEDULE: S6XX SERIES
12. COLUMNS NOTED THUS (A) IN PLAN ARE ABOVE ONLY.
13. COLUMNS NOTED THUS (B) IN PLAN ARE BELOW ONLY.
14. FILLER BEAM/JOIST LAYOUT IS BASED ON EQUAL SPACING BETWEEN COLUMN LINES, UNLESS NOTED OTHERWISE. COORDINATE WITH TYPICAL DETAILS AROUND OPENINGS.
15. REFER TO ARCHITECTURAL DRAWING FOR EXTENT OF NDA CONSTRUCTION.
16. ALL DIMENSIONS ADJACENT TO EXISTING CONSTRUCTION SHALL BE VERIFIED.
17. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW.

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

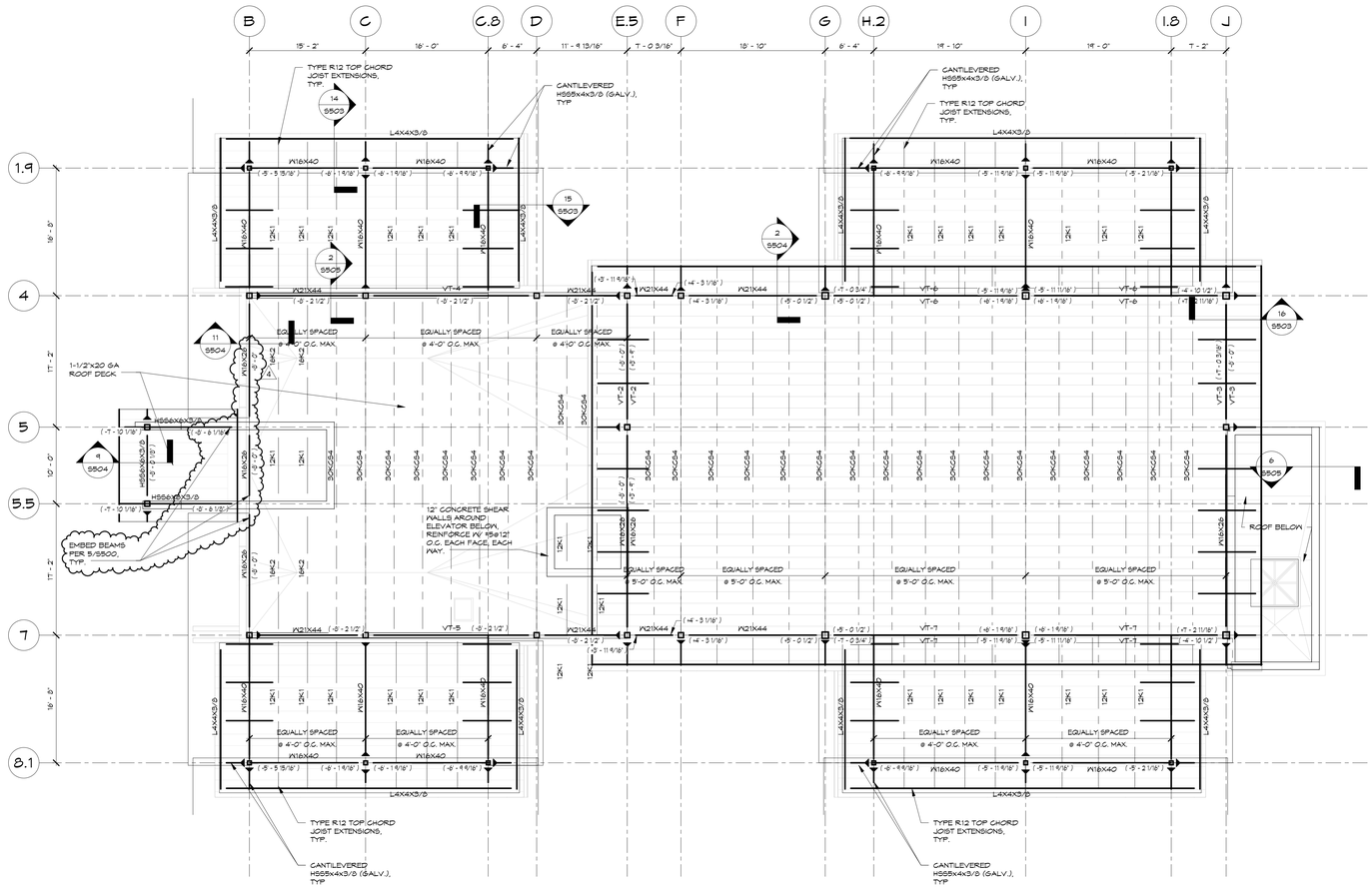
TITLE

ROOF & CLERESTORY FRAMING PLAN

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

SP140A

SHEET NO.



N

1 CLERESTORY ROOF FRAMING PLAN

1/8" = 1'-0"

CLERESTORY ROOF FRAMING PLAN NOTES:

1. TOP OF STEEL ELEVATION = +51.0' AS MEASURED FROM REFERENCE DATUM.
2. ELEVATIONS NOTED THUS (-0") IN PLAN ARE MEASURED FROM TOP OF STEEL ELEVATION. SLOPE STEEL UNIFORMLY BETWEEN HIGH AND LOW POINTS.
3. ROOF SHALL BE 3"X20 GA GALVANIZED TYPE 'A' ACOUSTICAL METAL DECK, UNLESS NOTED OTHERWISE.
4. HOUSING ROOF CONSTRUCTION SHALL BE 3"X20 GA GALVANIZED TYPE 'A' ACOUSTICAL METAL DECK.
5. ALL STEEL SHALL BE ASTM A992, UNLESS NOTED OTHERWISE.
6. ROOF JOISTS SHALL BE DESIGNED FOR NET UPLIFT OF 20 PSF.
7. ▶ IN PLAN INDICATES MOMENT CONNECTION.
8. "VT-#" ON PLAN INDICATES A VERTICAL TRUSS. COORDINATE WITH TYPICAL DETAILS AND VERTICAL TRUSS ELEVATIONS.
9. SEE ARCHITECTURAL AND/OR MECHANICAL DRAWINGS FOR:
   A. LOCATION OF FLOOR DRAINS AND SLOPE OF FINISHED FLOOR.
   B. SIZE AND LOCATION OF SLAB OPENINGS AND/OR MECHANICAL SLEEVES.
10. WORK THIS DRAWING WITH:
    A. GENERAL NOTES: S50XX SERIES
    B. SUPERSTRUCTURE SECTIONS AND DETAILS: S5XX SERIES
    C. LATERAL BRACING: S3XX SERIES
    D. COLUMN SCHEDULE: S6XX SERIES
11. COLUMNS NOTED THUS (B) IN PLAN ARE BELOW ONLY.
12. FILLER BEAM/JOIST LAYOUT IS BASED ON EQUAL SPACING BETWEEN COLUMN LINES, UNLESS NOTED OTHERWISE. COORDINATE WITH TYPICAL DETAILS AROUND OPENINGS.
13. REFER TO ARCHITECTURAL DRAWING FOR EXTENT OF NEW CONSTRUCTION.
14. ALL DIMENSIONS ADJACENT TO EXISTING CONSTRUCTION SHALL BE VERIFIED.
15. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW.
16. COORDINATE JOIST LAYOUT AND BRIDGING WITH DUCT LOCATIONS AND SPECIFICATIONS. PERMANENT BRIDGING AND BRIDGING FOR GYM EQUIPMENT SHALL BE HORIZONTAL AT DUCTWORK LOCATIONS.

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

TITLE

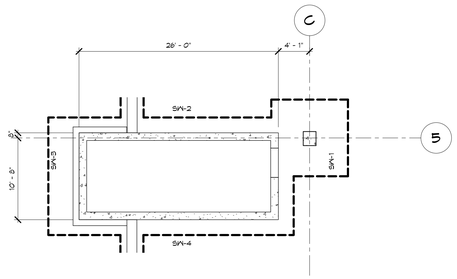
CLERESTORY ROOF FRAMING PLAN

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

SP150A

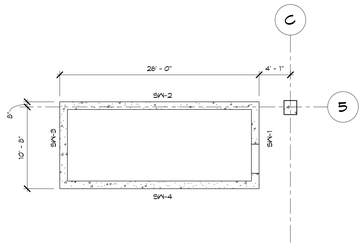
SHEET NO.

NOTE: CONTRACTOR SHALL COORDINATE ALL SHEAR WALL GEOMETRY AND OPENING DIMENSIONS, ELEVATIONS, LOCATIONS AND QUANTITY WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, IT, ETC. PROVIDE SHOP DRAWINGS SHOWING AND DIMENSIONING ALL PROPOSED SHEAR WALL PENETRATIONS. REINFORCE ALL OPENINGS PER TYPICAL DETAILS.



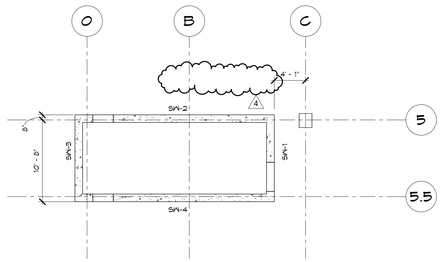
1 STAIR A FIRST FLOOR
1/8" = 1'-0"

CONCRETE SHEAR WALL NOTES:
1. COORDINATE WITH CONCRETE SHEAR WALL ELEVATIONS FOR REINFORCING AND OPENINGS.
2. COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL OPENING LOCATIONS AND DIMENSIONS.
3. REINFORCE OPENINGS PER TYPICAL SHEAR WALL OPENING REINFORCING DETAIL.



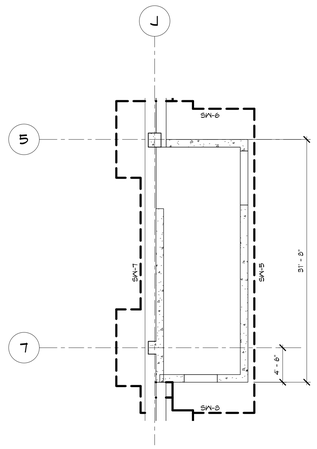
2 STAIR A SECOND FLOOR
1/8" = 1'-0"

CONCRETE SHEAR WALL NOTES:
1. COORDINATE WITH CONCRETE SHEAR WALL ELEVATIONS FOR REINFORCING AND OPENINGS.
2. COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL OPENING LOCATIONS AND DIMENSIONS.
3. REINFORCE OPENINGS PER TYPICAL SHEAR WALL OPENING REINFORCING DETAIL.



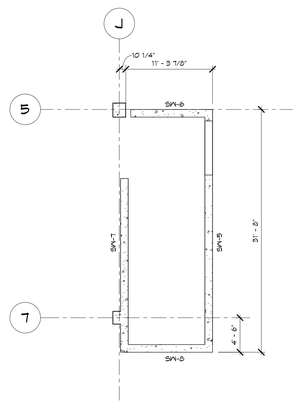
3 STAIR A THIRD FLOOR
1/8" = 1'-0"

CONCRETE SHEAR WALL NOTES:
1. COORDINATE WITH CONCRETE SHEAR WALL ELEVATIONS FOR REINFORCING AND OPENINGS.
2. COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL OPENING LOCATIONS AND DIMENSIONS.
3. REINFORCE OPENINGS PER TYPICAL SHEAR WALL OPENING REINFORCING DETAIL.



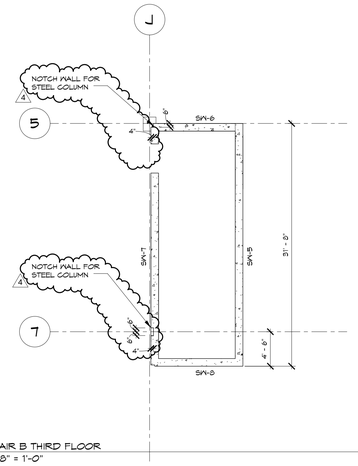
4 STAIR B FIRST FLOOR
1/8" = 1'-0"

CONCRETE SHEAR WALL NOTES:
1. COORDINATE WITH CONCRETE SHEAR WALL ELEVATIONS FOR REINFORCING AND OPENINGS.
2. COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL OPENING LOCATIONS AND DIMENSIONS.
3. REINFORCE OPENINGS PER TYPICAL SHEAR WALL OPENING REINFORCING DETAIL.



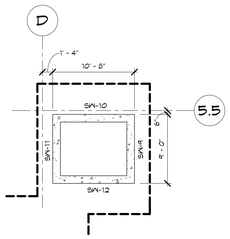
5 STAIR B SECOND FLOOR
1/8" = 1'-0"

CONCRETE SHEAR WALL NOTES:
1. COORDINATE WITH CONCRETE SHEAR WALL ELEVATIONS FOR REINFORCING AND OPENINGS.
2. COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL OPENING LOCATIONS AND DIMENSIONS.
3. REINFORCE OPENINGS PER TYPICAL SHEAR WALL OPENING REINFORCING DETAIL.



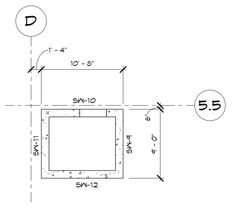
6 STAIR B THIRD FLOOR
1/8" = 1'-0"

CONCRETE SHEAR WALL NOTES:
1. COORDINATE WITH CONCRETE SHEAR WALL ELEVATIONS FOR REINFORCING AND OPENINGS.
2. COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL OPENING LOCATIONS AND DIMENSIONS.
3. REINFORCE OPENINGS PER TYPICAL SHEAR WALL OPENING REINFORCING DETAIL.



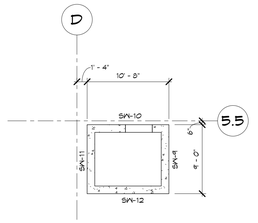
7 ELEVATOR FIRST FLOOR
1/8" = 1'-0"

CONCRETE SHEAR WALL NOTES:
1. COORDINATE WITH CONCRETE SHEAR WALL ELEVATIONS FOR REINFORCING AND OPENINGS.
2. COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL OPENING LOCATIONS AND DIMENSIONS.
3. REINFORCE OPENINGS PER TYPICAL SHEAR WALL OPENING REINFORCING DETAIL.



8 ELEVATOR SECOND FLOOR
1/8" = 1'-0"

CONCRETE SHEAR WALL NOTES:
1. COORDINATE WITH CONCRETE SHEAR WALL ELEVATIONS FOR REINFORCING AND OPENINGS.
2. COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL OPENING LOCATIONS AND DIMENSIONS.
3. REINFORCE OPENINGS PER TYPICAL SHEAR WALL OPENING REINFORCING DETAIL.



9 ELEVATOR THIRD FLOOR
1/8" = 1'-0"

CONCRETE SHEAR WALL NOTES:
1. COORDINATE WITH CONCRETE SHEAR WALL ELEVATIONS FOR REINFORCING AND OPENINGS.
2. COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL OPENING LOCATIONS AND DIMENSIONS.
3. REINFORCE OPENINGS PER TYPICAL SHEAR WALL OPENING REINFORCING DETAIL.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
EMERITUS PLAZA III, SUITE 1000
11350 MCCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1115

TERRALOGOS
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R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

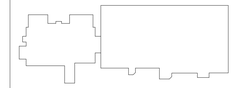
DESIGN DEVELOPMENT

SEAL

STATE OF MARYLAND
Ryan Hughes Farmer
No. 10976
PROFESSIONAL ENGINEER

"PROFESSIONAL CERTIFICATION. I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 10976, EXPIRATION DATE 06-09-16."

KEY PLAN



SCALE

1/8" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

TITLE

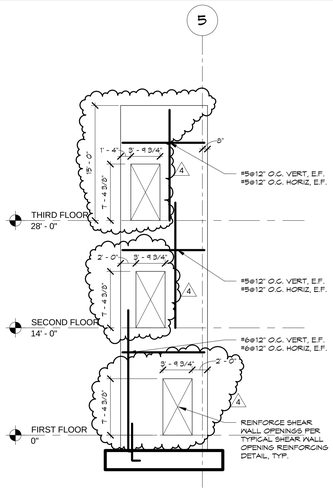
CONCRETE SHEAR WALL PLANS

PSA-DEWBERRY PROJECT NO. 50061725

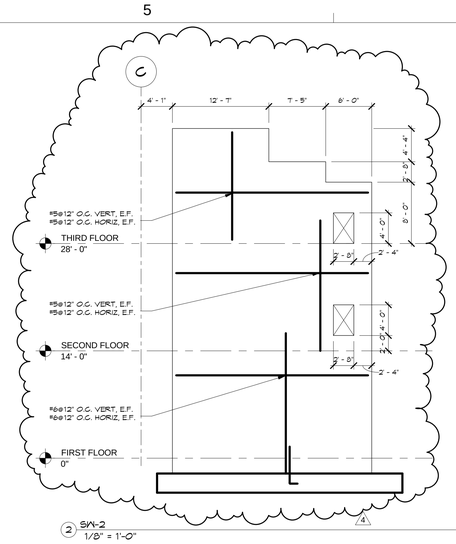
DPSCS CONTRACT NO. KT-000-150-C01

S300

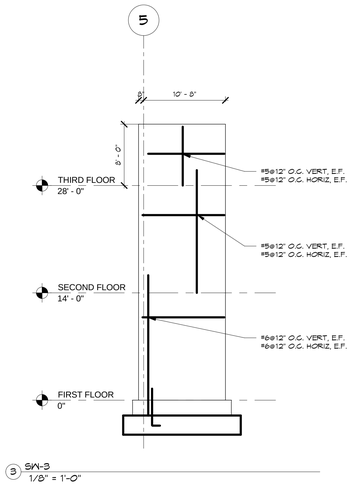
SHEET NO.



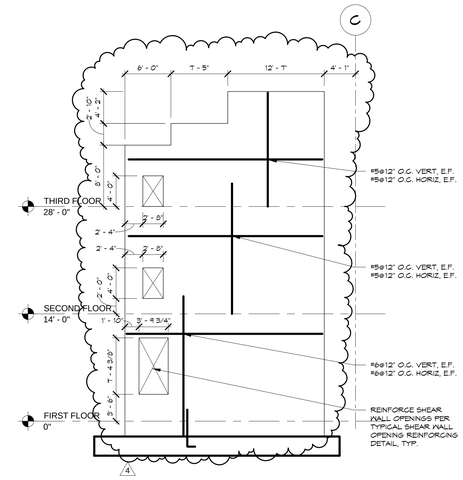
1 SW-1
1/8" = 1'-0"



2 SW-2
1/8" = 1'-0"

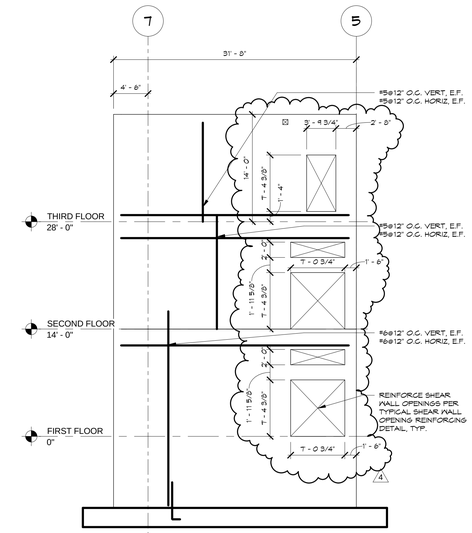


3 SW-3
1/8" = 1'-0"

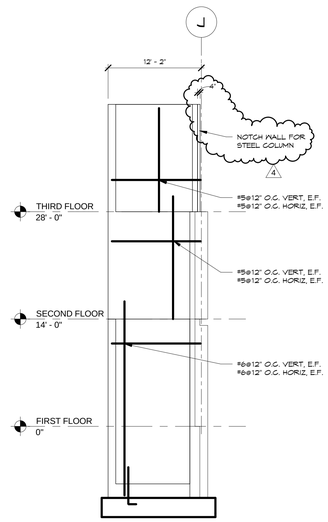


4 SW-4
1/8" = 1'-0"

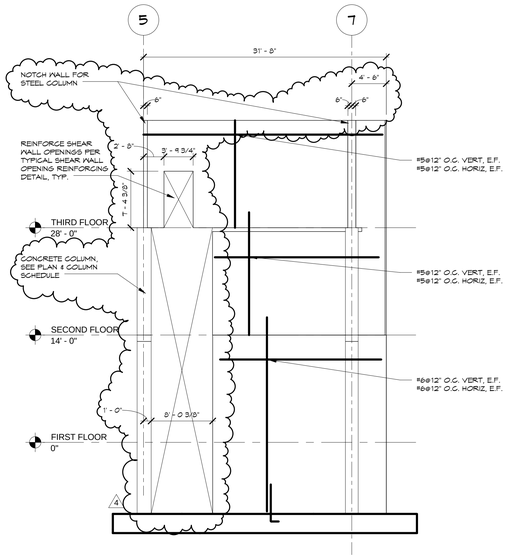
NOTE: CONTRACTOR SHALL COORDINATE ALL SHEAR WALL GEOMETRY AND OPENING DIMENSIONS, ELEVATIONS, LOCATIONS AND QUANTITY WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL PLUMBING, IT, ETC. PROVIDE SHOP DRAWINGS SHOWING AND DIMENSIONING ALL PROPOSED SHEAR WALL PENETRATIONS. REINFORCE ALL OPENINGS PER TYPICAL DETAILS.



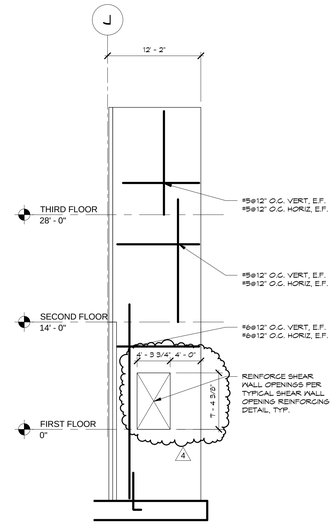
5 SW-5
1/8" = 1'-0"



6 SW-6
1/8" = 1'-0"



7 SW-7
1/8" = 1'-0"



8 SW-8
1/8" = 1'-0"

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STATE OF MARYLAND
Mike Hughes Farrow
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PROFESSIONAL ENGINEER

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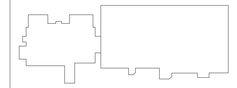
KEY PLAN



SCALE

1/8" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

TITLE

CONCRETE SHEAR WALL ELEVATIONS

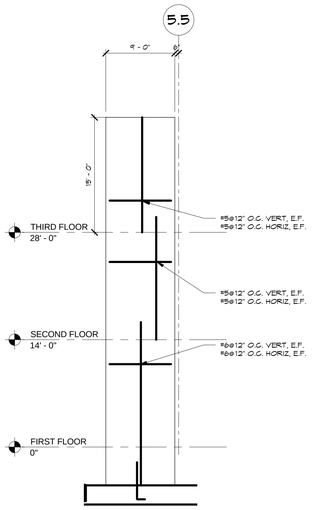
PSA-DEWBERRY PROJECT NO. 50061725

DPSCS CONTRACT NO. KT-000-150-C01

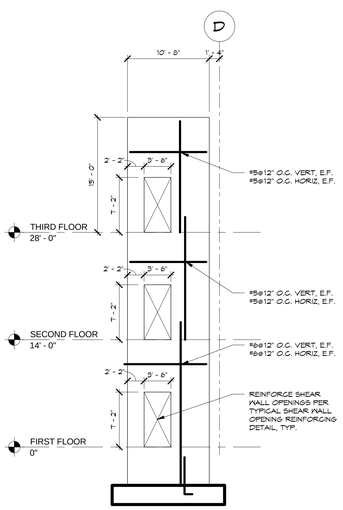
S301

SHEET NO.

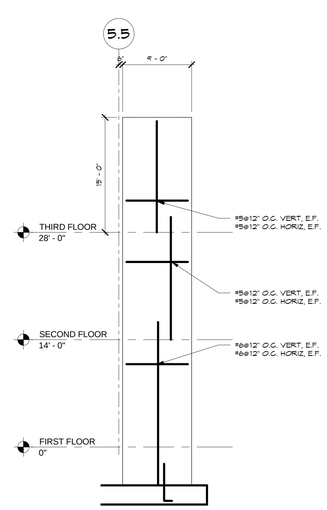
NOTE: CONTRACTOR SHALL COORDINATE ALL SHEAR WALL GEOMETRY AND OPENING DIMENSIONS, ELEVATIONS, LOCATIONS AND QUANTITY WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL PLUMBING, IT, ETC. PROVIDE SHOP DRAWINGS SHOWING AND DIMENSIONING ALL PROPOSED SHEAR WALL PENETRATIONS. REINFORCE ALL OPENINGS PER TYPICAL DETAILS.



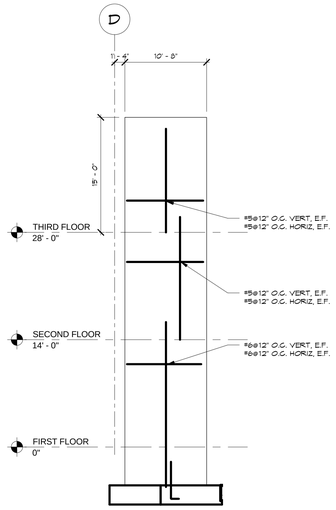
1 SW-9
1/8" = 1'-0"



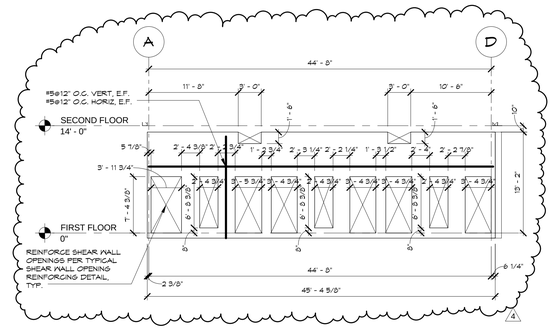
2 SW-10
1/8" = 1'-0"



3 SW-11
1/8" = 1'-0"



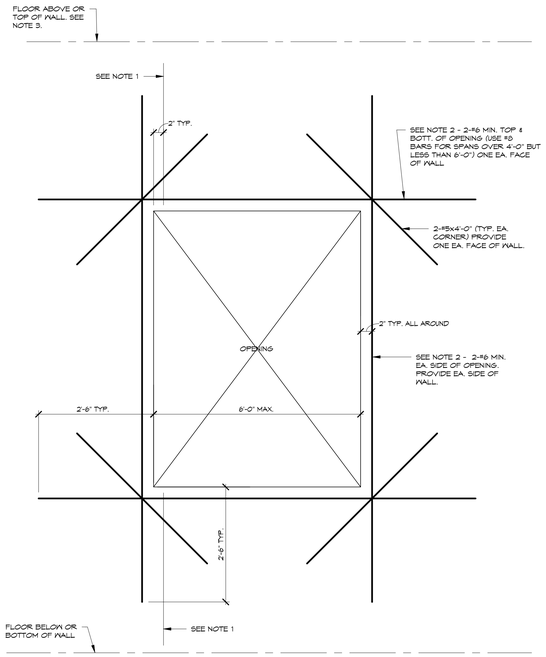
4 SW-12
1/8" = 1'-0"



10 SW-13
1/8" = 1'-0"

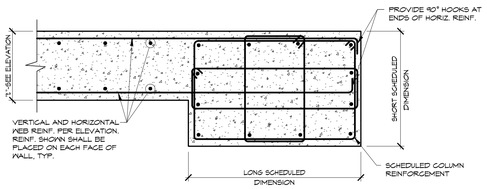
NOTE:
1. ALL VERTICAL BAR CHORD AND WEB REINF. SPLICE TO BE A CLASS 'B' SPLICE.
2. PROVIDE 90° HOOKS AT ALL DISCONTINUOUS BAR ENDS.
3. PROVIDE END PIER REINFORCING AT ALL CORNERS AND END CONDITIONS, FULL HEIGHT.

DETAIL 5/S302 3/4" = 1'-0"
TYPICAL SHEARWALL REINFORCING PLAN



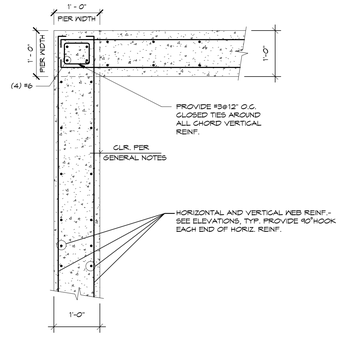
NOTE:
1. WHERE EDGE OF OPENING IS 2'-6" OR LESS FROM TOP OR BOTTOM OF WALL, PROVIDE #3 @ 12" CLOSED STIRRUPS [] HEIGHT OF STIRRUP SHALL EXTEND FROM TOP OF FLOOR SLAB TO TOP/BOTTOM OF OPENING FOR THE FULL LENGTH OF OPENING PLUS 1'-0" ON EITHER SIDE.
2. PROVIDE VERTICAL AND HORIZONTAL REINFORCING OF SAME SIZE + NUMBER AS BARS INTERUPTED BY OPENING. (PLACE 1/2 EA. SIDE OF OPENING).
3. BARS TERMINATING AT TOP OF WALL SHALL HAVE 90°HOOKS.

DETAIL 7/S302 3/4" = 1'-0"
TYPICAL SHEAR WALL OPENING REINFORCING DETAIL



NOTE:
1. ALL VERTICAL BAR CHORD AND WEB REINF. SPLICE TO BE A CLASS 'B' SPLICE.
2. PROVIDE 90° HOOKS AT ALL DISCONTINUOUS BAR ENDS.
3. WEB REINFORCEMENT SHOWN IN ELEVATION IS REQUIRED IN EACH FACE (I.E. THERE ARE TWO LAYERS REINF.), TYP. U.N.O.
4. WHERE TIES IN CHORDS ARE NOT SHOWN, PROVIDE #3@12" O/C.
5. AT (SHR.) CONDITION, ORIANTATION OF WALL VERIES FROM THAT SHOWN.

DETAIL 6/S302 3/4" = 1'-0"
SHEARWALL REINFORCING AT COLUMN



1. ALL VERTICAL BAR CHORD AND WEB REINF. SPLICE TO BE A CLASS 'B' SPLICE.
2. PROVIDE 90 HOOKS AT ALL DISCONTINUOUS BAR ENDS.
3. PROVIDE END PIER REINFORCING AT ALL CORNERS AND END CONDITIONS, FULL HEIGHT.

DETAIL 8/S302 3/4" = 1'-0"
TYPICAL REINFORCING AT WALL CORNER

A JOINT-VENTURE BETWEEN
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KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

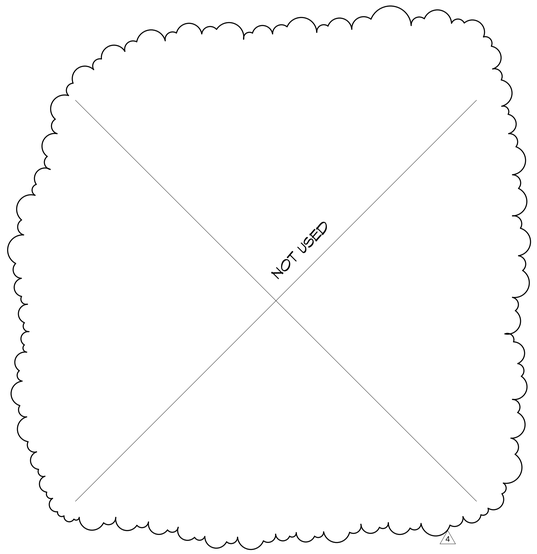
TITLE

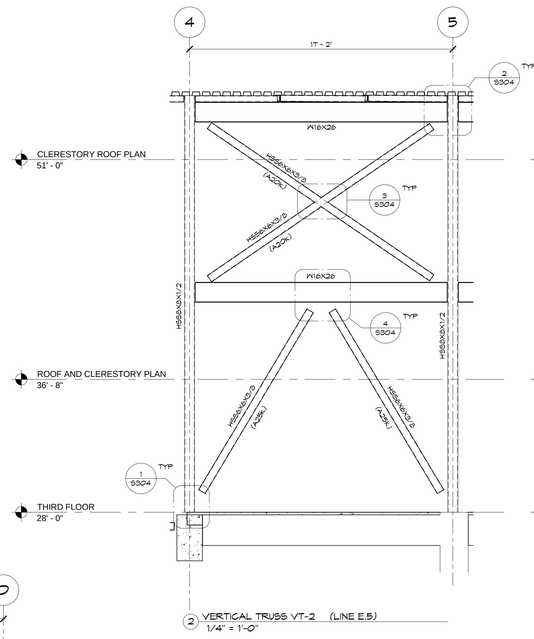
CONCRETE SHEAR WALL ELEVATIONS AND TYPICAL DETAILS

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

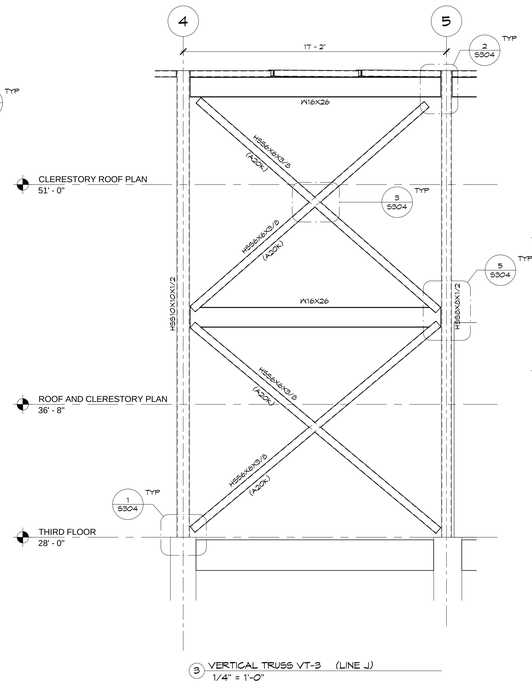
S302

SHEET NO.

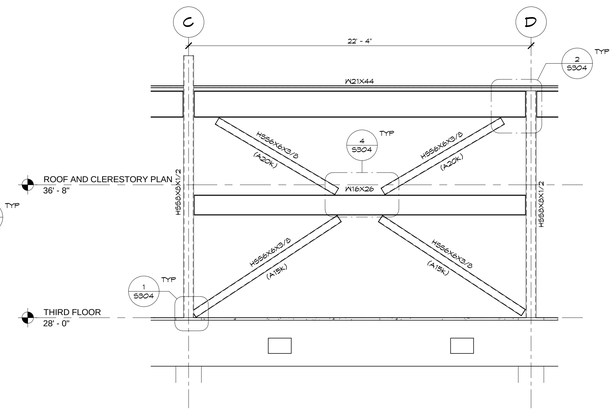




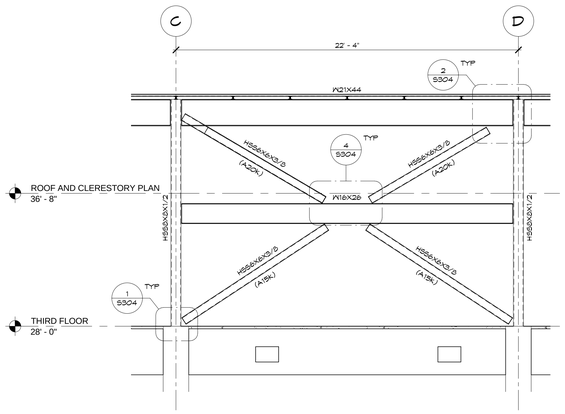
2 VERTICAL TRUSS VT-2 (LINE E.5)
1/4" = 1'-0"



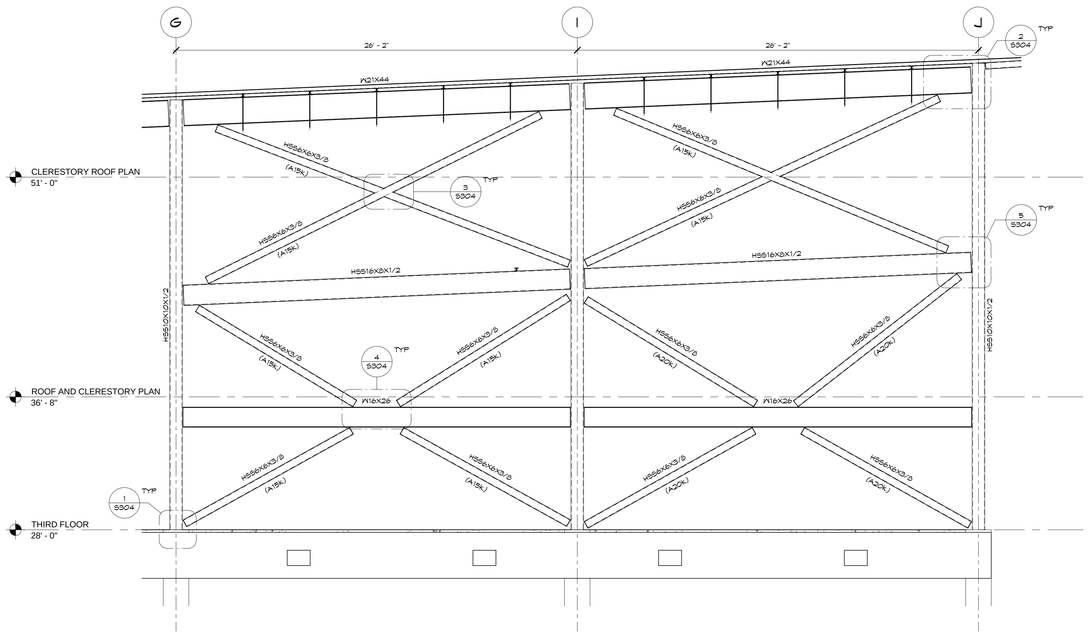
3 VERTICAL TRUSS VT-3 (LINE J)
1/4" = 1'-0"



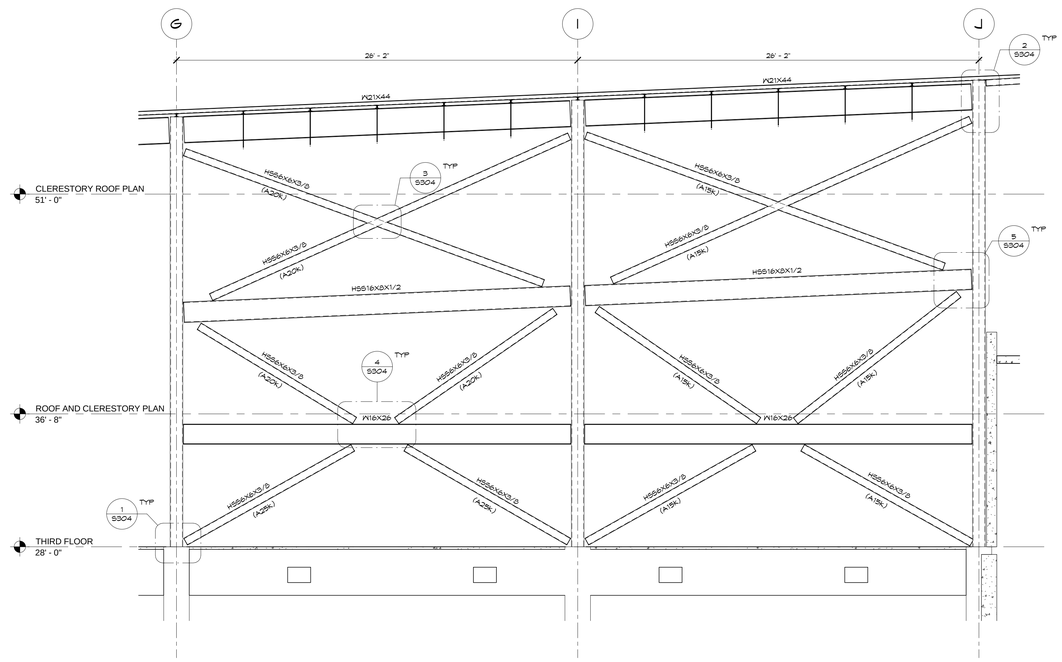
4 VERTICAL TRUSS VT-4 (LINE 4)
1/4" = 1'-0"



5 VERTICAL TRUSS VT-5 (LINE 7)
1/4" = 1'-0"



6 VERTICAL TRUSS VT-6 (LINE 4)
1/4" = 1'-0"



7 VERTICAL TRUSS VT-7 (LINE 7)
1/4" = 1'-0"

LATERAL BRACING NOTES:

1. BRACING CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND FOR THE FORCES NOTED ON ELEVATIONS AND DETAILS. SIGNED AND SEALED CALCULATIONS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR REVIEW. VERTICAL TRUSS SHOP DRAWINGS WILL NOT BE REVIEWED PRIOR TO THE RECEIPT OF SIGNED AND SEALED BRACING CALCULATIONS.
2. FORCES SHOWN IN THE PLANS, ELEVATIONS, AND DETAILS ARE MAXIMUM LOADS FROM LRFD LOAD COMBINATIONS IN SECTION 1605.2.1 OF THE INTERNATIONAL BUILDING CODE. ALL APPROPRIATE LOAD COMBINATIONS HAVE BEEN ACCOUNTED FOR IN THE DETERMINATION OF THESE LOADS. STRESS INCREASES FOR LOAD COMBINATIONS INCLUDING WIND AND GRAVITY ARE NOT PERMITTED UNLESS ALLOWED PER CODE. ASSUME LOADS ACT IN EITHER TENSION OR COMPRESSION. CONNECTIONS OF HORIZONTAL MEMBERS MUST ALSO BE DESIGNED FOR SHEAR PER THE GENERAL NOTES.
3. BOLT SIZE SHALL MATCH THAT SHOWN ON THE GENERAL NOTES. PROVIDE ONLY ONE GRADE OF BOLT FOR EACH BOLT DIAMETER TO BE USED IN THE CONNECTIONS.
4. THE NET AREA (REFER TO AISC MANUAL OF STEEL CONSTRUCTION, CHAPTER B) AT THE CONNECTION OF ANY BRACING MEMBER SHALL NOT BE LESS THAN 85 PERCENT OF THE GROSS CROSS SECTIONAL AREA OF THE MEMBER. ADDITIONAL PLATES SHALL BE ADDED AS REQUIRED TO MAINTAIN THE MINIMUM NET CROSS SECTIONAL AREA. PLATES SHALL EXTEND A MINIMUM DISTANCE EQUAL TO THE DEPTH OF THE MEMBER PAST THE LAST ROW OF BOLTS.
5. CONNECTIONS SHALL BE SYMMETRICAL ABOUT THE AXIS OF THE MEMBER CONNECTED.
6. STRENGTH OF BEAM CONNECTIONS SHALL BE DETAILED PER SSGO1, UNLESS NOTED (Vxx) ON THE ELEVATION. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM AXIAL FORCE OF 10 KIPS, UNLESS NOTED (Axx) ON ELEVATION.
7. FORCES SHOWN IN ELEVATIONS SHALL APPLY TO CONNECTIONS AT EACH END OF MEMBER.

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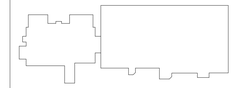


SCALE

1/4" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

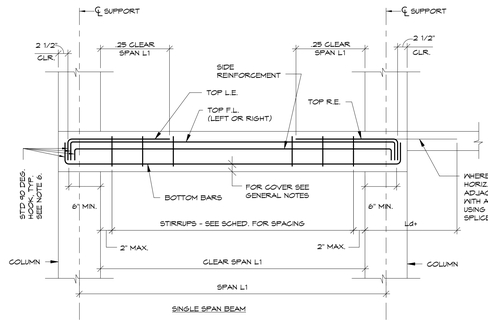
TITLE

VERTICAL TRUSS ELEVATIONS

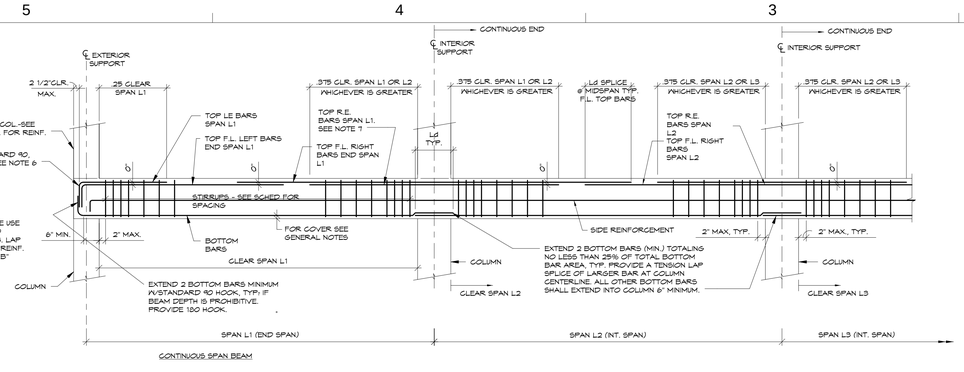
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

S303

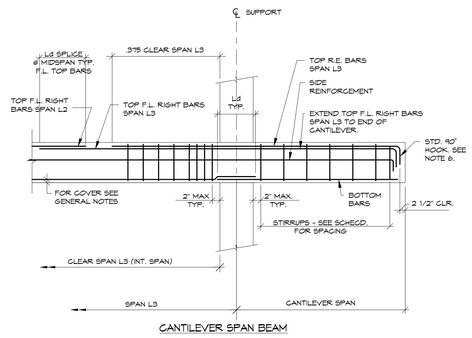
SHEET NO.



SINGLE SPAN BEAM



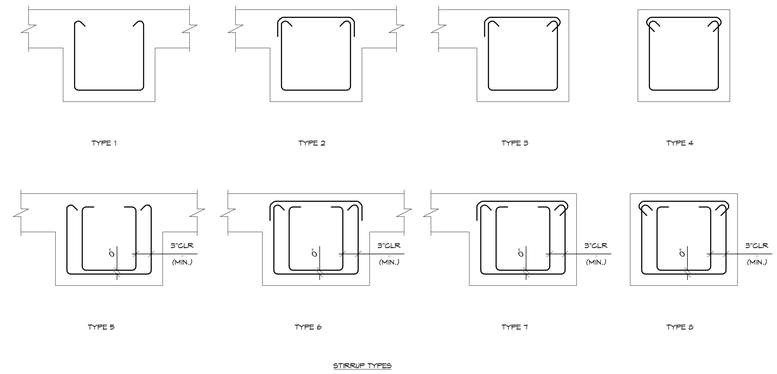
CONTINUOUS SPAN BEAM



CANTILEVER SPAN BEAM

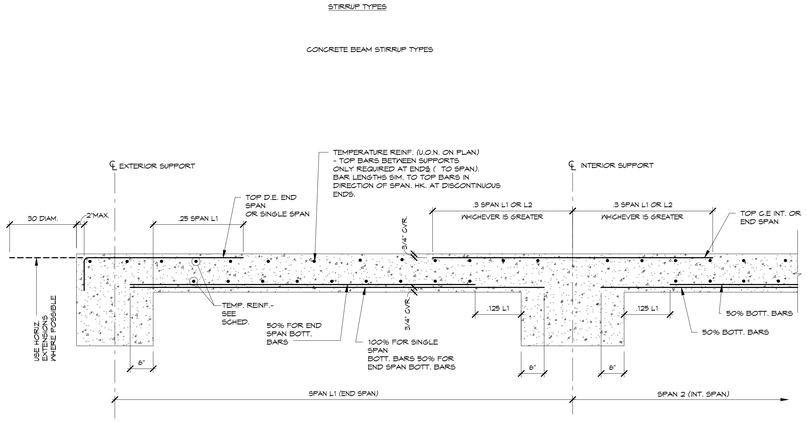
NOTES:
1. F.L. = FULL LENGTH
   C.E. = CONTINUOUS END
   D.E. = DISCONTINUOUS END
   L.E. = LEFT END
   R.E. = RIGHT END
   E.E. = EACH END
   R. = REMAINDER
   Ld+ TENSION DEVELOPMENT LENGTH
2. ORIENTATION OF BEAM MARK ON PLAN DEFINES RIGHT END & LEFT END OF BEAM. (L.E.) ← BXX → (R.E.)
3. WHERE CANTILEVER SPAN IS NOT SCHEDULED SEPARATELY, EXTEND ALL SCHEDULED BARS, INCLUDING STIRRUPS, FROM ADJACENT SPAN TO END OF CANTILEVER.
4. WHETHER OR NOT DISCONTINUOUS END OF THE BEAM OCCURS ON THE LEFT OR RIGHT, THE REBAR IS TO BE DETAILED PER THE DISCONTINUOUS END NOTED ABOVE.
5. WHETHER OR NOT THE CANTILEVER OCCURS ON THE LEFT OR RIGHT, THE REBAR IS TO BE DETAILED PER THE CANTILEVER END NOTED ABOVE.
6. WHERE BEAM DEPTH IS PROHIBITIVE, PROVIDE A STANDARD 180 HOOK IN LIEU OF A 90° HOOK.
7. WHERE TOP RE BARS IN ONE SPAN AND TOP LE BARS OF THE NEXT ADJACENT SPAN CONFLICT, PROVIDE THE BARS WITH THE LARGER AREA OF STEEL.

CONCRETE BEAM BAR BENDING AND PLACEMENT DETAIL



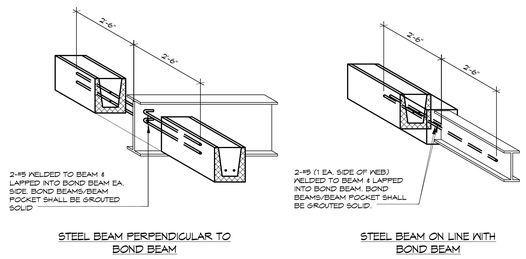
STIRRUP TYPES

CONCRETE BEAM STIRRUP TYPES



DETAIL 2 S500 3/4" = 1'-0"

ONE-WAY SLAB BAR BENDING & PLACING

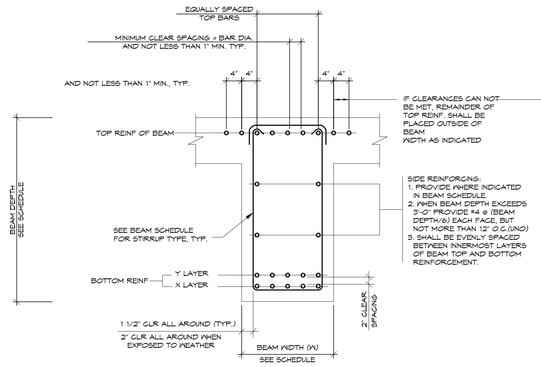


STEEL BEAM PERPENDICULAR TO BOND BEAM

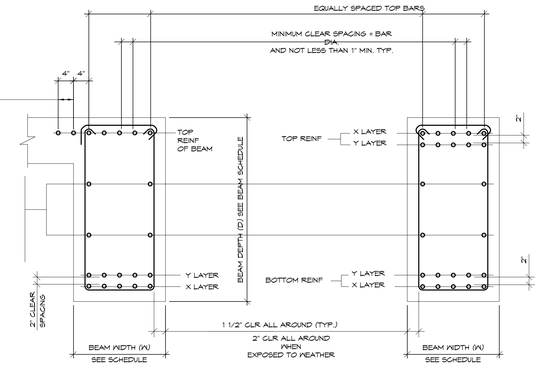
STEEL BEAM ON LINE WITH BOND BEAM

DETAIL 3 S500 3/4" = 1'-0"

TYPICAL STEEL BEAM FRAMING INTO BOND BEAM



INTERIOR BEAM WITH SLAB ON BOTH SIDES



EXTERIOR BEAM AND INTERIOR BEAMS WITH SLAB ON ONE SIDE ONLY

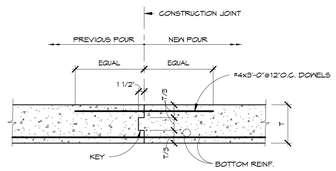
ISOLATED BEAM

NOTES:
1. ALL REINFORCING SHALL BE PLACED IN A SINGLE LAYER IN THE X LAYER LOCATION, UNLESS OTHERWISE NOTED IN THE BEAM SCHEDULE. WHERE BARS ARE NOTED IN THE SCHEDULE TO BE PLACED IN A SECOND LAYER, BARS SHALL BE PLACED AT Y LOCATION AS SHOWN ABOVE.

CONCRETE BEAM BAR PLACEMENT

DETAIL 1 S500 3/4" = 1'-0"

TYPICAL CONCRETE BEAM REINFORCING DETAIL

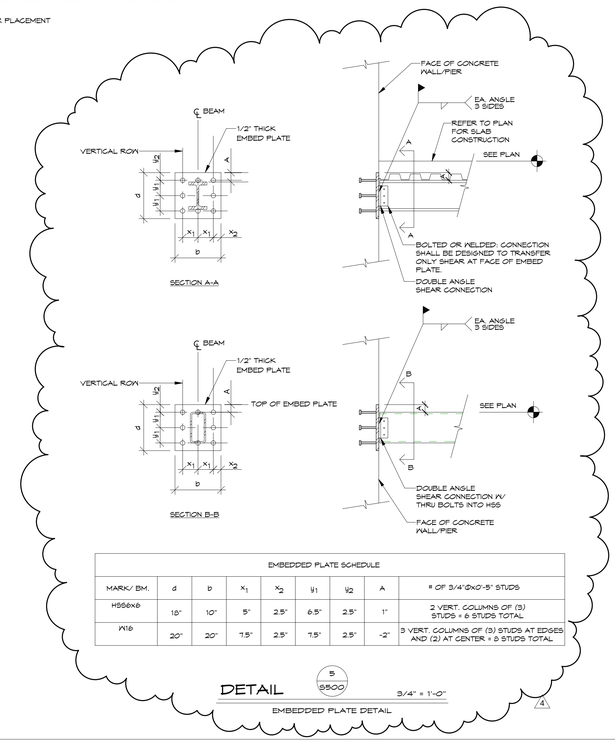


FRAMED SLAB CONSTRUCTION JOINT

NOTES:
1. LOCATE CONSTRUCTION JOINT IN MIDDLE 1/3 OF SLAB OR BEAM SPAN. JOINTS SHALL BE PLACED PERPENDICULAR TO BEAMS.
2. SUBMIT CONSTRUCTION JOINT LOCATIONS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO WORK.
3. CLEAN JOINT OF LAITANCE, WET CONCRETE SURFACE & REMOVE STANDING WATER PRIOR TO PLACING NEW CONCRETE.
4. CONSTRUCTION JOINT PLACEMENT SHALL NOT EXCEED 40'-0" IN ANY PLAN DIRECTION.

DETAIL 4 S500 3/4" = 1'-0"

ELEVATED CONCRETE SLAB AND BEAM CONSTRUCTION JOINT DETAIL



EMBEDDED PLATE SCHEDULE								
MARK/ BM.	d	b	X_1	X_2	Y_1	Y_2	A	= OF 3/4"Øx0'-5" STUDS
HSS6x6	18"	10"	5"	2.5"	6.5"	2.5"	1"	2 VERT. COLUMNS OF (3) STUDS = 6 STUDS TOTAL
W16	20"	20"	7.5"	2.5"	7.5"	2.5"	-2"	3 VERT. COLUMNS OF (3) STUDS AT EDGES AND (2) AT CENTER = 0 STUDS TOTAL

DETAIL 5 S500 3/4" = 1'-0"

EMBEDDED PLATE DETAIL

4

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EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
EXECUTIVE PLAZA III, SUITE 1000
11350 MCCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1115
TERRALOGOS ECO ARCHITECTURE
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

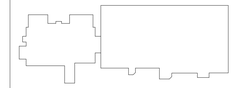
BALTIMORE MARYLAND

DESIGN DEVELOPMENT

SEAL

"PROFESSIONAL CERTIFICATION. I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 10976, EXPIRATION DATE 06-09-16."

KEY PLAN



SCALE

3/4" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

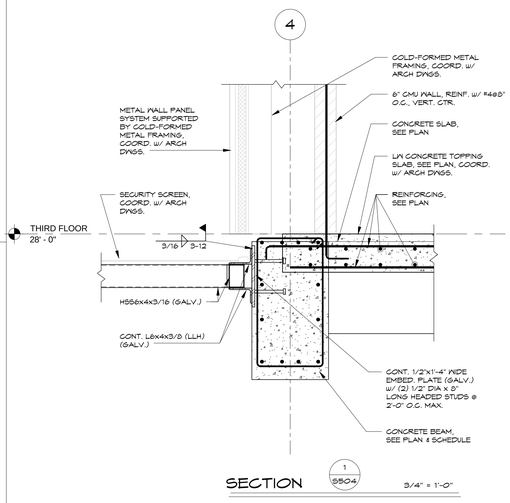
TITLE

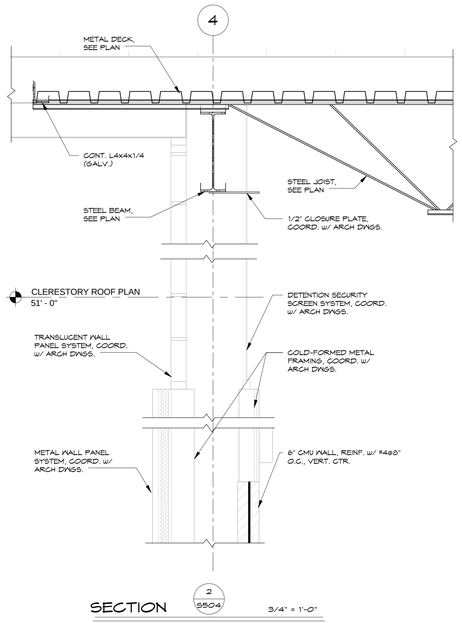
SUPERSTRUCTURE TYPICAL DETAILS

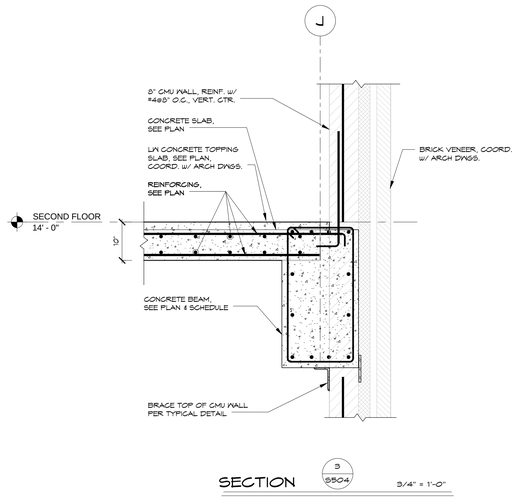
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

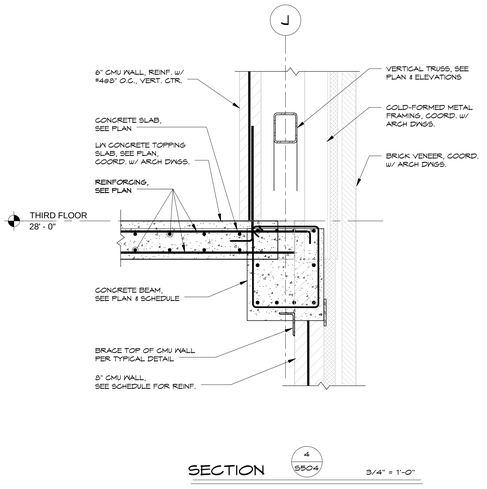
S500

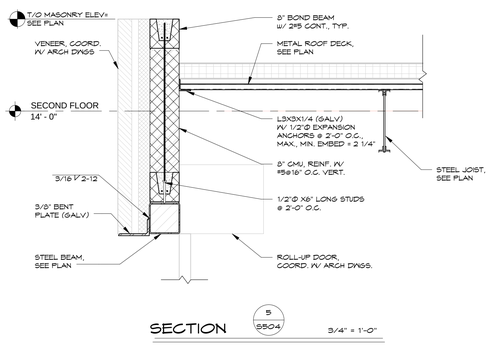
SHEET NO.

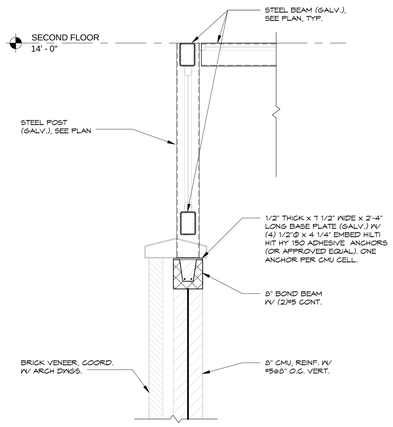


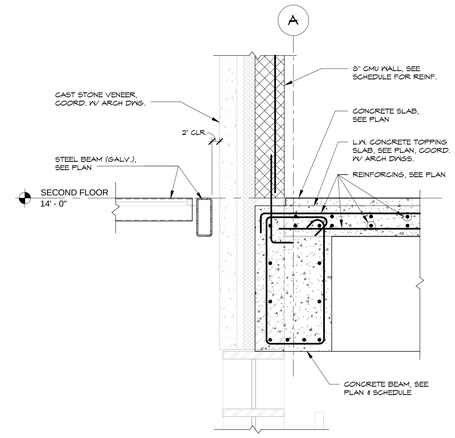


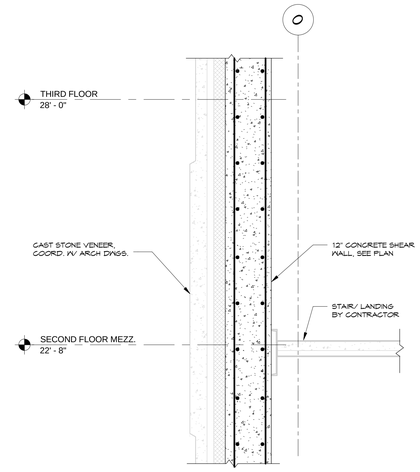


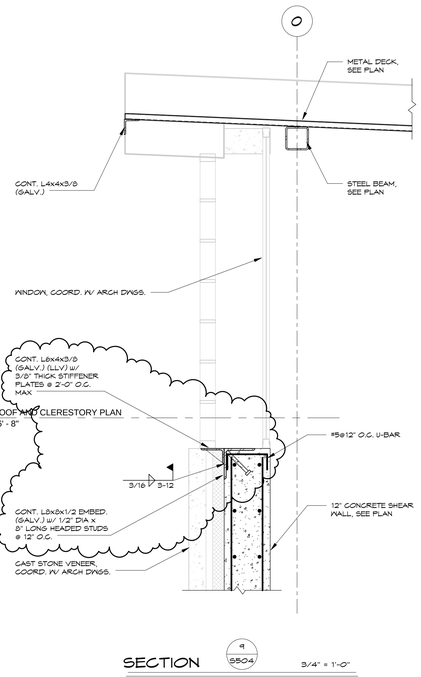


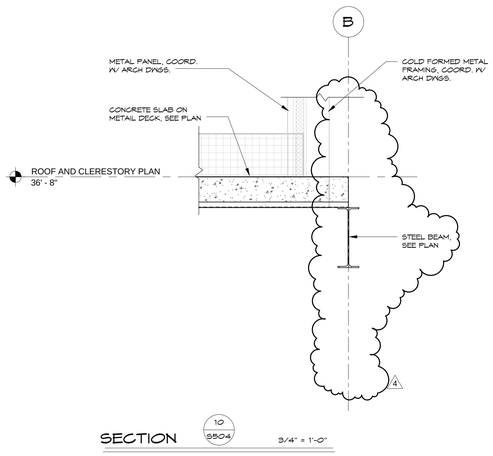


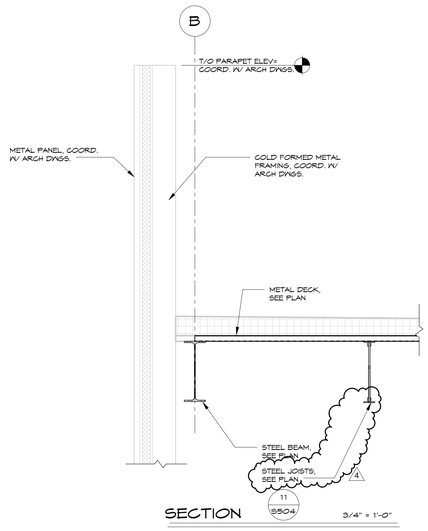












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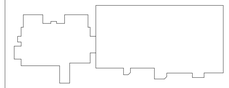
KEY PLAN



SCALE

3/4" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

TITLE

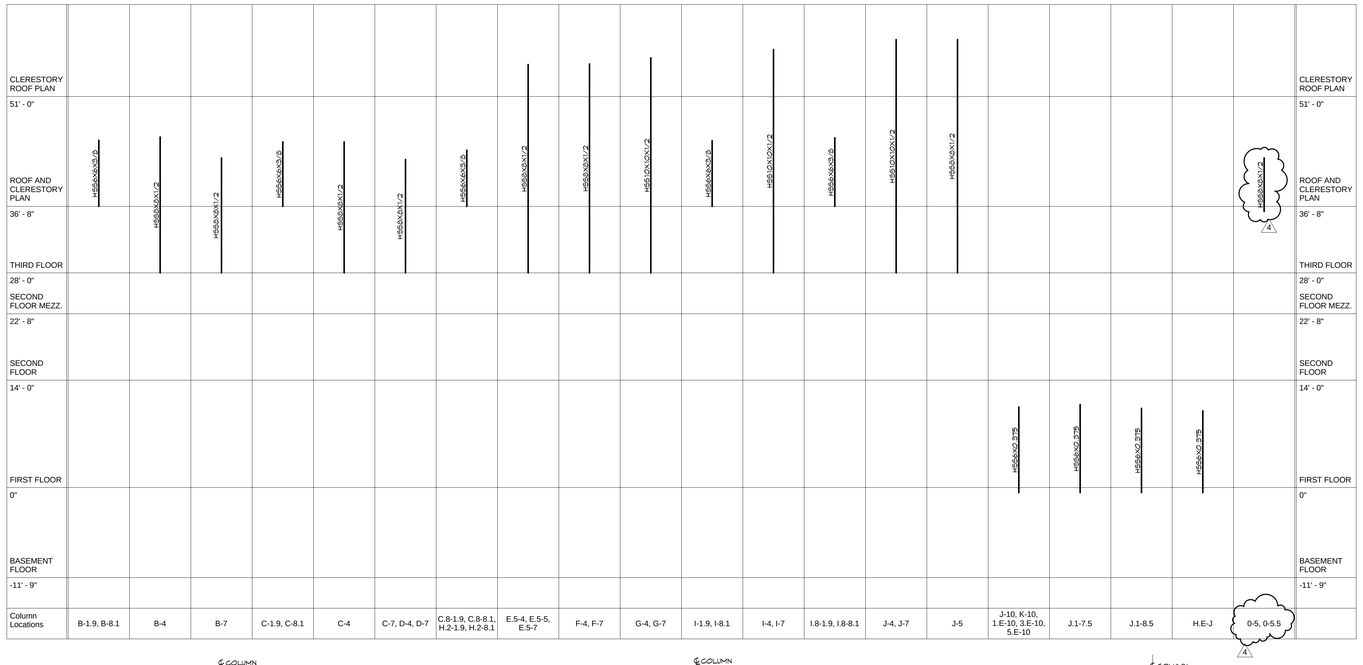
SUPERSTRUCTURE SECTIONS

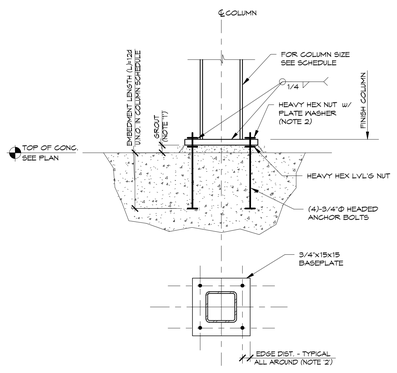
PSA-DEWBERRY PROJECT NO. 50061725

DPSCS CONTRACT NO. KT-000-150-C01

S504

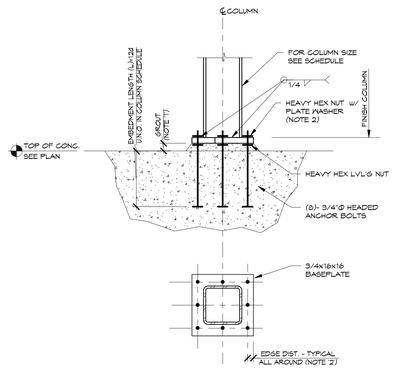
SHEET NO.





NOTES:
1. PROVIDE 2" GROUT TYPICAL. FOR BASEPLATES LESS THAN 24" SQUARE 3/4" GROUT AND 1/4" STEEL LEVELING PLATE MAY BE SUBSTITUTED. COORDINATE COLUMN CUTOFF LENGTHS AS REQUIRED.
2. REFER TO BASEPLATE DETAILING SCHEDULE FOR THE BASEPLATE HOLE DIAMETERS, PLATE WASHER DIMENSIONS AND ANCHOR BOLT EDGE DISTANCE.
3. FOR BASE PLATES 1.5" OR GREATER IN EITHER DIRECTION, PROVIDE A 2" DIAMETER GROUT HOLE.
4. 'd' IS THE ANCHOR BOLT DIAMETER AS DEFINED IN THE COLUMN SCHEDULE.
5. UNHEADED ANCHOR BOLTS WITH DOUBLE HEAVY HEX NUTS MAY BE SUBSTITUTED FOR HEADED ANCHOR BOLTS.
6. THE LAST DIMENSION OF THE COLUMN BASEPLATE SIZE, NOTED IN THE COLUMN SCHEDULE, IS PARALLEL TO THE COLUMN WEB.
7. WIDE FLANGE COLUMN SHOWN, TUBE COLUMN SIMILAR.

DETAIL 1 S601 — 3/4" = 1'-0"
TYPICAL HSS8x8 COLUMN BASE DETAIL



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3. FOR BASE PLATES 1.5" OR GREATER IN EITHER DIRECTION, PROVIDE A 2" DIAMETER GROUT HOLE.
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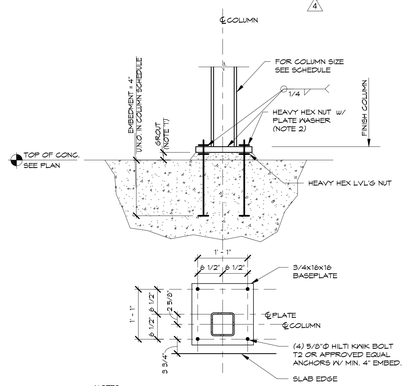
6. THE LAST DIMENSION OF THE COLUMN BASEPLATE SIZE, NOTED IN THE COLUMN SCHEDULE, IS PARALLEL TO THE COLUMN WEB.
7. WIDE FLANGE COLUMN SHOWN, TUBE COLUMN SIMILAR.

DETAIL 2 S601 — 3/4" = 1'-0"
TYPICAL HSS10x10 COLUMN BASE DETAIL



NOTES:
1. PROVIDE 2" GROUT TYPICAL. FOR BASEPLATES LESS THAN 24" SQUARE 3/4" GROUT AND 1/4" STEEL LEVELING PLATE MAY BE SUBSTITUTED. COORDINATE COLUMN CUTOFF LENGTHS AS REQUIRED.
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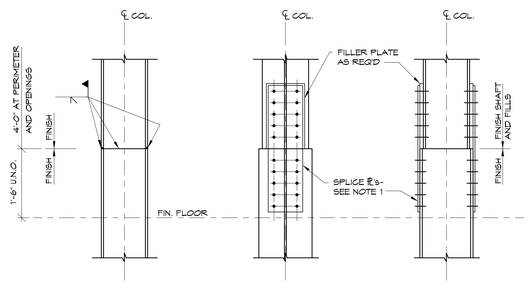
7. WIDE FLANGE COLUMN SHOWN, TUBE COLUMN SIMILAR.

DETAIL 3 S601 — 3/4" = 1'-0"
TYPICAL HSS6x6 COLUMN BASE PLATE

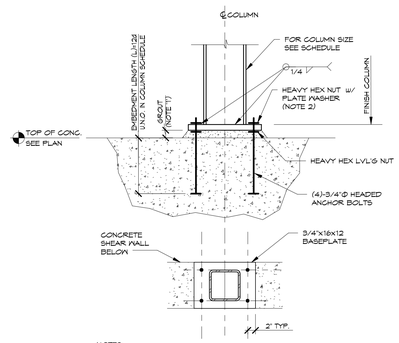


ALTERNATE #1 WELDED

ALTERNATE #2 BOLTED

NOTES:
1. FLANGE SPLICE TO DEVELOP 50% OF TENSILE CAPACITY OF SMALLER COLUMN FLANGES, U.N.O. IN COLUMN SCHEDULE.
2. FLANGE SPLICE TO DEVELOP 100% OF TENSILE CAPACITY OF SMALLER COLUMN IN VERTICAL TRUSSES & MOMENT FRAMES.

DETAIL 4 S601 — 3/4" = 1'-0"
COLUMN SPLICE DETAIL



NOTES:
1. PROVIDE 2" GROUT TYPICAL. FOR BASEPLATES LESS THAN 24" SQUARE 3/4" GROUT AND 1/4" STEEL LEVELING PLATE MAY BE SUBSTITUTED. COORDINATE COLUMN CUTOFF LENGTHS AS REQUIRED.
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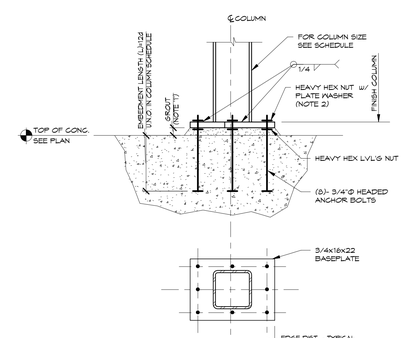
7. WIDE FLANGE COLUMN SHOWN, TUBE COLUMN SIMILAR.

DETAIL 5 S601 — 3/4" = 1'-0"
COLUMN B/5 BASE PLATE ON CONCRETE SHEAR WALL



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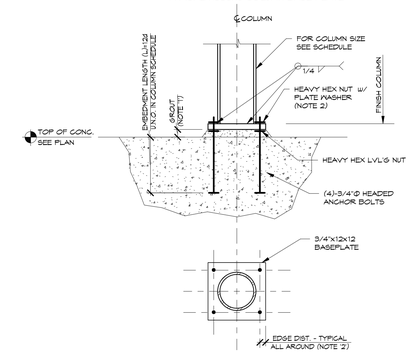
7. WIDE FLANGE COLUMN SHOWN, TUBE COLUMN SIMILAR.

DETAIL 6 S601 — 3/4" = 1'-0"
COLUMN G/4 & G/7 BASEPLATE



NOTES:
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7. WIDE FLANGE COLUMN SHOWN, TUBE COLUMN SIMILAR.

DETAIL 7 S601 — 3/4" = 1'-0"
TYPICAL ROUND HSS COLUMN BASE DETAIL

TYPICAL STEEL COLUMN BASEPLATE SCHEDULE

COLUMN SIZE	BASEPLATE	ANCHOR RODS
HSS8x8x1/2	3/4"x16"x16"	(4)-3/4"Ø
HSS8x8x5/8	1"x16"x16"	(8)-3/4"Ø

BASEPLATE DETAILING SCHEDULE

ANCHOR ROD DIAMETER (d)	BASEPLATE HOLE DIAMETER	PLATE WASHER DIAMETER	PLATE WASHER THICKNESS (U.N.O.)	ANCHOR ROD EDGE DISTANCE (U.N.O.)
3/4"	1 5/16"	2"	1/4"	1 1/2"
1"	1 13/16"	3"	3/8"	1 1/2"
1 1/4"	2 1/16"	3"	1/2"	1 3/4"
1 1/2"	2 5/16"	3 1/2"	1/2"	2"
1 3/4"	2 3/4"	4"	5/8"	2 1/2"
2"	3 1/4"	5"	3/4"	2 3/4"
2 1/2"	3 3/4"	5 1/2"	7/8"	3 1/4"

NOTES:
1. SEE COLUMN SCHEDULE FOR ANCHOR BOLT DIAMETER.
2. PLATE WASHERS SHALL HAVE STANDARD HOLES.

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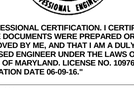
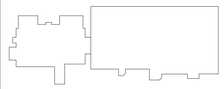
SEAL



"PROFESSIONAL CERTIFICATION. I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 10976, EXPIRATION DATE 06-09-16."

KEY PLAN



SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	P.F.
APPROVED BY	H.F.
CHECKED BY	M.A.H.
DATE	2-5-2015

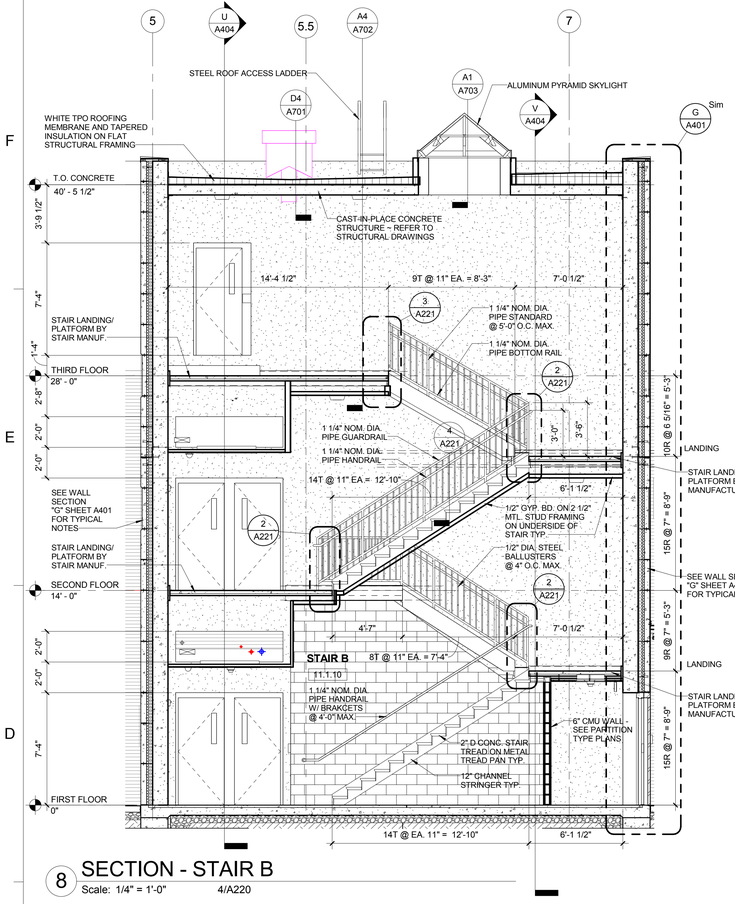
TITLE

STEEL COLUMN SCHEDULES AND DETAILS

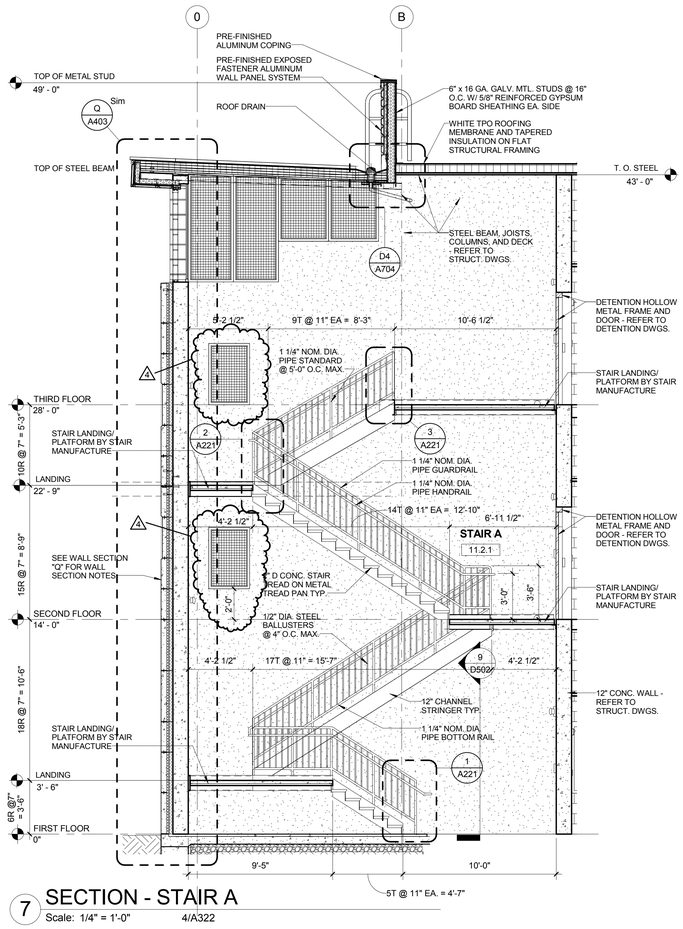
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

S601

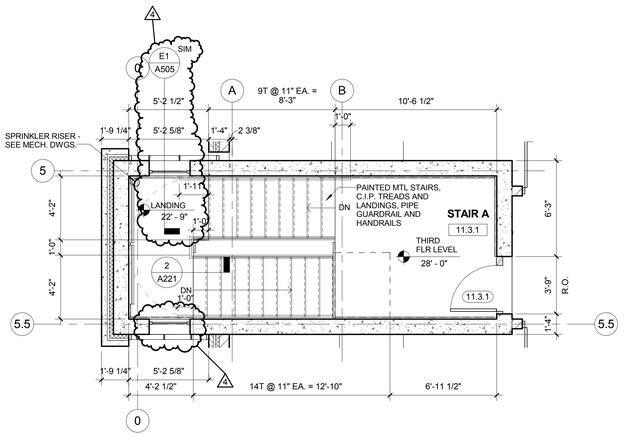
SHEET NO.



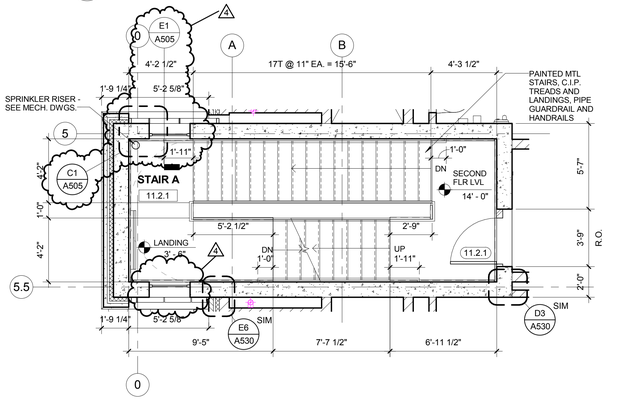
8 SECTION - STAIR B
Scale: 1/4" = 1'-0" 4/A220



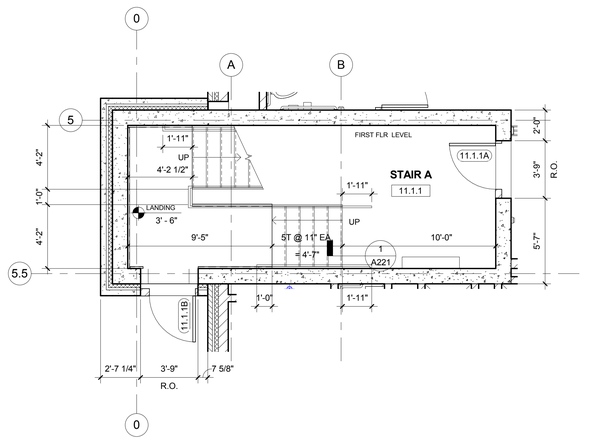
7 SECTION - STAIR A
Scale: 1/4" = 1'-0" 4/A322



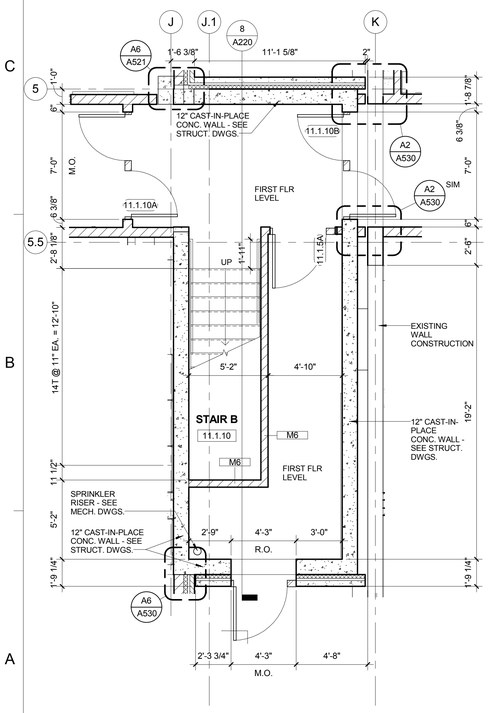
THIRD FLOOR - STAIR A ENLARGED PLAN
3 Scale: 1/4" = 1'-0" 1/AP130A



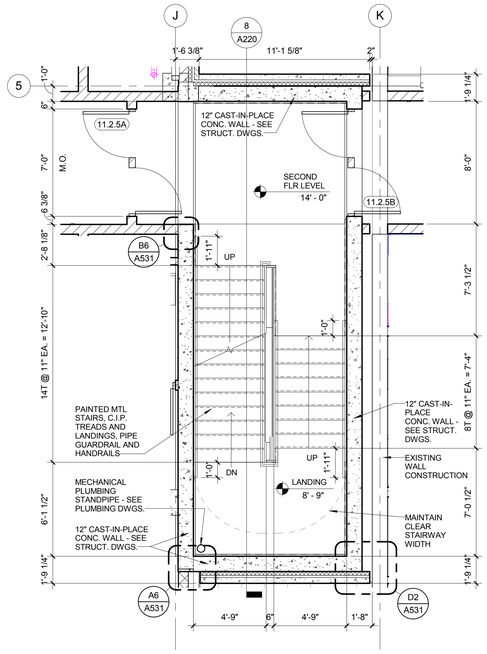
SECOND FLOOR - STAIR A ENLARGED PLAN
2 Scale: 1/4" = 1'-0" 1/AP120A



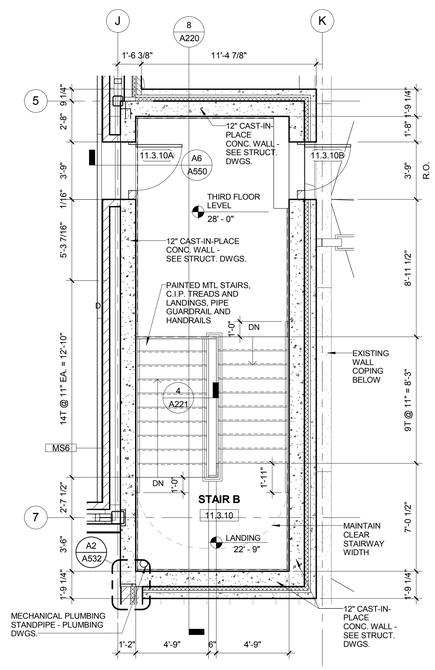
FIRST FLOOR - STAIR A ENLARGED PLAN
1 Scale: 1/4" = 1'-0" 1/AP110A



FIRST FLOOR - STAIR B ENLARGED PLAN
6 Scale: 1/4" = 1'-0" 1/AP110A



SECOND FLOOR - STAIR B ENLARGED PLAN
5 Scale: 1/4" = 1'-0" 1/AP120A



THIRD FLOOR - STAIR B ENLARGED PLAN
4 Scale: 1/4" = 1'-0" 1/AP130A

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
10003 YORK RD. SUITE 1000 11350 MCCORMICK ROAD HUNT VALLEY, MARYLAND 21031 PHONE (410) 329-1115
TERRALOGOS ECO ARCHITECTURE, PC
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

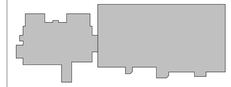
BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEIGHT STATE OF MARYLAND

THE CONTRACT DOCUMENTS FOR THE INDICATED PUBLIC IMPROVEMENT WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THEY COMPLY WITH THE RELEVANT BUILDING CODES OF THE STATE OF MARYLAND. LICENSE NUMBER 13814, EXPIRATION DATE 3/28/2015.

KEY PLAN



SCALE

1/4" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	GLJ
APPROVED BY	JLB
CHECKED BY	CRD
DATE	02-05-2015

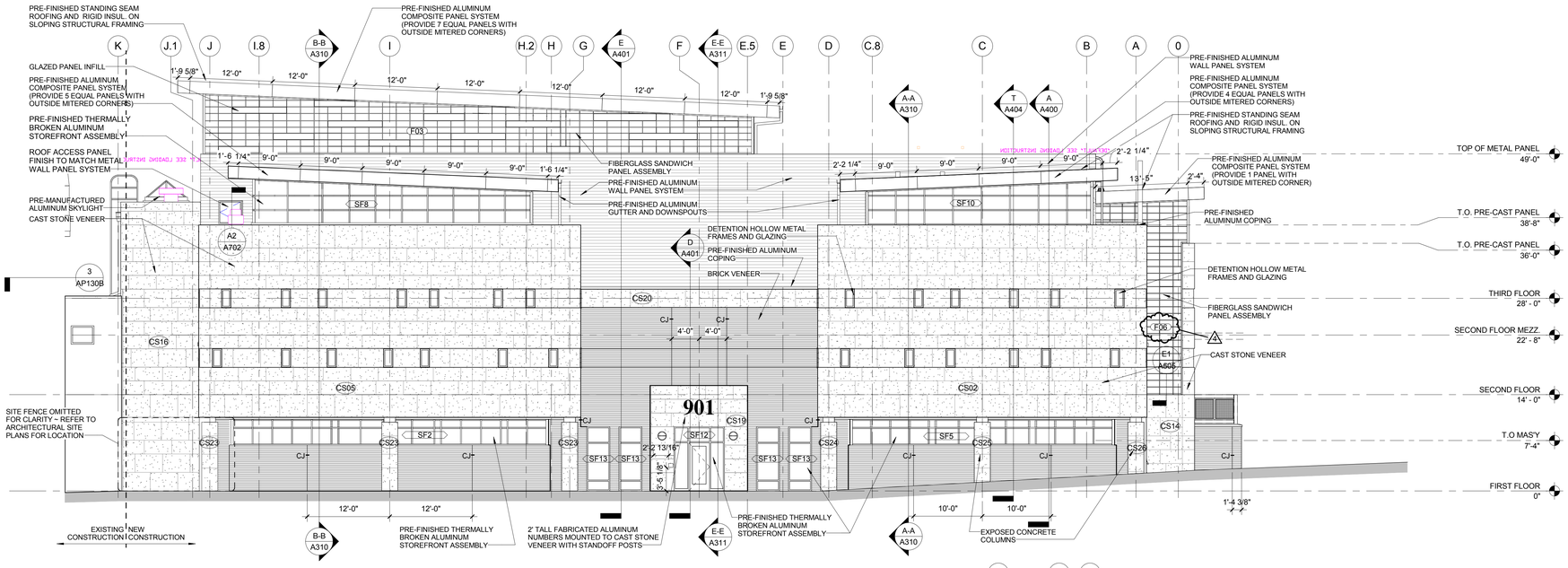
TITLE

LARGE SCALE PLANS AND SECTIONS - STAIRS

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

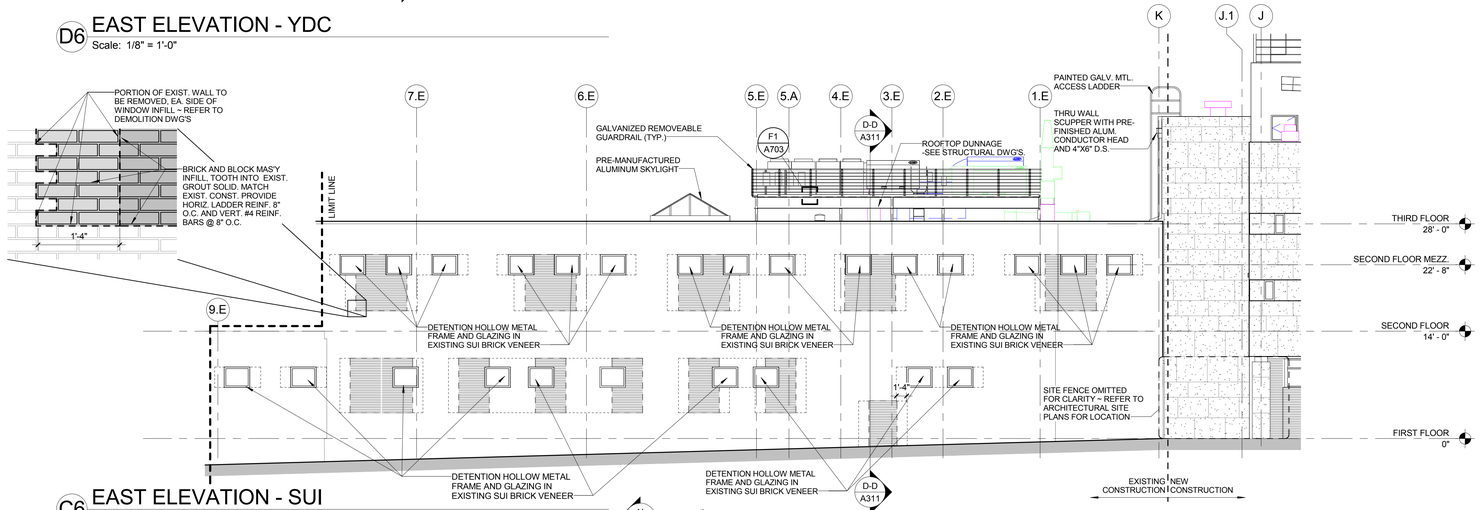
A220

SHEET NO.



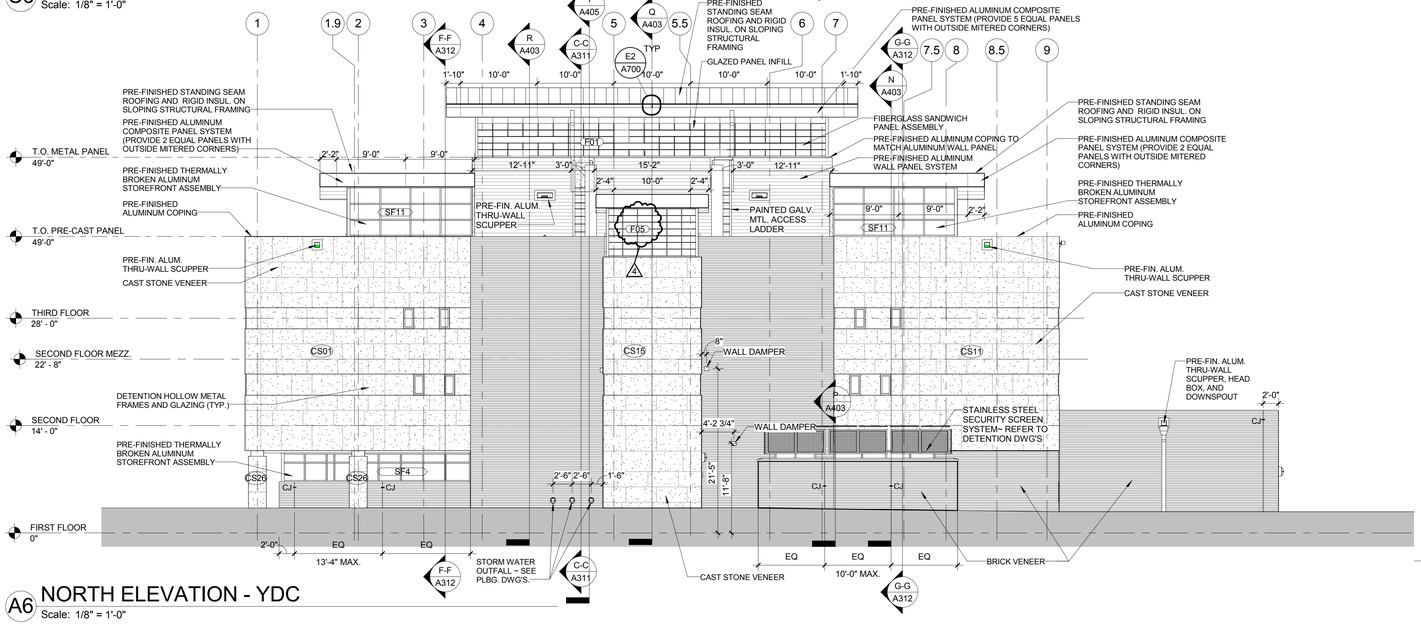
D6 EAST ELEVATION - YDC

Scale: 1/8" = 1'-0"



C6 EAST ELEVATION - SUI

Scale: 1/8" = 1'-0"



A6 NORTH ELEVATION - YDC

Scale: 1/8" = 1'-0"

GENERAL NOTES - BUILDING ELEVATIONS

1. SEE SHEET SERIES A320 FOR ARCHITECTURAL CAST STONE (CS##) ELEVATIONS
2. SEE SHEET A620 FOR ALUMINUM FRAME (SF##) ELEVATIONS
3. SEE SHEET F3/A532 FOR CJ (CONTROL JOINT) DETAIL
4. SEE SHEET A620 FOR FIBERGLASS SANDWICH PANEL ASSEMBLY (F##) ELEVATIONS

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
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R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

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KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	KAF,DEW
APPROVED BY	JLB
CHECKED BY	KAF
DATE	02-05-2015

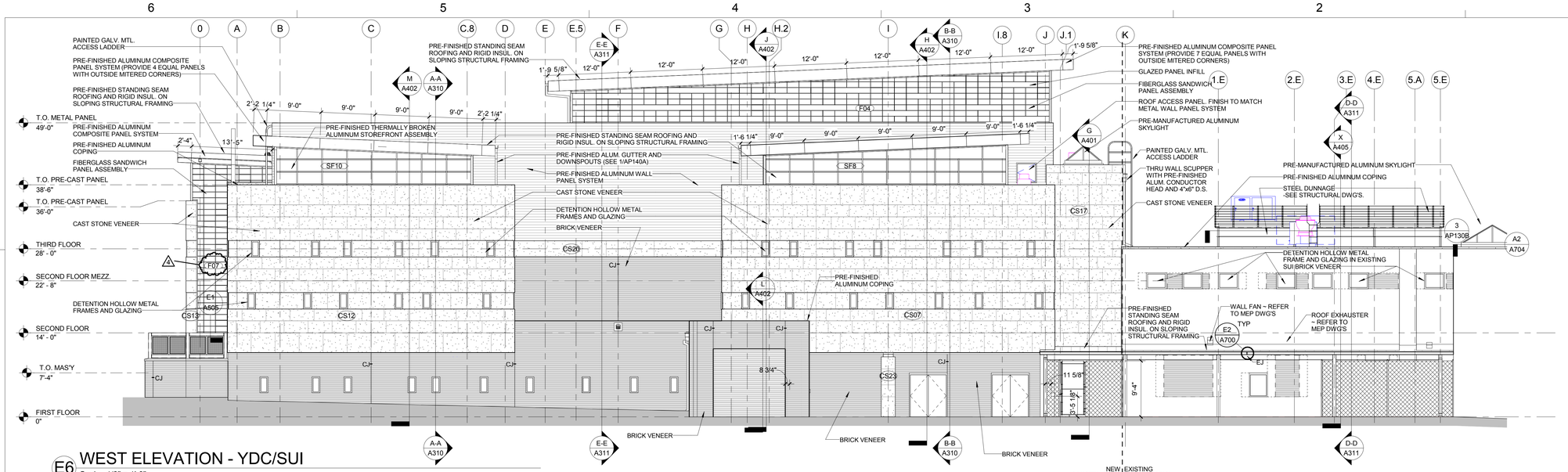
TITLE

EXTERIOR ELEVATIONS

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

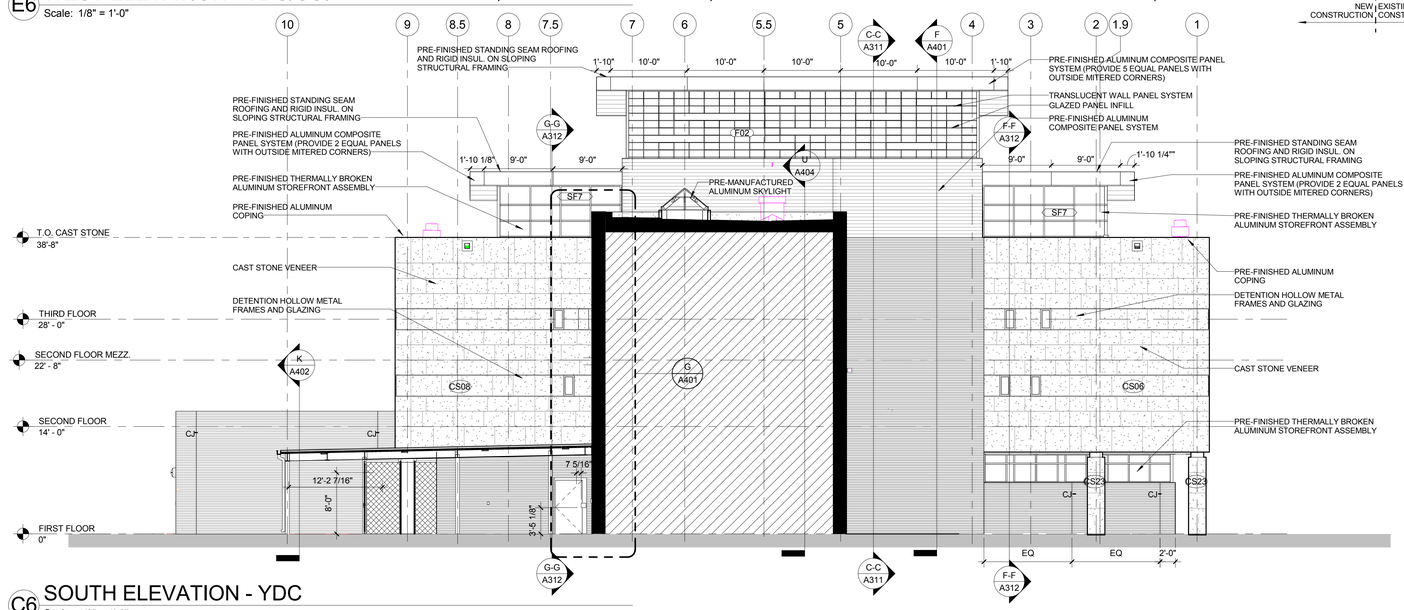
A300

SHEET NO.



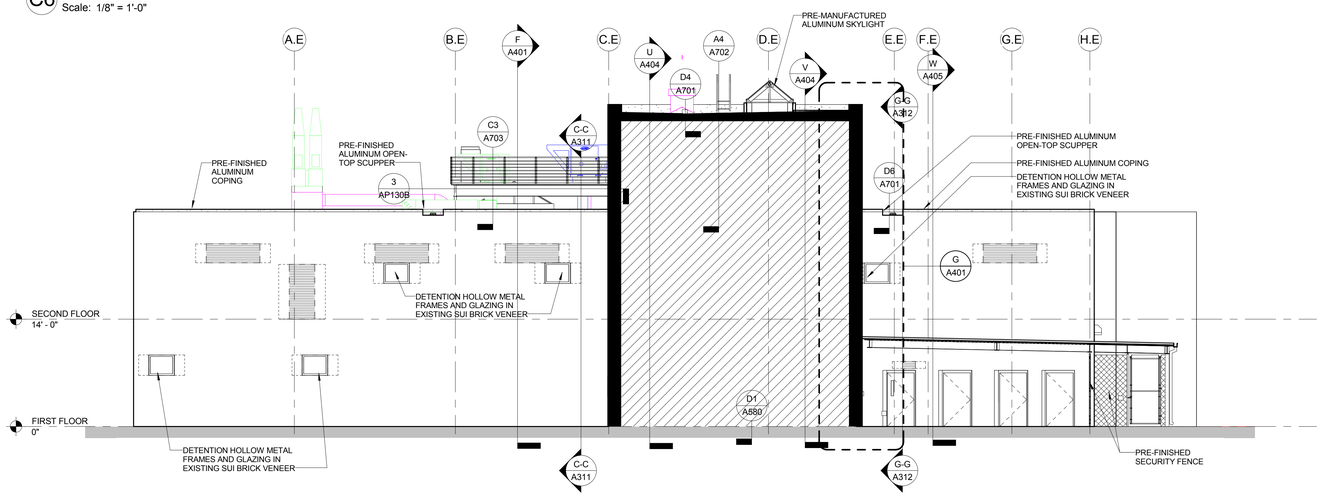
E6 WEST ELEVATION - YDC/SUI

Scale: 1/8" = 1'-0"



C6 SOUTH ELEVATION - YDC

Scale: 1/8" = 1'-0"



A6 NORTH ELEVATION - SUI

Scale: 1/8" = 1'-0"

GENERAL NOTES - BUILDING ELEVATIONS

1. SEE SHEET SERIES A320 FOR ARCHITECTURAL CAST STONE (CS##) ELEVATIONS
2. SEE SHEET A620 FOR ALUMINUM FRAME (SF##) ELEVATIONS
3. SEE SHEET F3/A532 FOR CJ (CONTROL JOINT) DETAIL
4. SEE SHEET A620 FOR FIBERGLASS SANDWICH PANEL ASSEMBLY (F##) ELEVATIONS

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS
EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
10003 TYPE PARK DR, SUITE 1000
11350 MCCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1115
TERRALOGOS
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

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BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEGIC STATE OF MARYLAND

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KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	KAF, DEW
APPROVED BY	JLB
CHECKED BY	KAF
DATE	02-05-2015

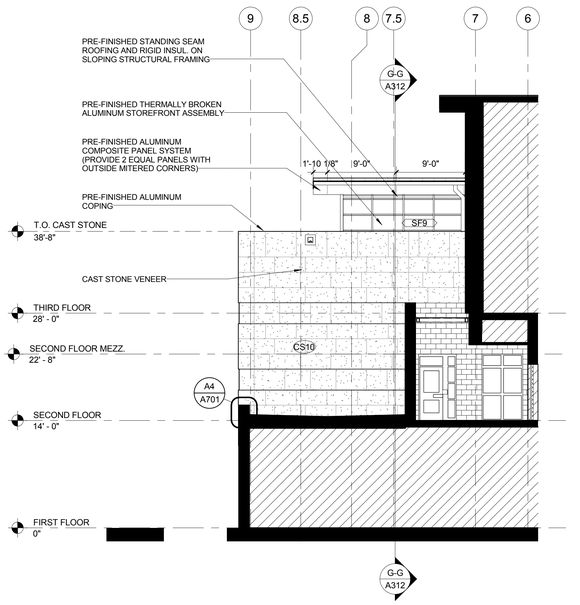
TITLE

EXTERIOR ELEVATIONS

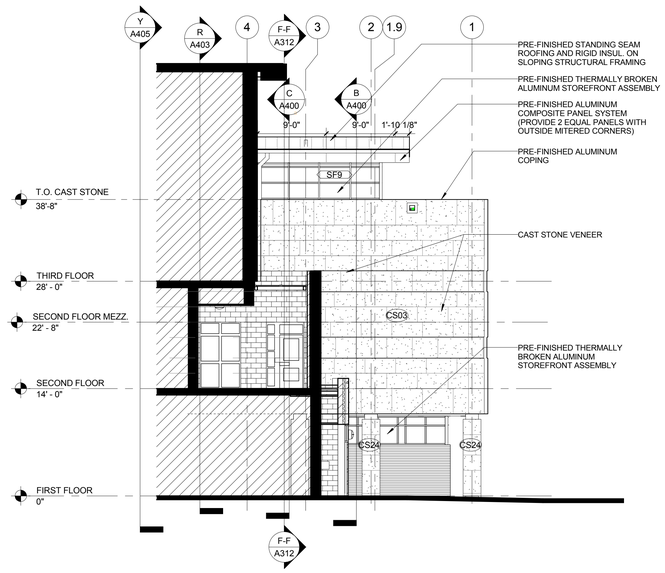
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

A301

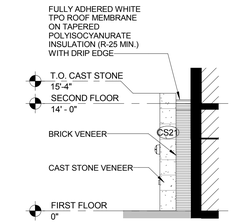
SHEET NO.



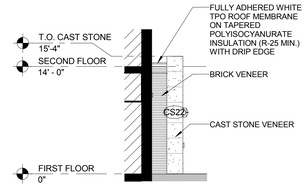
D6 1/AP110A
Scale: 1/8" = 1'-0"



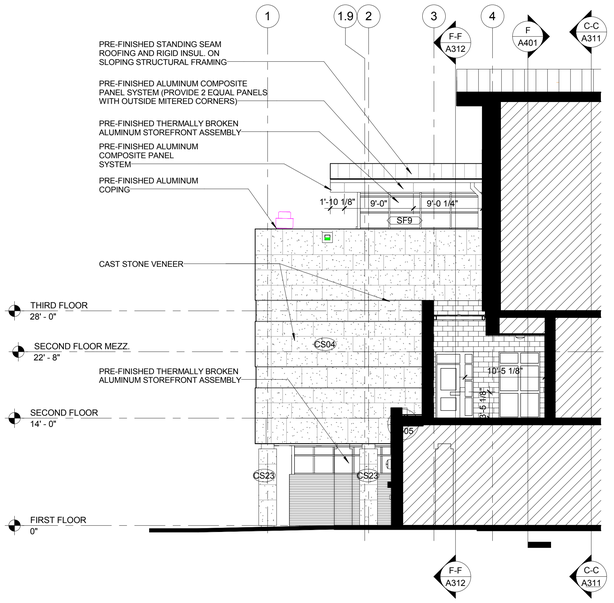
D4 1/AP110A
Scale: 1/8" = 1'-0"



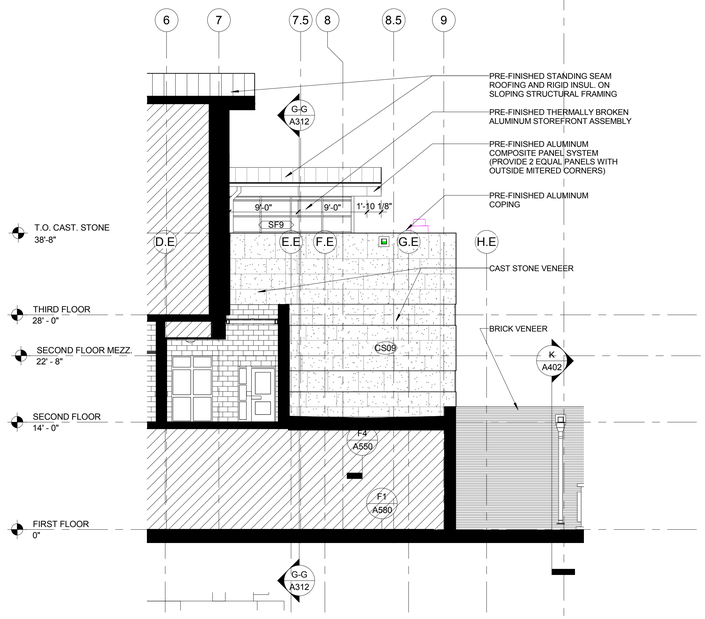
D2 3/A200
Scale: 1/8" = 1'-0"



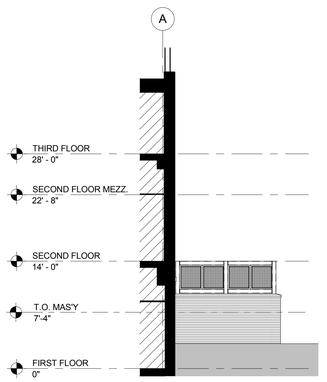
D1 3/A200
Scale: 1/8" = 1'-0"



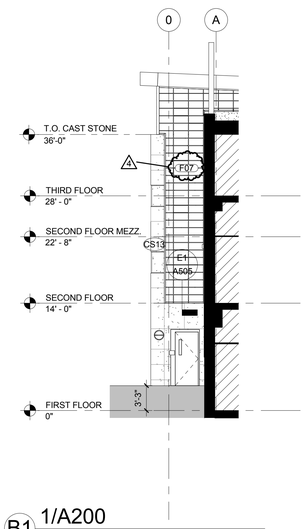
B6 1/AP110A
Scale: 1/8" = 1'-0"



B4 1/AP110A
Scale: 1/8" = 1'-0"



B2 1/A200
Scale: 1/8" = 1'-0"
1/A200



B1 1/A200
Scale: 1/8" = 1'-0"

GENERAL NOTES - BUILDING ELEVATIONS

1. SEE SHEET SERIES A320 FOR ARCHITECTURAL CAST STONE (CS##) ELEVATIONS
2. SEE SHEET A620 FOR ALUMINUM FRAME (SF##) ELEVATIONS
3. SEE SHEET F3/A532 FOR CJ (CONTROL JOINT) DETAIL
4. SEE SHEET A620 FOR FIBERGLASS SANDWICH PANEL ASSEMBLY (FB##) ELEVATIONS

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS
EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
KROUTVU PLAZA III, SUITE 1000 11350 MCCORMICK ROAD HUNT VALLEY, MARYLAND 21031 PHONE (410) 329-1115
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STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BRIGHT STATE OF MARYLAND

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KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	KAF, DEW
APPROVED BY	JLB
CHECKED BY	KAF
DATE	02-05-2015

TITLE

EXTERIOR ELEVATIONS

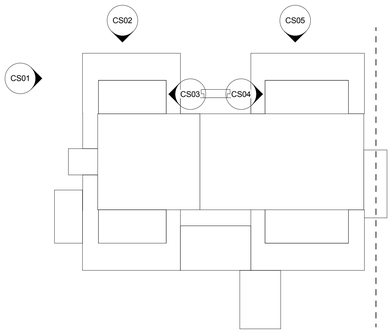
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

A302

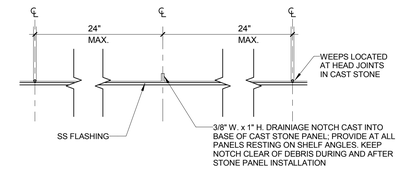
SHEET NO.

GENERAL NOTES - CAST STONE ELEVATIONS

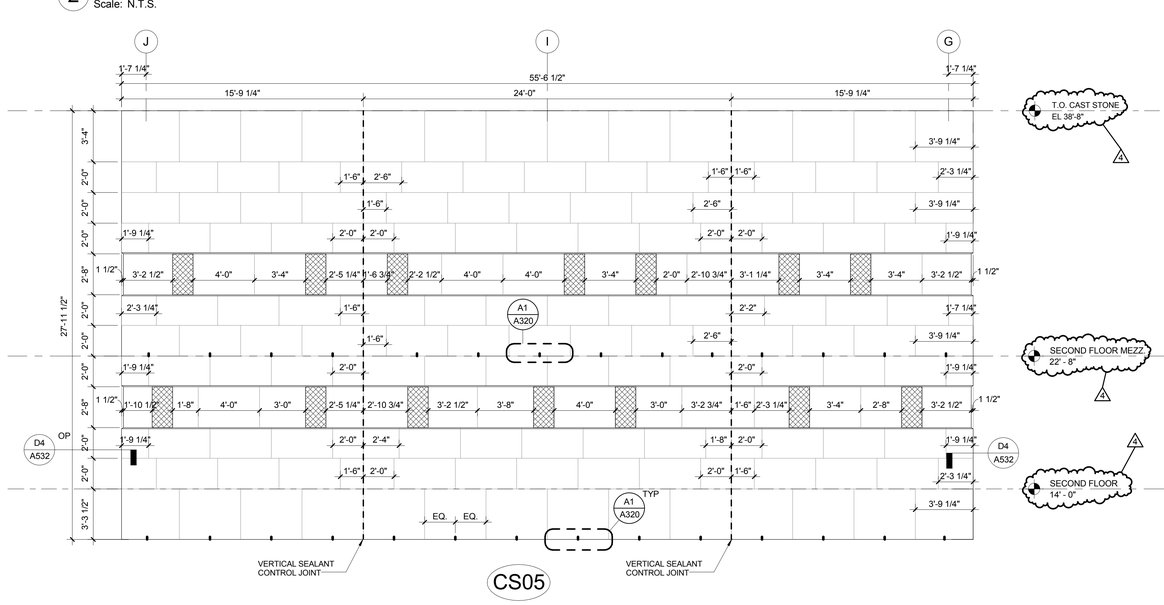
1. SEE SHEET SERIES A300 FOR ARCHITECTURAL CAST STONE ELEVATION LOCATIONS
2. ALL PANELS 4'-0" W. UNLESS OTHERWISE DIMENSIONED
3. FIELD VERIFY ALL DIMENSION PRIOR TO ORDER AND INSTALLATION
4. CONTROL JOINTS SHOWN ARE FOR INTENT ONLY; CAST STONE MANUFACTURER SHALL PROVIDE SHOP DRAWINGS SHOWING DETAILS OF ALL CONTROL JOINT CONDITIONS AND LOCATE CONTROL JOINTS IN CAST STONE ELEVATIONS PER CAST STONE INSTITUTE RECOMMNEDATIONS

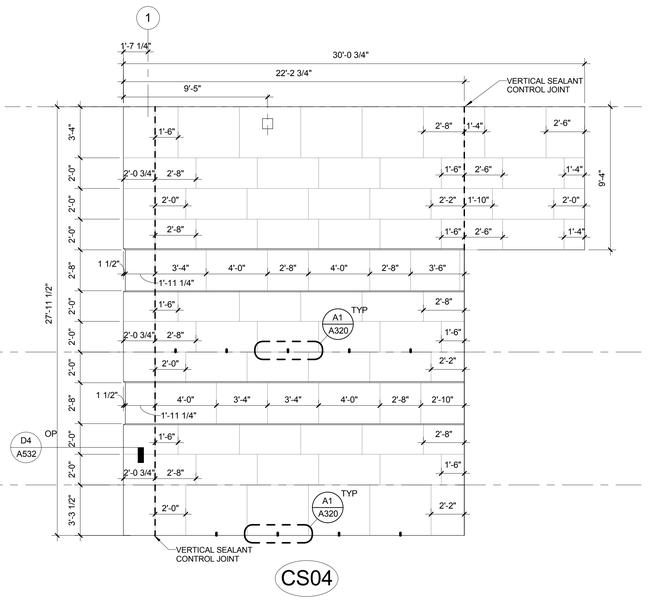


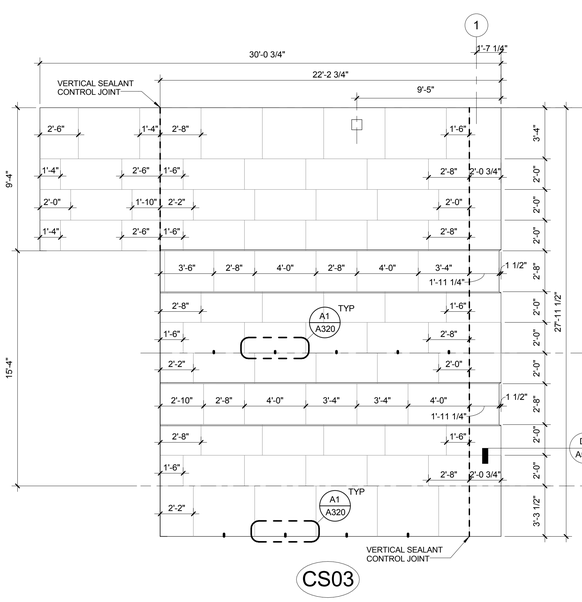
2 KEY PLAN
Scale: N.T.S.

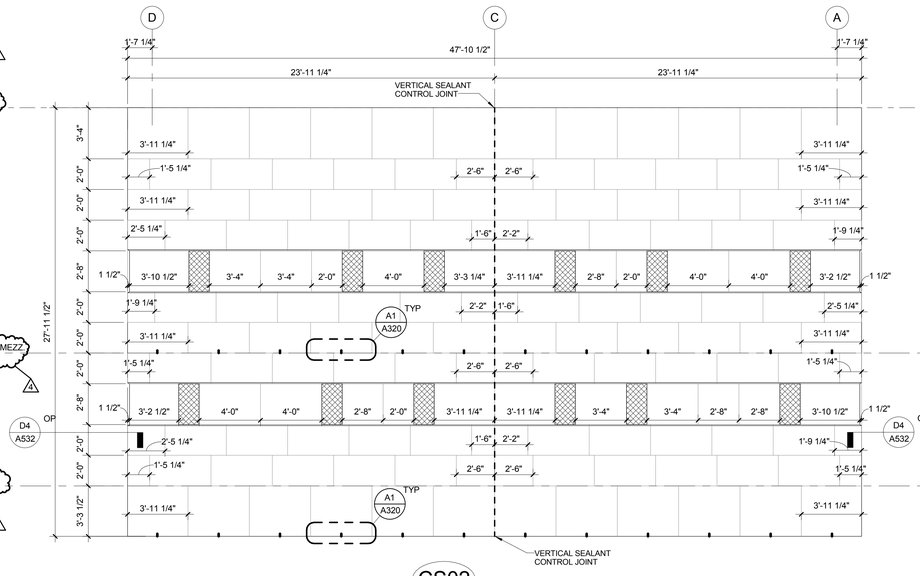


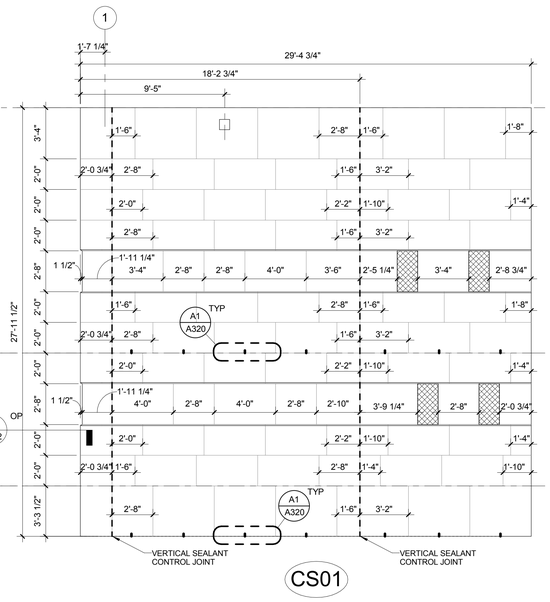
A1 DRAINAGE NOTCH DETAIL
Scale: 1 1/2" = 1'-0"











1 CAST STONE ELEVATIONS
Scale: 1/4" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
KRUSTYPE PLAZA III, SUITE 1000
11350 MCCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1115

TERRALOGOS
ECO ARCHITECTURE PC

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

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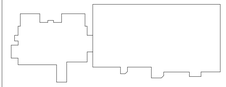
BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEIGIE STATE OF MARYLAND

THE CONTRACT DOCUMENTS FOR THE INDICATED PUBLIC IMPROVEMENT WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THEY COMPLY WITH THE RELEVANT BUILDING CODES OF THE STATE OF MARYLAND. LICENSE NUMBER 13814, EXPIRATION DATE 3/28/2015.

KEY PLAN



SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	DEW
APPROVED BY	CRD
CHECKED BY	KAF
DATE	02-05-2015

TITLE

CAST STONE ELEVATIONS

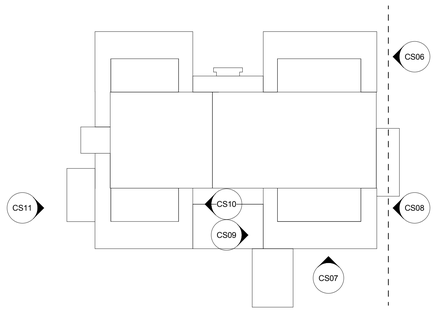
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

A320

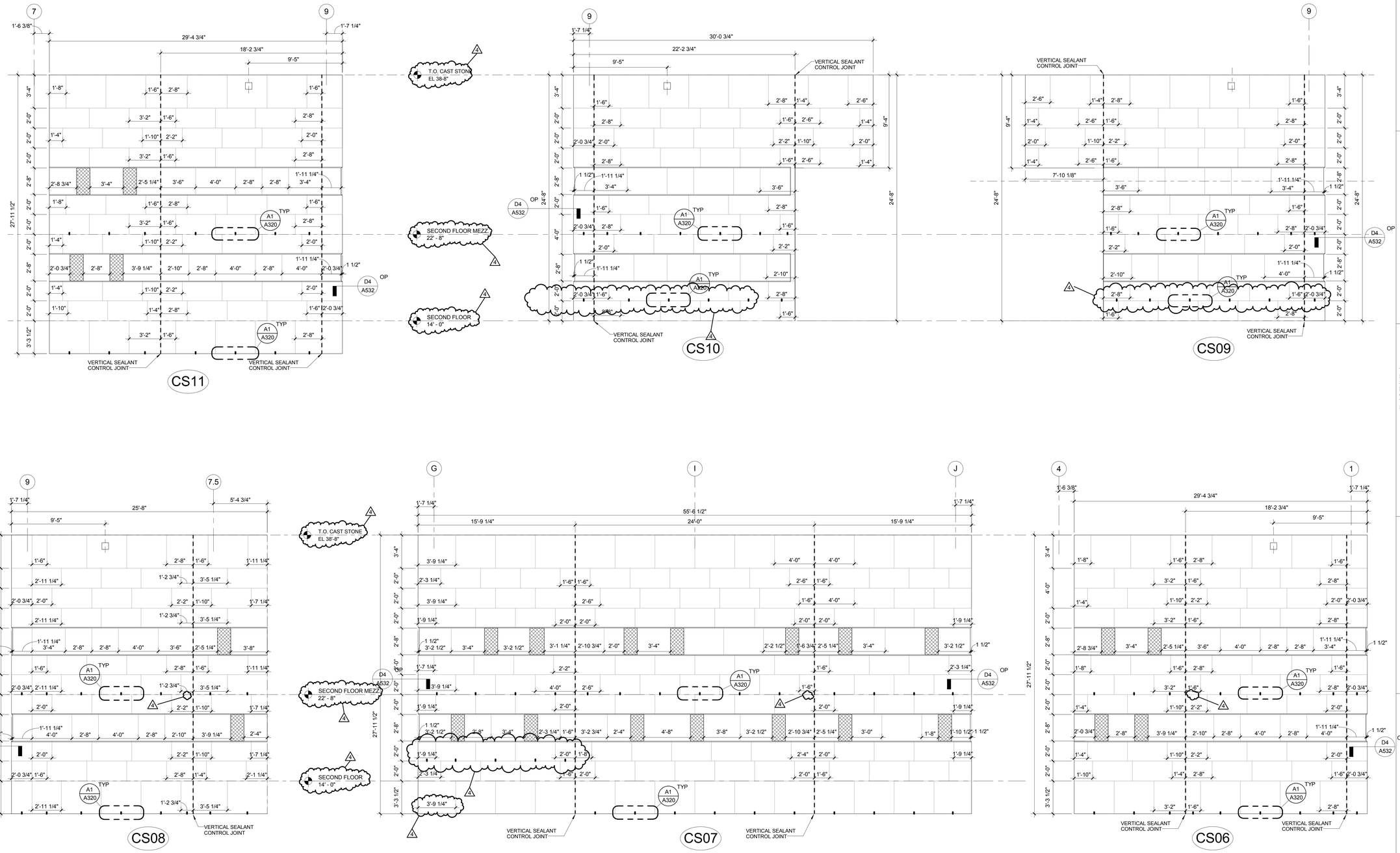
SHEET NO.

GENERAL NOTES - CAST STONE ELEVATIONS

1. SEE SHEET SERIES A300 FOR ARCHITECTURAL CAST STONE ELEVATION LOCATIONS
2. ALL PANELS 4'-0" W. UNLESS OTHERWISE DIMENSIONED
3. FIELD VERIFY ALL DIMENSION PRIOR TO ORDER AND INSTALLATION
4. CONTROL JOINTS SHOWN ARE FOR INTENT ONLY; CAST STONE MANUFACTURER SHALL PROVIDE SHOP DRAWINGS SHOWING DETAILS OF ALL CONTROL JOINT CONDITIONS AND LOCATE CONTROL JOINTS IN CAST STONE ELEVATIONS PER CAST STONE INSTITUTE RECOMMNEDATIONS



2 KEY PLAN
Scale: N.T.S.



1 CAST STONE ELEVATIONS
Scale: 1/4" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
KRISTINE PLAZA III, SUITE 1000 11350 MCCORMICK ROAD HUNT VALLEY, MARYLAND 21031 PHONE (410) 329-1115
TERRALOGOS ECO ARCHITECTURE PC
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

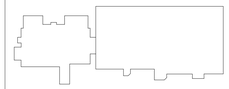
BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEIGHT STATE OF MARYLAND

THE CONTRACT DOCUMENTS FOR THE INDICATED PUBLIC IMPROVEMENT WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THEY COMPLY WITH THE RELEVANT BUILDING CODES OF THE STATE OF MARYLAND. LICENSE NUMBER 13814, EXPIRATION DATE 3/28/2015.

KEY PLAN



SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	DEW
APPROVED BY	CRD
CHECKED BY	KAF
DATE	02-05-2015

TITLE

CAST STONE ELEVATIONS

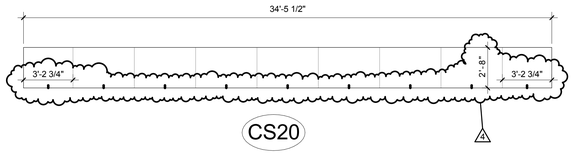
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

A321

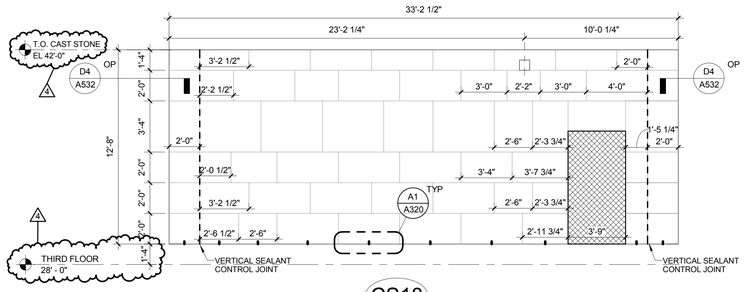
SHEET NO.

GENERAL NOTES - CAST STONE ELEVATIONS

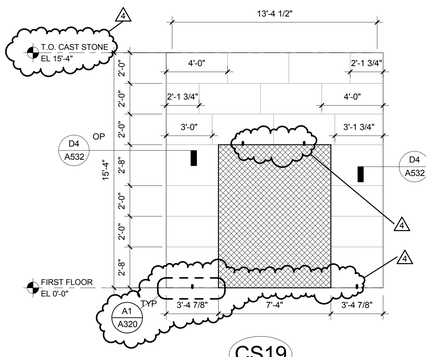
1. SEE SHEET SERIES A300 FOR ARCHITECTURAL CAST STONE ELEVATION LOCATIONS
2. ALL PANELS 4'-0" W. UNLESS OTHERWISE DIMENSIONED
3. FIELD VERIFY ALL DIMENSION PRIOR TO ORDER AND INSTALLATION
4. CONTROL JOINTS SHOWN ARE FOR INTENT ONLY; CAST STONE MANUFACTURER SHALL PROVIDE SHOP DRAWINGS SHOWING DETAILS OF ALL CONTROL JOINT CONDITIONS AND LOCATE CONTROL JOINTS IN CAST STONE ELEVATIONS PER CAST STONE INSTITUTE RECOMMNEDATIONS



CS20



CS18



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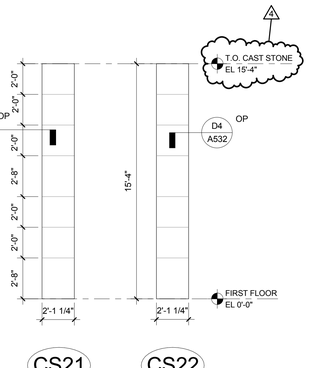
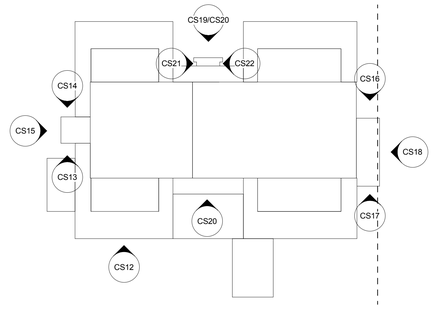
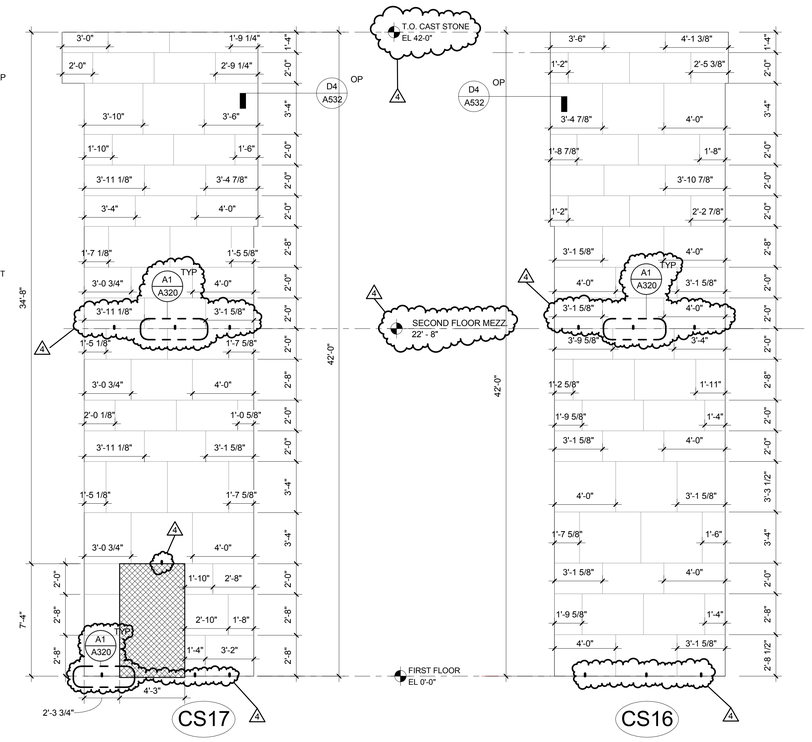


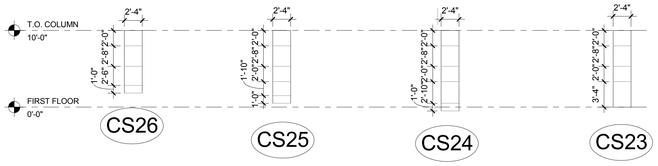
CS21 CS22



3 KEY PLAN
Scale: N.T.S.

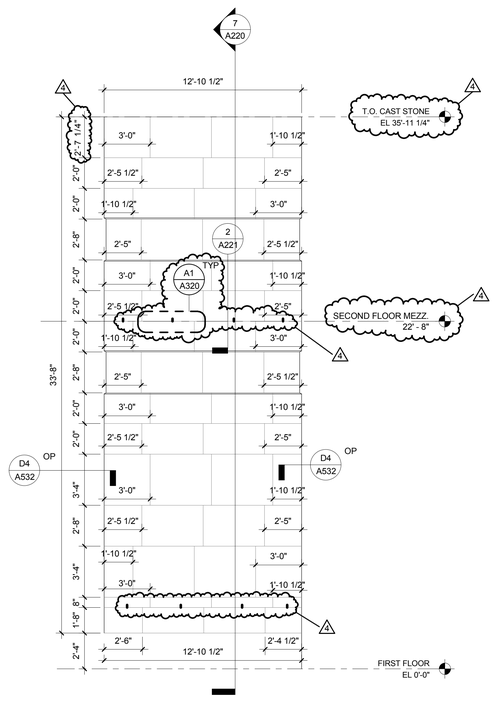


CS17 CS16



CS26 CS25 CS24 CS23

2 CAST STONE COLUMN ELEVATIONS
Scale: 1/8" = 1'-0"



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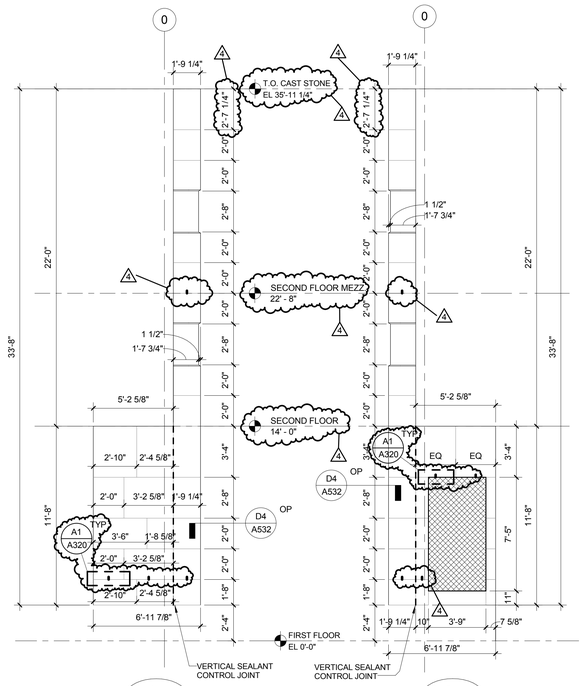
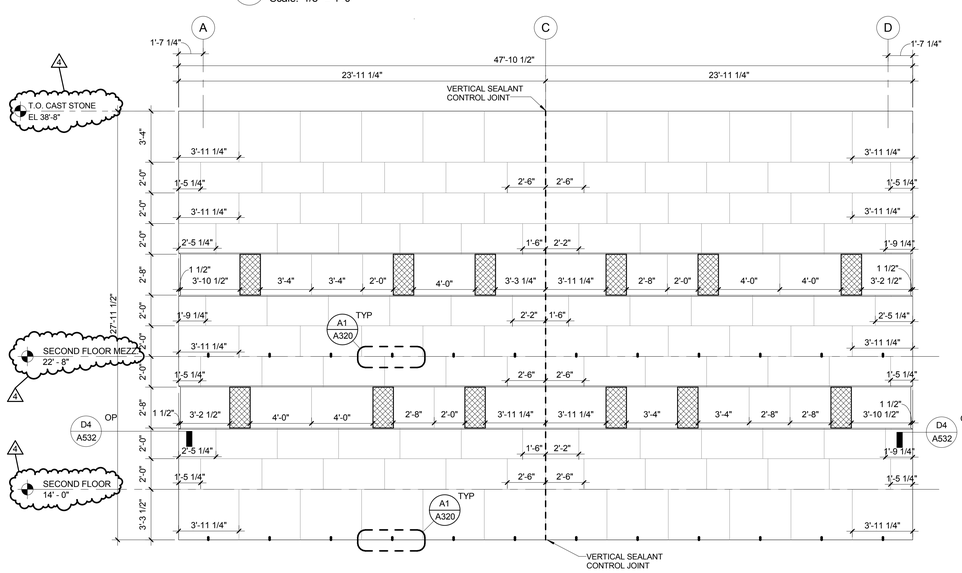


CS14 CS13



CS12

1 CAST STONE ELEVATIONS
Scale: 1/4" = 1'-0"

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KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	DEW
APPROVED BY	CRD
CHECKED BY	KAF
DATE	02-05-2015

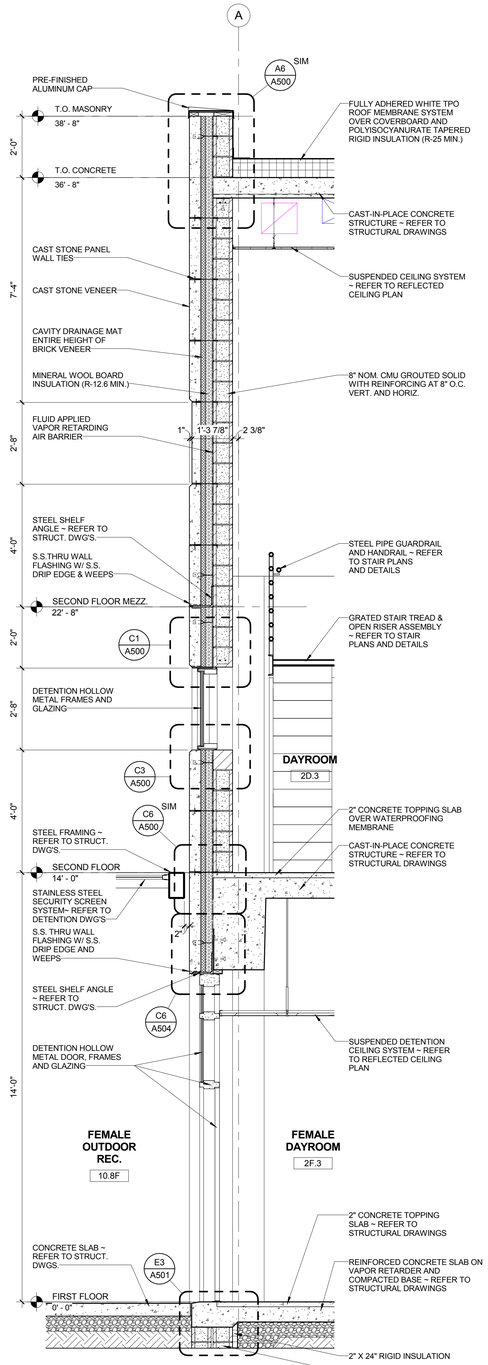
TITLE

CAST STONE ELEVATIONS

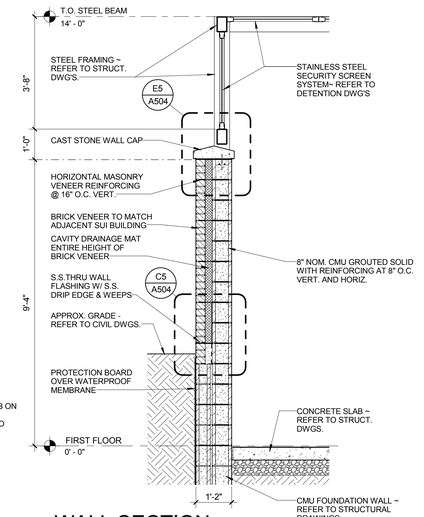
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

A322

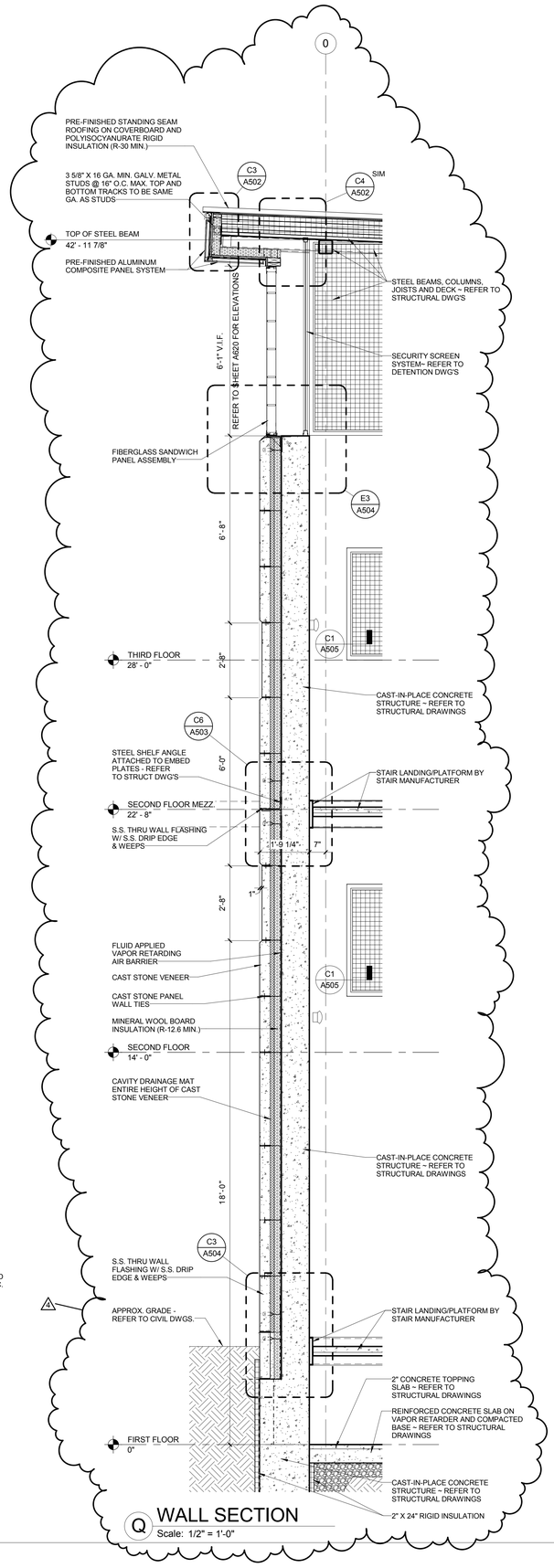
SHEET NO.



N WALL SECTION
Scale: 1/2" = 1'-0"



P WALL SECTION
Scale: 1/2" = 1'-0"



Q WALL SECTION
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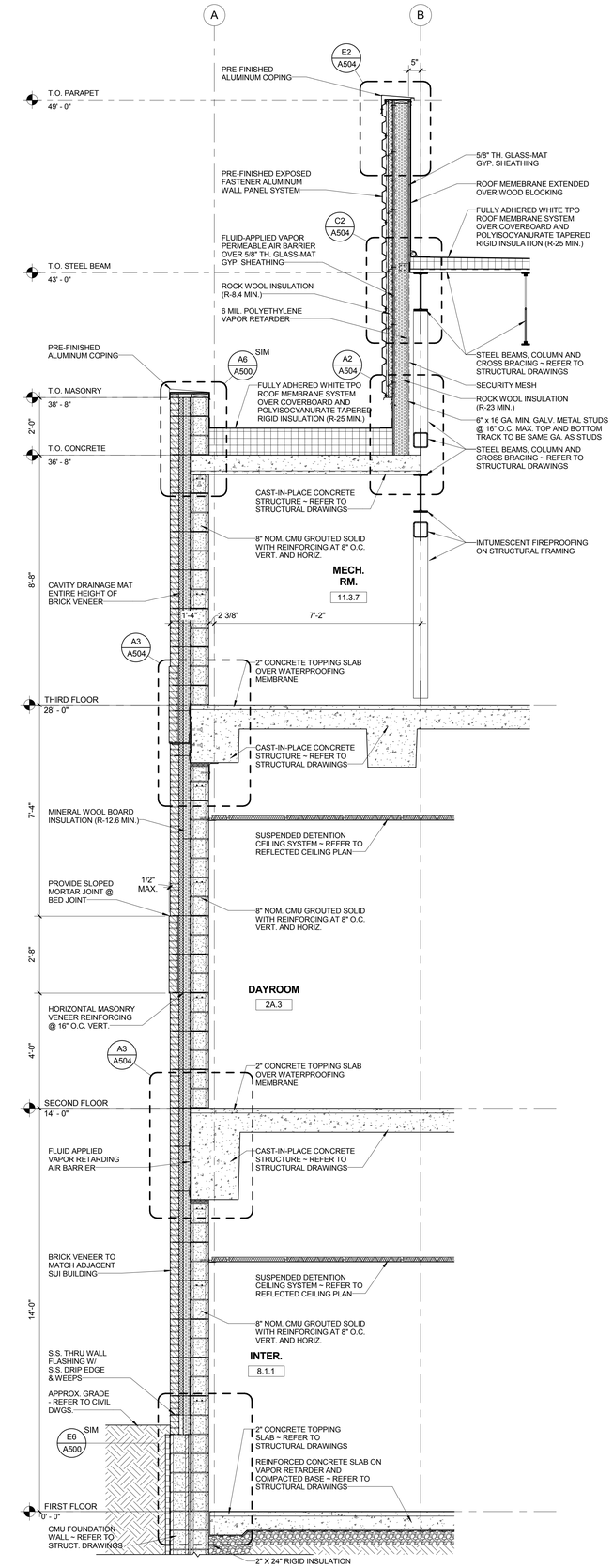

R WALL SECTION
Scale: 1/2" = 1'-0"

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KEY PLAN

SCALE

1/2" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	KAF
APPROVED BY	JLB
CHECKED BY	CRD
DATE	02-05-2015

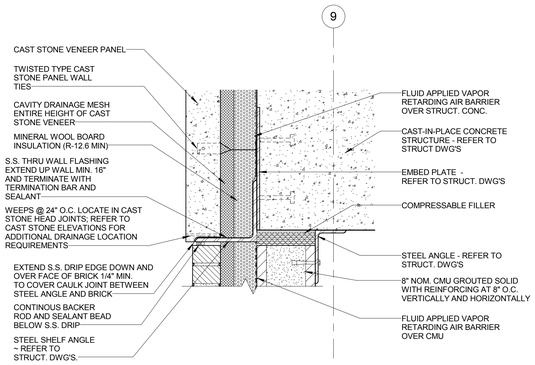
TITLE

WALL SECTIONS

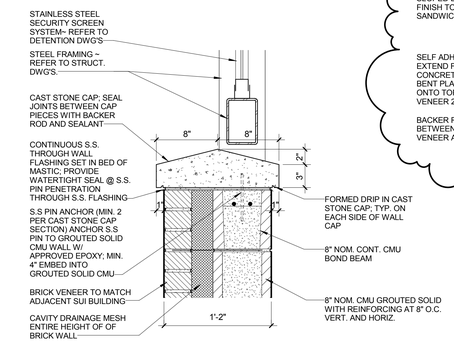
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

A403

SHEET NO.



E6 M/A402
Scale: 1 1/2" = 1'-0"



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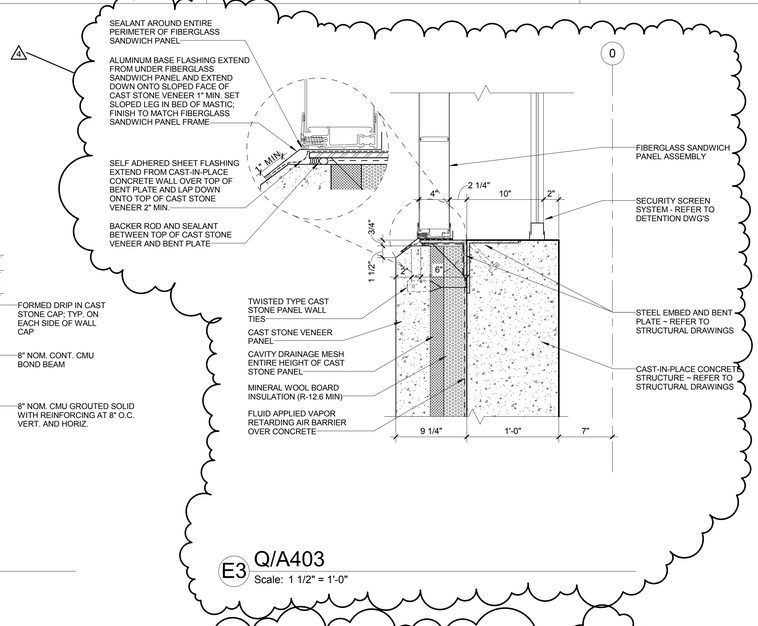

E3 Q/A403
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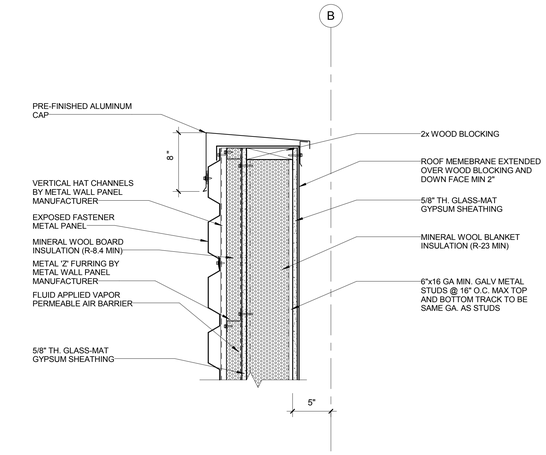
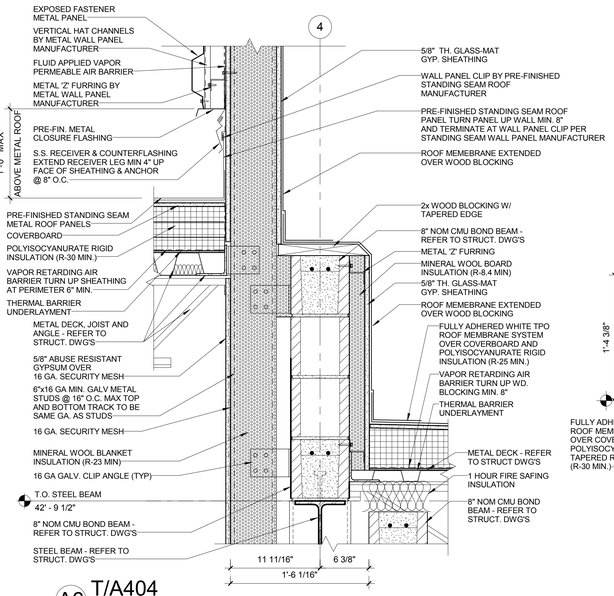
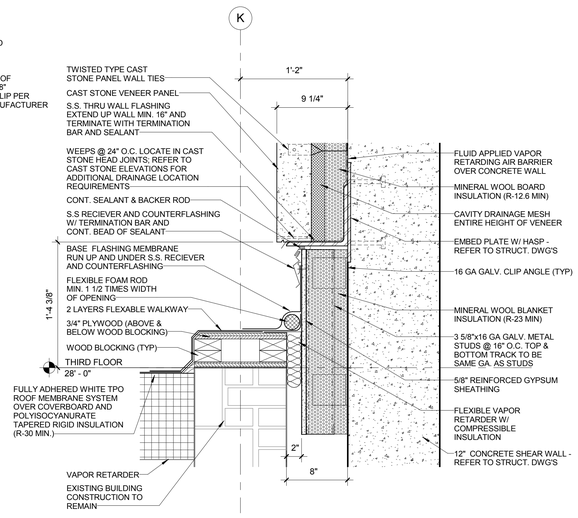


E2 R/A403
Scale: 1 1/2" = 1'-0"



A6 T/A404
Scale: 1 1/2" = 1'-0"



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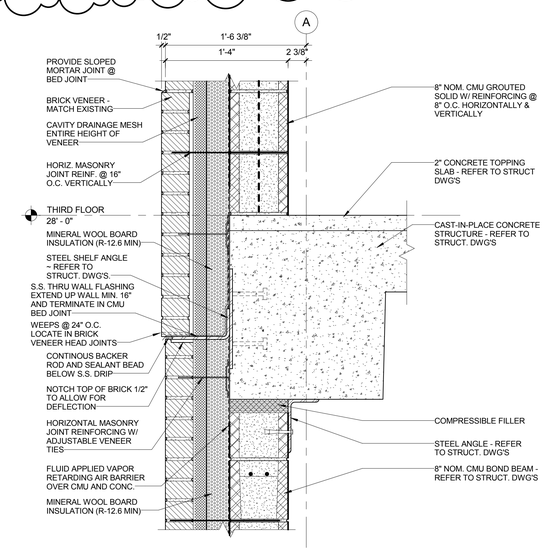
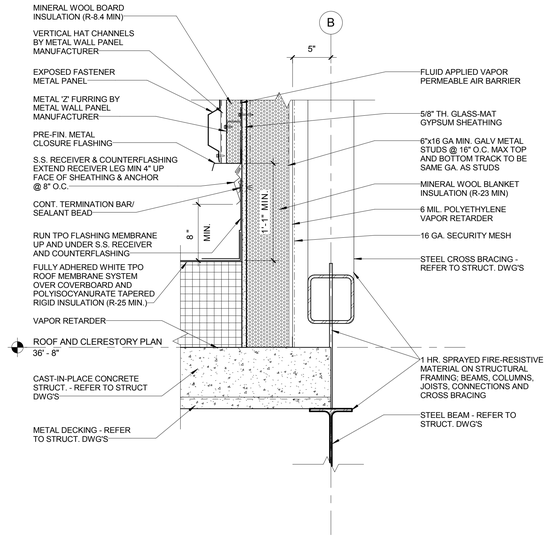


A3 R/A403
Scale: 1 1/2" = 1'-0"



A2 R/A403
Scale: 1 1/2" = 1'-0"

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KEY PLAN

SCALE
1 1/2" = 1'-0"

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

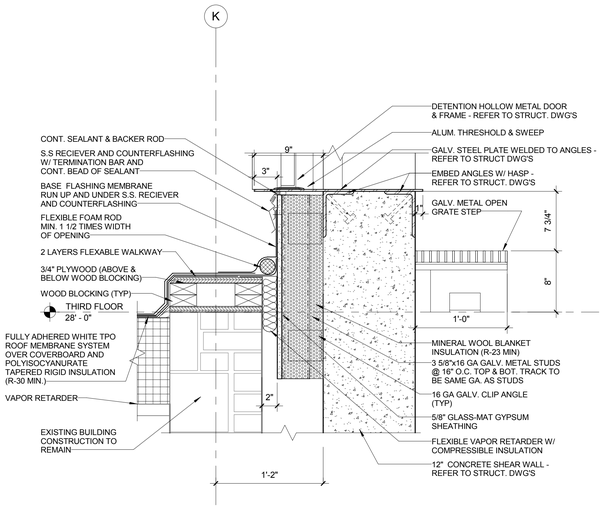
DRAWN BY	GLJ
APPROVED BY	JLB
CHECKED BY	KAF
DATE	02-05-2015

TITLE
CONSTRUCTION DETAILS

PSA-DEWBERRY PROJECT NO. 50061725
DPSCS CONTRACT NO. KT-000-150-C01

A504

SHEET NO.



E6 U/A404
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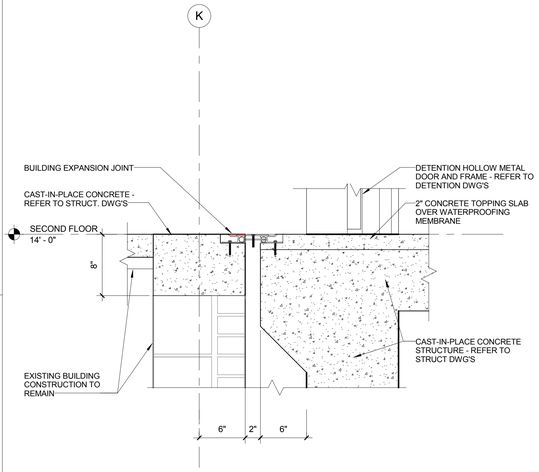

C6 U/A404
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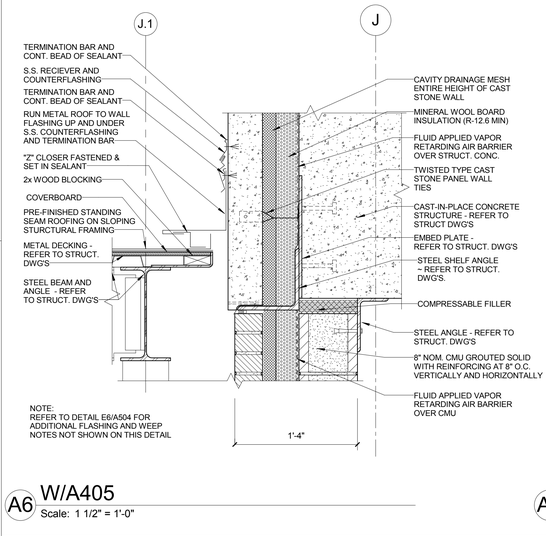

A6 W/A405
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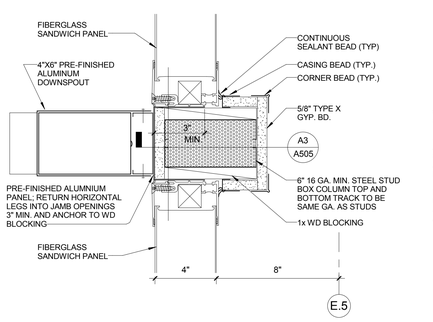
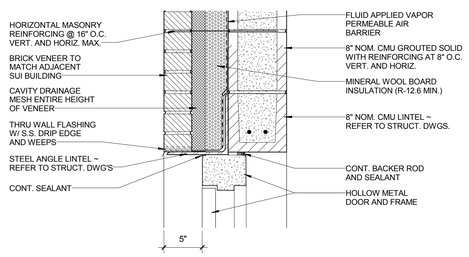


B4 3/A620
Scale: 3" = 1'-0"



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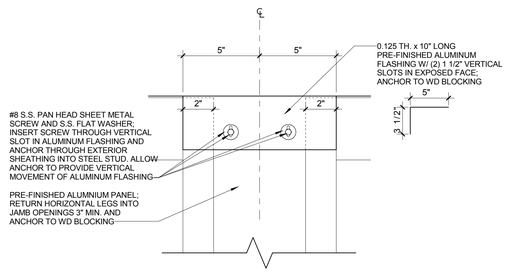
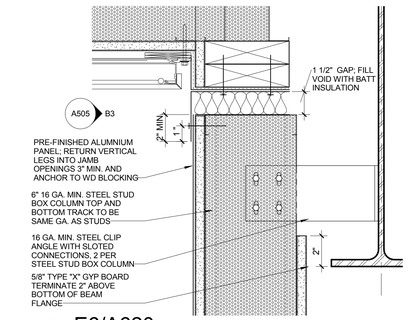
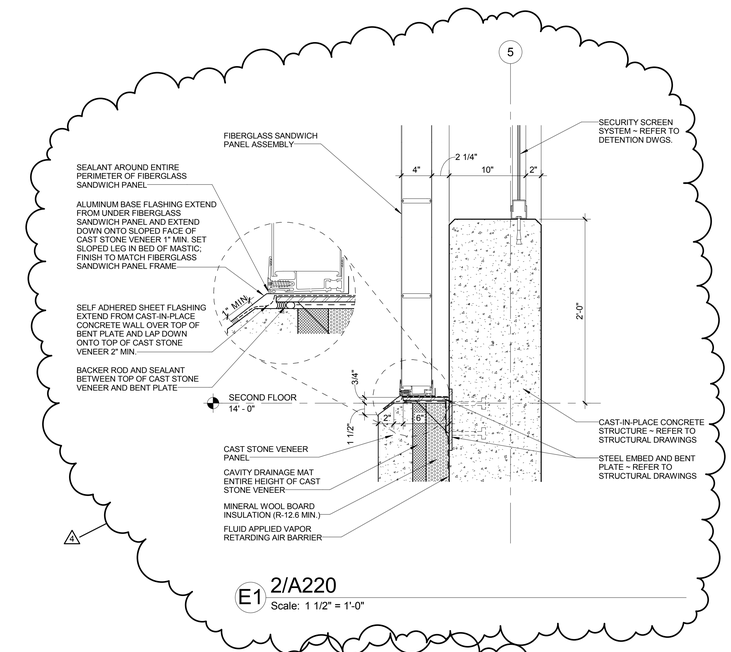


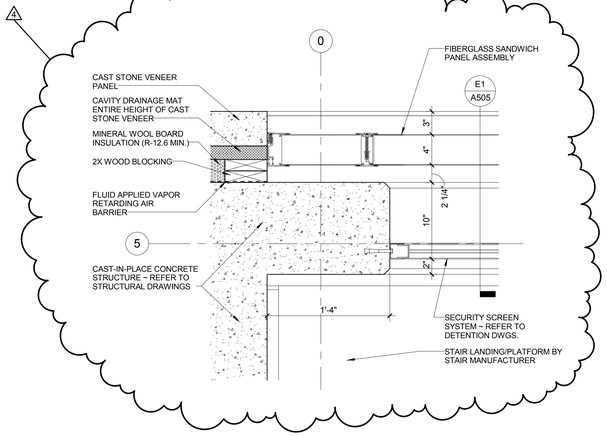
B3 CLOSURE PLATE ELEVATION
Scale: 3" = 1'-0"



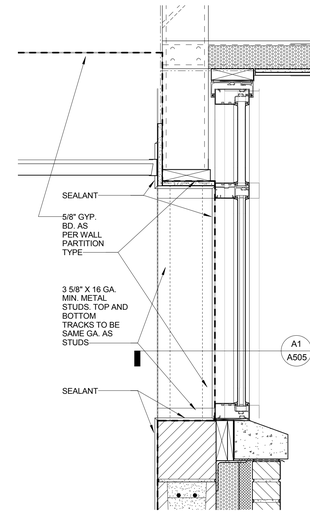
A3 E6/A620
Scale: 3" = 1'-0"



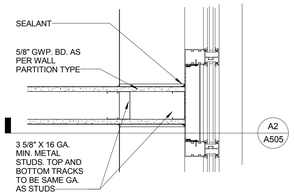
E1 2/A220
Scale: 1 1/2" = 1'-0"



C1 2/A220
Scale: 1 1/2" = 1'-0"



A2 A4/A582
Scale: 1 1/2" = 1'-0"



A1 1/AP110A, A2/A505
Scale: 1 1/2" = 1'-0"

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KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	GLJ
APPROVED BY	JLB
CHECKED BY	KAF
DATE	02-05-2015

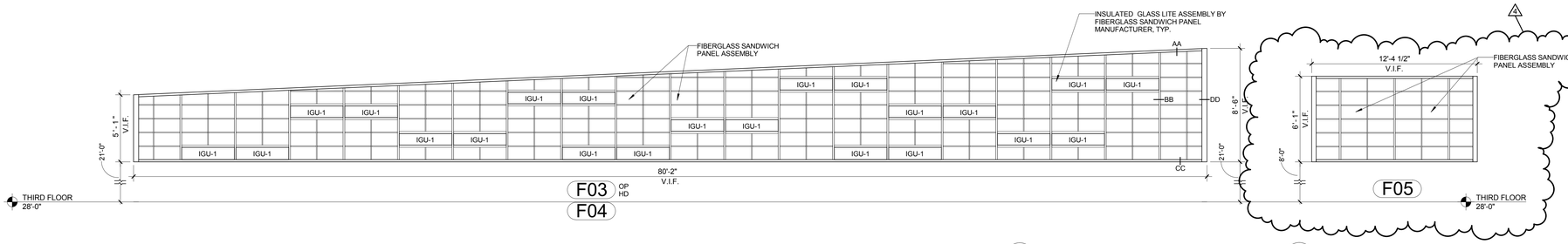
TITLE

CONSTRUCTION DETAILS

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

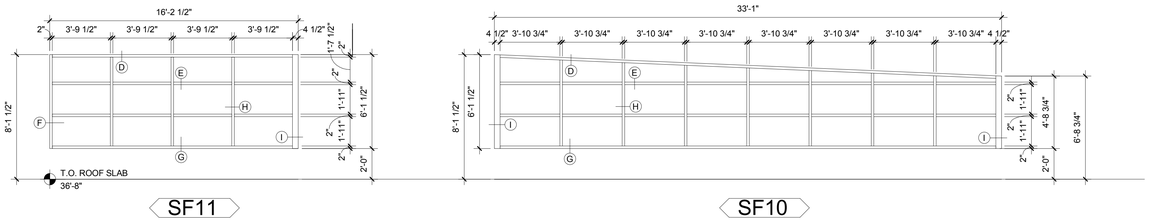
A505

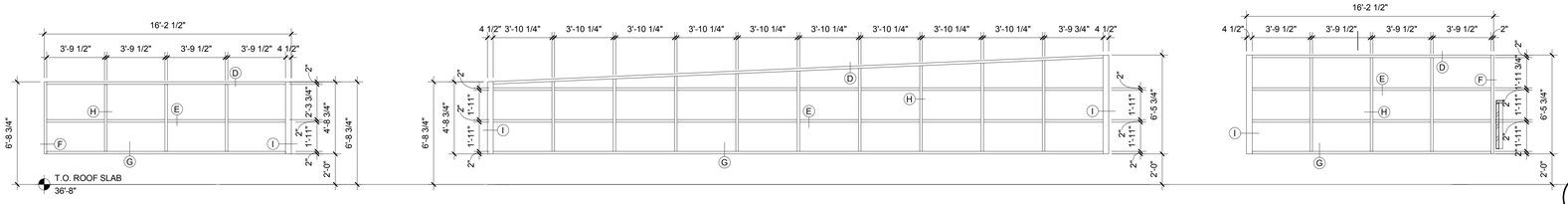
SHEET NO.

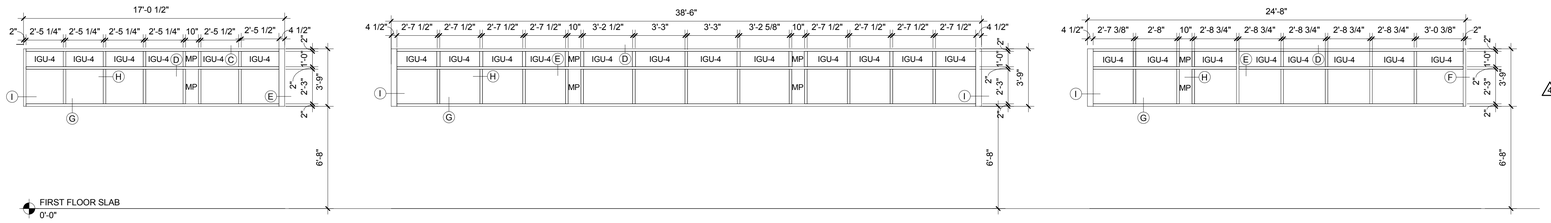


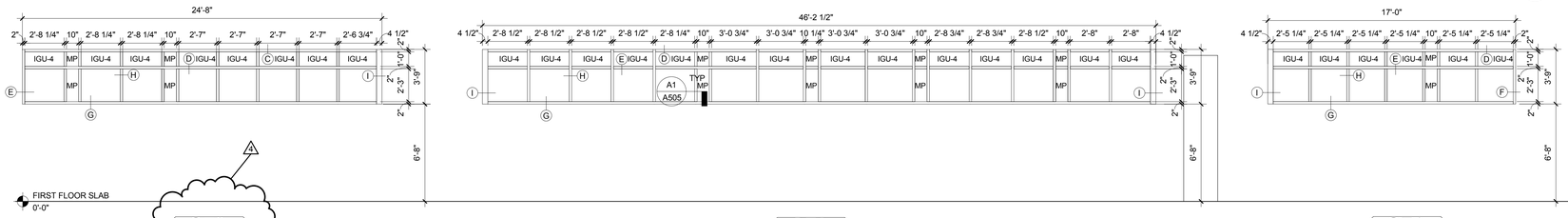
E6 FIBERGLASS SANDWICH PANEL ELEVATIONS

Scale: 1/4" = 1'-0"







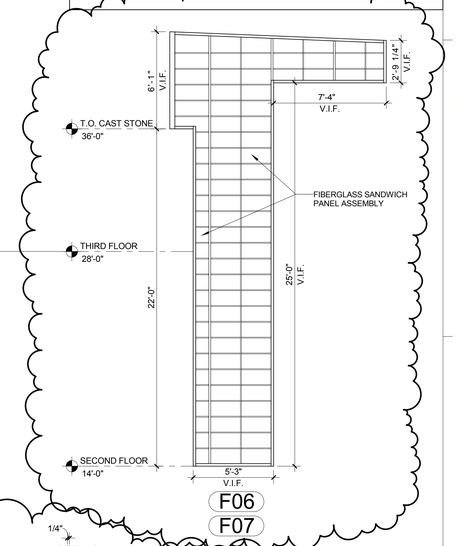


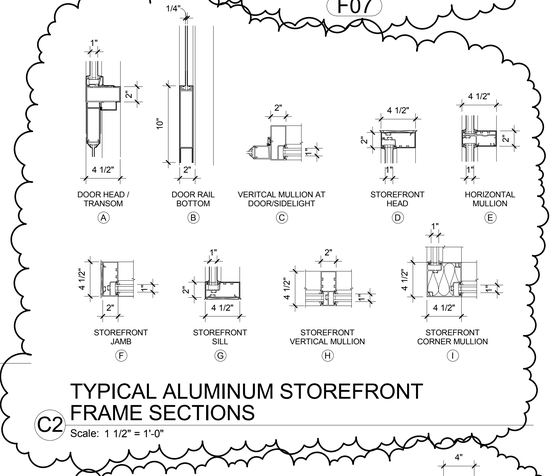
A6 ALUMINUM STOREFRONT ELEVATIONS

Scale: 1/4" = 1'-0"

GENERAL SHEET NOTES

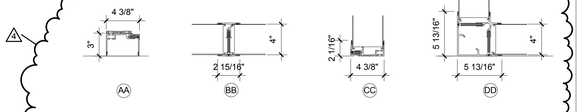
1. PROVIDE IGU-1 GLAZING IN ALL FRAMES ELEVATED ON THIS SHT, UNLESS OTHERWISE NOTED ON FRAME ELEVATION.
2. REFER TO PROJECT MANUAL DIVISION 08 41 13 FOR ALUMINUM STOREFRONT FRAMING.
3. REFER TO PROJECT MANUAL SPEC SECTION 088000 FOR GLAZING TYPES DESIGNATED ON THIS SHT.
4. REFER TO BUILDING PLANS AND ELEVATIONS FOR LOCATIONS OF FRAME TYPES.
5. FIELD VERIFY ROUGH OPENINGS PRIOR TO FABRICATION.
6. PROVIDE INSULATED METAL INFILL PANELS GLAZED INTO FRAMING WHERE INDICATED AS "MP" ON FRAME TYPE ELEVATIONS. PANEL FINISH TO MATCH FRAMING.
7. REFER TO PROJECT MANUAL SPEC SECTION 08 45 23 FOR FIBERGLASS SANDWICH PANEL ASSEMBLIES





C2 TYPICAL ALUMINUM STOREFRONT FRAME SECTIONS

Scale: 1 1/2" = 1'-0"



B2 FIBERGLASS SANDWICH PANEL FRAME SECTIONS

Scale: 1 1/2" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

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LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEIGHT STATE OF MARYLAND

THE CONTRACT DOCUMENTS FOR THE INDICATED PUBLIC IMPROVEMENT WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THEY COMPLY WITH THE RELEVANT BUILDING CODES OF THE STATE OF MARYLAND. LICENSE NUMBER 13814, EXPIRATION DATE 3/28/2015.

KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	DEW
APPROVED BY	JLB
CHECKED BY	KAF
DATE	02-05-2015

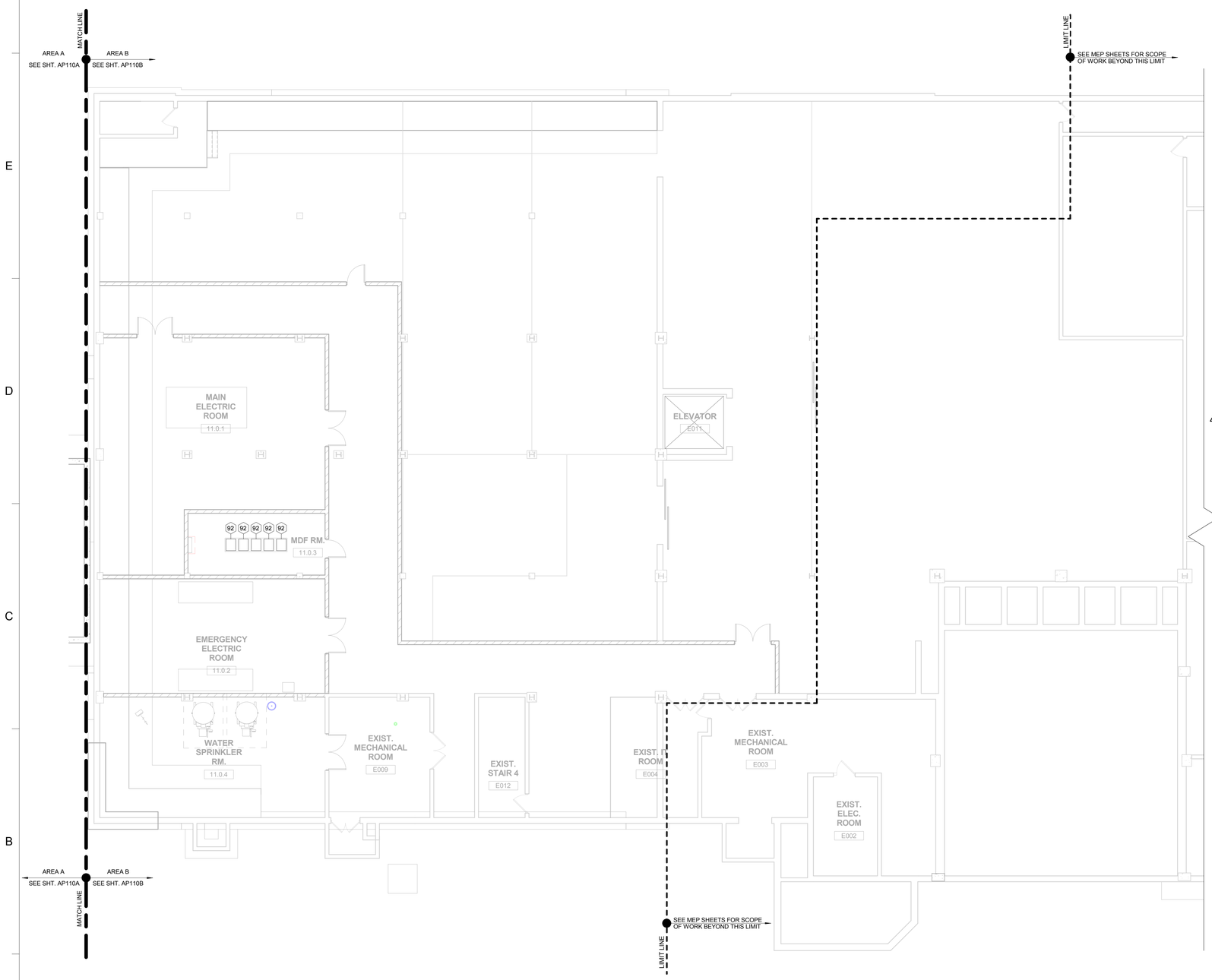
TITLE

ALUMINUM DOOR AND FRAME ELEVATIONS

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

A620

SHEET NO.



N 1 BASEMENT FLOOR PLAN - F, F, & E

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL EQUIPMENT INSTALLATION.
2. COORDINATE EXACT UTILITY CONNECTIONS WITH EQUIPMENT.
3. PROVIDE CONCEALED FIRE TREATED WD BLKG FOR ALL EQUIP. MTD ON MTL STUD PARTITION WALLS. COORD BLOCKING LOCATIONS AND EXTENTS WITH WITH EQUIPMENT REQUIREMENTS.
4. SEE DRAWINGS AND PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL REQUIRED EQUIPMENT NOT LISTED HERE.
5. FINAL UTILITY CONNECTIONS BY DESIGNATED EQUIPMENT INSTALLER, U.N.O.
6. SEE PROJECT MANUAL SPECIFICATIONS FOR TAMPER-PROOF METAL FASTENER REQUIREMENTS.
7. SEE DETENTION DOCUMENTS FOR DETENTION EQUIPMENT REQUIREMENTS.
8. SEE FOOD SERVICE AND LAUNDRY DOCUMENTS FOR FSL EQUIPMENT REQUIREMENTS.
9. SEE ARCHITECTURAL SITE PLAN FOR ADDITIONAL EQUIPMENT SCHEDULED HERE REQUIRING CONTRACTOR PROVIDED UTILITY CONNECTIONS.
10. IN THE SCHEDULE "O" INDICATES OWNER AND "C" INDICATES CONTRACTOR.

FURNITURE, FIXTURES, AND EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	REQ'D CONTRACTOR INSTALLED UTILITIES: COLD WATER	HOT WATER	WASTE	POWER	CABLE	DATA	MNT. HGT.	COMMENTS	QUANTITY
1	KI 60" x 24" HURRY UP TABLE #HUN246074P	O	O								1	4
2	STANDARD L-SHAPED DESK #115RDL	O	O									9
3	NEW WINDSOR FLIP-UP CHAIR	O	O									59
4	4 DRAWER LATERAL FILE #115STFC	O	O									1
5	TREK TABLE 60" DIAMETER	O	O									4
6	STANDARD CANTON STAFF CREDENZA #115STFC	O	O									20
7	4-DRAWER FILE CABINET	O	O									18
8	WALL MOUNTED 46" FLATSCREEN TV AND MOUNTING BRACKET	O	C				YES	YES			6	4
9	CLG MTD 46" FLAT SCREEN TV (O/C) AND MOUNTING BRACKET (C/C)	O	C				YES	YES			7	1
10	MEZZANINE MTD 46" FLAT SCREEN TV AND MOUNTING BRACKET	O	C				YES	YES			8	4
11	WALL MTD 46" FLAT SCREEN TV, MOUTING BRACKET, AND SECURITY HOUSING	O	C				YES	YES			9	1
12	ZUMA CANTILEVER TWO-STUDENT DESK WITH BOOK BOX #ZDESK226027BOX	O	O									39
13	MOBILE MEDICATION CART	O	O									1
14	MCE ENGAGE TASK CHAIR	O	O									5
15	COUNTERTOP DENTAL LIGHT CURING MACHINE	O	O				YES					1
16	COUNTERTOP DENTAL AMALGMATOR	O	O				YES					1
17	COUNTERTOP DENTAL ULTRASONIC CLEANING SYSTEM	O	O				YES					1
18	DENTAL CHAIR, CHAIR MNT LIGHT, CHAIR MNT DENTAL DELIVERY SYSTEM, & STOOL	O	C	YES		YES	YES				2	1
19	WALL MTD DIGITAL X-RAY AND ARM	O	C				YES		YES	3'-9"AFF		1
20	SURFACE MTD X-RAY VIEW BOX	O	C				YES			3'-6"AFF		1
21	COUNTERTOP DENTAL AUTOCLAVE STERILIZER	O	O				YES					1
22	DENTAL ASSISTANT STOOL	O	O									1
23	DENTAL PANOREX DIGITAL X-RAY	O	O				YES		YES			1
24	FLOOR MTD DENTAL COMPRESSOR	O	C			YES	YES				2	1
25	DENTAL AIR-WATER SEPARATOR	O	C	YES							2	1
26	FLOOR MTD DENTAL VACUUM PUMP	O	C	YES		YES	YES				2	1
27	MCE 3' METAL SHELVING 124009	O	O									58
28	EXAM STOOL - RITTER	O	O									2
29	EXAM TABLE, BREWER COMPANY, BASIC EXAM TABLE #4000 AND EXAM STOOL, BREWER COMPNAY, #Z2400	O	O									2
30	FOOSEBALL TABLE	O	O									1
31	PING-PONG TABLE	O	O									1
32	KI DATALINK MULTIPURPOSE TABLE 30" X 72" WITH POWER UP DMD256F/2 74P-WHITE	O	O								1	2
33	SCIENCE STOOL - VIRCO 3000 SERIES 3821LS	O	O									12
34	COMPUTER STATIONS - MCE STUDY CARREL #106180	O	O									20
35	CYBEX ELLEPTICAL - 625AT ARC TRAINER	O	O									2
36	CYBEX FUNCTIONAL TRAINER - FT450	O	O									1
37	CARBON BLUE PERFORMANCE PLUS EXERCISE BIKE	O	O									2
38	CYBEX TREDMILL - 625T	O	O				YES					2
39	FULL HEIGHT REFRIGERATOR	O	O	YES			YES					3
40	MICROWAVE, COUNTERTOP	O	O				YES				3	2
41	ALTA SIDE CHAIR #12215NAS	O	O									15
42	GUARDIAN HEAVY DUTY CHAIR, MCE #122140	O	O									13
43	TREK TABLE 48" DIAMETER	O	O									1
45	TENOR HIGH BACK #122UN7700D	O	O									16
46	STANDARD L-SHAPED DESK #115LDL	O	O									7
47	STANDARD 60"x36" BOOKCASE #115BC6036B	O	O									24
49	STANDARD 3-DRAWER LATERAL FILE CABINET #115LF3	O	O									28
50	TENOR MID BACK #122UN7700	O	O									55
51	MINI REFRIGERATOR, MAGIC CHEF APPLIANCE #MCBR383GB	O	O				YES					3
52	CLARIDGE 4'W X 4'H BULLETIN BOARD AND CABINET, 2040 (PROVIDE LEXAN POLYCARBONATE)	O	C									13
54	MEDICUS HEALTH CLEARVIEW STAINLESS STEEL TALL CABINET WITH SWING HANDLE LOCK #2571 M2 48" Wx24"Dx78"H	O	O									2
55	CLARIDGE 4'W X 4'H MARKER BOARD, S4-4x4-LCS	O	C							2'-8"AFF		23
56	CLARIDGE 8'W X 4'H MARKER BOARD, S4-4x8-LCS	O	C							2'-8"AFF		13
57	CLARIDGE 8'W X 4'H BULLETIN BOARD AND CABINET, 2046 (PROVIDE LEXAN POLYCARBONATE)	O	C							2'-8"AFF		8
61	CLARIDGE 3'W X 4'H CHALK BOARD, S4-4X3-VIT (BLACK)	O	C							2'-8"AFF		1
62	STUDENT CHAIRS, ZUMA STG ZU418 (18")											168
63	CLARIDGE 3'W X 4'H BULLETIN BOARD, S4-4X3-COR, CLARIDGE CORK	O	C							2'-8"AFF		23
64	KI DATALINK MULTI PURPOSE TABLE 36"x36" DMS3FX74P	O	O									6
65	KI PORTICO TABLE 36"Wx72"L #P36F EDGE-74P	O	O									5
67	STANDARD EXECUTIVE DESK #115ED	O	O									15
68	MEDICUS HEALTH, WIRE SHELVING KITS WITH BASKET #207TM3, 24"Dx36"Wx93"H	O	O									5
69	HOSPITAL BEDS, HILL ROM CENTRA SERIES 80	O	O				YES				11	5
70	METAL SHELVING, MCE #124013 (36"x 24"x 82")	O	O									16
73	CLARIDGE 6'W X 4'H MARKER BOARD, S4-4X6-LCS	O	C							2'-8"AFF		6
74	WALK-THROUGH METAL SCANNER	O	O				YES				1	2
75	SMITHS HEIMANN HS 6040DS X-RAY SCANNER WITH CONVEYOR, MONITOR, CART, KEYBOARD SOFTWARE	O	O				YES				1	1
78	CLARIDGE 10'W x 4'H MARKER BOARD, S4-4x10-LCS	O	C							2'-8"AFF		3
79	CLARIDGE 12'W X 4'H BULLETIN BOARD, S4-4x12-COR, CLARIDGE CORK	O	C							2'-8"AFF		1
80	CLARIDGE 12' W X 4'H MARKER BOARD S4-4x12-LCS	O	C							2'-8"AFF		7
81	SHORT THROW PROJECTOR AND WALL MOUNT	O	C				YES		YES	7'-8"AFF	4	13
82	HYBRID TV BOX TUNER	O	O				YES		YES		4	13
83	MOBILE CRASH CART	O	O									1
84	PRINTER / COPY MACHINE	O	O				YES		YES			4
85	INMATE PHONE	O	O						YES	3'-6"AFF		23
86	DESKTOP PRINTER	O	O				YES		YES			10
87	ROLL-FOLD POWER OPERATED DIVIDER CURTAIN	C	C				YES				5	1
88	ELECTRONIC KITCHEN TIME CLOCK	O	O				YES		YES	3'-0" AFF		1
89	DUMPSTER	O	O									1
90	TRASH COMPACTOR	O	O				YES					1
91	LOCKING STEEL NARCOTICS CABINET, WALL MTD	O	O							3'-6"AFF		1
92	I.T. EQUIPMENT RACK	O	O				YES		YES			7
93	DIAGNOSTIC INSTRUMENT SET, WALL MTD	O	O				YES			4'-6"AFF		2
94	TRACTION ELEVATOR	C	C				YES					1
95	PREMANUFACTURED CROSSROADS CIRCULATION DESK - WILSONART KENSINGTON MAPLE FINISH 10776-60	O	O									1
96	42"H DBL SIDED MCE LIBRARY SHELF ADDER UNIT	O	O									8
97	42"H DBL SIDED MCE LIBRARY SHELF STARTER UNIT	O	O									3
98	OVERBED TABLE	O	O									5
99	BEDSIDE TABLE	O	O									5
100	BODY ORIFICE SCANNER	O	O				YES					1
101	ELECTRONIC TIME CLOCK	O	O				YES		YES	3'-0"		1
102	MCE 3'W x 18"D x 78"H STORAGE CABINET	O	O									1
103	3'W x 12"D x 76"H MEDICAL FILE CABINET	O	O									2
104	CROSS COURT BASKETBALL GOAL AND SUPPORTS	C	C									4
105	BASKETBALL GOAL AND SUPPORTS	C	C									2
106	ATHLETIC WALL PADDING	C	C									11
107	VOLLEYBALL STANDARD FLOOR SLEEVES	C	C								10	2
108	SGL SIDED FULL HEIGHT MCE LIBRARY SHELF ADDER UNIT	O	O									3
109	SGL SIDED FULL HEIGHT MCE LIBRARY SHELF STARTER UNIT	O	O									2
110	WALL MOUNTED COMPUTER WORK STATION	O	C				YES		YES			2
111	KI 30" x 72" HURRY UP TABLE #HULN3072-74P	O	O								1	5

SCHEDULE COMMENTS

1. CONTRACTOR TO COORDINATE LOCATION OF ELECTRICAL FLOOR BOX WTIH EQUIPMENT.
2. CONTRACTOR TO PROVIDE FLOOR AND WALL PENETRATIONS AS REQUIRED TO CONCEAL AND ROUTE RELATED EQUIPMENT PIPING UNDERFLOOR FROM CHAIR LOCATION TO EQUIPMENT IN COMPRESSOR ROOM. RATE PENETRATIONS AS REQUIRED ELSEWHERE.
3. CONTRACTOR TO PROVIDE POWER OUTLET LOCATED IN BACK WALL OF UPPER WALL CABINET CONTAINING MICROWAVE.
4. SEE CASEWORK AND ELECTRICAL DWGS FOR LOCATION AND CONFIGURATION OF THE TV TUNER BOX AND IT'S REQUIRED CONNECTIONS. PROVIDE CONCEALED CONDUIT FOR VGA, USB (CAT5), HDMI, AND DATA FROM THE PROJECTOR LOCATION TO THE TV TUNER LOCATION AND THEN TO THE CABLE TRAY LEADING TO THE IDF ROOM.
5. SEE PROJECT MANUAL SPECIFICATIONS FOR STRUCTURAL SUPPORT COORDINATION REQUIREMENTS.
6. SEE DETAIL A1 / A581.
7. SEE DETAIL B1 / A581.
8. SEE DETAIL A3 & B3 / A581.
9. SEE DETAIL D1 / A581.
10. SEE DETAIL E1/A581.
11. REFER TO ELEC DWGS FOR REQ'D SYSTEM CONNECTIONS ASSOCIATED WITH HOSPITAL BED.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC. Consulting Engineers
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STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEIGHT STATE OF MARYLAND

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KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015
3	ADD-3	02-19-2015

REVISIONS

DRAWN BY	TJM
APPROVED BY	JLB
CHECKED BY	CRD
DATE	02-05-2015

TITLE

FURNITURE, FIXTURES, AND EQUIPMENT

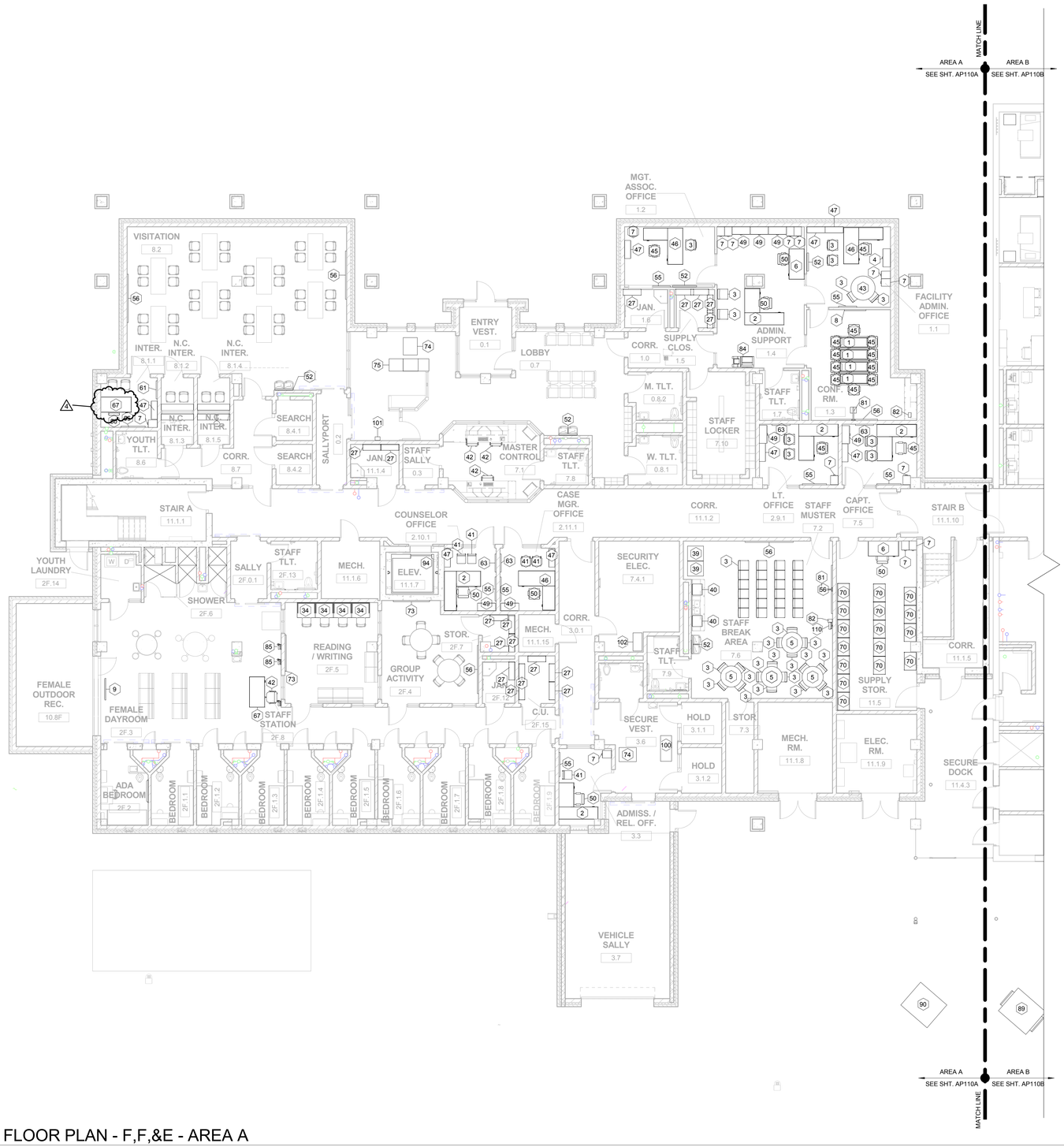
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

FE100

SHEET NO.

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL EQUIPMENT INSTALLATION.
2. COORDINATE EXACT UTILITY CONNECTIONS WITH EQUIPMENT.
3. PROVIDE CONCEALED FIRE TREATED WD BLKG FOR ALL EQUIP. MTD ON MTL STUD PARTITION WALLS. COORD BLOCKING LOCATIONS AND EXTENTS WITH WITH EQUIPMENT REQUIREMENTS.
4. SEE DRAWINGS AND PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL REQUIRED EQUIPMENT NOT LISTED HERE.
5. FINAL UTILITY CONNECTIONS BY DESIGNATED EQUIPMENT INSTALLER. U.N.O.
6. SEE PROJECT MANUAL SPECIFICATIONS FOR TAMPER-PROOF METAL FASTENER REQUIREMENTS.
7. SEE DETENTION DOCUMENTS FOR DETENTION EQUIPMENT REQUIREMENTS.
8. SEE FOOD SERVICE AND LAUNDRY DOCUMENTS FOR FSL EQUIPMENT REQUIREMENTS.
9. SEE ARCHITECTURAL SITE PLAN FOR ADDITIONAL EQUIPMENT SCHEDULED HERE REQUIRING CONTRACTOR PROVIDED UTILITY CONNECTIONS.
10. IN THE SCHEDULE "O" INDICATES OWNER AND "C" INDICATES CONTRACTOR.



N

1 FIRST FLOOR PLAN - F,F,&E - AREA A

Scale: 1/8" = 1'-0"

FURNITURE, FIXTURES, AND EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	REQ'D CONTRACTOR INSTALLED UTILITIES: COLD WATER	HOT WATER	WASTE	POWER	CABLE	DATA	MNT. HGT.	COMMENTS	QUANTITY
1	KI 60" x 24" HURRY UP TABLE #HUN246074P	O	O								1	4
2	STANDARD L-SHAPED DESK #115RDL	O	O									9
3	NEW WINDSOR FLIP-UP CHAIR	O	O									59
4	4 DRAWER LATERAL FILE #115STFC	O	O									1
5	TREK TABLE 60" DIAMETER	O	O									4
6	STANDARD CANTON STAFF CREDENZA #115STFC	O	O									20
7	4-DRAWER FILE CABINET	O	O									18
8	WALL MOUNTED 46" FLATSCREEN TV AND MOUNTING BRACKET	O	C				YES	YES			6	4
9	CLG MTD 46" FLAT SCREEN TV (O/C) AND MOUNTING BRACKET (C/C)	O	C				YES	YES			7	1
10	MEZZANINE MTD 46" FLAT SCREEN TV AND MOUNTING BRACKET	O	C				YES	YES			8	4
11	WALL MTD 46" FLAT SCREEN TV, MOUTING BRACKET, AND SECURITY HOUSING	O	C				YES	YES			9	1
12	ZUMA CANTILEVER TWO-STUDENT DESK WITH BOOK BOX #ZDESK226027BOX	O	O									39
13	MOBILE MEDICATION CART	O	O									1
14	MCE ENGAGE TASK CHAIR	O	O									5
15	COUNTERTOP DENTAL LIGHT CURING MACHINE	O	O				YES					1
16	COUNTERTOP DENTAL AMALGMATOR	O	O				YES					1
17	COUNTERTOP DENTAL ULTRASONIC CLEANING SYSTEM	O	O				YES					1
18	DENTAL CHAIR, CHAIR MNT LIGHT, CHAIR MNT DENTAL DELIVERY SYSTEM, & STOOL	O	C	YES		YES	YES				2	1
19	WALL MTD DIGITAL X-RAY AND ARM	O	C				YES		YES	3'-9"AFF		1
20	SURFACE MTD X-RAY VIEW BOX	O	C				YES			3'-6"AFF		1
21	COUNTERTOP DENTAL AUTOCLAVE STERILIZER	O	O				YES					1
22	DENTAL ASSISTANT STOOL	O	O									1
23	DENTAL PANOREX DIGITAL X-RAY	O	O				YES		YES			1
24	FLOOR MTD DENTAL COMPRESSOR	O	C			YES	YES				2	1
25	DENTAL AIR-WATER SEPARATOR	O	C	YES							2	1
26	FLOOR MTD DENTAL VACUUM PUMP	O	C	YES		YES	YES				2	1
27	MCE 3' METAL SHELVING 124009	O	O									58
28	EXAM STOOL - RITTER	O	O									2
29	EXAM TABLE, BREWER COMPANY, BASIC EXAM TABLE #4000 AND EXAM STOOL, BREWER COMPNAY, #Z2400	O	O									2
30	FOOSEBALL TABLE	O	O									1
31	PING-PONG TABLE	O	O									1
32	KI DATALINK MULTIPURPOSE TABLE 30" X 72" WITH POWER UP DMD256F/2 74P-WHITE	O	O								1	2
33	SCIENCE STOOL - VIRCO 3000 SERIES 3821LS	O	O									12
34	COMPUTER STATIONS - MCE STUDY CARREL #106180	O	O									20
35	CYBEX ELLEPTICAL - 625AT ARC TRAINER	O	O									2
36	CYBEX FUNCTIONAL TRAINER - FT450	O	O									1
37	CARBON BLUE PERFORMANCE PLUS EXERCISE BIKE	O	O									2
38	CYBEX TREDMILL - 625T	O	O				YES					2
39	FULL HEIGHT REFRIGERATOR	O	O	YES			YES					3
40	MICROWAVE, COUNTERTOP	O	O				YES				3	2
41	ALTA SIDE CHAIR #12215NAS	O	O									15
42	GUARDIAN HEAVY DUTY CHAIR, MCE #122140	O	O									13
43	TREK TABLE 48" DIAMETER	O	O									1
45	TENOR HIGH BACK #122UN7700D	O	O									16
46	STANDARD L-SHAPED DESK #115LDL	O	O									7
47	STANDARD 60"x36" BOOKCASE #115BC6036B	O	O									24
49	STANDARD 3-DRAWER LATERAL FILE CABINET #115LF3	O	O									28
50	TENOR MID BACK #122UN7700	O	O									55
51	MINI REFRIGERATOR, MAGIC CHEF APPLIANCE #MCBR36S	O	O				YES					3
52	CLARIDGE 4'W X 4'H BULLETIN BOARD AND CABINET, 2040 (PROVIDE LEXAN POLYCARBONATE)	O	C									13
54	MEDICUS HEALTH CLEARVIEW STAINLESS STEEL TALL CABINET WITH SWING HANDLE LOCK #2571 M2 48" Wx24"Dx78"H	O	O									2
55	CLARIDGE 4'W X 4'H MARKER BOARD, S4-4x4-LCS	O	C							2'-8"AFF		23
56	CLARIDGE 8'W X 4'H MARKER BOARD, S4-4x8-LCS	O	C							2'-8"AFF		13
57	CLARIDGE 8'W X 4'H BULLETIN BOARD AND CABINET, 2046 (PROVIDE LEXAN POLYCARBONATE)	O	C							2'-8"AFF		8
61	CLARIDGE 3'W X 4'H CHALK BOARD, S4-4X3-VIT (BLACK)	O	C							2'-8"AFF		1
62	STUDENT CHAIRS, ZUMA STG ZU418 (18")											168
63	CLARIDGE 3'W X 4'H BULLETIN BOARD, S4-4X3-COR, CLARIDGE CORK	O	C							2'-8"AFF		23
64	KI DATALINK MULTI PURPOSE TABLE 36"x36" DMS3FX74P	O	O									6
65	KI PORTICO TABLE 36"Wx72"L #P36F EDGE-74P	O	O									5
67	STANDARD EXECUTIVE DESK #115ED	O	O									1
68	MEDICUS HEALTH WIRE SHELVING KITS WITH BASKET #207/TMG, 24"Dx36"Wx63"H	O	O									5
69	HOSPITAL BEDS, HILL ROM CENTRA SERIES 80	O	O				YES				11	5
70	METAL SHELVING, MCE #124013 (36"x 24"x 82")	O	O									16
73	CLARIDGE 6'W X 4'H MARKER BOARD, S4-4X6-LCS	O	C							2'-8"AFF		6
74	WALK-THROUGH METAL SCANNER	O	O				YES				1	2
75	SMITHS HEIMANN HS 6040DS X-RAY SCANNER WITH CONVEYOR, MONITOR, CART, KEYBOARD SOFTWARE	O	O				YES				1	1
78	CLARIDGE 10'W x 4'H MARKER BOARD, S4-4x10-LCS	O	C							2'-8"AFF		3
79	CLARIDGE 12'W X 4'H BULLETIN BOARD, S4-4x12-COR, CLARIDGE CORK	O	C							2'-8"AFF		1
80	CLARIDGE 12' W X 4'H MARKER BOARD S4-4x12-LCS	O	C							2'-8"AFF		7
81	SHORT THROW PROJECTOR AND WALL MOUNT	O	C				YES		YES	7'-8"AFF	4	13
82	HYBRID TV BOX TUNER	O	O				YES		YES		4	13
83	MOBILE CRASH CART	O	O									1
84	PRINTER / COPY MACHINE	O	O				YES		YES			4
85	INMATE PHONE	O	O						YES	3'-6"AFF		23
86	DESKTOP PRINTER	O	O				YES		YES			10
87	ROLL-FOLD POWER OPERATED DIVIDER CURTAIN	C	C				YES				5	1
88	ELECTRONIC KITCHEN TIME CLOCK	O	O				YES		YES	3'-0" AFF		1
89	DUMPSTER	O	O									1
90	TRASH COMPACTOR	O	O				YES					1
91	LOCKING STEEL NARCOTICS CABINET, WALL MTD	O	O							3'-6"AFF		1
92	I.T. EQUIPMENT RACK	O	O				YES		YES			7
93	DIAGNOSTIC INSTRUMENT SET, WALL MTD	O	O				YES			4'-6"AFF		2
94	TRACTION ELEVATOR	C	C				YES					1
95	PREMANUFACTURED CROSSROADS CIRCULATION DESK - WILSONART KENSINGTON MAPLE FINISH 10776-60	O	O									1
96	42"H DBL SIDED MCE LIBRARY SHELF ADDER UNIT	O	O									8
97	42"H DBL SIDED MCE LIBRARY SHELF STARTER UNIT	O	O									3
98	OVERBED TABLE	O	O									5
99	BEDSIDE TABLE	O	O									5
100	BODY ORIFICE SCANNER	O	O				YES					1
101	ELECTRONIC TIME CLOCK	O	O				YES		YES	3'-0"		1
102	MCE 3'W x 18"D x 78"H STORAGE CABINET	O	O									1
103	3'W x 12"D x 76"H MEDICAL FILE CABINET	O	O									2
104	CROSS COURT BASKETBALL GOAL AND SUPPORTS	C	C									4
105	BASKETBALL GOAL AND SUPPORTS	C	C									2
106	ATHLETIC WALL PADDING	C	C									11
107	VOLLEYBALL STANDARD FLOOR SLEEVES	C	C								10	2
108	SGL SIDED FULL HEIGHT MCE LIBRARY SHELF ADDER UNIT	O	O									3
109	SGL SIDED FULL HEIGHT MCE LIBRARY SHELF STARTER UNIT	O	O									2
110	WALL MOUNTED COMPUTER WORK STATION	O	C				YES		YES			2
111	KI 30" x 72" HURRY UP TABLE #HULN3072-74P	O	O								1	5

SCHEDULE COMMENTS

1. CONTRACTOR TO COORDINATE LOCATION OF ELECTRICAL FLOOR BOX WITH EQUIPMENT.
2. CONTRACTOR TO PROVIDE FLOOR AND WALL PENETRATIONS AS REQUIRED TO CONCEAL AND ROUTE RELATED EQUIPMENT PIPING UNDERFLOOR FROM CHAIR LOCATION TO EQUIPMENT IN COMPRESSOR ROOM. RATE PENETRATIONS AS REQUIRED ELSEWHERE.
3. CONTRACTOR TO PROVIDE POWER OUTLET LOCATED IN BACK WALL OF UPPER WALL CABINET CONTAINING MICROWAVE.
4. SEE CASEWORK AND ELECTRICAL DWGS FOR LOCATION AND CONFIGURATION OF THE TV TUNER BOX AND ITS REQUIRED CONNECTIONS. PROVIDE CONCEALED CONDUIT FOR VGA, USB (CAT5), HDMI, AND DATA FROM THE PROJECTOR LOCATION TO THE TV TUNER LOCATION AND THEN TO THE CABLE TRAY LEADING TO THE IDF ROOM.
5. SEE PROJECT MANUAL SPECIFICATIONS FOR STRUCTURAL SUPPORT COORDINATION REQUIREMENTS.
6. SEE DETAIL A1 / A581.
7. SEE DETAIL B1 / A581.
8. SEE DETAIL A3 & B3 / A581.
9. SEE DETAIL D1 / A581.
10. SEE DETAIL E1/A581.
11. REFER TO ELEC DWGS FOR REQ'D SYSTEM CONNECTIONS ASSOCIATED WITH HOSPITAL BED.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

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R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEIGHT STATE OF MARYLAND

THE CONTRACT DOCUMENTS FOR THE INDICATED PUBLIC IMPROVEMENT WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THEY COMPLY WITH THE RELEVANT BUILDING CODES OF THE STATE OF MARYLAND. LICENSE NUMBER 13814, EXPIRATION DATE 3/28/2015.

KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015
3	ADD-3	02-19-2015

REVISIONS

DRAWN BY	TJM
APPROVED BY	JLB
CHECKED BY	CRD
DATE	02-05-2015

TITLE

FURNITURE, FIXTURES, AND EQUIPMENT

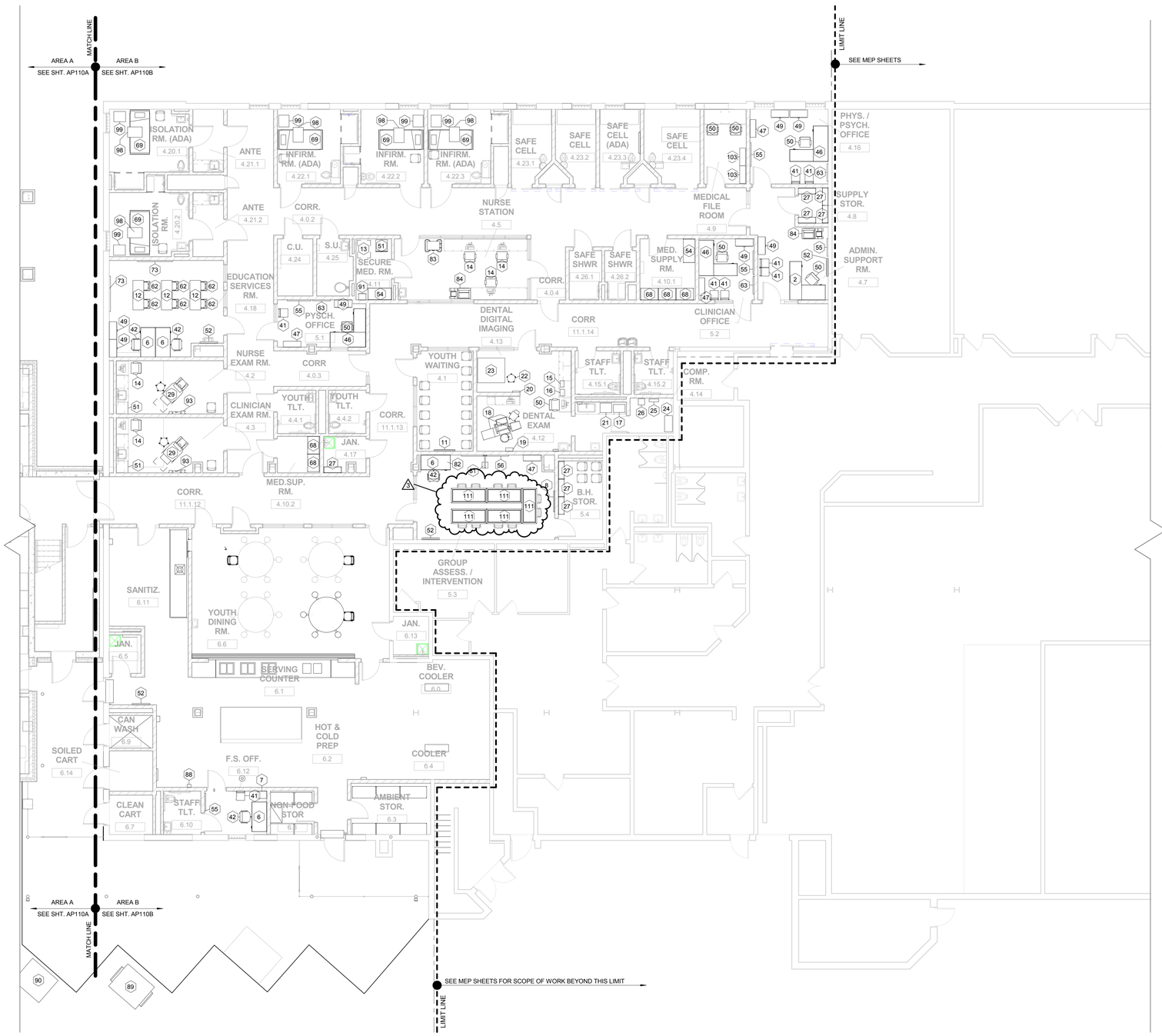
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

FE110A

SHEET NO.

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL EQUIPMENT INSTALLATION.
2. COORDINATE EXACT UTILITY CONNECTIONS WITH EQUIPMENT.
3. PROVIDE CONCEALED FIRE TREATED WD BLKG FOR ALL EQUIP. MTD ON MTL STUD PARTITION WALLS. COORD BLOCKING LOCATIONS AND EXTENTS WITH WITH EQUIPMENT REQUIREMENTS.
4. SEE DRAWINGS AND PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL REQUIRED EQUIPMENT NOT LISTED HERE.
5. FINAL UTILITY CONNECTIONS BY DESIGNATED EQUIPMENT INSTALLER. U.N.O.
6. SEE PROJECT MANUAL SPECIFICATIONS FOR TAMPER-PROOF METAL FASTENER REQUIREMENTS.
7. SEE DETENTION DOCUMENTS FOR DETENTION EQUIPMENT REQUIREMENTS.
8. SEE FOOD SERVICE AND LAUNDRY DOCUMENTS FOR FSL EQUIPMENT REQUIREMENTS.
9. SEE ARCHITECTURAL SITE PLAN FOR ADDITIONAL EQUIPMENT SCHEDULED HERE REQUIRING CONTRACTOR PROVIDED UTILITY CONNECTIONS.
10. IN THE SCHEDULE "O" INDICATES OWNER AND "C" INDICATES CONTRACTOR.



N 1 FIRST FLOOR PLAN - F,F,&E - AREA B
Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'
SCALE: 1/8" = 1' - 0"

FURNITURE, FIXTURES, AND EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	REQ'D CONTRACTOR INSTALLED UTILITIES: COLD WATER	HOT WATER	WASTE	POWER	CABLE	DATA	MNT. HGT.	COMMENTS	QUANTITY
1	KI 60" x 24" HURRY UP TABLE #HUN246074P	O	O								1	4
2	STANDARD L-SHAPED DESK #115RDL	O	O									9
3	NEW WINDSOR FLIP-UP CHAIR	O	O									59
4	4 DRAWER LATERAL FILE #115STFC	O	O									1
5	TREK TABLE 60" DIAMETER	O	O									4
6	STANDARD CANTON STAFF CREDENZA #115STFC	O	O									20
7	4-DRAWER FILE CABINET	O	O									18
8	WALL MOUNTED 46" FLATSCREEN TV AND MOUNTING BRACKET	O	C				YES	YES			6	4
9	CLG MTD 46" FLAT SCREEN TV (O/C) AND MOUNTING BRACKET (C/C)	O	C				YES	YES			7	1
10	MEZZANINE MTD 46" FLAT SCREEN TV AND MOUNTING BRACKET	O	C				YES	YES			8	4
11	WALL MTD 46" FLAT SCREEN TV, MOUTING BRACKET, AND SECURITY HOUSING	O	C				YES	YES			9	1
12	ZUMA CANTILEVER TWO-STUDENT DESK WITH BOOK BOX #ZDESK226027BOX	O	O									39
13	MOBILE MEDICATION CART	O	O									1
14	MCS ENGAGE TASK CHAIR	O	O									5
15	COUNTERTOP DENTAL LIGHT CURING MACHINE	O	O				YES					1
16	COUNTERTOP DENTAL AMALGMATOR	O	O				YES					1
17	COUNTERTOP DENTAL ULTRASONIC CLEANING SYSTEM	O	O				YES					1
18	DENTAL CHAIR, CHAIR MNT LIGHT, CHAIR MNT DENTAL DELIVERY SYSTEM, & STOOL	O	C	YES		YES	YES				2	1
19	WALL MTD DIGITAL X-RAY AND ARM	O	C				YES		YES	3'-9"AFF		1
20	SURFACE MTD X-RAY VIEW BOX	O	C				YES			3'-6"AFF		1
21	COUNTERTOP DENTAL AUTOCLAVE STERILIZER	O	O				YES					1
22	DENTAL ASSISTANT STOOL	O	O									1
23	DENTAL PANOREX DIGITAL X-RAY	O	O				YES		YES			1
24	FLOOR MTD DENTAL COMPRESSOR	O	C			YES	YES				2	1
25	DENTAL AIR-WATER SEPARATOR	O	C	YES							2	1
26	FLOOR MTD DENTAL VACUUM PUMP	O	C	YES		YES	YES				2	1
27	MCE 3' METAL SHELVING 124009	O	O									58
28	EXAM STOOL - RITTER	O	O									2
29	EXAM TABLE, BREWER COMPANY, BASIC EXAM TABLE #4000 AND EXAM STOOL, BREWER COMPNAY, #Z2400	O	O									2
30	FOOSEBALL TABLE	O	O									1
31	PING-PONG TABLE	O	O									1
32	KI DATALINK MULTIPURPOSE TABLE 30" X 72" WITH POWER UP DMD256F/2 74P-WHITE	O	O								1	2
33	SCIENCE STOOL - VIRCO 3000 SERIES 3821LS	O	O									12
34	COMPUTER STATIONS - MCE STUDY CARREL #106180	O	O									20
35	CYBEX ELLEPTICAL - 625AT ARC TRAINER	O	O									2
36	CYBEX FUNCTIONAL TRAINER - FT450	O	O									1
37	CARBON BLUE PERFORMANCE PLUS EXERCISE BIKE	O	O									2
38	CYBEX TREDMILL - 625T	O	O				YES					2
39	FULL HEIGHT REFRIGERATOR	O	O	YES			YES					3
40	MICROWAVE, COUNTERTOP	O	O				YES				3	2
41	ALTA SIDE CHAIR #12215NAS	O	O									15
42	GUARDIAN HEAVY DUTY CHAIR, MCE #122140	O	O									13
43	TREK TABLE 48" DIAMETER	O	O									1
45	TENOR HIGH BACK #122UN7700D	O	O									16
46	STANDARD L-SHAPED DESK #115LDL	O	O									7
47	STANDARD 60"x36" BOOKCASE #115BC6036B	O	O									24
49	STANDARD 3-DRAWER LATERAL FILE CABINET #115LF3	O	O									28
50	TENOR MID BACK #122UN7700	O	O									55
51	MINI REFRIGERATOR, MAGIC CHEF APPLIANCE #MCBR383B	O	O				YES					3
52	CLARIDGE 4'W X 4'H BULLETIN BOARD AND CABINET, 2040 (PROVIDE LEXAN POLYCARBONATE)	O	C									13
54	MEDICUS HEALTH CLEARVIEW STAINLESS STEEL TALL CABINET WITH SWING HANDLE LOCK #2571 M2 48" Wx24"Dx78"H	O	O									2
55	CLARIDGE 4'W X 4'H MARKER BOARD, S4-4x4-LCS	O	C							2'-8"AFF		23
56	CLARIDGE 8'W X 4'H MARKER BOARD, S4-4x8-LCS	O	C							2'-8"AFF		13
57	CLARIDGE 8'W X 4'H BULLETIN BOARD AND CABINET, 2046 (PROVIDE LEXAN POLYCARBONATE)	O	C							2'-8"AFF		8
61	CLARIDGE 3'W X 4'H CHALK BOARD, S4-4X3-ViT (BLACK)	O	C							2'-8"AFF		1
62	STUDENT CHAIRS, ZUMA STG ZU418 (18")											168
63	CLARIDGE 3'W X 4'H BULLETIN BOARD, S4-4X3-COR, CLARIDGE CORK	O	C							2'-8"AFF		23
64	KI DATALINK MULTI PURPOSE TABLE 36"x36" DMS3FX74P	O	O									6
65	KI PORTICO TABLE 36"Wx72"L #P36F EDGE-74P	O	O									
67	STANDARD EXECUTIVE DESK #115ED	O	O									
68	MEDICUS HEALTH, WIRE SHELVING KITS WITH BASKET #2071M3, 24"Dx36"Wx63"H	O	O									
69	HOSPITAL BEDS, HILL ROM CENTRA SERIES 80	O	O				YES				11	5
70	METAL SHELVING, MCE #124013 (36"x 24"x 82")	O	O									16
73	CLARIDGE 6'W X 4'H MARKER BOARD, S4-4X6-LCS	O	C							2'-8"AFF		6
74	WALK-THROUGH METAL SCANNER	O	O				YES				1	2
75	SMITHS HEIMANN HS 6040DS X-RAY SCANNER WITH CONVEYOR, MONITOR, CART, KEYBOARD SOFTWARE	O	O				YES				1	1
78	CLARIDGE 10'W x 4'H MARKER BOARD, S4-4x10-LCS	O	C							2'-8"AFF		3
79	CLARIDGE 12'W X 4'H BULLETIN BOARD, S4-4x12-COR, CLARIDGE CORK	O	C							2'-8"AFF		1
80	CLARIDGE 12' W X 4'H MARKER BOARD S4-4x12-LCS	O	C							2'-8"AFF		7
81	SHORT THROW PROJECTOR AND WALL MOUNT	O	C				YES	YES		7'-8"AFF	4	13
82	HYBRID TV BOX TUNER	O	O				YES	YES			4	13
83	MOBILE CRASH CART	O	O									1
84	PRINTER / COPY MACHINE	O	O				YES	YES				4
85	INMATE PHONE	O	O					YES		3'-6"AFF		23
86	DESKTOP PRINTER	O	O				YES	YES				10
87	ROLL-FOLD POWER OPERATED DIVIDER CURTAIN	C	C				YES				5	1
88	ELECTRONIC KITCHEN TIME CLOCK	O	O				YES		YES	3'-0" AFF		1
89	DUMPSTER	O	O									1
90	TRASH COMPACTOR	O	O				YES					1
91	LOCKING STEEL NARCOTICS CABINET, WALL MTD	O	O							3'-6"AFF		1
92	I.T. EQUIPMENT RACK	O	O				YES	YES				7
93	DIAGNOSTIC INSTRUMENT SET, WALL MTD	O	O				YES			4'-6"AFF		2
94	TRACTION ELEVATOR	C	C				YES					1
95	PREMANUFACTURED CROSSROADS CIRCULATION DESK - WILSONART KENSINGTON MAPLE FINISH 10776-60	O	O									1
96	42"H DBL SIDED MCE LIBRARY SHELF ADDER UNIT	O	O									8
97	42"H DBL SIDED MCE LIBRARY SHELF STARTER UNIT	O	O									3
98	OVERBED TABLE	O	O									5
99	BEDSIDE TABLE	O	O									5
100	BODY ORIFICE SCANNER	O	O				YES					1
101	ELECTRONIC TIME CLOCK	O	O				YES	YES	3'-0"			1
102	MCE 3'W x 18"D x 78"H STORAGE CABINET	O	O									1
103	3'W x 12"D x 76"H MEDICAL FILE CABINET	O	O									2
104	CROSS COURT BASKETBALL GOAL AND SUPPORTS	C	C									4
105	BASKETBALL GOAL AND SUPPORTS	C	C									2
106	ATHLETIC WALL PADDING	C	C									11
107	VOLLEYBALL STANDARD FLOOR SLEEVES	C	C								10	2
108	SGL SIDED FULL HEIGHT MCE LIBRARY SHELF ADDER UNIT	O	O									3
109	SGL SIDED FULL HEIGHT MCE LIBRARY SHELF STARTER UNIT	O	O									2
110	WALL MOUNTED COMPUTER WORK STATION	O	C				YES	YES				2
111	KI 30" x 72" HURRY UP TABLE #HUN3072-74P	O	O								11	5

SCHEDULE COMMENTS

1. CONTRACTOR TO COORDINATE LOCATION OF ELECTRICAL FLOOR BOX WTIH EQUIPMENT.
2. CONTRACTOR TO PROVIDE FLOOR AND WALL PENETRATIONS AS REQUIRED TO CONCEAL AND ROUTE RELATED EQUIPMENT PIPING UNDERFLOOR FROM CHAIR LOCATION TO EQUIPMENT IN COMPRESSOR ROOM. RATE PENETRATIONS AS REQUIRED ELSEWHERE.
3. CONTRACTOR TO PROVIDE POWER OUTLET LOCATED IN BACK WALL OF UPPER WALL CABINET CONTAINING MICROWAVE.
4. SEE CASEWORK AND ELECTRICAL DWGS FOR LOCATION AND CONFIGURATION OF THE TV TUNER BOX AND IT'S REQUIRED CONNECTIONS. PROVIDE CONCEALED CONDUIT FOR VGA, USB (CAT5), HDMI, AND DATA FROM THE PROJECTOR LOCATION TO THE TV TUNER LOCATION AND THEN TO THE CABLE TRAY LEADING TO THE IDF ROOM.
5. SEE PROJECT MANUAL SPECIFICATIONS FOR STRUCTURAL SUPPORT COORDINATION REQUIREMENTS.
6. SEE DETAIL A1 / A581.
7. SEE DETAIL B1 / A581.
8. SEE DETAIL A3 & B3 / A581.
9. SEE DETAIL D1 / A581.
10. SEE DETAIL E1/A581
11. REFER TO ELEC DWGS FOR REQ'D SYSTEM CONNECTIONS ASSOCIATED WITH HOSPITAL BED.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
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TERRALOGOS ECO ARCHITECTURE, PC
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL
ARCHITECT 13814 JAMES L. BEIGHT STATE OF MARYLAND

THE CONTRACT DOCUMENTS FOR THE INDICATED PUBLIC IMPROVEMENT WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THEY COMPLY WITH THE RELEVANT BUILDING CODES OF THE STATE OF MARYLAND. LICENSE NUMBER 13814, EXPIRATION DATE 3/28/2015.

KEY PLAN

SCALE
As indicated

No.	Description	Date
4	ADD-4	02-26-2015
3	ADD-3	02-19-2015

REVISIONS

DRAWN BY	TJM
APPROVED BY	JLB
CHECKED BY	CRD
DATE	02-05-2015

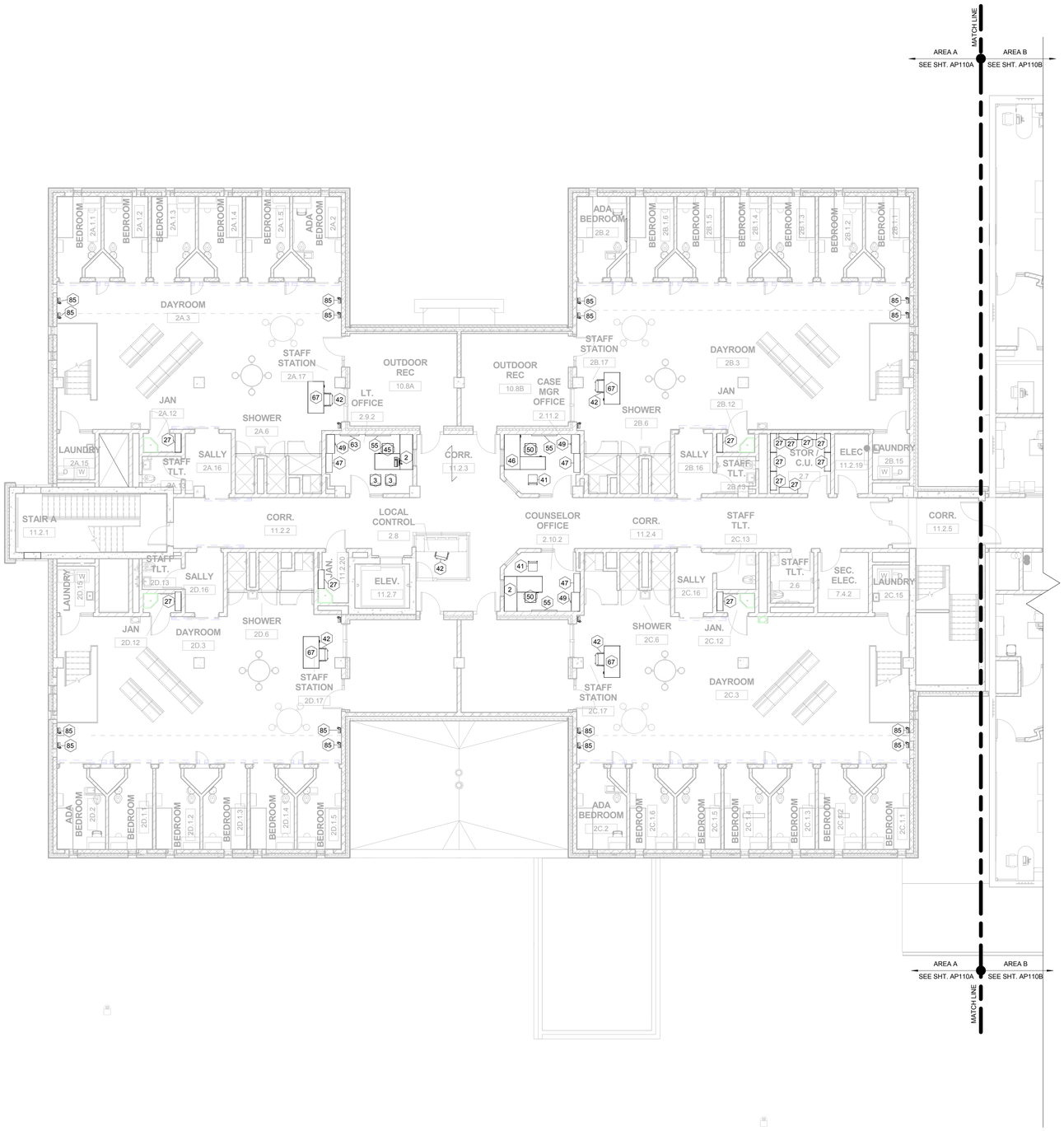
TITLE
FURNITURE, FIXTURES, AND EQUIPMENT

PSA-DEWBERRY PROJECT NO. 50061725
DPSCS CONTRACT NO. KT-000-150-C01

FE110B
SHEET NO.

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL EQUIPMENT INSTALLATION.
2. COORDINATE EXACT UTILITY CONNECTIONS WITH EQUIPMENT.
3. PROVIDE CONCEALED FIRE TREATED WD BLKG FOR ALL EQUIP. MTD ON MTL STUD PARTITION WALLS. COORD BLOCKING LOCATIONS AND EXTENTS WITH WITH EQUIPMENT REQUIREMENTS.
4. SEE DRAWINGS AND PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL REQUIRED EQUIPMENT NOT LISTED HERE.
5. FINAL UTILITY CONNECTIONS BY DESIGNATED EQUIPMENT INSTALLER, U.N.O.
6. SEE PROJECT MANUAL SPECIFICATIONS FOR TAMPER-PROOF METAL FASTENER REQUIREMENTS.
7. SEE DETENTION DOCUMENTS FOR DETENTION EQUIPMENT REQUIREMENTS.
8. SEE FOOD SERVICE AND LAUNDRY DOCUMENTS FOR FSL EQUIPMENT REQUIREMENTS.
9. SEE ARCHITECTURAL SITE PLAN FOR ADDITIONAL EQUIPMENT SCHEDULED HERE REQUIRING CONTRACTOR PROVIDED UTILITY CONNECTIONS.
10. IN THE SCHEDULE "O" INDICATES OWNER AND "C" INDICATES CONTRACTOR.



N

1 SECOND FLOOR PLAN - F,F,&E - AREA A

Scale: 1/8" = 1'-0"

SCALE: 1/8" = 1' - 0"

0' 4' 8' 16' 32'

FURNITURE, FIXTURES, AND EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	REQ'D CONTRACTOR INSTALLED UTILITIES: COLD WATER	HOT WATER	WASTE	POWER	CABLE	DATA	MNT. HGT.	COMMENTS	QUANTITY
1	KI 60" x 24" HURRY UP TABLE #HUN246074P	O	O								1	4
2	STANDARD L-SHAPED DESK #115RDL	O	O									9
3	NEW WINDSOR FLIP-UP CHAIR	O	O									59
4	4 DRAWER LATERAL FILE #115STFC	O	O									1
5	TREK TABLE 60" DIAMETER	O	O									4
6	STANDARD CANTON STAFF CREDENZA #115STFC	O	O									20
7	4-DRAWER FILE CABINET	O	O									18
8	WALL MOUNTED 46" FLATSCREEN TV AND MOUNTING BRACKET	O	C				YES	YES			6	4
9	CLG MTD 46" FLAT SCREEN TV (O/C) AND MOUNTING BRACKET (C/C)	O	C				YES	YES			7	1
10	MEZZANINE MTD 46" FLAT SCREEN TV AND MOUNTING BRACKET	O	C				YES	YES			8	4
11	WALL MTD 46" FLAT SCREEN TV, MOUTING BRACKET, AND SECURITY HOUSING	O	C				YES	YES			9	1
12	ZUMA CANTILEVER TWO-STUDENT DESK WITH BOOK BOX #ZDESK226027BOX	O	O									39
13	MOBILE MEDICATION CART	O	O									1
14	MCE ENGAGE TASK CHAIR	O	O									5
15	COUNTERTOP DENTAL LIGHT CURING MACHINE	O	O				YES					1
16	COUNTERTOP DENTAL AMALGMATOR	O	O				YES					1
17	COUNTERTOP DENTAL ULTRASONIC CLEANING SYSTEM	O	O				YES					1
18	DENTAL CHAIR, CHAIR MNT LIGHT, CHAIR MNT DENTAL DELIVERY SYSTEM, & STOOL	O	C	YES		YES	YES				2	1
19	WALL MTD DIGITAL X-RAY AND ARM	O	C				YES		YES	3'-9"AFF		1
20	SURFACE MTD X-RAY VIEW BOX	O	C				YES			3'-6"AFF		1
21	COUNTERTOP DENTAL AUTOCLAVE STERILIZER	O	O				YES					1
22	DENTAL ASSISTANT STOOL	O	O									1
23	DENTAL PANOREX DIGITAL X-RAY	O	O				YES		YES			1
24	FLOOR MTD DENTAL COMPRESSOR	O	C			YES	YES				2	1
25	DENTAL AIR-WATER SEPARATOR	O	C	YES							2	1
26	FLOOR MTD DENTAL VACUUM PUMP	O	C	YES		YES	YES				2	1
27	MCE 3' METAL SHELVING 124009	O	O									58
28	EXAM STOOL - RITTER	O	O									2
29	EXAM TABLE, BREWER COMPANY, BASIC EXAM TABLE #4000 AND EXAM STOOL, BREWER COMPNAY, #Z2400	O	O									2
30	FOOSEBALL TABLE	O	O									1
31	PING-PONG TABLE	O	O									1
32	KI DATALINK MULTIPURPOSE TABLE 30" X 72" WITH POWER UP DMD256F/2 74P-WHITE	O	O								1	2
33	SCIENCE STOOL - VIRCO 3000 SERIES 3821LS	O	O									12
34	COMPUTER STATIONS - MCE STUDY CARREL #106180	O	O									20
35	CYBEX ELLEPITICAL - 625AT ARC TRAINER	O	O									2
36	CYBEX FUNCTIONAL TRAINER - FT450	O	O									1
37	CARBON BLUE PERFORMANCE PLUS EXERCISE BIKE	O	O									2
38	CYBEX TREDMILL - 625T	O	O				YES					2
39	FULL HEIGHT REFRIGERATOR	O	O	YES			YES					3
40	MICROWAVE, COUNTERTOP	O	O				YES				3	2
41	ALTA SIDE CHAIR #12215NAS	O	O									15
42	GUARDIAN HEAVY DUTY CHAIR, MCE #122140	O	O									13
43	TREK TABLE 48" DIAMETER	O	O									1
45	TENOR HIGH BACK #122UN7700D	O	O									16
46	STANDARD L-SHAPED DESK #115LDL	O	O									7
47	STANDARD 60"x36" BOOKCASE #115BC6036B	O	O									24
49	STANDARD 3-DRAWER LATERAL FILE CABINET #115LF3	O	O									28
50	TENOR MID BACK #122UN7700	O	O									55
51	MINI REFRIGERATOR, MAGIC CHEF APPLIANCE #MCBR360S	O	O				YES					3
52	CLARIDGE 4'W X 4'H BULLETIN BOARD AND CABINET, 2040 (PROVIDE LEXAN POLYCARBONATE)	O	C									13
54	MEDICUS HEALTH CLEARVIEW STAINLESS STEEL TALL CABINET WITH SWING HANDLE LOCK #2571 M2 48" Wx24"Dx78"H	O	O									2
55	CLARIDGE 4'W X 4'H MARKER BOARD, S4-4x4-LCS	O	C							2'-8"AFF		23
56	CLARIDGE 8'W X 4'H MARKER BOARD, S4-4x8-LCS	O	C							2'-8"AFF		13
57	CLARIDGE 8'W X 4'H BULLETIN BOARD AND CABINET, 2046 (PROVIDE LEXAN POLYCARBONATE)	O	C							2'-8"AFF		8
61	CLARIDGE 3'W X 4'H CHALK BOARD, S4-4X3-VIT (BLACK)	O	C							2'-8"AFF		1
62	STUDENT CHAIRS, ZUMA STG ZU418 (18")											168
63	CLARIDGE 3'W X 4'H BULLETIN BOARD, S4-4X3-COR, CLARIDGE CORK	O	C							2'-8"AFF		23
64	KI DATALINK MULTI PURPOSE TABLE 36"x36" DMS3FX74P	O	O									6
65	KI PORTICO TABLE 36"Wx72"L #P36F EDGE-74P	O	O									5
67	STANDARD EXECUTIVE DESK #115ED	O	O									2
68	MEDICUS HEALTH, WIRE SHELVING KITS WITH BASKET #2071M3, 24"Dx36"Wx63"H	O	O									5
69	HOSPITAL BEDS, HILL ROM CENTRA SERIES 80	O	O				YES				11	5
70	METAL SHELVING, MCE #124013 (36"x 24"x 82")	O	O									16
73	CLARIDGE 6'W X 4'H MARKER BOARD, S4-4X6-LCS	O	C							2'-8"AFF		6
74	WALK-THROUGH METAL SCANNER	O	O				YES				1	2
75	SMITHS HEIMANN HS 6040DS X-RAY SCANNER WITH CONVEYOR, MONITOR, CART, KEYBOARD SOFTWARE	O	O				YES				1	1
78	CLARIDGE 10'W x 4'H MARKER BOARD, S4-4x10-LCS	O	C							2'-8"AFF		3
79	CLARIDGE 12'W X 4'H BULLETIN BOARD, S4-4x12-COR, CLARIDGE CORK	O	C							2'-8"AFF		1
80	CLARIDGE 12' W X 4'H MARKER BOARD S4-4x12-LCS	O	C							2'-8"AFF		7
81	SHORT THROW PROJECTOR AND WALL MOUNT	O	C				YES	YES		7'-8"AFF	4	13
82	HYBRID TV BOX TUNER	O	O				YES	YES			4	13
83	MOBILE CRASH CART	O	O									1
84	PRINTER / COPY MACHINE	O	O				YES	YES				4
85	INMATE PHONE	O	O					YES		3'-6"AFF		23
86	DESKTOP PRINTER	O	O				YES	YES				10
87	ROLL-FOLD POWER OPERATED DIVIDER CURTAIN	C	C				YES				5	1
88	ELECTRONIC KITCHEN TIME CLOCK	O	O				YES	YES		3'-0" AFF		1
89	DUMPSTER	O	O									1
90	TRASH COMPACTOR	O	O				YES					1
91	LOCKING STEEL NARCOTICS CABINET, WALL MTD	O	O							3'-6"AFF		1
92	I.T. EQUIPMENT RACK	O	O				YES	YES				7
93	DIAGNOSTIC INSTRUMENT SET, WALL MTD	O	O				YES			4'-6"AFF		2
94	TRACTION ELEVATOR	C	C				YES					1
95	PREMANUFACTURED CROSSROADS CIRCULATION DESK - WILSONART KENSINGTON MAPLE FINISH 10776-60	O	O									1
96	42"H DBL SIDED MCE LIBRARY SHELF ADDER UNIT	O	O									8
97	42"H DBL SIDED MCE LIBRARY SHELF STARTER UNIT	O	O									3
98	OVERBED TABLE	O	O									5
99	BEDSIDE TABLE	O	O									5
100	BODY ORIFICE SCANNER	O	O				YES					1
101	ELECTRONIC TIME CLOCK	O	O				YES	YES		3'-0"		1
102	MCE 3'W x 18"D x 78"H STORAGE CABINET	O	O									1
103	3'W x 12"D x 76"H MEDICAL FILE CABINET	O	O									2
104	CROSS COURT BASKETBALL GOAL AND SUPPORTS	C	C									4
105	BASKETBALL GOAL AND SUPPORTS	C	C									2
106	ATHLETIC WALL PADDING	C	C									11
107	VOLLEYBALL STANDARD FLOOR SLEEVES	C	C								10	2
108	SGL SIDED FULL HEIGHT MCE LIBRARY SHELF ADDER UNIT	O	O									3
109	SGL SIDED FULL HEIGHT MCE LIBRARY SHELF STARTER UNIT	O	O									2
110	WALL MOUNTED COMPUTER WORK STATION	O	C				YES		YES			2
111	KI 30" x 72" HURRY UP TABLE #HULN3072-74P	O	O								1	5

SCHEDULE COMMENTS

1. CONTRACTOR TO COORDINATE LOCATION OF ELECTRICAL FLOOR BOX WITH EQUIPMENT.
2. CONTRACTOR TO PROVIDE FLOOR AND WALL PENETRATIONS AS REQUIRED TO CONCEAL AND ROUTE RELATED EQUIPMENT PIPING UNDERFLOOR FROM CHAIR LOCATION TO EQUIPMENT IN COMPRESSOR ROOM. RATE PENETRATIONS AS REQUIRED ELSEWHERE.
3. CONTRACTOR TO PROVIDE POWER OUTLET LOCATED IN BACK WALL OF UPPER WALL CABINET CONTAINING MICROWAVE.
4. SEE CASEWORK AND ELECTRICAL DWGS FOR LOCATION AND CONFIGURATION OF THE TV TUNER BOX AND IT'S REQUIRED CONNECTIONS. PROVIDE CONCEALED CONDUIT FOR VGA, USB (CAT5), HDMI, AND DATA FROM THE PROJECTOR LOCATION TO THE TV TUNER LOCATION AND THEN TO THE CABLE TRAY LEADING TO THE IDF ROOM.
5. SEE PROJECT MANUAL SPECIFICATIONS FOR STRUCTURAL SUPPORT COORDINATION REQUIREMENTS.
6. SEE DETAIL A1 / A581.
7. SEE DETAIL B1 / A581.
8. SEE DETAIL A3 & B3 / A581.
9. SEE DETAIL D1 / A581.
10. SEE DETAIL E1/A581.
11. REFER TO ELEC DWGS FOR REQ'D SYSTEM CONNECTIONS ASSOCIATED WITH HOSPITAL BED.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

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R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEGHE STATE OF MARYLAND

THE CONTRACT DOCUMENTS FOR THE INDICATED PUBLIC IMPROVEMENT WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THEY COMPLY WITH THE RELEVANT BUILDING CODES OF THE STATE OF MARYLAND. LICENSE NUMBER 13814, EXPIRATION DATE 3/28/2015.

KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015
3	ADD-3	02-19-2015

REVISIONS

DRAWN BY	TJM
APPROVED BY	JLB
CHECKED BY	CRD
DATE	02-05-2015

TITLE

FURNITURE, FIXTURES, AND EQUIPMENT

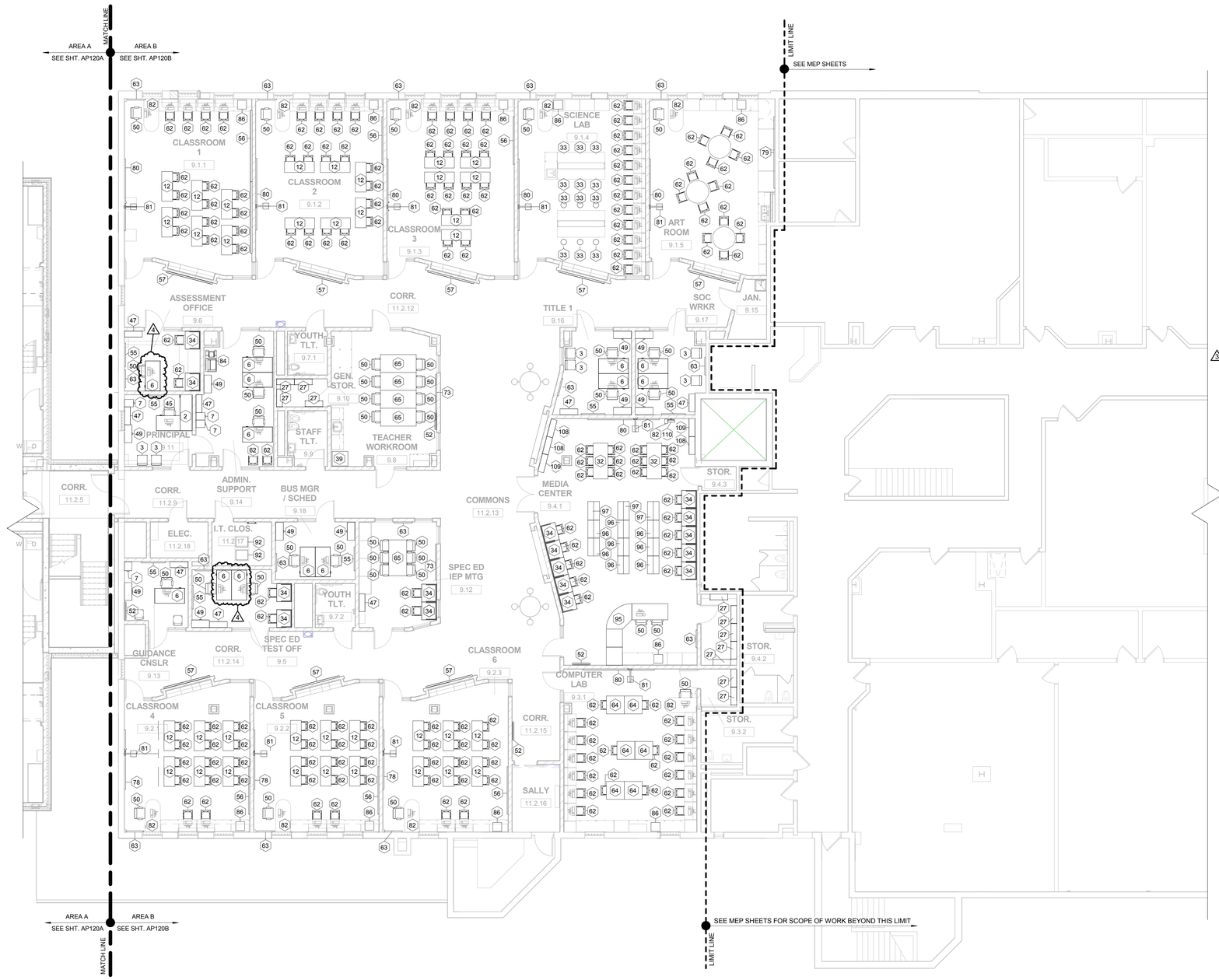
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

FE120A

SHEET NO.

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL EQUIPMENT INSTALLATION.
2. COORDINATE EXACT UTILITY CONNECTIONS WITH EQUIPMENT.
3. PROVIDE CONCEALED FIRE TREATED WD BLKG FOR ALL EQUIP. MTD ON MTL STUD PARTITION WALLS. COORD BLOCKING LOCATIONS AND EXTENTS WITH WITH EQUIPMENT REQUIREMENTS.
4. SEE DRAWINGS AND PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL REQUIRED EQUIPMENT NOT LISTED HERE.
5. FINAL UTILITY CONNECTIONS BY DESIGNATED EQUIPMENT INSTALLER. U.N.O.
6. SEE PROJECT MANUAL SPECIFICATIONS FOR TAMPER-PROOF METAL FASTENER REQUIREMENTS.
7. SEE DETENTION DOCUMENTS FOR DETENTION EQUIPMENT REQUIREMENTS.
8. SEE FOOD SERVICE AND LAUNDRY DOCUMENTS FOR FSL EQUIPMENT REQUIREMENTS.
9. SEE ARCHITECTURAL SITE PLAN FOR ADDITIONAL EQUIPMENT SCHEDULED HERE REQUIRING CONTRACTOR PROVIDED UTILITY CONNECTIONS.
10. IN THE SCHEDULE "O" INDICATES OWNER AND "C" INDICATES CONTRACTOR.



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1 SECOND FLOOR PLAN - F,F,&E - AREA B

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

FURNITURE, FIXTURES, AND EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	REQ'D CONTRACTOR INSTALLED UTILITIES: COLD WATER	HOT WATER	WASTE	POWER	CABLE	DATA	MNT. HGT.	COMMENTS	QUANTITY
1	KI 60" x 24" HURRY UP TABLE #HUN246074P	O	O								1	4
2	STANDARD L-SHAPED DESK #115RDL	O	O									9
3	NEW WINDSOR FLIP-UP CHAIR	O	O									59
4	4 DRAWER LATERAL FILE #115STFC	O	O									1
5	TREK TABLE 60" DIAMETER	O	O									4
6	STANDARD CANTON STAFF CREDENZA #115STFC	O	O									20
7	4-DRAWER FILE CABINET	O	O									18
8	WALL MOUNTED 46" FLATSCREEN TV AND MOUNTING BRACKET	O	C				YES	YES			6	4
9	CLG MTD 46" FLAT SCREEN TV (O/C) AND MOUNTING BRACKET (C/C)	O	C				YES	YES			7	1
10	MEZZANINE MTD 46" FLAT SCREEN TV AND MOUNTING BRACKET	O	C				YES	YES			8	4
11	WALL MTD 46" FLAT SCREEN TV, MOUTING BRACKET, AND SECURITY HOUSING	O	C				YES	YES			9	1
12	ZUMA CANTILEVER TWO-STUDENT DESK WITH BOOK BOX #ZDESK226027BOX	O	O									39
13	MOBILE MEDICATION CART	O	O									1
14	MCE ENGAGE TASK CHAIR	O	O									5
15	COUNTERTOP DENTAL LIGHT CURING MACHINE	O	O				YES					1
16	COUNTERTOP DENTAL AMALGMATOR	O	O				YES					1
17	COUNTERTOP DENTAL ULTRASONIC CLEANING SYSTEM	O	O				YES					1
18	DENTAL CHAIR, CHAIR MNT LIGHT, CHAIR MNT DENTAL DELIVERY SYSTEM, & STOOL	O	C	YES		YES	YES				2	1
19	WALL MTD DIGITAL X-RAY AND ARM	O	C				YES		YES	3'-9"AFF		1
20	SURFACE MTD X-RAY VIEW BOX	O	C				YES			3'-6"AFF		1
21	COUNTERTOP DENTAL AUTOCLAVE STERILIZER	O	O				YES					1
22	DENTAL ASSISTANT STOOL	O	O									1
23	DENTAL PANOREX DIGITAL X-RAY	O	O				YES		YES			1
24	FLOOR MTD DENTAL COMPRESSOR	O	C			YES	YES				2	1
25	DENTAL AIR-WATER SEPARATOR	O	C	YES							2	1
26	FLOOR MTD DENTAL VACUUM PUMP	O	C	YES		YES	YES				2	1
27	MCE 3' METAL SHELVING 124009	O	O									58
28	EXAM STOOL - RITTER	O	O									2
29	EXAM TABLE, BREWER COMPANY, BASIC EXAM TABLE #4000 AND EXAM STOOL, BREWER COMPNAY, #Z2400	O	O									2
30	FOOSEBALL TABLE	O	O									1
31	PING-PONG TABLE	O	O									1
32	KI DATALINK MULTIPURPOSE TABLE 30" X 72" WITH POWER UP DMD256F/2 74P-WHITE	O	O								1	2
33	SCIENCE STOOL - VIRCO 3000 SERIES 3821LS	O	O									12
34	COMPUTER STATIONS - MCE STUDY CARREL #106180	O	O									20
35	CYBEX ELLEPTICAL - 625AT ARC TRAINER	O	O									2
36	CBEX FUNCTIONAL TRAINER - FT450	O	O									1
37	CARBON BLUE PERFORMANCE PLUS EXERCISE BIKE	O	O									2
38	CYBEX TREDMILL - 625T	O	O				YES					2
39	FULL HEIGHT REFRIGERATOR	O	O	YES			YES					3
40	MICROWAVE, COUNTERTOP	O	O				YES				3	2
41	ALTA SIDE CHAIR #12215NAS	O	O									15
42	GUARDIAN HEAVY DUTY CHAIR, MCE #122140	O	O									13
43	TREK TABLE 48" DIAMETER	O	O									1
45	TENOR HIGH BACK #122UN7700D	O	O									16
46	STANDARD L-SHAPED DESK #115LDL	O	O									7
47	STANDARD 60"x36" BOOKCASE #115BC6036B	O	O									24
49	STANDARD 3-DRAWER LATERAL FILE CABINET #115LF3	O	O									28
50	TENOR MID BACK #122UN7700	O	O									55
51	MINI REFRIGERATOR, MAGIC CHEF APPLIANCE #MCBR360B	O	O				YES					3
52	CLARIDGE 4'W X 4'H BULLETIN BOARD AND CABINET, 2040 (PROVIDE LEXAN POLYCARBONATE)	O	C									13
54	MEDICUS HEALTH CLEARVIEW STAINLESS STEEL TALL CABINET WITH SWING HANDLE LOCK #2571 M2 48" Wx24"Dx78"H	O	O									2
55	CLARIDGE 4'W X 4'H MARKER BOARD, S4-4x4-LCS	O	C							2'-8"AFF		23
56	CLARIDGE 8'W X 4'H MARKER BOARD, S4-4x8-LCS	O	C							2'-8"AFF		13
57	CLARIDGE 8'W X 4'H BULLETIN BOARD AND CABINET, 2046 (PROVIDE LEXAN POLYCARBONATE)	O	C							2'-8"AFF		8
61	CLARIDGE 3'W X 4'H CHALK BOARD, S4-4X3-VIT (BLACK)	O	C							2'-8"AFF		1
62	STUDENT CHAIRS, ZUMA STG ZU418 (18")											168
63	CLARIDGE 3'W X 4'H BULLETIN BOARD, S4-4X3-COR, CLARIDGE CORK	O	C							2'-8"AFF		23
64	KI DATALINK MULTI PURPOSE TABLE 36"x36" DMS3FX74P	O	O									6
65	KI PORTICO TABLE 36"Wx72"L #P36F EDGE-74P	O	O									5
67	STANDARD EXECUTIVE DESK #115ED	O	O									15
68	MEDICUS HEALTH WIRE SHELVING KITS WITH BASKET #207/1M3, 24"Dx36"Wx63"H	O	O									5
69	HOSPITAL BEDS, HILL ROM CENTRA SERIES 80	O	O				YES				11	5
70	METAL SHELVING, MCE #124013 (36"x 24"x 82")	O	O									16
73	CLARIDGE 6'W X 4'H MARKER BOARD, S4-4X6-LCS	O	C							2'-8"AFF		6
74	WALK-THROUGH METAL SCANNER	O	O				YES				1	2
75	SMITHS HEIMANN HS 6040DS X-RAY SCANNER WITH CONVEYOR, MONITOR, CART, KEYBOARD SOFTWARE	O	O				YES				1	1
78	CLARIDGE 10'W x 4'H MARKER BOARD, S4-4x10-LCS	O	C							2'-8"AFF		3
79	CLARIDGE 12'W X 4'H BULLETIN BOARD, S4-4x12-COR, CLARIDGE CORK	O	C							2'-8"AFF		1
80	CLARIDGE 12' W X 4'H MARKER BOARD S4-4x12-LCS	O	C							2'-8"AFF		7
81	SHORT THROW PROJECTOR AND WALL MOUNT	O	C				YES		YES	7'-8"AFF	4	13
82	HYBRID TV BOX TUNER	O	O				YES		YES		4	13
83	MOBILE CRASH CART	O	O									1
84	PRINTER / COPY MACHINE	O	O				YES		YES			4
85	INMATE PHONE	O	O						YES	3'-6"AFF		23
86	DESKTOP PRINTER	O	O				YES		YES			10
87	ROLL-FOLD POWER OPERATED DIVIDER CURTAIN	C	C				YES				5	1
88	ELECTRONIC KITCHEN TIME CLOCK	O	O				YES		YES	3'-0" AFF		1
89	DUMPSTER	O	O									1
90	TRASH COMPACTOR	O	O				YES					1
91	LOCKING STEEL NARCOTICS CABINET, WALL MTD	O	O							3'-6"AFF		1
92	I.T. EQUIPMENT RACK	O	O				YES		YES			7
93	DIAGNOSTIC INSTRUMENT SET, WALL MTD	O	O				YES			4'-6"AFF		2
94	TRACTION ELEVATOR	C	C				YES					1
95	PREMANUFACTURED CROSSROADS CIRCULATION DESK - WILSONART KENSINGTON MAPLE FINISH 10776-60	O	O									1
96	42"H DBL SIDED MCE LIBRARY SHELF ADDER UNIT	O	O									8
97	42"H DBL SIDED MCE LIBRARY SHELF STARTER UNIT	O	O									3
98	OVERBED TABLE	O	O									5
99	BEDSIDE TABLE	O	O									5
100	BODY ORIFICE SCANNER	O	O				YES					1
101	ELECTRONIC TIME CLOCK	O	O				YES		YES	3'-0"		1
102	MCE 3'W x 18"D x 78"H STORAGE CABINET	O	O									1
103	3'W x 12"D x 76"H MEDICAL FILE CABINET	O	O									2
104	CROSS COURT BASKETBALL GOAL AND SUPPORTS	C	C									4
105	BASKETBALL GOAL AND SUPPORTS	C	C									2
106	ATHLETIC WALL PADDING	C	C									11
107	VOLLEYBALL STANDARD FLOOR SLEEVES	C	C								10	2
108	SGL SIDED FULL HEIGHT MCE LIBRARY SHELF ADDER UNIT	O	O									3
109	SGL SIDED FULL HEIGHT MCE LIBRARY SHELF STARTER UNIT	O	O									2
110	WALL MOUNTED COMPUTER WORK STATION	O	C				YES		YES			2
111	KI 30" x 72" HURRY UP TABLE #HULN3072-74P	O	O								1	5

SCHEDULE COMMENTS

1. CONTRACTOR TO COORDINATE LOCATION OF ELECTRICAL FLOOR BOX WTIH EQUIPMENT.
2. CONTRACTOR TO PROVIDE FLOOR AND WALL PENETRATIONS AS REQUIRED TO CONCEAL AND ROUTE RELATED EQUIPMENT PIPING UNDERFLOOR FROM CHAIR LOCATION TO EQUIPMENT IN COMPRESSOR ROOM. RATE PENETRATIONS AS REQUIRED ELSEWHERE.
3. CONTRACTOR TO PROVIDE POWER OUTLET LOCATED IN BACK WALL OF UPPER WALL CABINET CONTAINING MICROWAVE.
4. SEE CASEWORK AND ELECTRICAL DWGS FOR LOCATION AND CONFIGURATION OF THE TV TUNER BOX AND ITS REQUIRED CONNECTIONS. PROVIDE CONCEALED CONDUIT FOR VGA, USB (CAT5), HDMI, AND DATA FROM THE PROJECTOR LOCATION TO THE TV TUNER LOCATION AND THEN TO THE CABLE TRAY LEADING TO THE IDF ROOM.
5. SEE PROJECT MANUAL SPECIFICATIONS FOR STRUCTURAL SUPPORT COORDINATION REQUIREMENTS.
6. SEE DETAIL A1 / A581.
7. SEE DETAIL B1 / A581.
8. SEE DETAIL A3 & B3 / A581.
9. SEE DETAIL D1 / A581.
10. SEE DETAIL E1/A581.
11. REFER TO ELEC DWGS FOR REQ'D SYSTEM CONNECTIONS ASSOCIATED WITH HOSPITAL BED.

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PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

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STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEIGHT STATE OF MARYLAND

THE CONTRACT DOCUMENTS FOR THE INDICATED PUBLIC IMPROVEMENT WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THEY COMPLY WITH THE RELEVANT BUILDING CODES OF THE STATE OF MARYLAND. LICENSE NUMBER 13814, EXPIRATION DATE 3/28/2015.

KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015
3	ADD-3	02-19-2015

REVISIONS

DRAWN BY	TJM
APPROVED BY	JLB
CHECKED BY	CRD
DATE	02-05-2015

TITLE

FURNITURE, FIXTURES, AND EQUIPMENT

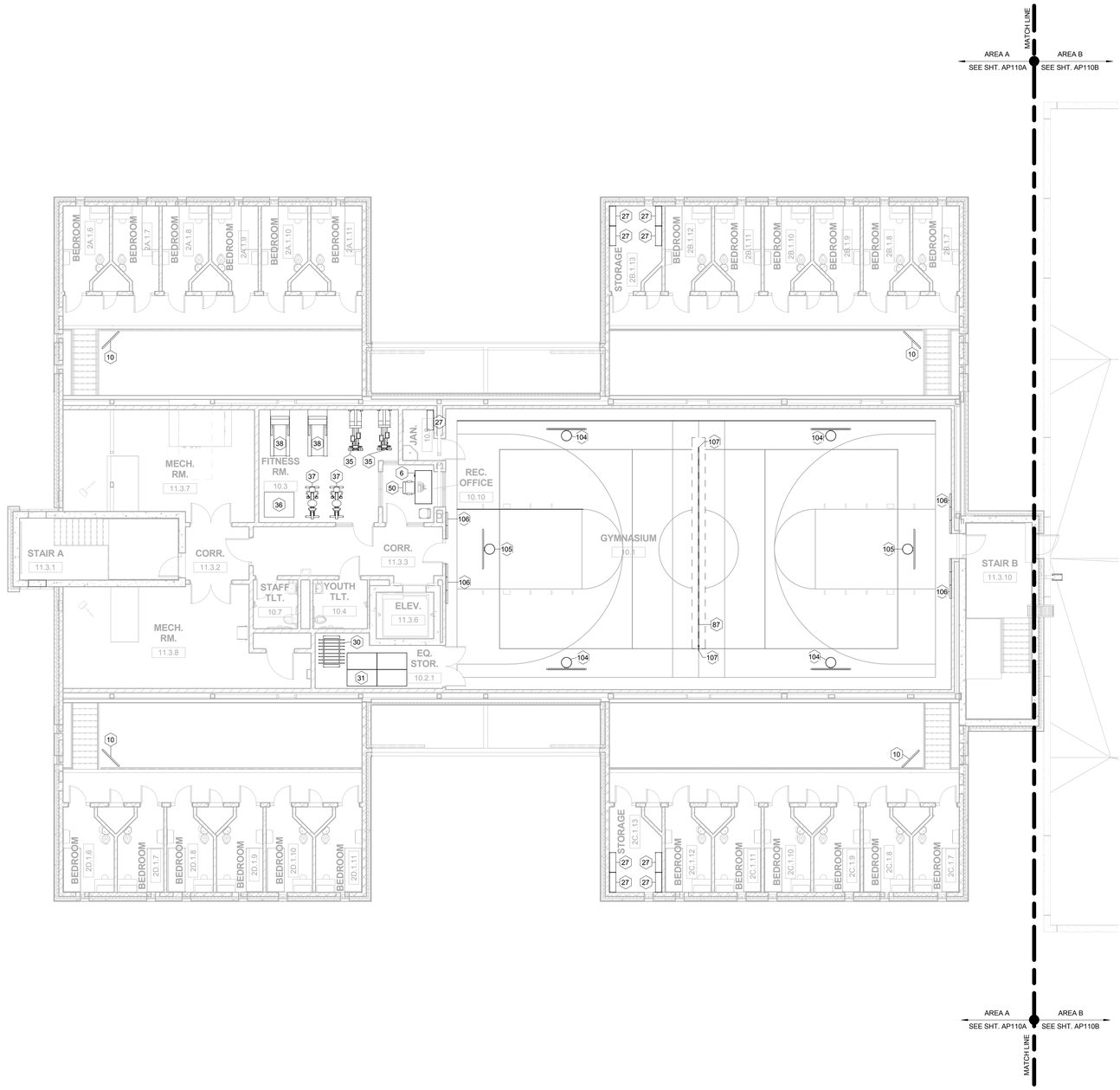
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

FE120B

SHEET NO.

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL EQUIPMENT INSTALLATION.
2. COORDINATE EXACT UTILITY CONNECTIONS WITH EQUIPMENT.
3. PROVIDE CONCEALED FIRE TREATED WD BLKG FOR ALL EQUIP. MTD ON MTL STUD PARTITION WALLS. COORD BLOCKING LOCATIONS AND EXTENTS WITH WITH EQUIPMENT REQUIREMENTS.
4. SEE DRAWINGS AND PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL REQUIRED EQUIPMENT NOT LISTED HERE.
5. FINAL UTILITY CONNECTIONS BY DESIGNATED EQUIPMENT INSTALLER. U.N.O.
6. SEE PROJECT MANUAL SPECIFICATIONS FOR TAMPER-PROOF METAL FASTENER REQUIREMENTS.
7. SEE DETENTION DOCUMENTS FOR DETENTION EQUIPMENT REQUIREMENTS.
8. SEE FOOD SERVICE AND LAUNDRY DOCUMENTS FOR FSL EQUIPMENT REQUIREMENTS.
9. SEE ARCHITECTURAL SITE PLAN FOR ADDITIONAL EQUIPMENT SCHEDULED HERE REQUIRING CONTRACTOR PROVIDED UTILITY CONNECTIONS.
10. IN THE SCHEDULE "O" INDICATES OWNER AND "C" INDICATES CONTRACTOR.



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1 THIRD FLOOR AND MEZZANINE PLAN - F,F,&E

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

FURNITURE, FIXTURES, AND EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	REQ'D CONTRACTOR INSTALLED UTILITIES: COLD WATER	HOT WATER	WASTE	POWER	CABLE	DATA	MNT. HGT.	COMMENTS	QUANTITY
1	KI 60" x 24" HURRY UP TABLE #HUN246074P	O	O								1	4
2	STANDARD L-SHAPED DESK #115RDL	O	O									9
3	NEW WINDSOR FLIP-UP CHAIR	O	O									59
4	4 DRAWER LATERAL FILE #115STFC	O	O									1
5	TREK TABLE 60" DIAMETER	O	O									4
6	STANDARD CANTON STAFF CREDENZA #115STFC	O	O									20
7	4-DRAWER FILE CABINET	O	O									18
8	WALL MOUNTED 46" FLATSCREEN TV AND MOUNTING BRACKET	O	C				YES	YES			6	4
9	CLG MTD 46" FLAT SCREEN TV (O/C) AND MOUNTING BRACKET (C/C)	O	C				YES	YES			7	1
10	MEZZANINE MTD 46" FLAT SCREEN TV AND MOUNTING BRACKET	O	C				YES	YES			8	4
11	WALL MTD 46" FLAT SCREEN TV, MOUTING BRACKET, AND SECURITY HOUSING	O	C				YES	YES			9	1
12	ZUMA CANTILEVER TWO-STUDENT DESK WITH BOOK BOX #ZDESK226027BOX	O	O									39
13	MOBILE MEDICATION CART	O	O									1
14	MCE ERGOLE TASK CHAIR	O	O									5
15	COUNTERTOP DENTAL LIGHT CURING MACHINE	O	O				YES					1
16	COUNTERTOP DENTAL AMALGMATOR	O	O				YES					1
17	COUNTERTOP DENTAL ULTRASONIC CLEANING SYSTEM	O	O				YES					1
18	DENTAL CHAIR, CHAIR MNT LIGHT, CHAIR MNT DENTAL DELIVERY SYSTEM, & STOOL	O	C	YES		YES	YES				2	1
19	WALL MTD DIGITAL X-RAY AND ARM	O	C				YES		YES	3'-9"AFF		1
20	SURFACE MTD X-RAY VIEW BOX	O	C				YES			3'-6"AFF		1
21	COUNTERTOP DENTAL AUTOCLAVE STERILIZER	O	O				YES					1
22	DENTAL ASSISTANT STOOL	O	O									1
23	DENTAL PANOREX DIGITAL X-RAY	O	O				YES		YES			1
24	FLOOR MTD DENTAL COMPRESSOR	O	C			YES	YES				2	1
25	DENTAL AIR-WATER SEPARATOR	O	C	YES							2	1
26	FLOOR MTD DENTAL VACUUM PUMP	O	C	YES		YES	YES				2	1
27	MCE 3' METAL SHELVING 124009	O	O									58
28	EXAM STOOL - RITTER	O	O									2
29	EXAM TABLE, BREWER COMPANY, BASIC EXAM TABLE #4000 AND EXAM STOOL, BREWER COMPNAY, #Z2400	O	O									2
30	FOOSEBALL TABLE	O	O									1
31	PING-PONG TABLE	O	O									1
32	KI DATALINK MULTIPURPOSE TABLE 30" X 72" WITH POWER UP DMD256F/2 74P-WHITE	O	O								1	2
33	SCIENCE STOOL - VIRCO 3000 SERIES 3821LS	O	O									12
34	COMPUTER STATIONS - MCE STUDY CARREL #106180	O	O									20
35	CYBEX ELLEPITICAL - 625AT ARC TRAINER	O	O									2
36	CYBEX FUNCTIONAL TRAINER - FT450	O	O									1
37	CARBON BLUE PERFORMANCE PLUS EXERCISE BIKE	O	O									2
38	CYBEX TREDMILL - 625T	O	O				YES					2
39	FULL HEIGHT REFRIGERATOR	O	O	YES			YES					3
40	MICROWAVE, COUNTERTOP	O	O				YES				3	2
41	ALTA SIDE CHAIR #12215NAS	O	O									15
42	GUARDIAN HEAVY DUTY CHAIR, MCE #122140	O	O									13
43	TREK TABLE 48" DIAMETER	O	O									1
45	TENOR HIGH BACK #122UN7700D	O	O									16
46	STANDARD L-SHAPED DESK #115LDL	O	O									7
47	STANDARD 60"x36" BOOKCASE #115BC6036B	O	O									24
49	STANDARD 3-DRAWER LATERAL FILE CABINET #115LF3	O	O									26
50	TENOR MID BACK #122UN7700	O	O									55
51	MINI REFRIGERATOR, MAGIC CHEF APPLIANCE #MCBR360S	O	O				YES					3
52	CLARIDGE 4'W X 4'H BULLETIN BOARD AND CABINET, 2040 (PROVIDE LEXAN POLYCARBONATE)	O	C									13
54	MEDICUS HEALTH CLEARVIEW STAINLESS STEEL TALL CABINET WITH SWING HANDLE LOCK #2571 M2 48" Wx24"Dx78"H	O	O									2
55	CLARIDGE 4'W X 4'H MARKER BOARD, S4-4x4-LCS	O	C							2'-8"AFF		23
56	CLARIDGE 8'W X 4'H MARKER BOARD, S4-4x8-LCS	O	C							2'-8"AFF		13
57	CLARIDGE 5'W X 4'H BULLETIN BOARD AND CABINET, 2046 (PROVIDE LEXAN POLYCARBONATE)	O	C							2'-8"AFF		8
61	CLARIDGE 3'W X 4'H CHALK BOARD, S4-4X3-VIT (BLACK)	O	C							2'-8"AFF		1
62	STUDENT CHAIRS, ZUMA STG ZU418 (18")											168
63	CLARIDGE 3'W X 4'H BULLETIN BOARD, S4-4X3-COR, CLARIDGE CORK	O	C							2'-8"AFF		23
64	KI DATALINK MULTI PURPOSE TABLE 36"x36" DMS3FX74P	O	O									6
65	KI PORTICO TABLE 36"Wx72"L #P36F EDGE-74P	O	O									5
67	STANDARD EXECUTIVE DESK #115ED	O	O									1
68	MEDICUS HEALTH, WIRE SHELVING KITS WITH BASKET #2071M3, 24"Dx36"Wx63"H	O	O									5
69	HOSPITAL BEDS, HILL ROM CENTRA SERIES 80	O	O				YES				11	5
70	METAL SHELVING, MCE #124013 (36"x 24"x 82")	O	O									16
73	CLARIDGE 6'W X 4'H MARKER BOARD, S4-4X6-LCS	O	C							2'-8"AFF		6
74	WALK-THROUGH METAL SCANNER	O	O				YES				1	2
75	SMITHS HEIMANN HS 6040DS X-RAY SCANNER WITH CONVEYOR, MONITOR, CART, KEYBOARD SOFTWARE	O	O				YES				1	1
78	CLARIDGE 10'W x 4'H MARKER BOARD, S4-4x10-LCS	O	C							2'-8"AFF		3
79	CLARIDGE 12'W X 4'H BULLETIN BOARD, S4-4x12-COR, CLARIDGE CORK	O	C							2'-8"AFF		1
80	CLARIDGE 12' W X 4'H MARKER BOARD S4-4x12-LCS	O	C							2'-8"AFF		7
81	SHORT THROW PROJECTOR AND WALL MOUNT	O	C				YES	YES	7'-8"AFF	4		13
82	HYBRID TV BOX TUNER	O	O				YES	YES			4	13
83	MOBILE CRASH CART	O	O									1
84	PRINTER / COPY MACHINE	O	O				YES	YES				4
85	INMATE PHONE	O	O					YES	3'-6"AFF			23
86	DESKTOP PRINTER	O	O				YES	YES				10
87	ROLL-FOLD POWER OPERATED DIVIDER CURTAIN	C	C				YES				5	1
88	ELECTRONIC KITCHEN TIME CLOCK	O	O				YES	YES	3'-0" AFF			1
89	DUMPSTER	O	O									1
90	TRASH COMPACTOR	O	O				YES					1
91	LOCKING STEEL NARCOTICS CABINET, WALL MTD	O	O						3'-6"AFF			1
92	I.T. EQUIPMENT RACK	O	O				YES	YES				7
93	DIAGNOSTIC INSTRUMENT SET, WALL MTD	O	O				YES		4'-6"AFF			2
94	TRACTION ELEVATOR	C	C				YES					1
95	PREMANUFACTURED CROSSROADS CIRCULATION DESK - WILSONART KENSINGTON MAPLE FINISH 10776-60	O	O									1
96	42"H DBL SIDED MCE LIBRARY SHELF ADDER UNIT	O	O									8
97	42"H DBL SIDED MCE LIBRARY SHELF STARTER UNIT	O	O									3
98	OVERBED TABLE	O	O									5
99	BEDSIDE TABLE	O	O									5
100	BODY ORIFICE SCANNER	O	O				YES					1
101	ELECTRONIC TIME CLOCK	O	O				YES	YES	3'-0"			1
102	MCE 3'W x 18"D x 78"H STORAGE CABINET	O	O									1
103	3'W x 12"D x 76"H MEDICAL FILE CABINET	O	O									2
104	CROSS COURT BASKETBALL GOAL AND SUPPORTS	C	C									4
105	BASKETBALL GOAL AND SUPPORTS	C	C									2
106	ATHLETIC WALL PADDING	C	C									11
107	VOLLEYBALL STANDARD FLOOR SLEEVES	C	C								10	2
108	SGL SIDED FULL HEIGHT MCE LIBRARY SHELF ADDER UNIT	O	O									3
109	SGL SIDED FULL HEIGHT MCE LIBRARY SHELF STARTER UNIT	O	O									2
110	WALL MOUNTED COMPUTER WORK STATION	O	C				YES		YES			2
111	KI 30" x 72" HURRY UP TABLE #HULN3072-74P	O	O								1	5

SCHEDULE COMMENTS

1. CONTRACTOR TO COORDINATE LOCATION OF ELECTRICAL FLOOR BOX WITH EQUIPMENT.
2. CONTRACTOR TO PROVIDE FLOOR AND WALL PENETRATIONS AS REQUIRED TO CONCEAL AND ROUTE RELATED EQUIPMENT PIPING UNDERFLOOR FROM CHAIR LOCATION TO EQUIPMENT IN COMPRESSOR ROOM. RATE PENETRATIONS AS REQUIRED ELSEWHERE.
3. CONTRACTOR TO PROVIDE POWER OUTLET LOCATED IN BACK WALL OF UPPER WALL CABINET CONTAINING MICROWAVE.
4. SEE CASEWORK AND ELECTRICAL DWGS FOR LOCATION AND CONFIGURATION OF THE TV TUNER BOX AND IT'S REQUIRED CONNECTIONS. PROVIDE CONCEALED CONDUIT FOR VGA, USB (CAT5), HDMI, AND DATA FROM THE PROJECTOR LOCATION TO THE TV TUNER LOCATION AND THEN TO THE CABLE TRAY LEADING TO THE IDF ROOM.
5. SEE PROJECT MANUAL SPECIFICATIONS FOR STRUCTURAL SUPPORT COORDINATION REQUIREMENTS.
6. SEE DETAIL A1 / A581.
7. SEE DETAIL B1 / A581.
8. SEE DETAIL A3 & B3 / A581.
9. SEE DETAIL D1 / A581.
10. SEE DETAIL E1/A581.
11. REFER TO ELEC DWGS FOR REQ'D SYSTEM CONNECTIONS ASSOCIATED WITH HOSPITAL BED.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

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SIDHU ASSOCIATES, INC. Consulting Engineers
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STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BRIGHT STATE OF MARYLAND

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KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015
3	ADD-3	02-19-2015

REVISIONS

DRAWN BY	TJM
APPROVED BY	JLB
CHECKED BY	CRD
DATE	02-05-2015

TITLE

FURNITURE, FIXTURES, AND EQUIPMENT

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

FE130A

SHEET NO.

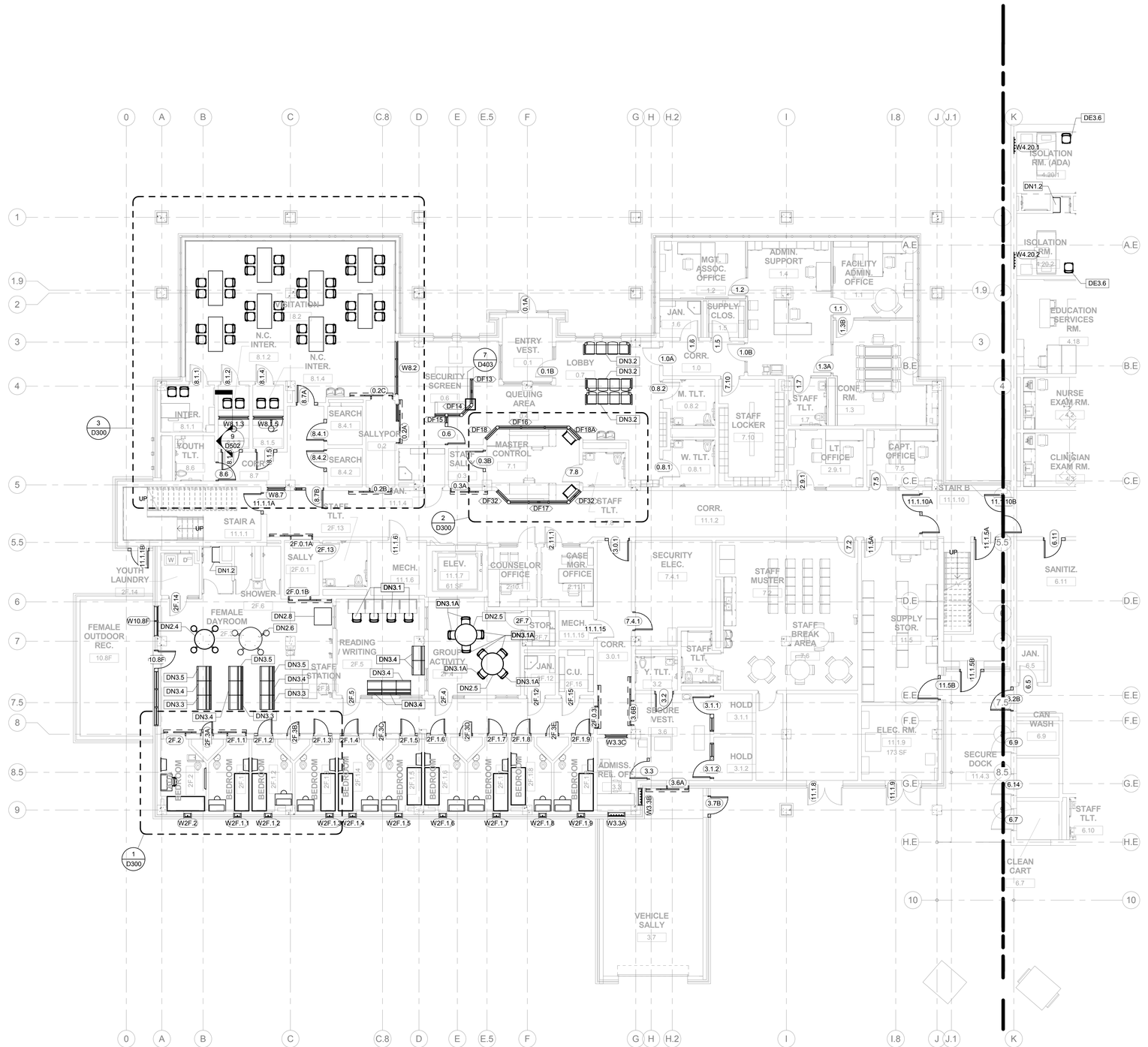
KEY NOTES:

DN1.1	SECURITY MIRROR	DN3.1A	ARM CHAIR, OFOI
DN1.2	FOLDING SHOWER SEAT	DN3.2	4 BEAM SEAT W/ END ARMS, OFOI
DN1.3	SECURITY GRAB BAR, XX" NOTE: LETTER DEFINES GRAB BAR LENGTH: A=24", B=36", C=42", D=48", E=54"	DN3.3	LOUNGE CHAIR, LEFT ARM, OFOI
DN1.4	TRANSACTION DRAWER	DN3.4	LOUNGE CHAIR, ARMLESS, OFOI
DN2.1	LEG STYLE TABLE (30" X 72"), OFOI	DN3.5	LOUNGE CHAIR, RIGHT ARM, OFOI
DN2.2	TABLE, OFOI	DN3.6	STACKABLE CHAIR, OFOI
DN2.3	OUTDOOR TABLE (44" X 44"), OFOI	DN4.1	DETENTION SHELF, OFOI
DN2.4	TABLE, FIXED SEATING ROUND TABLE, 42", OFOI	DN4.2	DETENTION DESK, OFOI
DN2.5	TABLE, LEG STYLE TABLE, 48" ROUND, OFOI	DN4.3	DETENTION BUNK, OFOI
DN2.6	TABLE, FIXED SEATING ROUND TABLE, 48" ADA, OFOI	DN4.4	FLOOR MOUNTED STOOL, OFOI
DN2.7	TABLE, 72" ROUND W/ 6 CHAIRS, OFOI	DN4.5	BEDROOM BUNK, OFOI
DN2.8	TABLE, 36" SQUARE LEG STYLE, OFOI	DN4.6	THREE COMPARTMENT SHELF, OFOI
DN2.9	TABLE, 72" ROUND 5 SEAT - ADA, OFOI	DN4.7	WALL MOUNTED SWING STOOL, OFOI
DN3.1	ARMLESS CHAIR, OFOI	DN4.8	FLOOR MOUNTED SAFE CELL BED, OFOI

GENERAL NOTES

1. REFER TO DIVISION 08 OF THE PROJECT MANUAL FOR SECURITY GLAZING.
2. REFER TO DIVISION 11 OF THE PROJECT MANUAL FOR DETENTION RELATED SPECIFICATIONS.
3. REFER TO SHEET D400 FOR DETENTION DOOR AND WINDOW SCHEDULES.
4. REFER TO SHEET D402 DETENTION FRAME ELEVATIONS FOR FRAMES THAT HAVE BEEN TAGGED WITH ⟨ ⟩. THESE FRAMES NOT INCLUDED IN DETENTION WINDOW SCHEDULE.
5. FURNISHINGS AND EQUIPMENT DESIGNATED ON DRAWINGS AND SPECIFICATIONS AS OFOI ARE TO BE OWNER FURNISHED, OWNER INSTALLED.
6. PROVIDE DETENTION ACCESS PANELS WHERE ELECTRICAL AND MECHANICAL DEVICES REQUIRE ACCESS THROUGH SECURITY WALLS, FLOORS OR CEILINGS. FINAL QUANTITY AND LOCATION WILL BE AS REQUIRED FOR ACCESS TO EQUIPMENT PROVIDED BY ELECTRICAL AND MECHANICAL. THESE PANELS MAY BE IN ADDITION TO DETENTION ACCESS PANELS SHOWN ON DRAWINGS.
7. PROVIDE BARRIER GRILLES AT ALL OPENINGS EXCEEDING 8" X 8" IN SECURITY BARRIERS (WALLS AND PARTITIONS), AS WELL AS FLOORS AND ROOFS ENCLOSING SECURE AREAS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SECURITY BARRIERS. SEE MECHANICAL DRAWINGS FOR LOCATIONS AND SIZES OF DUCTS AND OTHER PENETRATIONS.
8. BARRIER GRILLES TO BE INSTALLED IN SECURITY BARRIERS WHERE MAXIMUM SECURITY GRILLES AND DIFFUSERS ARE NOT SCHEDULED. GRILLES TO BE TOOL RESISTANT STEEL (TRBG) WHEN PENETRATING THE INSTITUTIONAL PERIMETER. BARRIER GRILLES ARE NOT REQUIRED BEHIND MAXIMUM SECURITY AIR GRILLES AND/OR DIFFUSERS UNLESS SPECIFICALLY NOTED.

4



1 FIRST FLOOR DETENTION PLAN - AREA A

Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
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11350 McCORMICK ROAD
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TERRALOGOS ECO ARCHITECTURE, PC

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LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BRIGHT STATE OF MARYLAND

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KEY PLAN

SCALE

As indicated

No.	Description	Date

REVISIONS

DRAWN BY	RTB
APPROVED BY	JLB
CHECKED BY	CAC
DATE	02-05-2015

TITLE

FIRST FLOOR PLAN - DETENTION - AREA A

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

D110A

SHEET NO.

GENERAL NOTES

1. REFER TO DIVISION 08 OF THE PROJECT MANUAL FOR SECURITY GLAZING.
2. REFER TO DIVISION 11 OF THE PROJECT MANUAL FOR DETENTION RELATED SPECIFICATIONS
3. REFER TO SHEET D400 FOR DETENTION DOOR AND WINDOW SCHEDULES.
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7. PROVIDE BARRIER GRILLES AT ALL OPENINGS EXCEEDING 8" X 8" IN SECURITY BARRIERS (WALLS AND PARTITIONS), AS WELL AS FLOORS AND ROOFS ENCLOSING SECURE AREAS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SECURITY BARRIERS. SEE MECHANICAL DRAWINGS FOR LOCATIONS AND SIZES OF DUCTS AND OTHER PENETRATIONS.
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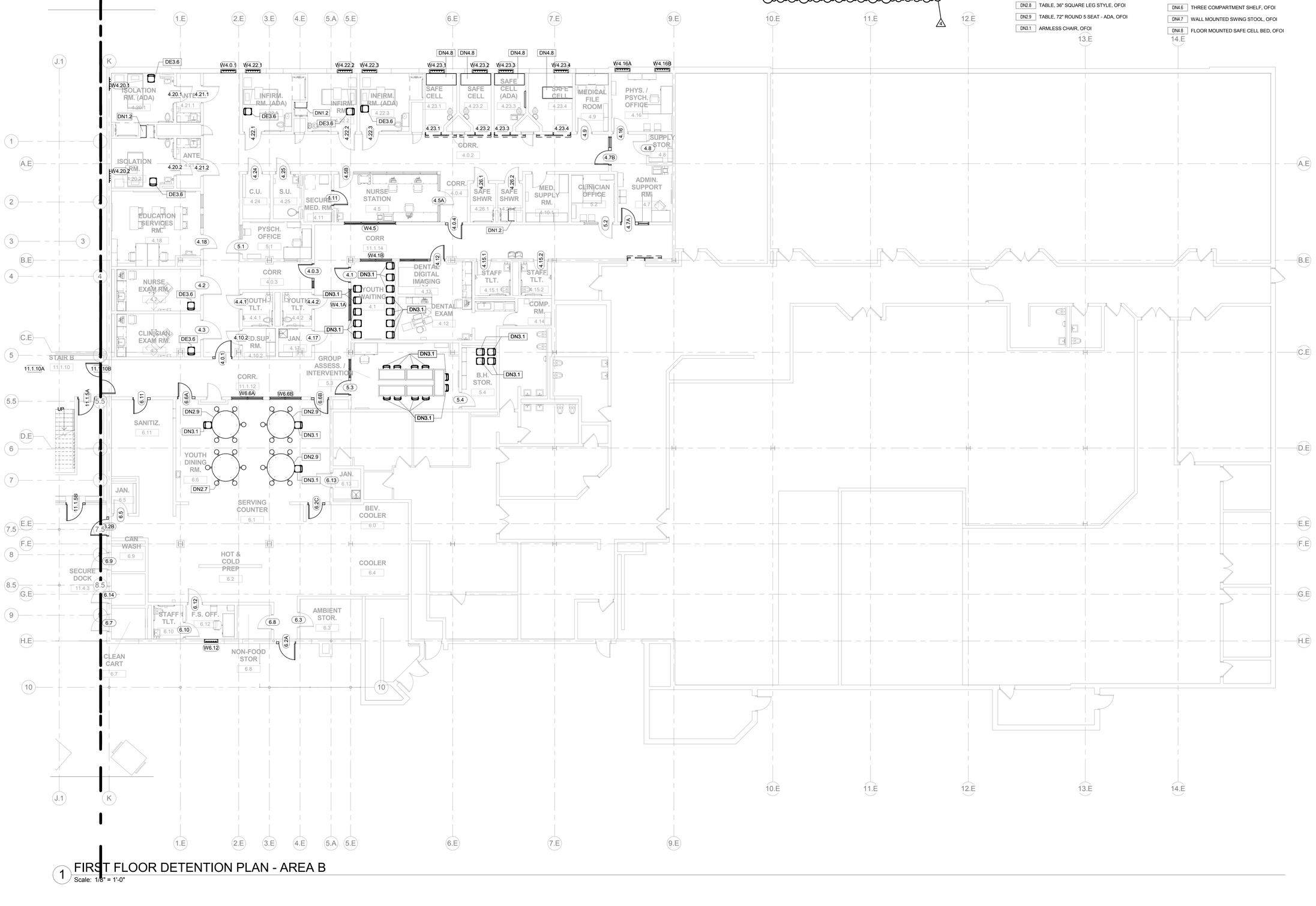
KEY NOTES:

DN1.1	SECURITY MIRROR	DN3.1A	ARM CHAIR, OFOI
DN1.2	FOLDING SHOWER SEAT	DN3.2	4 BEAM SEAT W/ END ARMS, OFOI
DN1.3	SECURITY GRAB BAR, XX" NOTE: LETTER DEFINES GRAB BAR LENGTH: A=24", B=36", C=42", D=48", E=54"	DN3.3	LOUNGE CHAIR, LEFT ARM, OFOI
DN1.4	TRANSACTION DRAWER	DN3.4	LOUNGE CHAIR, ARMLESS, OFOI
DN2.1	LEG STYLE TABLE (30" X 72"), OFOI	DN3.5	LOUNGE CHAIR, RIGHT ARM, OFOI
DN2.2	TABLE, OFOI	DN3.6	STACKABLE CHAIR, OFOI
DN2.3	OUTDOOR TABLE (44" X 44"), OFOI	DN4.1	DETENTION SHELF, OFOI
DN2.4	TABLE, FIXED SEATING ROUND TABLE, 42", OFOI	DN4.2	DETENTION DESK, OFOI
DN2.5	TABLE, LEG STYLE TABLE, 48" ROUND, OFOI	DN4.3	DETENTION BUNK, OFOI
DN2.6	TABLE, FIXED SEATING ROUND TABLE, 48" ADA, OFOI	DN4.4	FLOOR MOUNTED STOOL, OFOI
DN2.7	TABLE, 72" ROUND W/ 6 CHAIRS, OFOI	DN4.5	BEDROOM BUNK, OFOI
DN2.8	TABLE, 36" SQUARE LEG STYLE, OFOI	DN4.6	THREE COMPARTMENT SHELF, OFOI
DN2.9	TABLE, 72" ROUND 5 SEAT - ADA, OFOI	DN4.7	WALL MOUNTED SWING STOOL, OFOI
DN3.1	ARMLESS CHAIR, OFOI	DN4.8	FLOOR MOUNTED SAFE CELL BED, OFOI



1 FIRST FLOOR DETENTION PLAN - AREA B
Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
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STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEGHI STATE OF MARYLAND

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KEY PLAN

SCALE

As indicated

No.	Description	Date

REVISIONS

DRAWN BY	RTB
APPROVED BY	JLB
CHECKED BY	CAC
DATE	02-05-2015

TITLE

FIRST FLOOR PLAN - DETENTION - AREA B

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

D110B

SHEET NO.

KEY NOTES:

DN1.1	SECURITY MIRROR	DN3.1A	ARM CHAIR, OFOI
DN1.2	FOLDING SHOWER SEAT	DN3.2	4 BEAM SEAT W/ END ARMS, OFOI
DN1.3	SECURITY GRAB BAR, XX" NOTE: LETTER DEFINES GRAB BAR LENGTH: A=24", B=36", C=42", D=48", E=54"	DN3.3	LOUNGE CHAIR, LEFT ARM, OFOI
DN1.4	TRANSACTION DRAWER	DN3.4	LOUNGE CHAIR, ARMLESS, OFOI
DN2.1	LEG STYLE TABLE (30" X 72"), OFOI	DN3.5	LOUNGE CHAIR, RIGHT ARM, OFOI
DN2.2	TABLE, OFOI	DN3.6	STACKABLE CHAIR, OFOI
DN2.3	OUTDOOR TABLE (44" X 44"), OFOI	DN4.1	DETENTION SHELF, OFOI
DN2.4	TABLE, FIXED SEATING ROUND TABLE, 42", OFOI	DN4.2	DETENTION DESK, OFOI
DN2.5	TABLE, LEG STYLE TABLE, 48" ROUND, OFOI	DN4.3	DETENTION BUNK, OFOI
DN2.6	TABLE, FIXED SEATING ROUND TABLE, 48" ADA, OFOI	DN4.4	FLOOR MOUNTED STOOL, OFOI
DN2.7	TABLE, 72" ROUND W/ 6 CHAIRS, OFOI	DN4.5	BEDROOM BUNK, OFOI
DN2.8	TABLE, 36" SQUARE LEG STYLE, OFOI	DN4.6	THREE COMPARTMENT SHELF, OFOI
DN2.9	TABLE, 72" ROUND 5 SEAT - ADA, OFOI	DN4.7	WALL MOUNTED SWING STOOL, OFOI
DN3.1	ARMLESS CHAIR, OFOI	DN4.8	FLOOR MOUNTED SAFE CELL BED, OFOI

GENERAL NOTES

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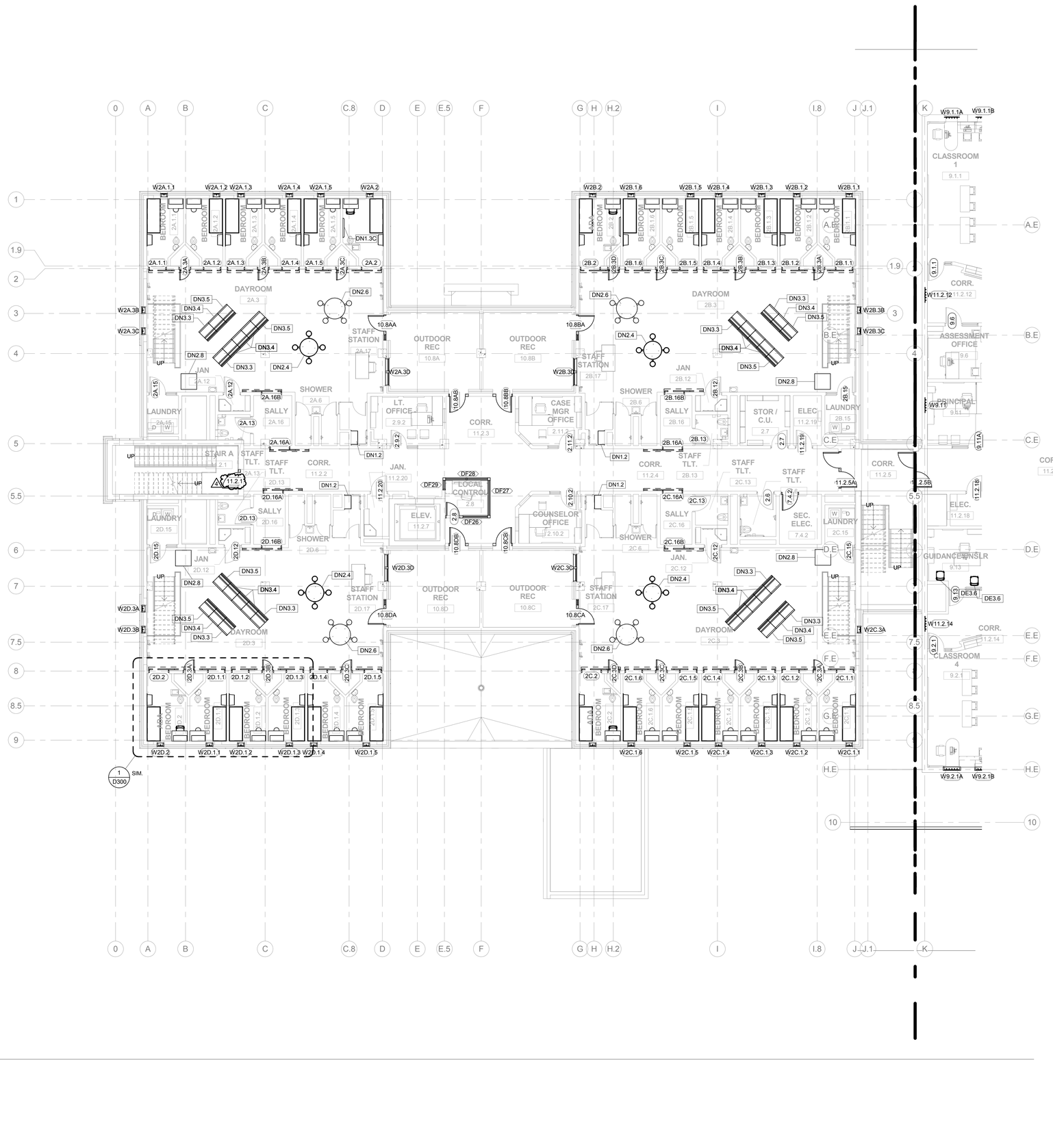

1 SECOND FLOOR DETENTION PLAN - AREA A
Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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SEAL

ARCHITECT 13814 JAMES L. BEIGHT STATE OF MARYLAND

THE CONTRACT DOCUMENTS FOR THE INDICATED PUBLIC IMPROVEMENT WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THEY COMPLY WITH THE RELEVANT BUILDING CODES OF THE STATE OF MARYLAND. LICENSE NUMBER 13814, EXPIRATION DATE 3/28/2015.

KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	RTB
APPROVED BY	JLB
CHECKED BY	CAC
DATE	02-05-2015

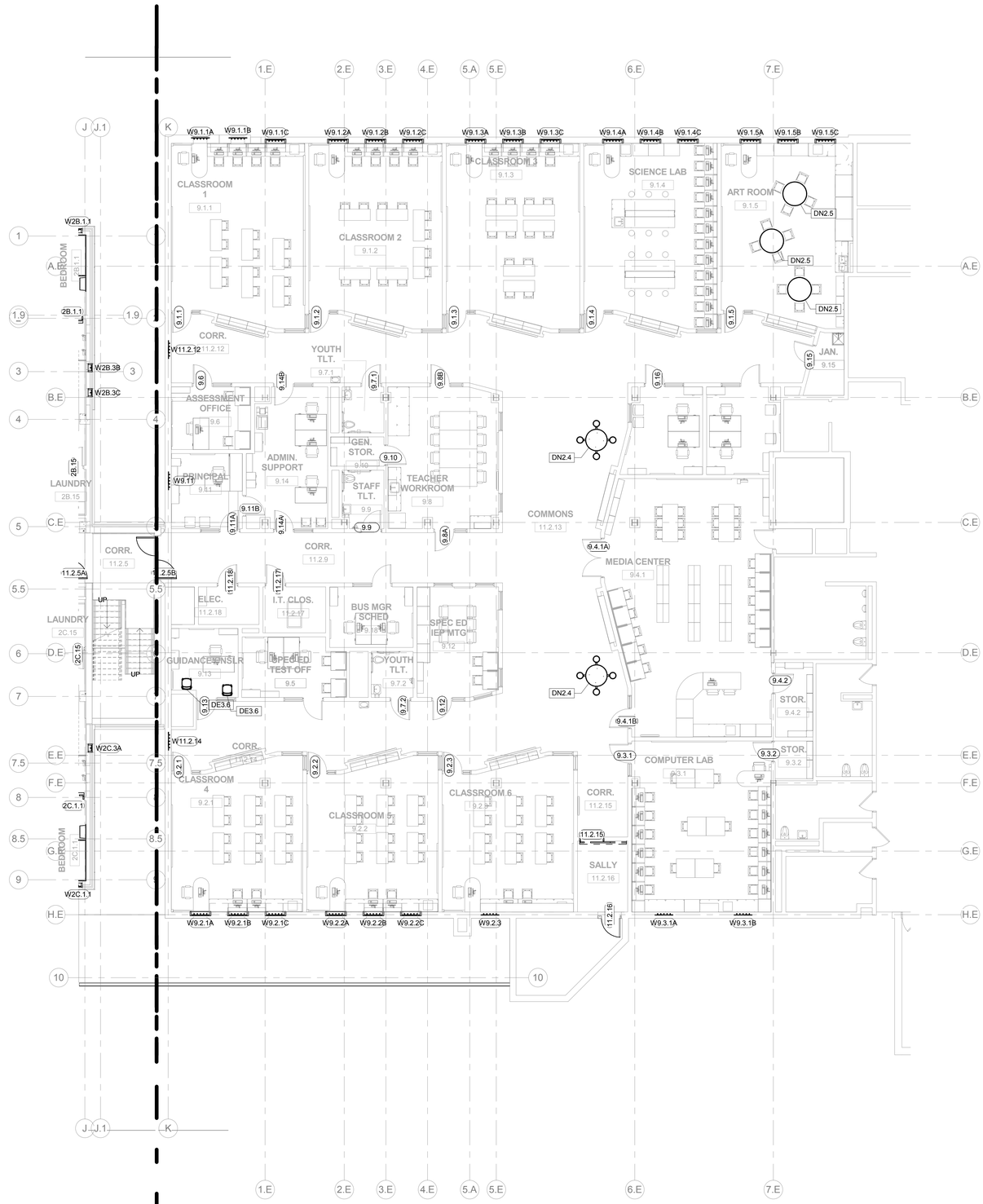
TITLE

SECOND FLOOR PLAN - DETENTION - AREA A

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

D120A

SHEET NO.



1 SECOND FLOOR DETENTION PLAN - AREA B

Scale: 1/8" = 1'-0"

KEY NOTES:

DN1.1	SECURITY MIRROR	DN3.1A	ARM CHAIR, OFOI
DN1.2	FOLDING SHOWER SEAT	DN3.2	4 BEAM SEAT W/ END ARMS, OFOI
DN1.3	SECURITY GRAB BAR, XX" NOTE: LETTER DEFINES GRAB BAR LENGTH: A=24", B=36", C=42", D=48", E=54"	DN3.3	LOUNGE CHAIR, LEFT ARM, OFOI
DN1.4	TRANSACTION DRAWER	DN3.4	LOUNGE CHAIR, ARMLESS, OFOI
DN2.1	LEG STYLE TABLE (30" X 72"), OFOI	DN3.5	LOUNGE CHAIR, RIGHT ARM, OFOI
DN2.2	TABLE, OFOI	DN3.6	STACKABLE CHAIR, OFOI
DN2.3	OUTDOOR TABLE (44" X 44"), OFOI	DN4.1	DETENTION SHELF, OFOI
DN2.4	TABLE, FIXED SEATING ROUND TABLE, 42", OFOI	DN4.2	DETENTION DESK, OFOI
DN2.5	TABLE, LEG STYLE TABLE, 48" ROUND, OFOI	DN4.3	DETENTION BUNK, OFOI
DN2.6	TABLE, FIXED SEATING ROUND TABLE, 48" ADA, OFOI	DN4.4	FLOOR MOUNTED STOOL, OFOI
DN2.7	TABLE, 72" ROUND W/ 6 CHAIRS, OFOI	DN4.5	BEDROOM BUNK, OFOI
DN2.8	TABLE, 36" SQUARE LEG STYLE, OFOI	DN4.6	THREE COMPARTMENT SHELF, OFOI
DN2.9	TABLE, 72" ROUND 5 SEAT - ADA, OFOI	DN4.7	WALL MOUNTED SWING STOOL, OFOI
DN3.1	ARMLESS CHAIR, OFOI	DN4.8	FLOOR MOUNTED SAFE CELL BED, OFOI

GENERAL NOTES

1. REFER TO DIVISION 08 OF THE PROJECT MANUAL FOR SECURITY GLAZING.
2. REFER TO DIVISION 11 OF THE PROJECT MANUAL FOR DETENTION RELATED SPECIFICATIONS
3. REFER TO SHEET D400 FOR DETENTION DOOR AND WINDOW SCHEDULES.
4. REFER TO SHEET D402 DETENTION FRAME ELEVATIONS FOR FRAMES THAT HAVE BEEN TAGGED WITH ◇ THESE FRAMES NOT INCLUDED IN DETENTION WINDOW SCHEDULE.
5. FURNISHINGS AND EQUIPMENT DESIGNATED ON DRAWINGS AND SPECIFICATIONS AS OFOI ARE TO BE OWNER FURNISHED, OWNER INSTALLED.
6. PROVIDE DETENTION ACCESS PANELS WHERE ELECTRICAL AND MECHANICAL DEVICES REQUIRE ACCESS THROUGH SECURITY WALLS, FLOORS OR CEILINGS. FINAL QUANTITY AND LOCATION WILL BE AS REQUIRED FOR ACCESS TO EQUIPMENT PROVIDED BY ELECTRICAL AND MECHANICAL. THESE PANELS MAY BE IN ADDITION TO OPENINGS FOR WALLS, OPENINGS REQUIRED BY OTHERS, ETC.
7. PROVIDE BARRIER GRILLES AT ALL OPENINGS EXCEEDING 8" X 8" IN SECURITY BARRIERS (WALLS AND PARTITIONS), AS WELL AS FLOORS AND ROOFS ENCLOSING SECURE AREAS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SECURITY BARRIERS. SEE MECHANICAL DRAWINGS FOR LOCATIONS AND SIZES OF DUCTS AND OTHER PENETRATIONS.
8. BARRIER GRILLES TO BE INSTALLED IN SECURITY BARRIERS WHERE MAXIMUM SECURITY GRILLES AND DIFFUSERS ARE NOT SCHEDULED. GRILLES TO BE TOOL RESISTANT STEEL (TRBG) WHEN PENETRATING THE INSTITUTIONAL PERIMETER. BARRIER GRILLES ARE NOT REQUIRED BEHIND MAXIMUM SECURITY AIR GRILLES AND/OR DIFFUSERS UNLESS SPECIFICALLY NOTED.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
8300 UTTY PARK DR, SUITE 1000
11350 MCCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1155

TERRALOGOS

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEGIC STATE OF MARYLAND

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KEY PLAN

SCALE

As indicated

No.	Description	Date

REVISIONS

DRAWN BY	RTB
APPROVED BY	JLB
CHECKED BY	CAC
DATE	02-05-2015

TITLE

SECOND FLOOR PLAN - DETENTION - AREA B

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

D120B

SHEET NO.

KEY NOTES:

DN1.1	SECURITY MIRROR
DN1.2	FOLDING SHOWER SEAT
DN1.3	SECURITY GRAB BAR, XX" NOTE: LETTER DEFINES GRAB BAR LENGTH: A=24", B=36", C=42", D=48", E=54"
DN1.4	TRANSACTION DRAWER
DN2.1	LEG STYLE TABLE (30" X 72"), OFOI
DN2.2	TABLE, OFOI
DN2.3	OUTDOOR TABLE (44" X 44"), OFOI
DN2.4	TABLE, FIXED SEATING ROUND TABLE, 42", OFOI
DN2.5	TABLE, LEG STYLE TABLE, 48" ROUND, OFOI
DN2.6	TABLE, FIXED SEATING ROUND TABLE, 48" ADA, OFOI
DN2.7	TABLE, 72" ROUND W/ 6 CHAIRS, OFOI
DN2.8	TABLE, 36" SQUARE LEG STYLE, OFOI
DN2.9	TABLE, 72" ROUND 5 SEAT - ADA, OFOI
DN3.1	ARMLESS CHAIR, OFOI
DN3.1A	ARM CHAIR, OFOI
DN3.2	4 BEAM SEAT W/ END ARMS, OFOI
DN3.3	LOUNGE CHAIR, LEFT ARM, OFOI
DN3.4	LOUNGE CHAIR, ARMLESS, OFOI
DN3.5	LOUNGE CHAIR, RIGHT ARM, OFOI
DN3.6	STACKABLE CHAIR, OFOI
DN4.1	DETENTION SHELF, OFOI
DN4.2	DETENTION DESK, OFOI
DN4.3	DETENTION BUNK, OFOI
DN4.4	FLOOR MOUNTED STOOL, OFOI
DN4.5	BEDROOM BUNK, OFOI
DN4.6	THREE COMPARTMENT SHELF, OFOI
DN4.7	WALL MOUNTED SWING STOOL, OFOI
DN4.8	FLOOR MOUNTED SAFE CELL BED, OFOI

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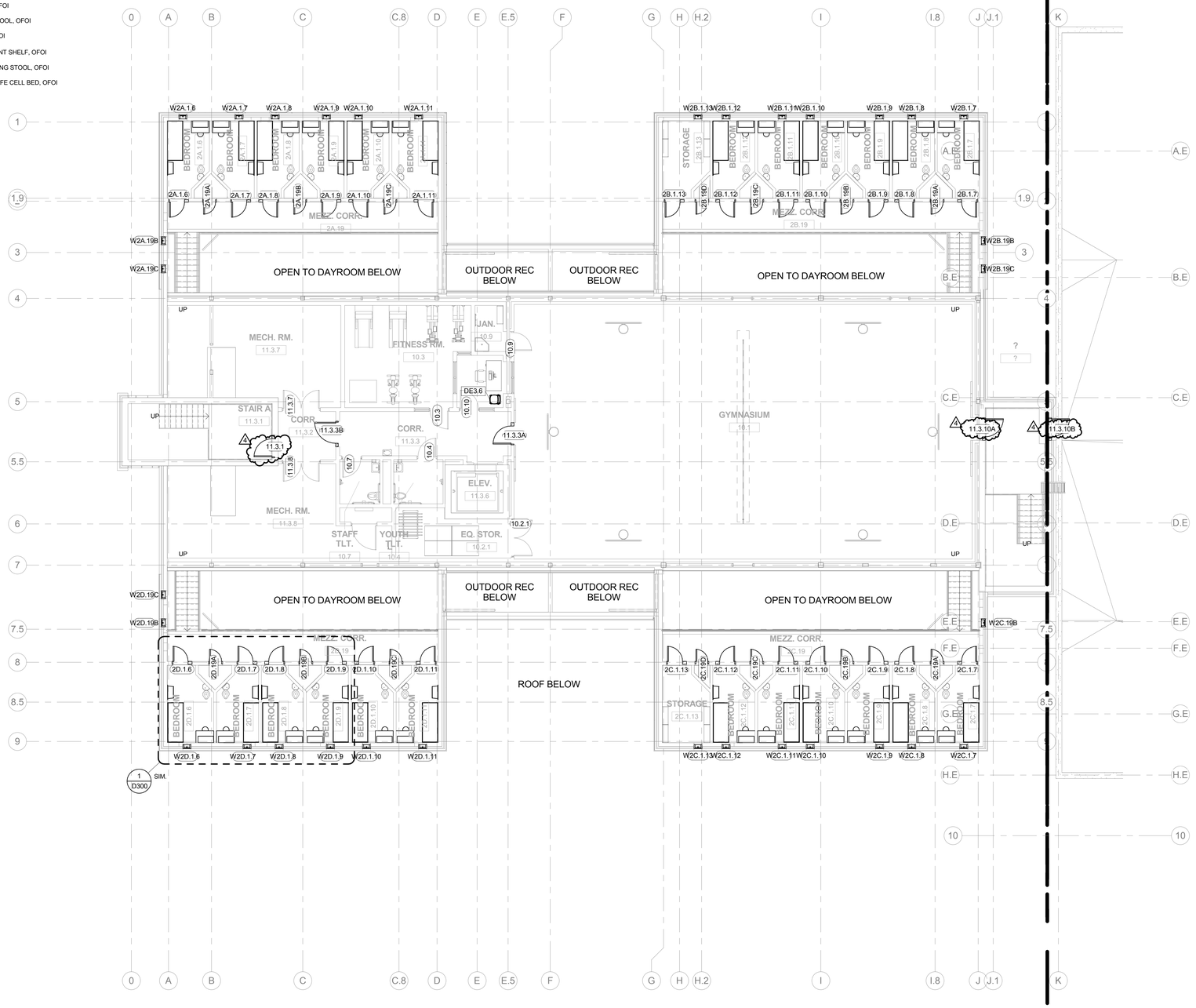
4



1 THIRD FLOOR AND MEZZ. DETENTION PLAN

Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

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KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	RTB
APPROVED BY	JLB
CHECKED BY	CAC
DATE	02-05-2015

TITLE

THIRD FLOOR AND MEZZ. PLAN - DETENTION

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

D130

SHEET NO.

DETENTION DOOR SCHEDULE

DOOR NUMBER	DOOR						FRAME		GLAZING	FIRE LABEL	HARDWARE	DETAILS			REMARKS	DOOR NUMBER
	LEAF QTY	SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	TYPE	MATERIAL	TYPE	MATERIAL				HEAD	JAMB	SILL		
0.2A	1	3' - 0"	7' - 0"	2"	HG P	DHM		DHM	SG-12R	20	DHW-820R	12/D403	13-14/D403	6/D403		0.2A
0.2B	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12R	20	DHW-820R	12/D403	13-14/D403	6/D403		0.2B
0.2C	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-820	12/D403	13-14/D403	6/D403		0.2C
0.3A	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12R	20	DHW-820R	12/D403	13-14/D403	6/D403		0.3A
0.3B	1	3' - 0"	7' - 0"	2"	HG	DHM	DF2	DHM	SG-12		DHW-320	4/D403	5/D403	--		0.3B
0.6	1	3' - 0"	7' - 0"	2"	FG2	DHM		DHM	SG-16		DHW-310M	4/D403	5/D403	6/D403		0.6
2.8	1	2' - 6"	7' - 0"	2"	HG	DHM	DF1	DHM	SG-12		DHW-310M	1/D403	7/D403	6/D403		2.8
2A.1.1	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	20/D403		2A.1.1
2A.1.2	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	20/D403		2A.1.2
2A.1.3	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	20/D403		2A.1.3
2A.1.4	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	20/D403		2A.1.4
2A.1.5	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	20/D403		2A.1.5
2A.1.6	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403	--		2A.1.6
2A.1.7	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403	--		2A.1.7
2A.1.8	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403	--		2A.1.8
2A.1.9	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403	--		2A.1.9
2A.1.10	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403	--		2A.1.10
2A.1.11	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403	--		2A.1.11
2A.2	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	20/D403		2A.2
2A.3A	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403	--		2A.3A
2A.3B	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403	--		2A.3B
2A.3C	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403	--		2A.3C
2A.16A	1	3' - 0"	7' - 0"	2"	N P	DHM	DF5	DHM	SG-12R	20S	DHW-820R	12/D403	13-14/D403	20/D403		2A.16A
2A.16B	1	3' - 0"	7' - 0"	2"	N P	DHM	DF5	DHM	SG-12		DHW-820	12/D403	13-14/D403	20/D403		2A.16B
2A.19A	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2A.19A
2A.19B	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2A.19B
2A.19C	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2A.19C
2B.1.1	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2B.1.1
2B.1.2	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2B.1.2
2B.1.3	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2B.1.3
2B.1.4	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2B.1.4
2B.1.5	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2B.1.5
2B.1.6	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2B.1.6
2B.1.7	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2B.1.7
2B.1.8	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2B.1.8
2B.1.9	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2B.1.9
2B.1.10	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2B.1.10
2B.1.11	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2B.1.11
2B.1.12	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2B.1.12
2B.1.13	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2B.1.13
2B.2	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2B.2
2B.3A	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2B.3A
2B.3B	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2B.3B
2B.3C	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2B.3C
2B.3D	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2B.3D
2B.16A	1	3' - 0"	7' - 0"	2"	N P	DHM	DF5	DHM	SG-12R	20S	DHW-820R	12/D403	13-14/D403	19/D403		2B.16A
2B.16B	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-820	12/D403	13-14/D403	19/D403		2B.16B
2B.19A	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2B.19A
2B.19B	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2B.19B
2B.19C	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2B.19C
2B.19D	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2B.19D
2C.1.1	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2C.1.1
2C.1.2	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2C.1.2
2C.1.3	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2C.1.3
2C.1.4	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2C.1.4
2C.1.5	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2C.1.5
2C.1.6	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2C.1.6
2C.1.7	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2C.1.7
2C.1.8	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2C.1.8
2C.1.9	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2C.1.9
2C.1.10	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2C.1.10
2C.1.11	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2C.1.11
2C.1.12	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2C.1.12
2C.1.13	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2C.1.13
2C.2	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2C.2
2C.3A	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2C.3A
2C.3B	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2C.3B
2C.3C	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2C.3C
2C.3D	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2C.3D
2C.16A	1	3' - 0"	7' - 0"	2"	N P	DHM	DF5	DHM	SG-12R	20S	DHW-820R	12/D403	13-14/D403	19/D403		2C.16A
2C.16B	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-820	12/D403	13-14/D403	19/D403		2C.16B
2C.19A	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2C.19A
2C.19B	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2C.19B
2C.19C	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2C.19C
2C.19D	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2C.19D
2D.1.1	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2D.1.1
2D.1.2	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2D.1.2
2D.1.3	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2D.1.3
2D.1.4	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2D.1.4
2D.1.5	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2D.1.5
2D.1.6	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2D.1.6
2D.1.7	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2D.1.7
2D.1.8	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2D.1.8
2D.1.9	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2D.1.9
2D.1.10	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2D.1.10
2D.1.11	1	2' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			2D.1.11
2D.2	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2D.2
2D.3A	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2D.3A
2D.3B	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2D.3B
2D.3C	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2D.3C
2D.16A	1	3' - 0"	7' - 0"	2"	N P	DHM	DF5	DHM	SG-12R	20S	DHW-820R	12/D403	13-14/D403	19/D403		2D.16A
2D.16B	1	3' - 0"	7' - 0"	2"	N P	DHM	DF5	DHM	SG-12		DHW-820	12/D403	13-14/D403	19/D403		2D.16B
2D.19A	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2D.19A
2D.19B	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2D.19B
2D.19C	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2D.19C
2F.0.1A	1	3' - 0"	7' - 0"	2"	N P	DHM	DF5	DHM	SG-12R	20S	DHW-820R	12/D403	13-14/D403	19/D403		2F.0.1A
2F.0.1B	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-820	12/D403	13-14/D403	19/D403		2F.0.1B
2F.0.3	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12R	20S	DHW-820R	12/D403	13-14/D403	19/D403		2F.0.3
2F.1.1	1	2' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2F.1.1
2F.1.2	1	2' - 6"	7' - 0"	2"	HG	DHM	DF1	DHM	SG-12		DHW-310M	18/D403	19/D403			2F.1.2
2F.1.3	1	2' - 6"	7' - 0"	2"	HG	DHM	DF1	DHM	SG-12		DHW-310M	18/D403	19/D403			2F.1.3
2F.1.4	1	2' - 6"	7' - 0"	2"	HG	DHM	DF1	DHM	SG-12		DHW-310M	18/D403	19/D403			2F.1.4
2F.1.5	1	2' - 6"	7' - 0"	2"	HG	DHM	DF1	DHM	SG-12		DHW-310M	18/D403	19/D403			2F.1.5
2F.1.6	1	2' - 6"	7' - 0"	2"	HG	DHM	DF1	DHM	SG-12		DHW-310M	4/D403	5/D403			2F.1.6
2F.1.7	1	2' - 6"	7' - 0"	2"	HG	DHM	DF1	DHM	SG-12		DHW-310M	4/D403	5/D403			2F.1.7
2F.1.8	1	2' - 6"	7' - 0"	2"	HG	DHM	DF1	DHM	SG-12		DHW-310M	4/D403	5/D403			2F.1.8
2F.1.9	1	2' - 6"	7' - 0"	2"	HG	DHM	DF1	DHM	SG-12		DHW-310M	4/D403	5/D403			2F.1.9
2F.2	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		2F.2
2F.3A	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2F.3A
2F.3B	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2F.3B
2F.3C	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2F.3C
2F.3D	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2F.3D
2F.3E	1	2' - 0"	6' - 4"	2"	F	DHM	DF1	DHM	-		DHW-116	4/D403	5/D403			2F.3E
3.0.1	1	3' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12	20	DHW-320R	4/D403	5/D403			3.0.1
3.1.1	1	3' - 0"	7' - 0"	2"	HG	DHM	DF6	DHM	SG-12		DHW-310	4/D403	5/D403			3.1.1
3.1.2	1	3' - 0"	7' - 0"	2"	HG	DHM	DF6	DHM	SG-12		DHW-310	4/D403	5/D403			3.1.2
3.2	1	3' - 0"	7' - 0"	2"	N	DHM	DF1	DHM	SG-12		DHW-111	4/D403	5/D403			3.2
3.3	1	3' - 0"	7' - 0"	2"	HG	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			3.3
3.6A	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-820	12/D403	13-14/D403	19/D403		3.6A
3.6B	1	3' - 6"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-820	12/D403	13-14/D403	19/D403		3.6B
3.7B	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-320X	4/D403	5/D403			3.7B
4.0.1	1	3' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12R	20S	DHW-320MR	4/D403	5/D403			4.0.1
4.0.2A	1	2' - 6"	5' - 6"	2"	F	DHM	DNC	DHM	-		DHW-116	4/D403	5/D403			4.0.2A
4.0.2B	1	2' - 6"	5' - 6"	2"	F	DHM	DNC	DHM	-		DHW-116	4/D403	5/D403			4.0.2B
4.0.3	1	3' - 0"	7' - 0"	2"	HG	DHM	DF10	DHM	SG-12R	20S	DHW-320MR	4/D403	5/D403			4.0.3
4.0.4	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12R	20S	DHW-320MR	4/D403	5/D403			4.0.4
4.1	1	3' - 0"	7' - 0"	2"	N	DHM	DF1	DHM	SG-12	20	DHW-320R	4/D403	5/D403			4.1
4.7A	1	3' - 0"	7' - 0"	2"	HG	DHM	DF6	DHM	SG-12R	20S	DHW-320MR	4/D403	5/D403			4.7A
4.7B	1	3' - 0"	7' - 0"	2"	HG	DHM	DF6	DHM	SG-12		DHW-320M	4/D403	5/D403			4.7B
4.11	1	3' - 0"	7' - 0"	2"	N	DHM	DF1	DHM	SG-12		DHW-210M	4/D403	5/D403			4.11
4.12	1	3' - 0"	7' - 0"	2"	HG	DHM	DF7	DHM	SG-12R	20	DHW-320R	4/D403	5/D403			4.12
4.23.1	1	2' - 8"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		4.23.1
4.23.2	1	2' - 8"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		4.23.2
4.23.3	1	2' - 8"	7' - 0"	2"	HG P	DHM	DF2	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		4.23.3
4.23.4	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-810	12/D403	13-15/D403	19/D403		4.23.4
5.3	1	3' - 0"	7' - 0"	2"	HG	DHM	DF8	DHM	SG-12R	20	DHW-320R	4/D403	5/D403			5.3
6.2A	1	3' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	ISG2		DHW-320X	4/D403	5/D403			6.2A
6.2B	1	3' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	ISG2	45	DHW-320X	4/D403	5/D403			6.2B
6.2C	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310M	4/D403	5/D403			6.2C
6.6A	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12R	20	DHW-320R	4/D403	5/D403			6.6A
6.6B	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12R	20	DWH-320R	4/D403	5/D403			6.6B
6.11	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12R	20	DHW-320R	4/D403	5/D403			6.11
7.4.1	1	3' - 0"	7' - 0"	2"	F	DHM	DF1	DHM	-		DHW-112M	4/D403	5/D403			7.4.1
7.4.2	1	3' - 0"	7' - 0"	2"	F	DHM	DF1	DHM	SG-12R	20	DHW-112M	4/D403	5/D403			7.4.2
8.1.3	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310	4/D403	5/D403			8.1.3
8.1.5	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-310	4/D403	5/D403			8.1.5

DETENTION DOOR SCHEDULE

DOOR NUMBER	DOOR						FRAME		GLAZING	FIRE LABEL	HARDWARE	DETAILS			REMARKS	DOOR NUMBER
	LEAF QTY	SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	TYPE	MATERIAL	TYPE	MATERIAL				HEAD	JAMB	SILL		
8.4.1	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-320M	4/D403	5/D403			8.4.1
8.4.2	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-320M	4/D403	5/D403			8.4.2
8.6	1	3' - 0"	7' - 0"	2"	F	DHM	DF1	DHM	-		DHW-111	4/D403	5/D403			8.6
8.7A	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-320M	4/D403	5/D403			8.7A
8.7B	1	3' - 0"	7' - 0"	2"	HG	DHM	DF9	DHM	SG-12R	20	DHW-320MR	4/D403	5/D403			8.7B
10.8AA	1	3' - 0"	7' - 0"	2"	FG2	DHM		DHM	ISG2		DHW-310MX	2/D403	3/D403			10.8AA
10.8AB	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	ISG2		DHW-310MX	2/D403	3/D403			10.8AB
10.8BA	1	3' - 0"	7' - 0"	2"	FG2	DHM		DHM	ISG2		DHW-310MX	2/D403	3/D403			10.8BA
10.8BB	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	ISG2		DHW-310MX	2/D403	3/D403			10.8BB
10.8CA	1	3' - 0"	7' - 0"	2"	FG2	DHM		DHM	ISG2		DHW-310MX	2/D403	3/D403			10.8CA
10.8CB	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	ISG2		DHW-310MX	2/D403	3/D403			10.8CB
10.8DA	1	3' - 0"	7' - 0"	2"	FG2	DHM		DHM	ISG2		DHW-310MX	2/D403	3/D403			10.8DA
10.8DB	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	ISG2		DHW-310MX	2/D403	3/D403			10.8DB
10.8F	1	3' - 0"	7' - 0"	2"	SR	DHM		DHM	ISG2		DHW-310MX	2/D403	3/D403			10.8F
11.1.1A	1	3' - 0"	7' - 0"	2"	F	DHM	DF2	DHM	SG-12R	45	DHW-320MR	18/D403	19/D403			11.1.1A
11.1.1B	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12R	45	DHW-320MX	2/D403	3/D403			11.1.1B
11.1.5A	1	3' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	GL-2	60MIN.	DHW-320MR	E3/A650	D3/A650			11.1.5A
11.1.5B	1	3' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12R	45	DHW-320MX	2/D403	3/D403			11.1.5B
11.1.10A	2	3' - 0"	7' - 0"	2"	N	DHM	DF4	DHM	SG-12R	45	DHW-321R	4/D403	5/D403			11.1.10A
11.1.10B	2	3' - 0"	7' - 0"	2"	N	DHM	DF4	DHM	SG-12R	90	DHW-321R	4/D403	5/D403			11.1.10B
11.1.14	1	3' - 0"	7' - 0"	2"	HG P	DHM	DF5	DHM	SG-12		DHW-820R	12/D403	13-14/D403	19/D403		11.1.14
11.2.1	1	3' - 0"	7' - 0"	2"	F	DHM	DF2	DHM	-	45	DHW-320MR	18/D403	19/D403			11.2.1
11.2.5A	2	3' - 0"	7' - 0"	2"	N	DHM	DF4	DHM	SG-12R	45	DHW-321R	4/D403	5/D403			11.2.5A
11.2.5B	2	3' - 0"	7' - 0"	2"	N	DHM	DF4	DHM	SG-12R	90	DHW-321R	4/D403	5/D403			11.2.5B
11.2.15	1	3' - 0"	7' - 0"	2"	N P	DHM	DF5	DHM	SG-12		DHW-820	12/D403	13-14/D403	19/D403		11.2.15
11.2.16	1	3' - 0"	7' - 0"	2"	F	DHM	DF2	DHM	-		DHW-310M	2/D403	3/D403			11.2.16
11.3.1	1	3' - 0"	7' - 0"	2"	F	DHM	DF2	DHM	-	45	DHW-310	4/D403	5/D403			11.3.1
11.3.3A	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12	20	DHW-320M	4/D403	5/D403			11.3.3A
11.3.3B	1	3' - 6"	7' - 0"	2"	N	DHM	DF2	DHM	SG-12		DHW-320M	4/D403	5/D403			11.3.3B
11.3.10A	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	ISG2		DHW-310MX	2/D403	3/D403			11.3.10A
11.3.10B	1	3' - 0"	7' - 0"	2"	N	DHM	DF2	DHM	ISG2		DHW-310MX	2/D403	3/D403			11.3.10B
11.5B	1	3' - 6"	7' - 0"	2"	F	DHM	DF2	DHM	SG-12R	45	DHW-320X	2/D403	3/D403			11.5B

DETENTION WINDOW SCHEDULE

WINDOW NUMBER	ROOM NAME	FRAME						FIRE LABEL	Comments	WINDOW NUMBER
		WIDTH	HEIGHT	DEPTH	TYPE	MATERIAL	GLAZING TYPE			
W2A.1.1	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.1.1
W2A.1.2	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.1.2
W2A.1.3	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.1.3
W2A.1.4	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.1.4
W2A.1.5	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.1.5
W2A.1.6	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.1.6
W2A.1.7	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.1.7
W2A.1.8	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.1.8
W2A.1.9	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.1.9
W2A.1.10	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.1.10
W2A.1.11	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.1.11
W2A.2	ADA BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.2
W2A.3B	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.3B
W2A.3C	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.3C
W2A.3D	OUTDOOR REC	5' - 4"	8' - 8"	8"	DF21	DHM	ISG2			W2A.3D
W2A.19B	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.19B
W2A.19C	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2A.19C
W2B.1.1	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.1
W2B.1.2	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.2
W2B.1.3	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.3
W2B.1.4	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.4
W2B.1.5	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.5
W2B.1.6	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.6
W2B.1.7	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.7
W2B.1.8	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.8
W2B.1.9	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.9
W2B.1.10	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.10
W2B.1.11	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.11
W2B.1.12	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.12
W2B.1.13	STORAGE	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.1.13
W2B.2	ADA BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.2
W2B.3B	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	SG-12R	45		W2B.3B
W2B.3C	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	SG-12R	45		W2B.3C
W2B.3D	OUTDOOR REC	5' - 4"	8' - 8"	8"	DF21	DHM	ISG2			W2B.3D
W2B.19B	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.19B
W2B.19C	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2B.19C
W2C.1.1	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.1
W2C.1.2	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.2
W2C.1.3	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.3
W2C.1.4	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.4
W2C.1.5	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.5
W2C.1.6	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.6
W2C.1.7	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.7
W2C.1.8	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.8
W2C.1.9	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.9
W2C.1.10	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.10
W2C.1.11	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.11
W2C.1.12	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.12
W2C.1.13	STORAGE	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.1.13
W2C.2	ADA BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.2
W2C.3A	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2	45		W2C.3A
W2C.3C	OUTDOOR REC	5' - 4"	8' - 8"	8"	DF21	DHM	ISG2			W2C.3C
W2C.19B	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2C.19B
W2D.1.1	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.1.1
W2D.1.2	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.1.2
W2D.1.3	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.1.3
W2D.1.4	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.1.4
W2D.1.5	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.1.5
W2D.1.6	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.1.6
W2D.1.7	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.1.7
W2D.1.8	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.1.8
W2D.1.9	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.1.9
W2D.1.10	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.1.10
W2D.1.11	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.1.11
W2D.2	ADA BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.2
W2D.3A	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.3A
W2D.3B	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.3B
W2D.3D	OUTDOOR REC	5' - 4"	8' - 8"	8"	DF21	DHM	ISG2			W2D.3D
W2D.19B	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.19B
W2D.19C	DAYROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2D.19C
W2F.1.1	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2F.1.1
W2F.1.2	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2F.1.2
W2F.1.3	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2F.1.3
W2F.1.4	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2F.1.4
W2F.1.5	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2F.1.5
W2F.1.6	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2F.1.6
W2F.1.7	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2F.1.7
W2F.1.8	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2F.1.8
W2F.1.9	BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2F.1.9
W2F.2	ADA BEDROOM	1' - 4"	2' - 8"	8"	DF23	SS	ISG2			W2F.2
W3.3A	ADMISS. / REL. OFF.	3' - 0"	4' - 0"	8"	DF31	DHM	SG-12			W3.3A
W3.3B	ADMISS. / REL. OFF.	3' - 0"	4' - 0"	8"	DF31	DHM	SG-12			W3.3B
W3.3C	ADMISS. / REL. OFF.	4' - 0"	4' - 8"	5 3/4"	DF25	DHM	SG-12			W3.3C
W4.0.1	CORR.	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W4.0.1
W4.1A	YOUTH WAITING	7' - 0"	6' - 0"	5 3/4"	DF19	DHM	SG-8R	45		W4.1A
W4.1B	YOUTH WAITING	7' - 0"	6' - 0"	5 3/4"	DF19	DHM	SG-8R	45		W4.1B
W4.5	NURSE STATION	11' - 4"	5' - 4"	5 3/4"	DF20	DHM	SG-8R	45		W4.5
W4.16A	PHYS. / PSYCH. OFFICE	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W4.16A
W4.16B	PHYS. / PSYCH. OFFICE	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W4.16B
W4.20.1	ISOLATION RM. (ADA)	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W4.20.1
W4.20.2	ISOLATION RM.	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W4.20.2

DETENTION WINDOW SCHEDULE

WINDOW NUMBER	ROOM NAME	FRAME						FIRE LABEL	Comments	WINDOW NUMBER
		WIDTH	HEIGHT	DEPTH	TYPE	MATERIAL	GLAZING TYPE			
W4.22.1	INFIRM. RM. (ADA)	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W4.22.1
W4.22.2	INFIRM. RM.	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W4.22.2
W4.22.3	INFIRM. RM. (ADA)	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W4.22.3
W4.23.1	SAFE CELL	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W4.23.1
W4.23.2	SAFE CELL	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W4.23.2
W4.23.3	SAFE CELL (ADA)	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W4.23.3
W4.23.4	SAFE CELL	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W4.23.4
W6.6A	CORR.	7' - 0"	6' - 0"	5 3/4"	DF19	DHM	SG-8R	45		W6.6A
W6.6B	YOUTH DINING RM.	7' - 0"	6' - 0"	5 3/4"	DF19	DHM	SG-8R	45		W6.6B
W6.12	F.S. OFF.	3' - 0"	4' - 0"	8"	DF31	DHM	SG-16			W6.12
W8.2	SECURITY SCREEN	9' - 4"	4' - 8"	5 3/4"	DF12	DHM	SG-16R	45		W8.2
W8.7	CORR.	3' - 3"	4' - 8"	5 3/4"	DF11	DHM	SG-12R	45		W8.7
W9.1.1A	CLASSROOM 1	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.1A
W9.1.1B	CLASSROOM 1	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.1B
W9.1.1C	CLASSROOM 1	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.1C
W9.1.2A	CLASSROOM 2	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.2A
W9.1.2B	CLASSROOM 2	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.2B
W9.1.2C	CLASSROOM 2	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.2C
W9.1.3A	CLASSROOM 3	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.3A
W9.1.3B	CLASSROOM 3	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.3B
W9.1.3C	CLASSROOM 3	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.3C
W9.1.4A	SCIENCE LAB	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.4A
W9.1.4B	SCIENCE LAB	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.4B
W9.1.4C	SCIENCE LAB	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.4C
W9.1.5A	ART ROOM	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.5A
W9.1.5B	ART ROOM	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.5B
W9.1.5C	ART ROOM	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.1.5C
W9.2.1A	CLASSROOM 4	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.2.1A
W9.2.1B	CLASSROOM 4	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.2.1B
W9.2.1C	CLASSROOM 4	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.2.1C
W9.2.2A	CLASSROOM 5	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.2.2A
W9.2.2B	CLASSROOM 5	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.2.2B
W9.2.2C	CLASSROOM 5	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.2.2C
W9.2.3	CLASSROOM 6	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.2.3
W9.3.1A	COMPUTER LAB	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.3.1A
W9.3.1B	COMPUTER LAB	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.3.1B
W9.11	PRINCIPAL	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W9.11
W10.8F	FEMALE DAYROOM	5' - 4"	10' - 8"		DF10	DHM	ISG2			W10.8F
W11.2.12	CORR.	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W11.2.12
W11.2.14	CORR.	3' - 4"	2' - 8"	8"	DF24	DHM	ISG2			W11.2.14

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
EXECUTIVE PLAZA III, SUITE 1000
11350 McCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1115

TERRALOGOS ECO ARCHITECTURE, PC

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

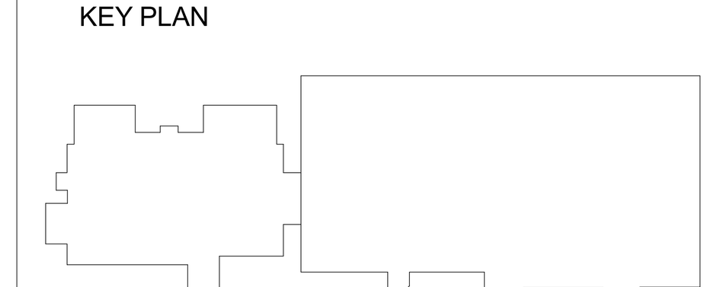
BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEIGHT STATE OF MARYLAND

THE CONTRACT DOCUMENTS FOR THE INDICATED PUBLIC IMPROVEMENT WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THEY COMPLY WITH THE RELEVANT BUILDING CODES OF THE STATE OF MARYLAND. LICENSE NUMBER 13814, EXPIRATION DATE 3/28/2015.

KEY PLAN



SCALE

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	GLJ
APPROVED BY	CRD
CHECKED BY	CRD
DATE	02-05-2015

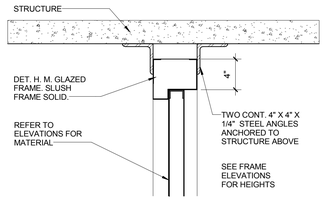
TITLE

DETENTION DOOR AND WINDOW SCHEDULE

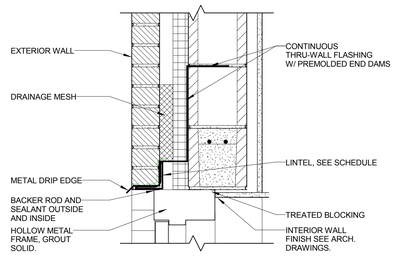
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

D400

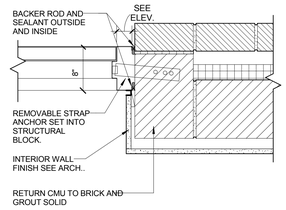
SHEET NO.



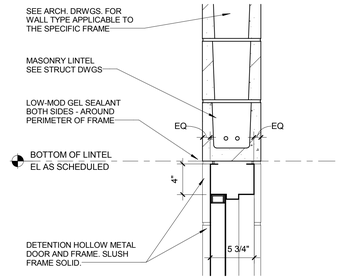
1 DETENTION - HEAD DETAIL
Scale: 1 1/2" = 1'-0"



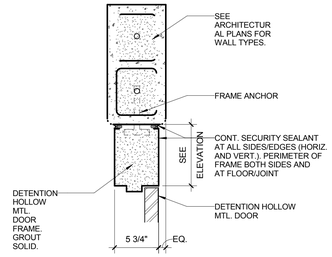
2 EXTERIOR HEAD @ BRICK WALL
Scale: 1 1/2" = 1'-0"



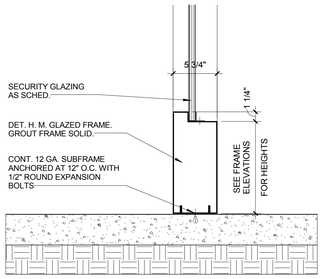
3 EXTERIOR JAMB @ BRICK WALL
Scale: 1 1/2" = 1'-0"



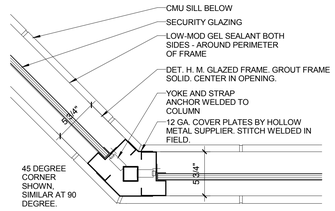
4 DETENTION - DOOR HEAD - IN CMU
Scale: 1 1/2" = 1'-0"



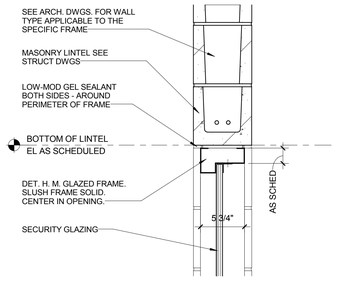
5 DOOR JAMB - 8" IN CMU
Scale: 1 1/2" = 1'-0"



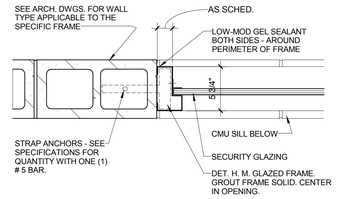
6 TYPICAL SILL @ FLOOR DETAIL
Scale: 1 1/2" = 1'-0"



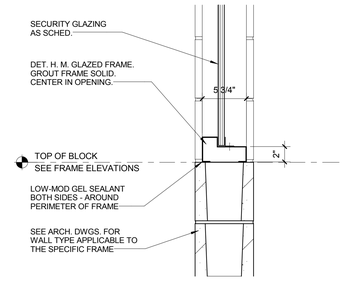
7 WINDOW CORNER JAMB
Scale: 1 1/2" = 1'-0"



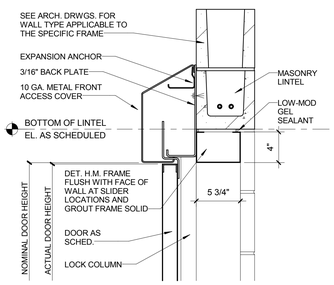
8 TYPICAL WINDOW HEAD DETAIL
Scale: 1 1/2" = 1'-0"



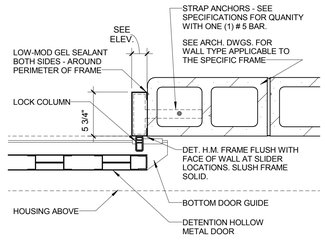
9 TYPICAL WINDOW JAMB DETAIL
Scale: 1 1/2" = 1'-0"



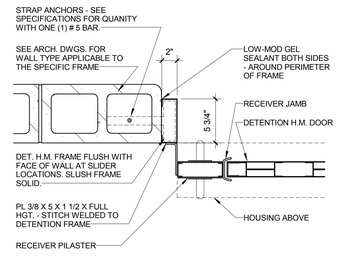
10 TYPICAL WINDOW SILL DETAIL
Scale: 1 1/2" = 1'-0"



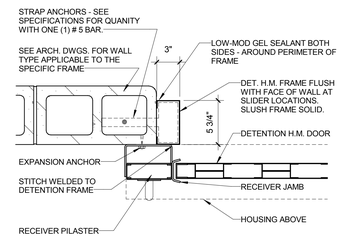
12 SLIDER HEAD DETAIL
Scale: 1 1/2" = 1'-0"



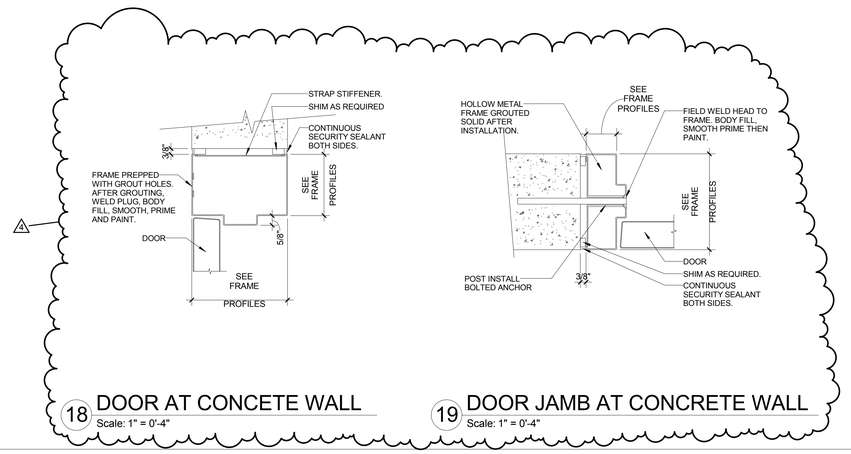
13 SLIDER JAMB DETAIL
Scale: 1 1/2" = 1'-0"



14 SLIDER JAMB
Scale: 1 1/2" = 1'-0"

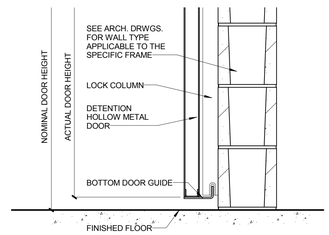


15 SLIDER JAMB
Scale: 1 1/2" = 1'-0"



18 DOOR AT CONCETE WALL
Scale: 1" = 0'-4"

19 DOOR JAMB AT CONCRETE WALL
Scale: 1" = 0'-4"



20 SLIDER SILL DETAIL
Scale: 1 1/2" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS
EBA ENGINEERING
HOPE FURRER Associates, Inc.
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LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

ARCHITECT 13814 JAMES L. BEIGHT STATE OF MARYLAND

THE CONTRACT DOCUMENTS FOR THE INDICATED PUBLIC IMPROVEMENT WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THEY COMPLY WITH THE RELEVANT BUILDING CODES OF THE STATE OF MARYLAND. LICENSE NUMBER 13814, EXPIRATION DATE 3/28/2015.

KEY PLAN

SCALE

As indicated

No.	Description	Date
4	ADD-4	02-26-2015

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	02-05-2015

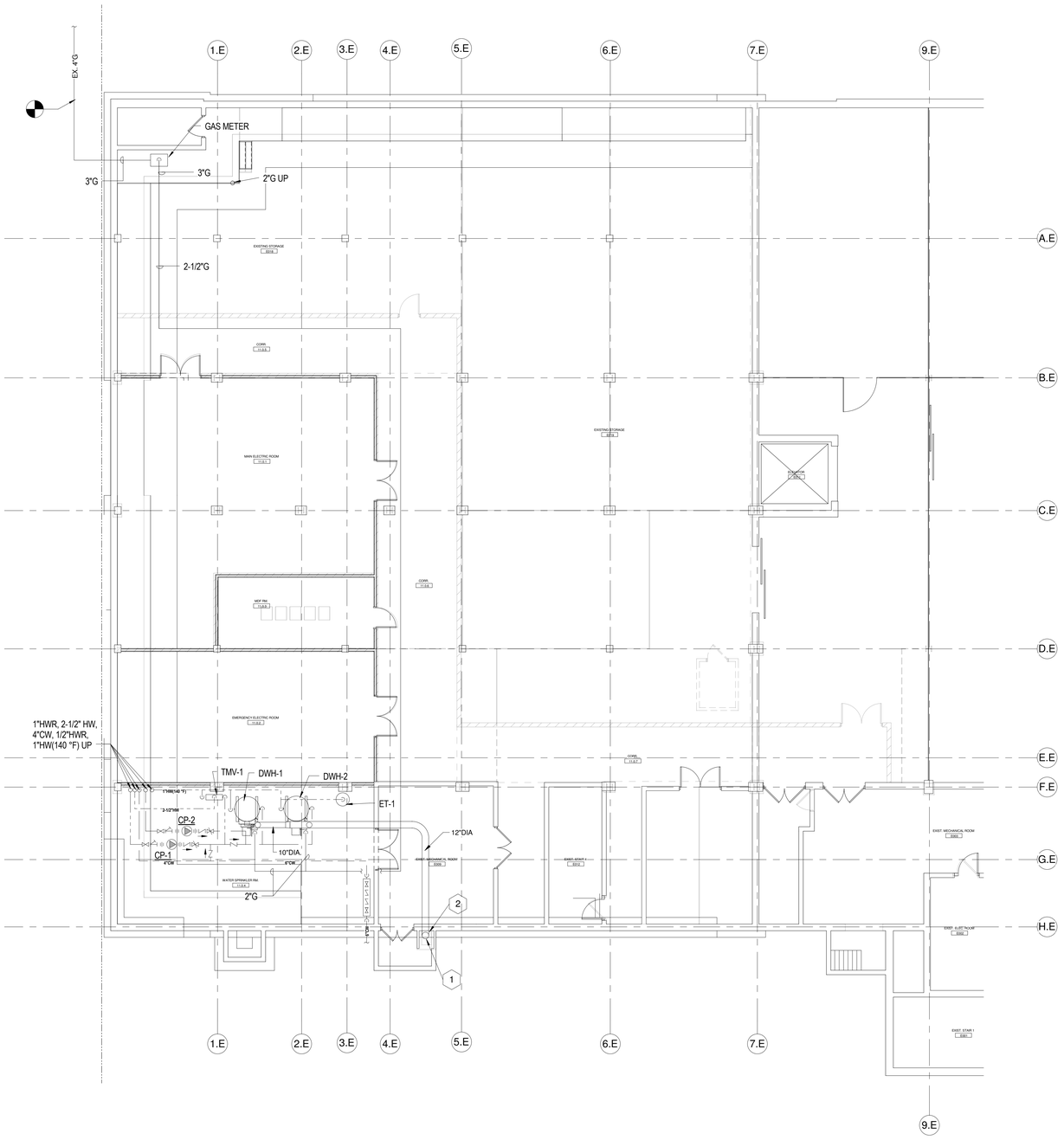
TITLE

DETENTION DOOR AND WINDOW DETAILS

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

D403

SHEET NO.



N 1 BASEMENT FLOOR PLAN - DOMESTIC PLUMBING
Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'
SCALE: 1/8" = 1' - 0"

GENERAL SHEET NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL REPORT DISCREPANCIES, IF ANY, TO THE ENGINEER FOR cLARIFICATION PRIOR TO STARTING ANY WORK.
2. EXACT LOCATION OF ALL EQUIPMENT AND ACCESSORIES SHALL BE VERIFIED IN THE FIELD
3. ALL MATERIALS SHALL BE AS PER THE DRAWINGS AND SPECIFICATIONS AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO ITS INSTALLATION.

SHEET NOTES:

1. 12" FLUE UP APPROXIMATELY 35 FEET TO TOP OF CHIMNEY. TERMINATE WITH CAP. PROVIDE SUPPORT AT BOTTOM, TOP, AND TWO INTERMEDIATE SUPPORTS. REMOVE AND REINSTALL BRICKS AS NECESSARY TO INSTALL INTERMEDIATE SUPPORTS. EXTEND STACK DOWN TO CHIMNEY ACCESS DOOR AND PROVIDE CLEANOUT AND CONDENSATE DRAIN.
2. REMOVE ANY DEBRIS FROM BOTTOM OF EXISTING CHIMNEY AND VACUUM.

A JOINT-VENTURE BETWEEN
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PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"
LICENSE NO. 43481
EXPIRATION DATE: 09/15/2015

KEY PLAN

SCALE
1/8" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

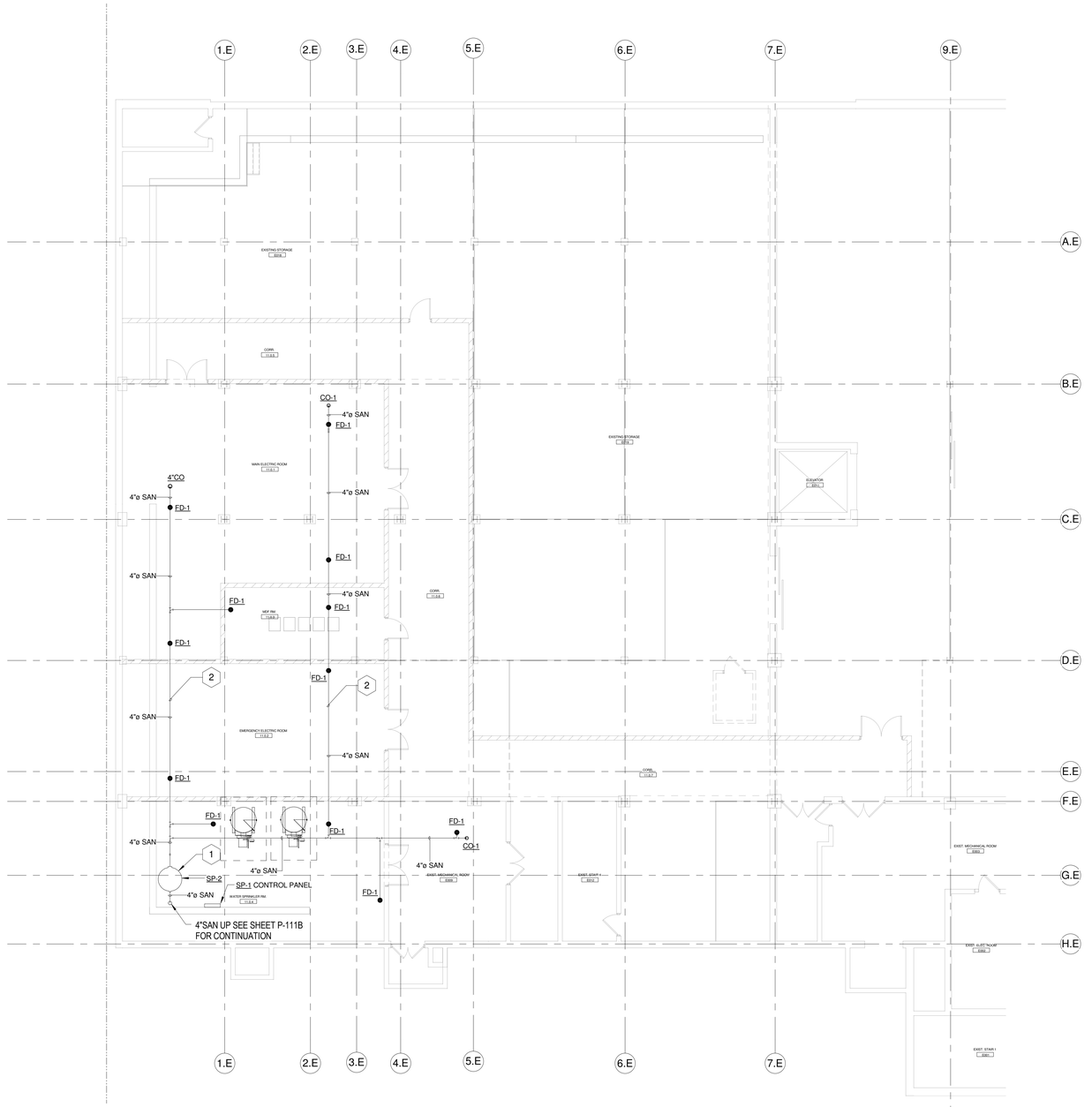
REVISIONS

DRAWN BY	DWO
APPROVED BY	JG
CHECKED BY	JG
DATE	26 February 2015

TITLE
BASEMENT FLOOR PLAN- DOMESTIC PLUMBING

PSA-DEWBERRY PROJECT NO. Project Number
DPSCS CONTRACT NO. KT-000-150-C01

P100
SHEET NO.



N

1 BASEMENT FLOOR PLAN - SANITARY PLUMBING

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

SHEET NOTES:

1. PROVIDE A SUBMERSIBLE DUPLEX PUMP SP-2, 25 GPM AT 20 FT HEAD, 1/2HP, 1PH 115V MOTOR BY WEIL MODEL 1411 OR APPROVED EQUAL. PROVIDE CONTROL PANELWITH DISCONNECT, U/L LABLE, PUMP SELECTOR SWITCHS, POWER TO PUMP LIGHT, HIGH WATER ALARM WITH BUZZER, AUXILIARY DRY CONTACT, TERMINAL BLOCK AND TEST SWITCH. SET HIGH WATER ALARM AT 30" WATER LEVEL. PROVIDE 24" DIA X 36" DEEP STEEL BASIN WITH COVER . PROVIDE BUILT IN DIAPHRAGM SWITCH, PROVIDE STAINLESS STEEL LIFTING CABLE, JUNCTION BOX, CONTROLS WITH THERMAL OVERLOAD PROTECTION, AND MICROSWITCH FOR OVERFLOW PROTECTION.
2. ALL UNDERGROUND WASTE WATER PIPING SHALL BE POLYVINYL CHOLRIDE (PVC) PIPING.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"

LICENSE NO. 43481

EXPIRATION DATE: 05/15/2015

STATE OF MARYLAND · STEVEN W. CHEW · 43481 · PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

TITLE

BASEMENT FLOOR PLAN - SANITARY PLUMBING

PSA-DEWBERRY PROJECT NO. Project Number

DPSCS CONTRACT NO. KT-000-150-C01

P101

SHEET NO.

SANITARY RISER DIAGRAM

NOT TO SCALE

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

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STATE OF MARYLAND - DPSCS

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BALTIMORE MARYLAND

SEAL

STATE OF MARYLAND
STEVEN W. SIDHU
3493
PROFESSIONAL ENGINEER
43481
05/15/2015

KEY PLAN

SCALE

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

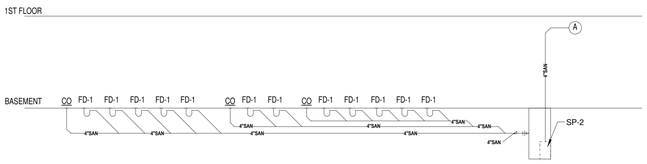
TITLE

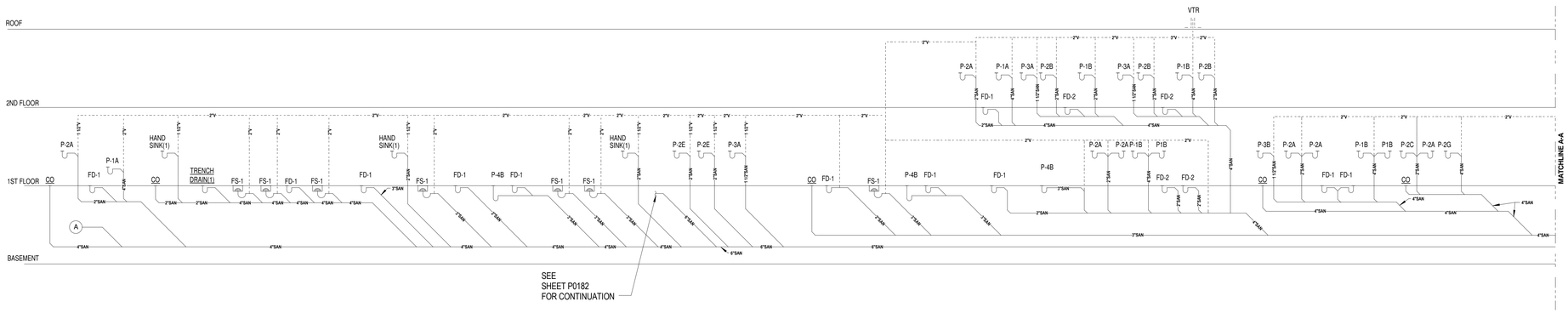
PLUMBING - SANITARY RISER DIAGRAM - AREA A

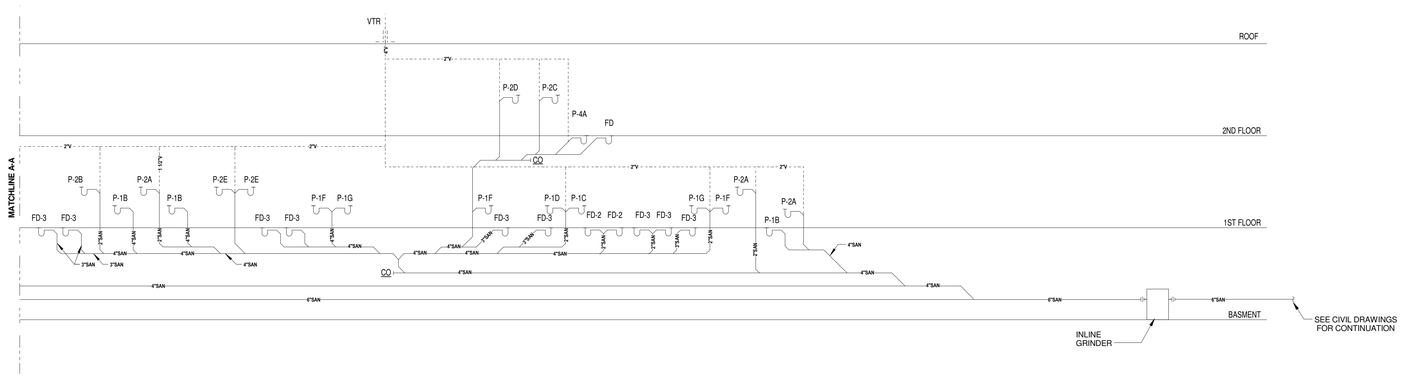
PSA-DEWBERRY PROJECT NO.	Project Number
DPSCS CONTRACT NO.	KT-000-150-C01

PO182

SHEET NO.







SANITARY RISER DIAGRAM
NOT TO SCALE

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

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STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

43481
05/15/2015

KEY PLAN

SCALE

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

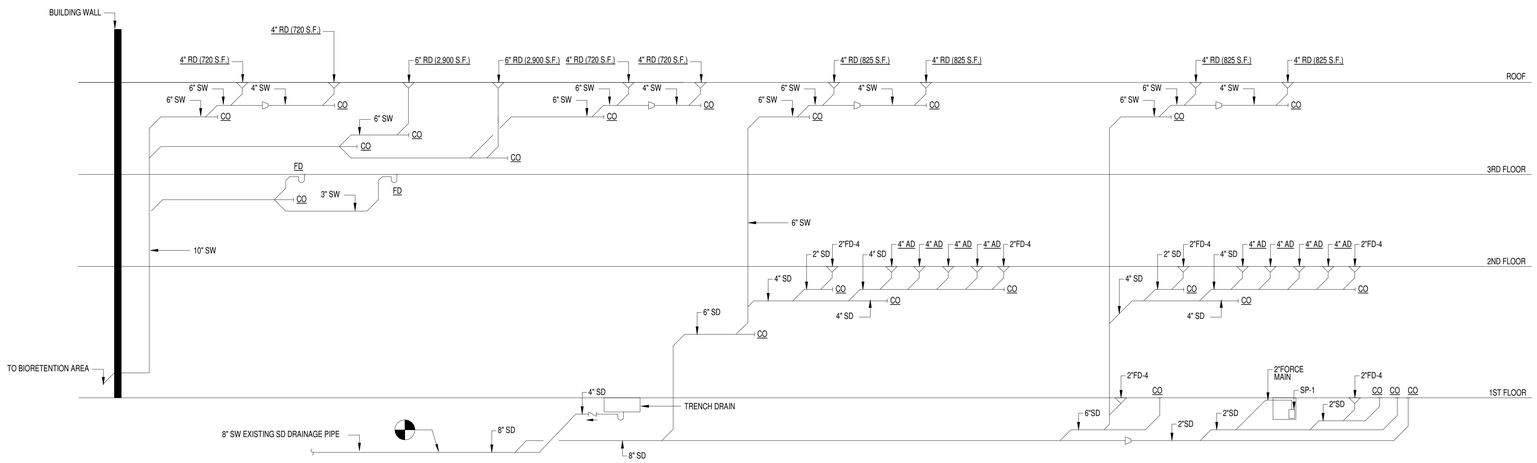
TITLE

PLUMBING - SANITARY RISER DIAGRAM - AREA B

PSA-DEWBERRY PROJECT NO.	Project Number
DPSCS CONTRACT NO.	KT-000-150-C01

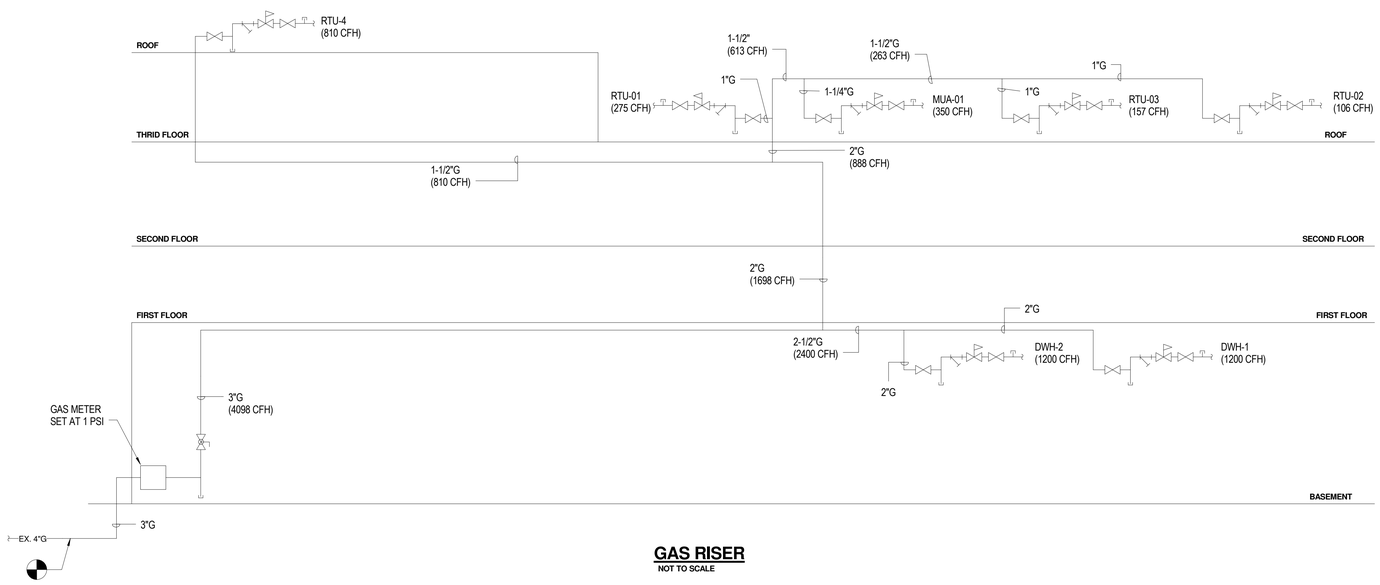
PO183

SHEET NO.



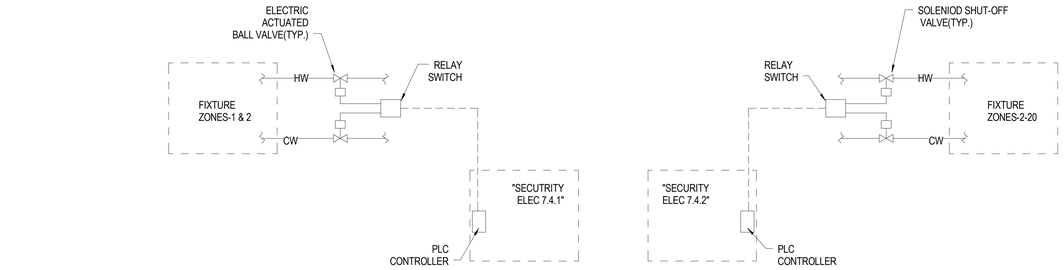
STORM WATER RISER DIAGRAM

SCALE: NONE



GAS RISER

NOT TO SCALE



PLUMBING FIXTURE ZONE SHUT-OFF RISER DIAGRAM

NOT TO SCALE

A JOINT-VENTURE BETWEEN
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STATE OF MARYLAND - DPSCS

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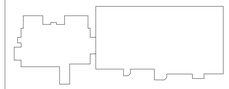
SEAL

KEY PLAN



SCALE

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

TITLE

PLUMBING - STORM DRAIN AND GAS RISER DIAGRAM

PSA-DEWBERRY PROJECT NO.	Project Number
DPSCS CONTRACT NO.	KT-000-150-C01

PO184

SHEET NO.

MECHANICAL PROJECT NOTES

1. THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS, AS LISTED IN THE DRAWING INDEX ON THIS SHEET. SEE ALSO GENERAL NOTES ON INDIVIDUAL DRAWINGS.
2. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, LABOR AND SERVICES NECESSARY TO SUCCESSFULLY COMPLETE ALL MECHANICAL WORK INDICATED. ALL WORK SHOWN IS EXISTING UNLESS SPECIFICALLY INDICATED AS DEMOLITION OR NEW WORK. SUCCESSFUL COMPLETION OF ALL WORK MEANS THAT ALL INSTALLED SYSTEMS SHALL BE COMPLETE AND READY FOR OPERATION. SUCCESSFUL COMPLETION ALSO INCLUDES COMPLETION OF ALL TESTING AND BALANCING WORK INDICATED IN THESE DRAWINGS.
3. CONTRACTOR SHALL APPLY FOR AND OBTAIN, AT NO ADDITIONAL COST TO THE OWNER, ALL LICENSES AND PERMITS REQUIRED BY STATE AND LOCAL JURISDICTIONAL AUTHORITIES FOR PERFORMANCE OF MECHANICAL WORK.
4. ALL MECHANICAL WORK (MATERIALS, LABOR, AND EQUIPMENT) SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR COMMENCING WITH THE DATE OF ACCEPTANCE OF ALL WORK BY THE OWNER. ADDITIONAL WARRANTIES AS PER SPECIFICATIONS SHALL ALSO APPLY.
5. ALL MECHANICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
6. ALL PRODUCTS (MATERIALS AND EQUIPMENT) SHALL BE FIRST-QUALITY NEW AND UNUSED PRODUCTS OF REPUTABLE MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURE OF SUCH PRODUCTS. ALL DEMOLITION, INSTALLATION, TESTING AND BALANCING WORK SHALL BE PERFORMED IN A PROFESSIONAL, FIRST CLASS, AND WORKMANLIKE MANNER BY WORKERS SKILLED IN THE TYPE OF WORK BEING PERFORMED.
7. INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS' PRINTED INSTRUCTIONS AND APPLICABLE NOTES AND SPECIFICATIONS ON THESE DRAWINGS. IF MANUFACTURERS' INSTRUCTIONS ARE IN DIRECT CONFLICT WITH INSTRUCTIONS ON THE DRAWINGS OR IN THE SPECIFICATIONS THE ENGINEER OF RECORD SHALL BE CONTACTED FOR CLARIFICATION.
8. CONTRACTOR SHALL ADHERE AT ALL TIMES TO ALL SAFETY REGULATIONS AND PROCEDURES REQUIRED BY THE LATEST EDITIONS OF THE FEDERAL-STATE OCCUPATIONAL SAFETY AND HEALTH ACTS (OSHA) AND TO ALL SAFETY REGULATIONS AND PROCEDURES REQUIRED BY THE OWNER.
9. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND CLEARANCES AND SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO FABRICATION OR INSTALLATION OF ANY WORK. NO ALLOWANCES WILL BE MADE BY OWNER FOR ANY ERROR OR NEGLIGENCE ON THE CONTRACTOR'S PART CONCERNING EXISTING CONDITIONS.
10. DUE TO THE SMALL SCALE OF THE DRAWINGS, NOT ALL OFFSETS, FITTINGS OR ACCESSORIES THAT MAY BE REQUIRED ARE INDICATED. CONTRACTOR SHALL CAREFULLY INVESTIGATE ALL CONDITIONS THAT WILL AFFECT THE WORK TO BE PERFORMED AND SHALL ARRANGE FOR SUCH WORK ACCORDINGLY, FURNISHING ALL MATERIAL AND LABOR REQUIRED FOR COMPLETE AND WORKABLE SYSTEMS AS NOTED ABOVE.
11. THE OWNER OR THEIR REPRESENTATIVE SHALL HAVE THE FINAL DETERMINATION IN CLARIFICATIONS AND INTERPRETATIONS REGARDING THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. ANY DEVIATIONS FROM THE DRAWINGS MUST BE APPROVED IN WRITING BY THE OWNER OR THEIR REPRESENTATIVE.
12. CONTRACTOR SHALL NOT DISCONNECT ANY EXISTING MECHANICAL OR ELECTRICAL SYSTEMS AND SHALL NOT CUT ANY EXISTING STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM THE OWNER OR THEIR REPRESENTATIVE.
13. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITY WITH THE OWNER OR THEIR REPRESENTATIVE TO MINIMIZE DISRUPTION TO OSTC NORMAL BUILDING OPERATIONS.
14. CONTRACTOR SHALL KEEP THE WORK SITE AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS GENERATED BY WORK PERFORMED UNDER THIS CONTRACT. SUCH DEBRIS SHALL BE REMOVED FROM THE WORK SITE, HAULED FROM THE PREMISES AND DISPOSED OF IN A LEGAL MANNER ON A DAILY BASIS.
15. PROTECT ALL EXISTING WORK WHICH IS TO REMAIN IN PLACE. ANY EXISTING WORK TO REMAIN WHICH IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
16. CONTRACTOR SHALL PERFORM ALL TESTS AND SECURE ALL INSPECTIONS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL FURNISH COPIES OF ALL REQUIRED INSPECTION CERTIFICATES TO OWNER PRIOR TO FINAL PAYMENT.

DESIGN CODES & STANDARDS

ALL CODES REFERENCED ARE TO BE MODIFIED AS REQUIRED BY STATE AND LOCAL AMENDMENTS:

2012 INTERNATIONAL MECHANICAL CODE
2009 NATIONAL STANDARD PLUMBING CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2012 INTERNATIONAL FUEL GAS CODE
2006 NFPA 101 LIFE SAFETY CODE
2002 NFPA 72 FIRE ALARM CODE
2006 INTERNATIONAL EXISTING BUILDING CODE
ANSI/ASHRAE/IESNA STANDARD 90.1-2007
ANSI/ASHRAE 55-2007
ANSI/ASHRAE 62.1-2007
ASHRAE GUIDELINE 0-2007
USGBC LEED-NC RATING SYSTEM 3.0 2009
UNIFIED FACILITIES CRITERIA (UFC)
ASHRAE 90.1-2004 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS

DEMOLITION NOTES

1. THESE NOTES APPLY TO ALL MECHANICAL DEMOLITION DRAWINGS.
2. ALL EQUIPMENT AND MATERIALS WHICH ARE INDICATED TO BE REMOVED AND NOT RELOCATED, REUSED OR SALVAGED SHALL BE REMOVED FROM THE WORK SITE, HAULED FROM THE PREMISES AND DISPOSED OF IN A LEGAL MANNER.
3. ALL EQUIPMENT AND MATERIALS WHICH ARE INDICATED TO BE RELOCATED OR REUSED SHALL BE PROTECTED BY THE CONTRACTOR DURING AND AFTER THE REMOVAL. ANY EXISTING WORK TO BE RELOCATED WHICH IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
4. PROTECT ALL EXISTING WORK WHICH IS TO REMAIN IN PLACE. ANY EXISTING WORK TO REMAIN WHICH IS DAMAGED DURING DEMOLITION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING. CUT EXISTING WORK WHERE INDICATED FOR REMOVALS AND REPAIR ALL OPENINGS, CRACKS AND DEPRESSIONS IN FLOORS, CEILINGS AND WALLS REMAINING AFTER REMOVALS, MATCHING ADJACENT WORK.
6. DUE TO CONCEALMENT, THE EXTENT OF THE EXISTING DUCTWORK AND PIPING SYSTEMS MAY NOT BE FULLY SHOWN OR MAY DIFFER FROM THAT SHOWN. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EQUIPMENT, DUCTWORK, PIPING, ETC., AS PART OF SYSTEMS INDICATED TO BE REMOVED.
7. PRIOR TO REMOVAL OF EQUIPMENT, PIPING AND DUCTWORK, CONTRACTOR SHALL VERIFY THAT SYSTEMS ARE NO LONGER IN SERVICE TO ANY AREAS OUTSIDE THE WORK AREA OF THIS CONTRACT.
8. ALL EQUIPMENT, DUCTWORK, AND PIPING SYSTEMS INDICATED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY. REMOVE ALL VALVES, HANGERS, INSULATION, ETC. ASSOCIATED WITH DEMOLISHED PIPING SYSTEMS. REMOVE ALL HANGERS, INSULATION AND ACCESSORIES ASSOCIATED WITH DEMOLISHED HVAC SYSTEMS.

GENERAL NOTES

1. THE RENOVATED SPACES SHALL BE SERVED BY NEW AND EXISTING HVAC EQUIPMENT AND PLUMBING SERVICES AS INDICATED ON PLANS. ALL REVISIONS TO EXISTING SUPPLY, RETURN AND EXHAUST DUCTWORK ARE SHOWN ON THE CONTRACT DRAWINGS.
2. COORDINATE ALL NEW WORK WITH WALL AND CEILING CONSTRUCTION.
3. ALL DUCT DIMENSIONS INDICATED ARE INSIDE (AIR-PATH) DIMENSIONS.
4. ALL PIPING DIAMETERS INDICATED ARE NOMINAL DIAMETERS.
5. INSTALL DUCTWORK SUCH THAT ALL DAMPERS ARE EASILY ACCESSIBLE.
6. USE ONLY PLENUM-RATED MATERIALS ABOVE THE CEILING.
7. EXISTING DUCTWORK AND PIPING SIZES SHOWN ARE APPROXIMATE. FIELD VERIFY ALL SIZES PRIOR TO FABRICATION OF NEW WORK.
8. UPON COMPLETION OF NEW WORK, CONTRACTOR SHALL VERIFY PROPER OPERATION OF EXISTING HVAC EQUIPMENT AND PLUMBING AND PIPING SERVICES.
9. CONTRACTOR IS REQUIRED TO MEET OR EXCEED THE "GUIDELINES FOR OCCUPIED BUILDING DURING CONSTRUCTION", 1995, CHAPTER 3 OF SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION).
10. HVAC PROTECTION: PROTECT ALL NEW AND EXISTING HVAC EQUIPMENT BEFORE AND AFTER INSTALLATION, INCLUDING DUCTWORK, VAV TERMINALS, ZONE DAMPERS AND DIFFUSERS, FROM DUST AND CONTAMINATION. IF THE HVAC SYSTEM IS USED DURING FIT-OUT CONSTRUCTION, THE PRESCRIPTIVE MEASURES IN SMACNA (CHAPTER 3) SHALL BE FOLLOWED REGARDING SOURCE CONTROL, PATHWAY INTERRUPTION, HOUSEKEEPING AND CLEANUP. CONTRACTOR IS RESPONSIBLE FOR CLEANUP COST FOR EQUIPMENT AND DUCTWORK CONTAMINATED WITH CONSTRUCTION DUST INCLUDING VACUUM CLEANING THE PLENUM SPACE ABOVE THE CEILING. FOLLOWING ARE PROCEDURES TO PROTECT THE DUCTWORK:
    - SEAL ALL DUCT OPENINGS, BOTH SUPPLY AND RETURN, AND WRAP ALL EQUIPMENT WITH PLASTIC.
    - PLACE FILTER MEDIA (NO LESS THAN MERV 8 RATED FILTERS) AT ALL OPENINGS FOR RETURN AIR INCLUDING RETURN GRILLES IN THE CEILING OR NEGATIVE PRESSURE SIDE OF THE SYSTEM. REGULARLY REPLACE THE FILTER MEDIA, NO LESS THAN ONCE PER WEEK, FOR THE DURATION OF CONSTRUCTION.
    - INSTITUTE DAILY CLEANING ACTIVITIES, SUCH AS USING WETTING AGENTS TO MINIMIZE AIRBORNE DUSTS. VACUUM CLEAN WITH HEPA FILTERS FOR FINAL CLEANING.
11. PROVIDE ALL PIPING LEAK TESTING AND INSULATION AS PER SPECIFICATIONS.
12. PROVIDE MECHANICAL IDENTIFICATION FOR EQUIPMENT, PIPING AND DUCTWORK AS PER SPECIFICATIONS.

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
A.	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BFP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
CA	COMBUSTION AIR
CD	CONDENSATE DRAIN
CF	COMBUSTION FLUE
CFM	CUBIC FEET PER MINUTE
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CLG.	CEILING
CISPI	CAST IRON SOIL PIPE INSTITUTE
CR	CONDENSATE RETURN
CRU	CONDENSATE RETURN UNIT
CU	CONDENSING UNIT; CUBIC
CW	COLD WATER
D.B.	DRY BULB
DESIG.	DESIGNATION
DIA.	DIAMETER
DN	DOWN
DWH	DOMESTIC WATER HEATER
EA	EXHAUST AIR
E.A.T.	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
E.	ELEVATION
EWH	ELECTRIC WATER HEATER
EX.	EXISTING TO REMAIN
EXT.	EXTERIOR; EXTERNAL
F	FAN
°F	DEGREES FAHRENHEIT
FHV	FIRE HOSE VALVE
FT	FOOT (FEET)
FW	FILTERED WATER
G	NATURAL GAS
GA.	GAUGE
GAL	GALLON(S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HEIGHT
H/V	HORIZONTAL/VERTICAL
HP	HORSEPOWER
HPS	HIGH PRESSURE STEAM
HR	HOUR
HW	HOT WATER
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
ICC	INTERNATIONAL CODE COUNCIL
IN.	INCH(ES)
INT.	INTERIOR
KW	KILOWATT(S)
LB(S)	POUND(S)
LPR	LOW PRESSURE STEAM CONDENSATE RETURN
LPS	LOW PRESSURE STEAM SUPPLY
MAX	MAXIMUM
MBH	1000 BTUH
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
MPS	MEDIUM PRESSURE STEAM
(N)	NEW
N.C.	NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION AGENCY
NG	NATURAL GAS
NO.	NUMBER
OA	OUTDOOR AIR
O.C.	ON CENTER
OED	OPEN END DUCT
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
PD	PUMPED DISCHARGE
PPM	PARTS PER MILLION
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RAD	RETURN AIR DUCT
REL.	RELOCATE EXISTING
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RX.	REMOVE EXISTING
S	SENSOR/STEAM
SA	SUPPLY AIR
SAD	SUPPLY AIR DUCT
SAN	SANITARY
SF	SQUARE FEET
SMACNA	SHEET METAL AND AIR-CONDITIONING CONTRACTORS' ASSOCIATION
S.P.	STATIC PRESSURE
SQ.	SQUARE
SRV	STEAM RELIEF VENT
T	THERMOSTAT
TAB	TESTING AND BALANCING
TAD	TRANSFER AIR DUCT
TMV	THERMOSTATIC MIXING VALVE
TYP.	TYPICAL
V	VENT; VOLT(S)
VAV	VARIABLE AIR VOLUME
VTR	VENT THROUGH ROOF
W	WATT(S); WIDTH
W/	WITH
W.B.	WET BULB
W.C.	WATER COLUMN
WH	WATER HEATER

LEGEND

	CONNECT NEW TO EXISTING
	EXTENT OF DEMOLITION; PATCH EXISTING MAIN TO MATCH EXISTING WHERE OPENING IS NOT REUSED
	DRAWING NOTE
	DUCTWORK DROP
	DUCTWORK RISE
	DUCT TRANSITION
	EXISTING WORK TO REMAIN
	NEW WORK
	WORK TO BE DEMOLISHED
	HIDDEN WORK
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RETURN PIPING
CD	CONDENSATE DRAIN PIPING
G	NATURAL GAS PIPING
	FLOW DIRECTION
	TEE TURNED DOWN
	TEE TURNED UP
	ELBOW TURNED DOWN
	ELBOW TURNED UP
	PIPE CAP
	CONTINUATION SYMBOL
	CONCENTRIC REDUCER
	SHUT-OFF VALVE
	CHECK VALVE
	BALANCING VALVE
	PRESSURE REDUCING VALVE
	GAS COCK
	3-WAY CONTROL VALVE
	AIRFLOW DIRECTION
	THERMOSTAT
	CARBON MONOXIDE SENSOR
	WATER METER
¢	CUBIC FEET PER MINUTE
℄	CENTERLINE
±	PLUS OR MINUS
ø	DIAMETER, PHASE

HVAC REQUIREMENTS

INDOOR AIR QUALITY AND VENTILATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH ASHRAE STANDARD 62.1-2004 WITH THE FOLLOWING MINIMUM VENTILATION RATES MAINTAINED DURING HEATING AND COOLING:

OUTSIDE DESIGN CONDITIONS: FROM THE 2005 ASHRAE HANDBOOK OF FUNDAMENTALS FOR BALTIMORE, MARYLAND ARE AS FOLLOWS:
HEATING: 12°F DB
COOLING: 91°F DB & 77°F WB
DEHUMIDIFICATION: 74°F DEWPOINT, 128 GRAINS OF MOISTURE PER POUND OF DRY AIR.

DB = DRY-BULB TEMPERATURE
WB = WET-BULB TEMPERATURE
7000 GRAINS OF MOISTURE = 1 POUND OF WATER (58,310 GRAINS = 1 GALLON)

INSIDE DESIGN CONDITIONS:
a. GENERAL:
HEATING: *70°F DB
SUMMER: **75°F DB & 50% RH

b. ROOMS AND DAYROOMS:
HEATING: *68°F DB
COOLING: **78°F DB

* HUMIDIFICATION EQUIPMENT WILL NOT BE PROVIDED AND THEREFORE HUMIDITY WILL NOT BE CONTROLLED DURING THE HEATING SEASON.
** SYSTEMS WILL BE DESIGNED TO MAINTAIN 50% RH AT DESIGN CONDITIONS. CONTROL SYSTEMS WILL BE SET TO MAINTAIN RH BELOW 60%.

RH = RELATIVE HUMIDITY

VENTILATION REQUIREMENTS

1. PREFERRED FAN DESIGN IS SINGLE INLET, SINGLE WIDTH CENTRIFUGAL TYPE WITH BACKWARDLY INCLINED AIRFOILED BLADES. HOWEVER, UTILIZATION OF AIRFOILS, PROPELLERS, AND DUCT AXIAL FANS ARE ENCOURAGED WHERE APPROPRIATE.
2. FAN VOLUME CONTROL (VFD) SHALL BE PROVIDED WHEN THE SYSTEM HAS FEATURES TO CAUSE A VARIANCE IN VOLUME.
3. PROVIDE RIGID STRUCTURAL STEEL BASE FOR BOTH FAN AND MOTOR WITH SLIDE RAILS FOR DRIVE ADJUSTMENT. HINGED MOTOR BASES ARE ACCEPTABLE.
4. FILTERS SHALL HAVE 85% EFFICIENCY (DUST SPOT METHOD USING ATMOSPHERIC DUST) AT 500 FEET PER MINUTE FACE VELOCITY.
5. FOLLOW ASHRAE VENTILATION REQUIREMENTS AND MERV RATINGS ON FILTERS AS REQUIRED BY LEED AND THE INDOOR AIR QUALITY MANAGEMENT PLAN DURING CONSTRUCTION AND BEFORE OCCUPANCY.

SYSTEMS INTEGRATION REQUIREMENTS

MECHANICAL SYSTEMS SHALL FUNCTION SEAMLESSLY TO DELIVER THE PERFORMANCE LEVELS NEEDED TO MAINTAIN SPACE COMFORT WITHIN SPECIFICATIONS SET FORTH BY ASHRAE STANDARD 55-2007. THE HVAC SYSTEM WILL BE CAPABLE OF PROVIDING OUTSIDE AIR VOLUME THAT EXCEED ASHRAE STANDARD 62.1-2007 AND MAINTAIN ADEQUATE LEVELS OF BUILDING PRESSURIZATION.

1. PROVIDE HUMIDITY LEVELS MONITORING IN THE SPACE TO BE MAINTAINED LESS THAN 60% RELATIVE HUMIDITY AND SHOULD NEVER BE ALLOWED TO REACH A LEVEL THAT WOULD ALLOW CONDENSATE TO FORM ON HVACEQUIPMENT OR OTHER BUILDING ELEMENTS.
2. THE HVAC SYSTEM SHALL BE CAPABLE OF REMOTE ACCESS/ALARM NOTIFICATION VIA LCD SCREENS IN THEMAINTENANCE AND MECHANICAL ROOMS.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

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LICENSE NO. 43481
EXPIRATION DATE: 05/15/2015
STATE OF MARYLAND · STEVEN M. LEWICKI · 43481 · PROFESSIONAL ENGINEER

KEY PLAN

SCALE

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

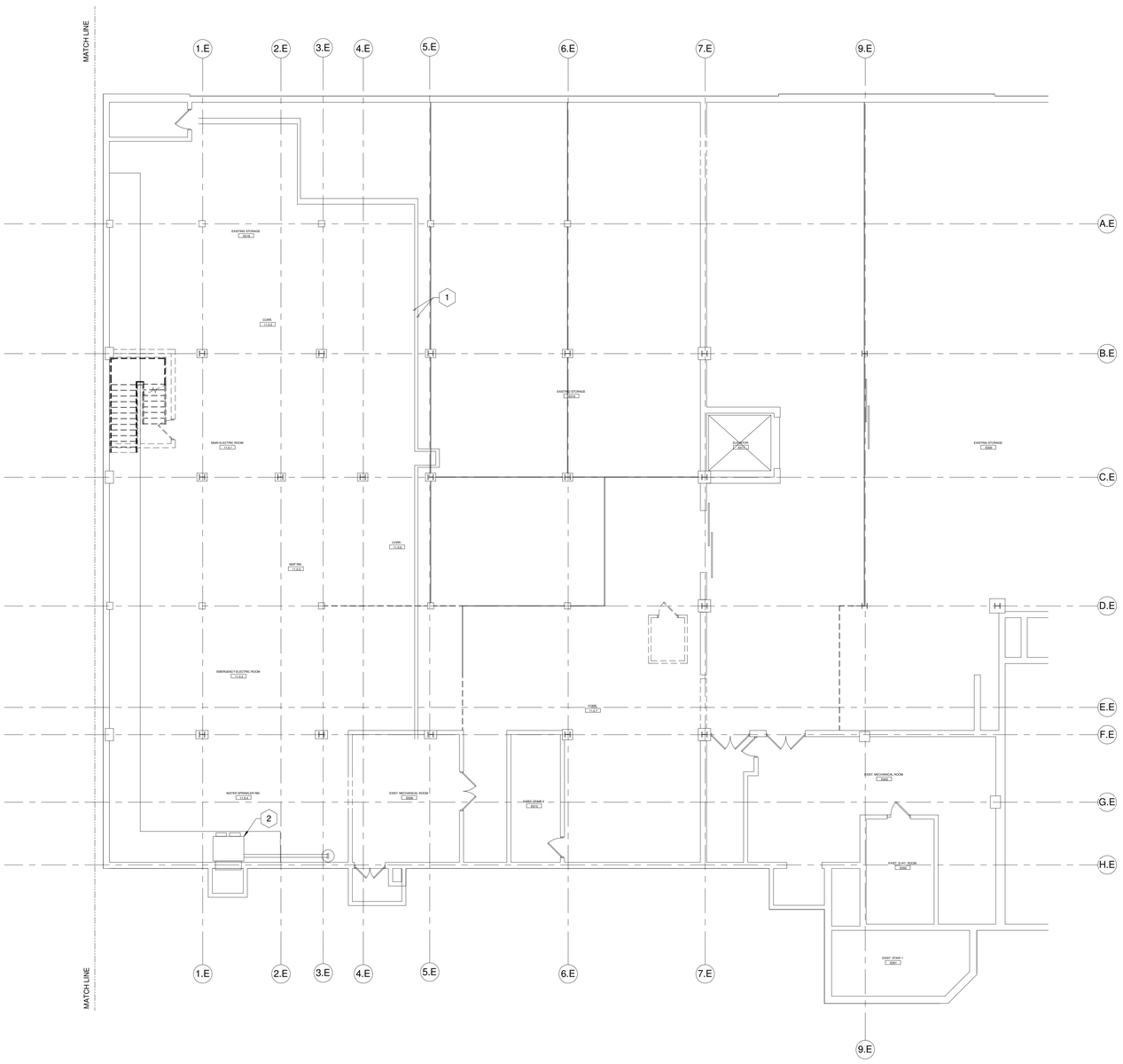
TITLE

NOTES, SYMBOLS AND ABBREVIATIONS

PSA-DEWBERRY PROJECT NO. Project Number
DPSCS CONTRACT NO. KT-000-150-C01

MO001

SHEET NO.



N

1 BASEMENT FLOOR PLAN - DEMOLITION - HVAC

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

DEMOLITION GENERAL NOTES:

1. GENERAL:
   A. CONTRACTOR SHALL THOROUGHLY EXAMINE PREMISES AND OBSERVE ALL CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED. NO ALLOWANCES WILL BE MADE FOR ERRORS OR NEGLIGENCE IN THIS RESPECT.
   B. COORDINATE ALL WORK WITH OWNER'S OPERATION SCHEDULE IN ORDER NOT TO DISRUPT OR DELAY SUCH OPERATIONS. WORK SHALL BE COORDINATED AND SCHEDULED IN ADVANCE AND APPROVED BY CONSTRUCTION MANAGER AND OWNER. PERFORM ALL WORK ONLY AFTER SECURING APPROVAL FROM THE CONSTRUCTION MANAGER TO COMMENCE. NOTIFY THE CONSTRUCTION MANAGER IN ADVANCE BEFORE DISRUPTING ANY EXISTING EQUIPMENT, BUILDING SERVICES OR UTILITIES.
   C. ALL AREAS ADJACENT TO THE CONSTRUCTION SITE WILL REMAIN OCCUPIED. CONTRACTOR SHALL MAINTAIN ALL SERVICES (AIR SYSTEMS, SERVICE PIPING, ETC.) TO THESE AREAS AS INDICATED, AS REQUIRED AND AS DIRECTED BY THE CONSTRUCTION MANAGER IN THE FIELD.
   D. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. DO NOT SCALE THE DRAWINGS. SCHEDULE OF WORK:
   E. PHASE WORK AS DIRECTED BY CONSTRUCTION MANAGER DURING PRE-BID MEETING. SCHEDULE AND ACCOMPLISH ALL WORK IN SUCH A MANNER AS TO CAUSE THE LEAST IMPACT ON OWNER'S OPERATIONS.
   F. SCHEDULE AND ARRANGE WORK TO MINIMIZE THE NUMBER AND DURATION OF OUTAGES FOR INDIVIDUAL SYSTEMS OR SERVICES.
   G. UTILIZE TEMPORARY PIPE AND DUCT SERVICES WHERE REQUIRED TO ACCOMMODATE PHASING AND TO MINIMIZE OUTAGES. INCLUDE ALL TEMPORARY WORK IN BID.
   H. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH OWNER'S CONSTRUCTION SCHEDULES AND PHASING REQUIREMENTS AND SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT AND WORK SUCH HOURS (INCLUDING EXTRA SHIFTS) AS MAY BE NECESSARY TO ENSURE COMPLETION OF WORK IN ACCORDANCE WITH OWNER'S REQUIREMENTS.

3. PROTECTION OF EXISTING WORK:
   A. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF EXISTING WORK. CORRECT ALL DAMAGE TO EXISTING WORK TO THE SATISFACTION OF THE OWNER AND AT NO COST.

4. INTERRUPTION OF EXISTING UTILITIES:
   A. NOTIFY THE CONSTRUCTION MANAGER IN ADVANCE OF ANY REQUIRED SHUTDOWN OF THE HVAC SYSTEMS, ELECTRICAL SERVICE OR OTHER SYSTEM OR SERVICE UTILITY. UPON RECEIPT OF APPROVAL FROM THE CONSTRUCTION MANAGER, SHUTDOWNS SHALL BE PERFORMED ON PREMIUM TIME UNLESS OTHERWISE DIRECTED IN THE FIELD, AND ALL COSTS SHALL BE INCLUDED IN THE BASE BID.

5. ALTERATIONS AND REMOVAL:
   A. SCHEDULE AND PERFORM DEMOLITION WORK AS REQUIRED TO KEEP EXISTING BUILDING SERVICES AND SYSTEMS IN OPERATION AND TO MINIMIZE DISRUPTION TO OCCUPANTS. WHEN SHUTDOWN OF SYSTEM OR SERVICE IS REQUIRED PERFORM AS HEREIN SPECIFIED UNDER "INTERRUPTION OF UTILITIES."
   B. REMOVE WORK BY HAND AS FAR AS POSSIBLE. POWER DRIVEN EQUIPMENT, WHEN REQUIRED, SHALL BE USED SUBJECT TO THE APPROVAL OF THE OWNER.
   C. CAP, SEAL, OR PLUG ALL ABANDONED WORK. REMOVE TO THE EXTENT REQUIRED TO ALLOW CONCEALMENT BEHIND NEW FINISH MATERIALS.
   D. WHERE EQUIPMENT OR FIXTURES ARE INDICATED TO BE REMOVED, REMOVE ALL RELATED SUPPORTS, HANGERS, PIPING, WIRING, DUCTS, CONTROLS, INSULATION, ETC., UNLESS NOTED OTHERWISE.
   E. EXISTING EQUIPMENT, PIPING, CONDUIT, WIRING AND DUCTWORK, ETC., AFFECTED BY REMOVAL OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED. ALL WORK SHALL BE COMPLETED TO THE OWNER'S SATISFACTION.
   F. EXISTING CONDITIONS INDICATED (I.E., DUCTWORK, PIPING, EQUIPMENT, ETC.), WERE OBTAINED FROM AVAILABLE RECORD DRAWINGS AND LIMITED FIELD SURVEY AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL DUCTWORK, PIPING, ETC., IN THE FIELD PRIOR TO STARTING ANY WORK.
   G. DELIVER TO OWNER AT LOCATION DESIGNATED BY HIM ALL MATERIALS AND EQUIPMENT DESIGNATED OR DIRECTED BY OWNER TO BE SALVAGED. ALL OTHER MATERIALS OR EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE.

DEMOLITION SHEET NOTES:

1. REMOVE EXISTING HEATING SUPPLY AND RETURN WATER TO HVAC IN BASEMENT.
2. REMOVE EXISTING AIR HANDLING UNIT AND ASSOCIATED THERMOSTAT AND WIRING. REMOVE ALL ASSOCIATED REHEAT PIPING.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

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LICENSE NO. 43481

EXPIRATION DATE: 05/15/2015

STATE OF MARYLAND — JOSEPH T. CHEI — 43481 — PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

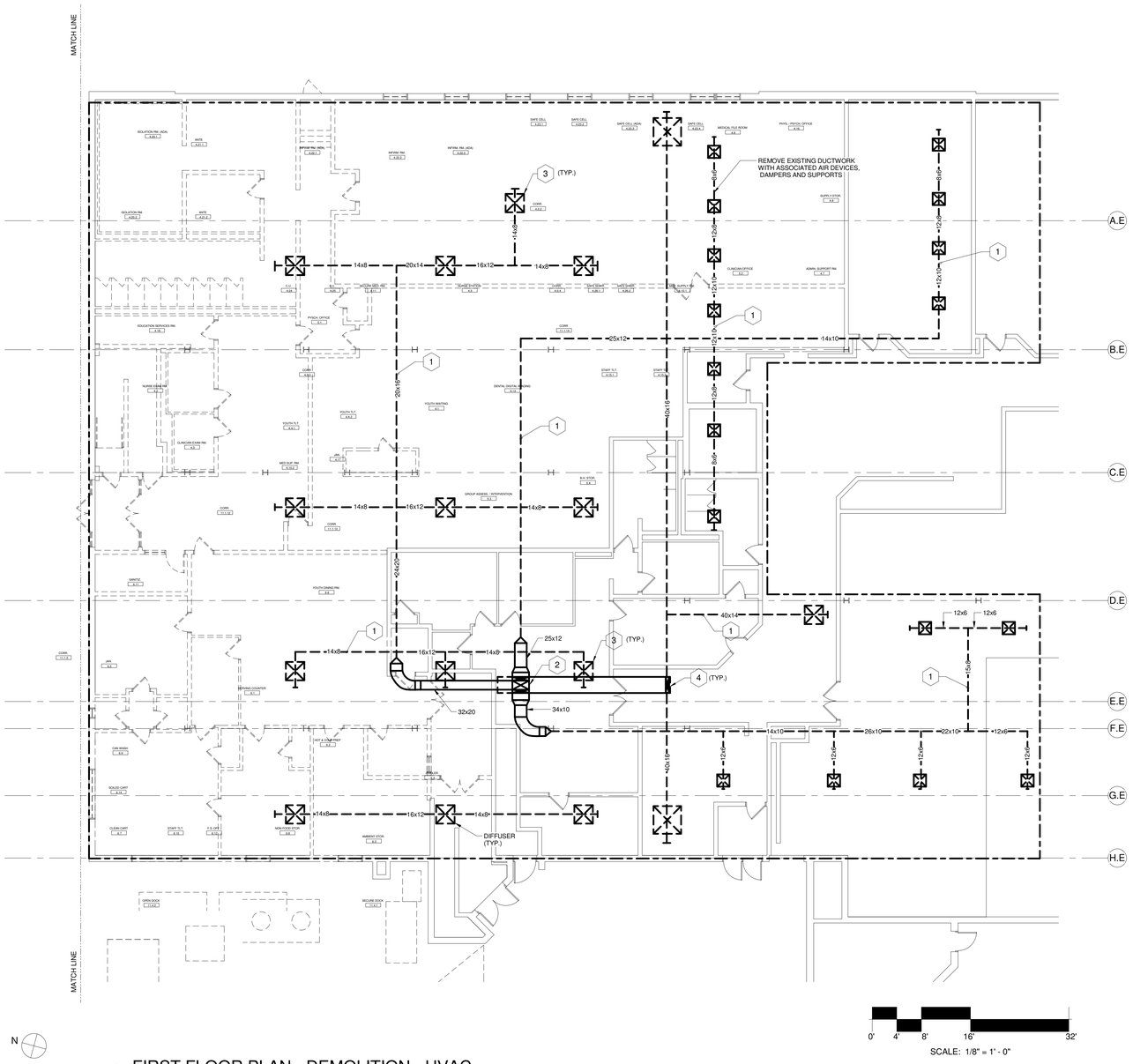
TITLE

BASEMENT FLOOR PLAN - DEMOLITION - HVAC

PSA-DEWBERRY PROJECT NO.	Project Number
DPSCS CONTRACT NO.	KT-000-150-C01

MD100

SHEET NO.



1 FIRST FLOOR PLAN - DEMOLITION - HVAC
Scale: 1/8" = 1'-0"

DEMOLITION GENERAL NOTES:

1. GENERAL:

   SEE GENERAL NOTES ON SHEET MD100.

DEMOLITION SHEET NOTES:

1. REMOVE EXISTING SA DUCTWORK AS INDICATED.
2. REMOVE EXISTING AIR HANDLING UNIT AND ASSOCIATED THERMOSTAT AND WIRING. REMOVE ALL ASSOCIATED REHEAT PIPING.
3. REMOVE EXISTING SUPPLY AIR DIFFUSER.
4. REMOVE EXISTING RETURN AIR REGISTER.

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SCALE

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No.	Description	Date
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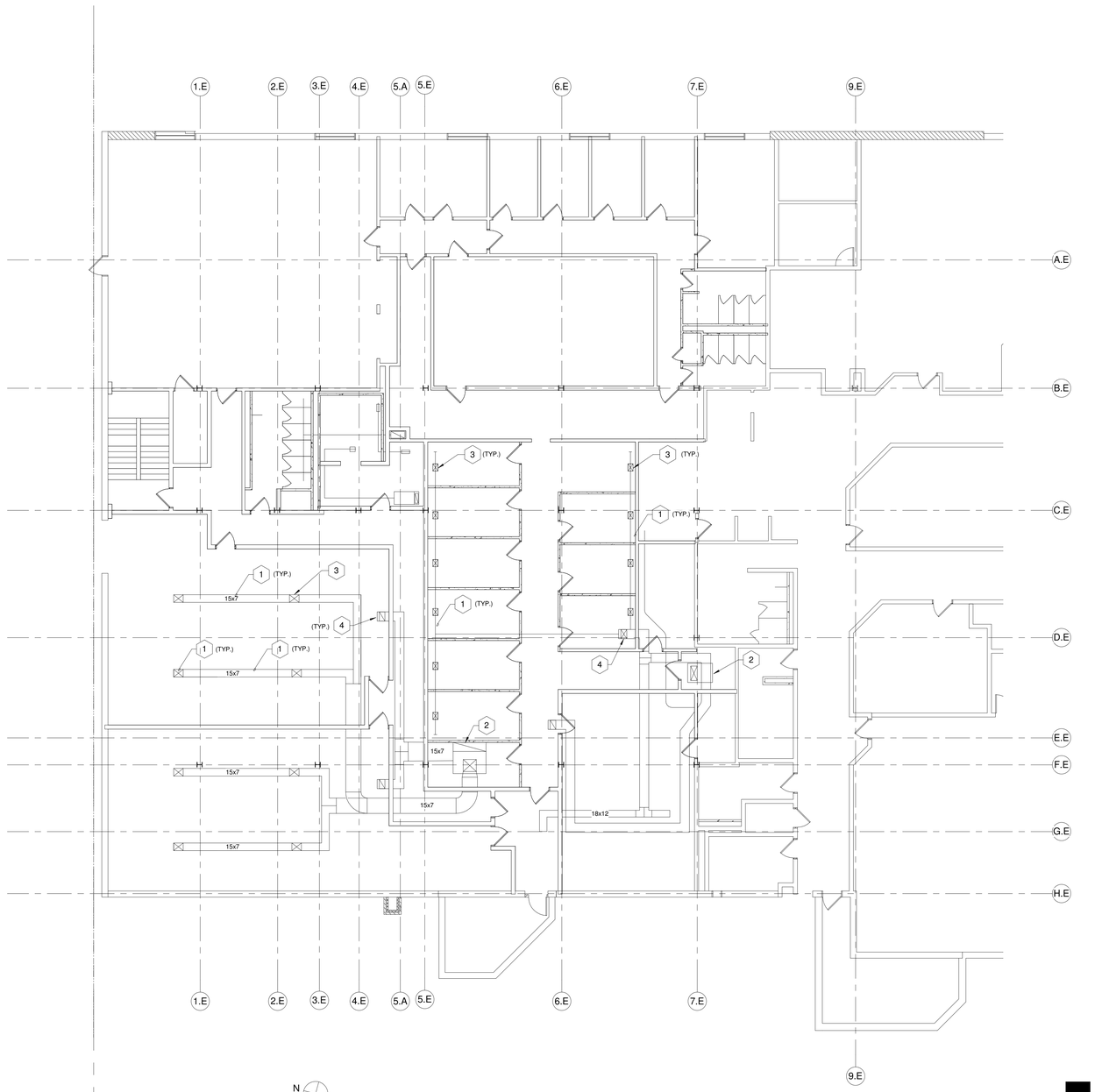
FIRST FLOOR PLAN - DEMOLITION - HVAC

PSA-DEWBERRY PROJECT NO.	Project Number
DPSCS CONTRACT NO.	KT-000-150-C01

MD110

SHEET NO.



N

1 SECOND LEVEL PLAN - DEMOLITION - HVAC
Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'
SCALE: 1/8" = 1' - 0"

DEMOLITION GENERAL NOTES:

1. GENERAL:

   SEE GENERAL NOTES ON SHEET MD100.

DEMOLITION SHEET NOTES:

1. REMOVE EXISTING SA DUCTWORK AS INDICATED.
2. REMOVE EXISTING AIR HANDLING UNIT AND ASSOCIATED THERMOSTAT AND WIRING. REMOVE ALL ASSOCIATED REHEAT PIPING.
3. REMOVE EXISTING SUPPLY AIR DIFFUSER.
4. REMOVE EXISTING RETURN AIR REGISTER.

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KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

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DATE	26 February 2015

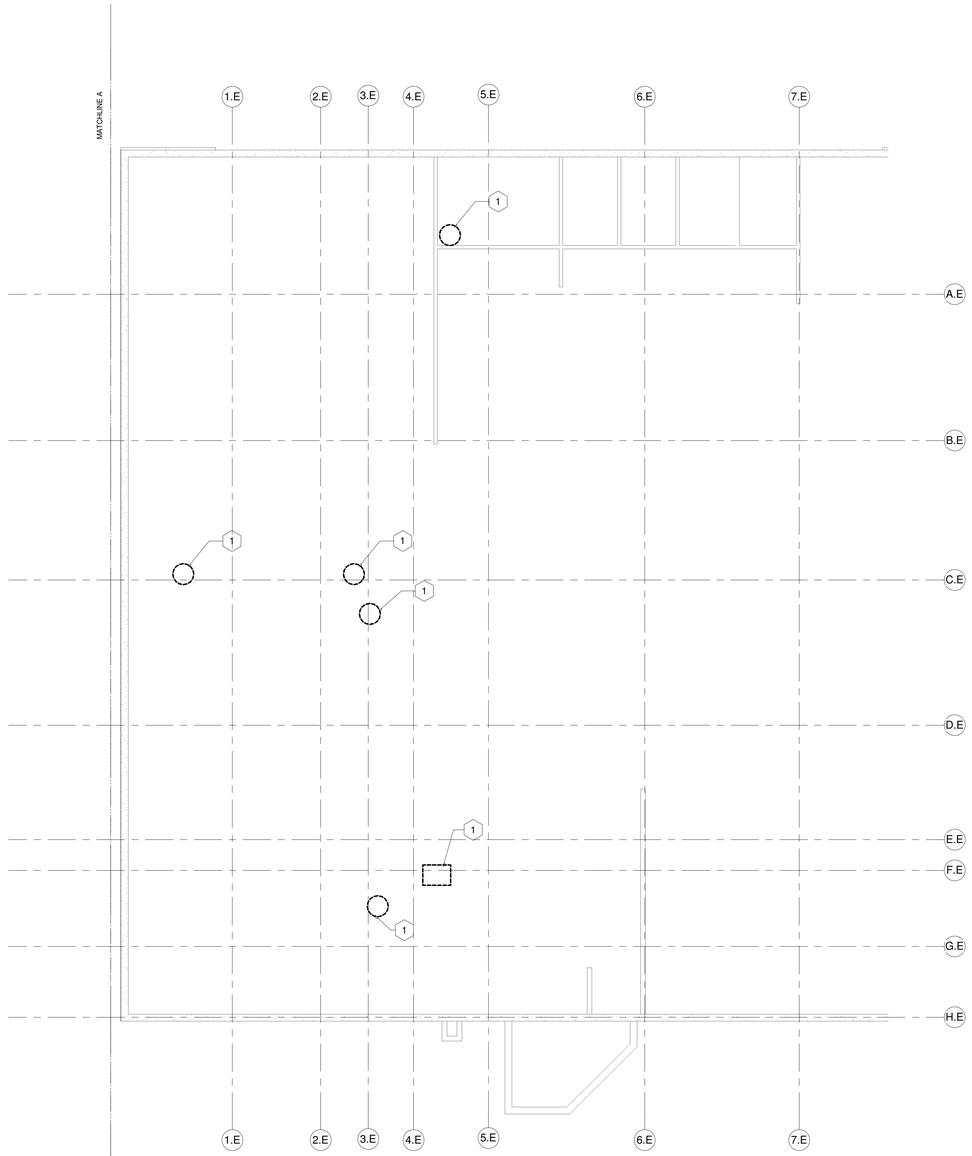
TITLE

SECOND FLOOR PLAN - DEMOLITION - HVAC

PSA-DEWBERRY PROJECT NO. Project Number
DPSCS CONTRACT NO. KT-000-150-C01

MD120

SHEET NO.



SHEET NOTES:

1. REMOVE EXISTING EXHAUST FAN WITH ROOF CURB AND ASSOCIATED ACCESSRIES. CLOSE REMAINING ROOF OPENING WITH 16 GAGE GALVANIZED STEEL SHEET TILL THE OPENING IS CLOSED PERMANENTLY UNDER ARCHITECTURAL WORK (TYP.)

N

1 ROOF PLAN - DEMOLITION - HVAC

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

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KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
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TITLE

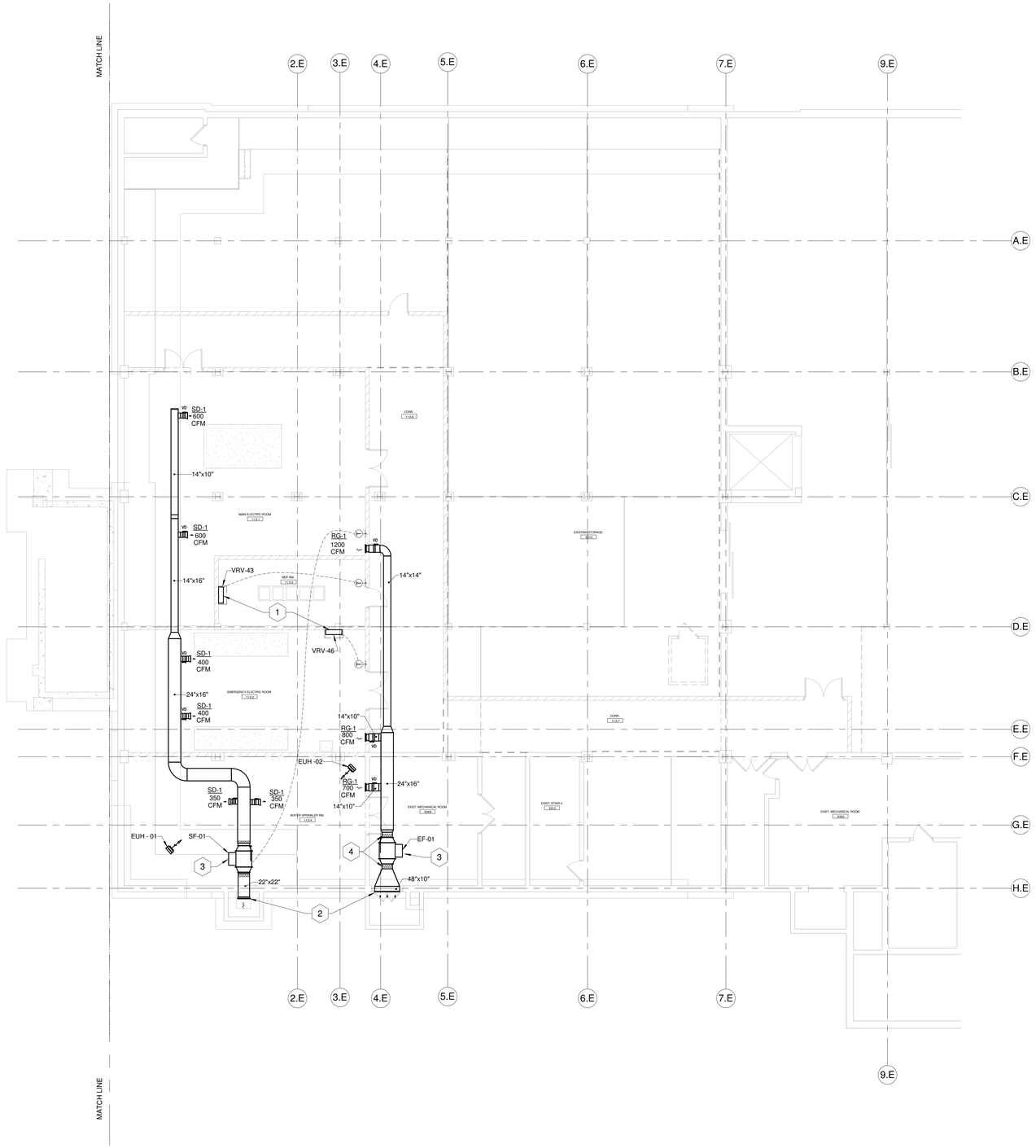
ROOF PLAN - DEMOLITION - HVAC

PSA-DEWBERRY PROJECT NO. Project Number

DPSCS CONTRACT NO. KT-000-150-C01

MD140

SHEET NO.



N 1 BASEMENT FLOOR PLAN - HVAC MECHANICAL
Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'
SCALE: 1/8" = 1' - 0"

GENERAL SHEET NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL REPORT DISCREPANCIES, IF ANY, TO THE ENGINEER FOR CLARIFICATION PRIOR TO STARTING ANY WORK.
2. EXACT LOCATION OF ALL EQUIPMENT AND ACCESSORIES SHALL BE VERIFIED IN THE FIELD
3. ALL MATERIALS SHALL BE AS PER THE DRAWINGS AND SPECIFICATIONS AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO ITS INSTALLATION.

SHEET NOTES:

1. PROVIDE UNIT WITH A MINIMUM OF A 3/4" DRAIN COPPER LINE. DRAIN CONDENSATE TO FLOOR DRAIN WITH DRAIN LINE TERMINATING A MINIMUM OF ONE INCH OF FLOOR DRAIN. SPLIT SYSTEM UNIT SHALL BE INSTALL A MINIMUM OF 60" ABOVE FINISH FLOOR.
2. PROVIDE INTAKE/EXHAUST LOUVER, INSECT SCREEN AND BARRIER GRILLE AT PERIMETER WALL OPENING. BARRIER GRILLE SHALL BE TITUS SG-BG-FM OR APPROVED EQUAL. FEILD VERIFY WALL PENTRATION SIZE TO INSURE SURCURE FIT IN WALL OPENING.
3. EXHAUST FAN EF-1 AND SUPPLY FAN SF-1 SHALL BE ELECTRONICALLY INTERLOCKED FOR THEIR ON AND OFF OPERATION.
4. PROVIDE FLEXIBLE CONNECTION BETWEEN UNIT AND DUCTWORK AS SHOWN. UNITS ARE CEILING HUNG, SEE INLINE FAN DETAIL FOR ADDITIONAL HANGING INFORMATION.

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STATE OF MARYLAND · STEVEN W. SIDHU · 43481 · PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

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DATE	26 February 2015

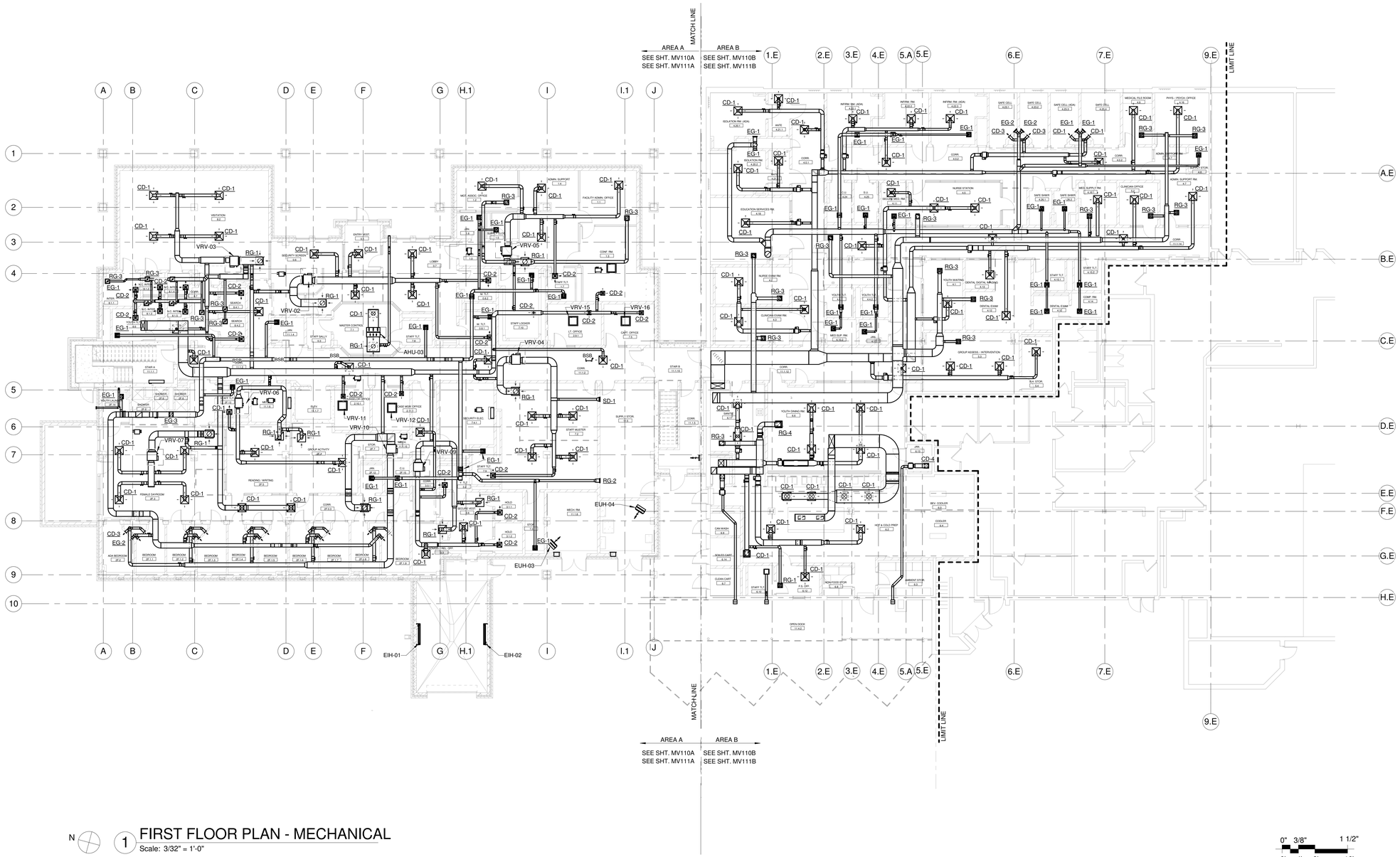
TITLE

BASEMENT FLOOR PLAN - HVAC MECHANICAL

PSA-DEWBERRY PROJECT NO. Project Number
DPSCS CONTRACT NO. KT-000-150-C01

MO100

SHEET NO.



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1 FIRST FLOOR PLAN - MECHANICAL

Scale: 3/32" = 1'-0"

0" 3/8" 1 1/2"
0' 4' 8' 16'
SCALE: 3/32" = 1' - 0"

GENERAL SHEET NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL REPORT DISCREPANCIES, IF ANY, TO THE ENGINEER FOR CLARIFICATION PRIOR TO STARTING ANY WORK.
2. EXACT LOCATION OF ALL EQUIPMENT AND ACCESSORIES SHALL BE VERIFIED IN THE FIELD
3. ALL MATERIALS SHALL BE AS PER THE DRAWINGS AND SPECIFICATIONS AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO ITS INSTALLATION.

SHEET NOTES:

1

A JOINT-VENTURE BETWEEN
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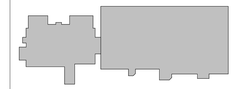
STATE OF MARYLAND · CHESTER W. CHEN · 43481 · PROFESSIONAL ENGINEER

KEY PLAN



SCALE

3/32" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

TITLE

FIRST FLOOR PLAN - MECHANICAL

PSA-DEWBERRY PROJECT NO. Project Number
DPSCS CONTRACT NO. KT-000-150-C01

MO110

SHEET NO.

GENERAL SHEET NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL REPORT DISCREPANCIES, IF ANY, TO THE ENGINEER FOR CLARIFICATION PRIOR TO STARTING ANY WORK.
2. ALL MATERIALS SHALL BE AS PER THE DRAWINGS AND SPECIFICATIONS AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO ITS INSTALLATION.
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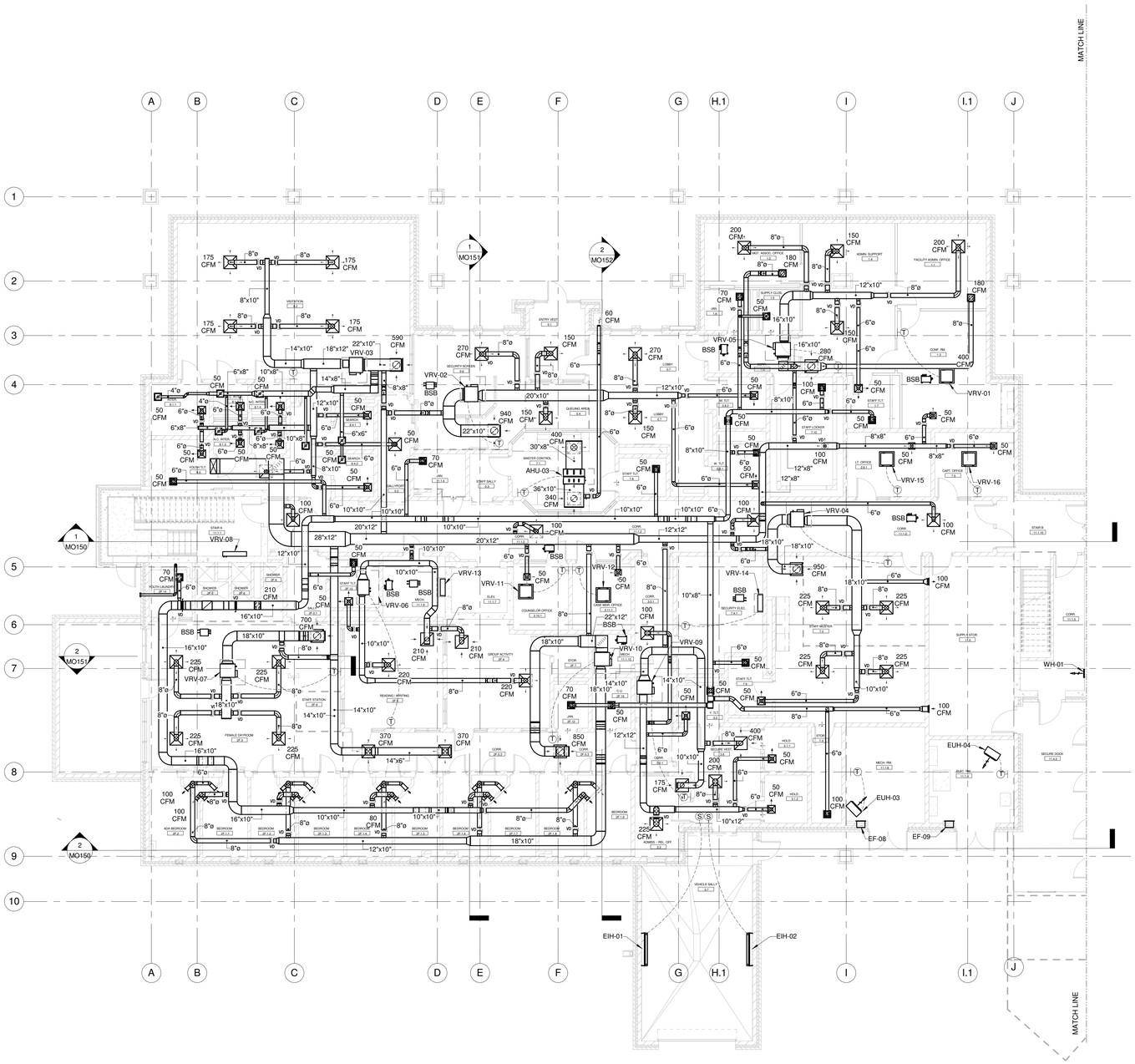
5. BARRIER GRILLES TO BE INSTALLED IN INSTITUTIONAL PERIMETERS WHERE MAXIMUM SECURITY GRILLES AND DIFFUSERS ARE NOT SCHEDULED.



N

1 FIRST FLOOR PLAN - HVAC DUCTWORK - AREA A

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
EXECUTIVE PLAZA III, SUITE 1000
11350 MCCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1115

TERRALOGOS ECO ARCHITECTURE, PC

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"

LICENSE NO. 43481

EXPIRATION DATE: 05/15/2015

STATE OF MARYLAND — GUSTAV W. OTTO — 43481 — PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

TITLE

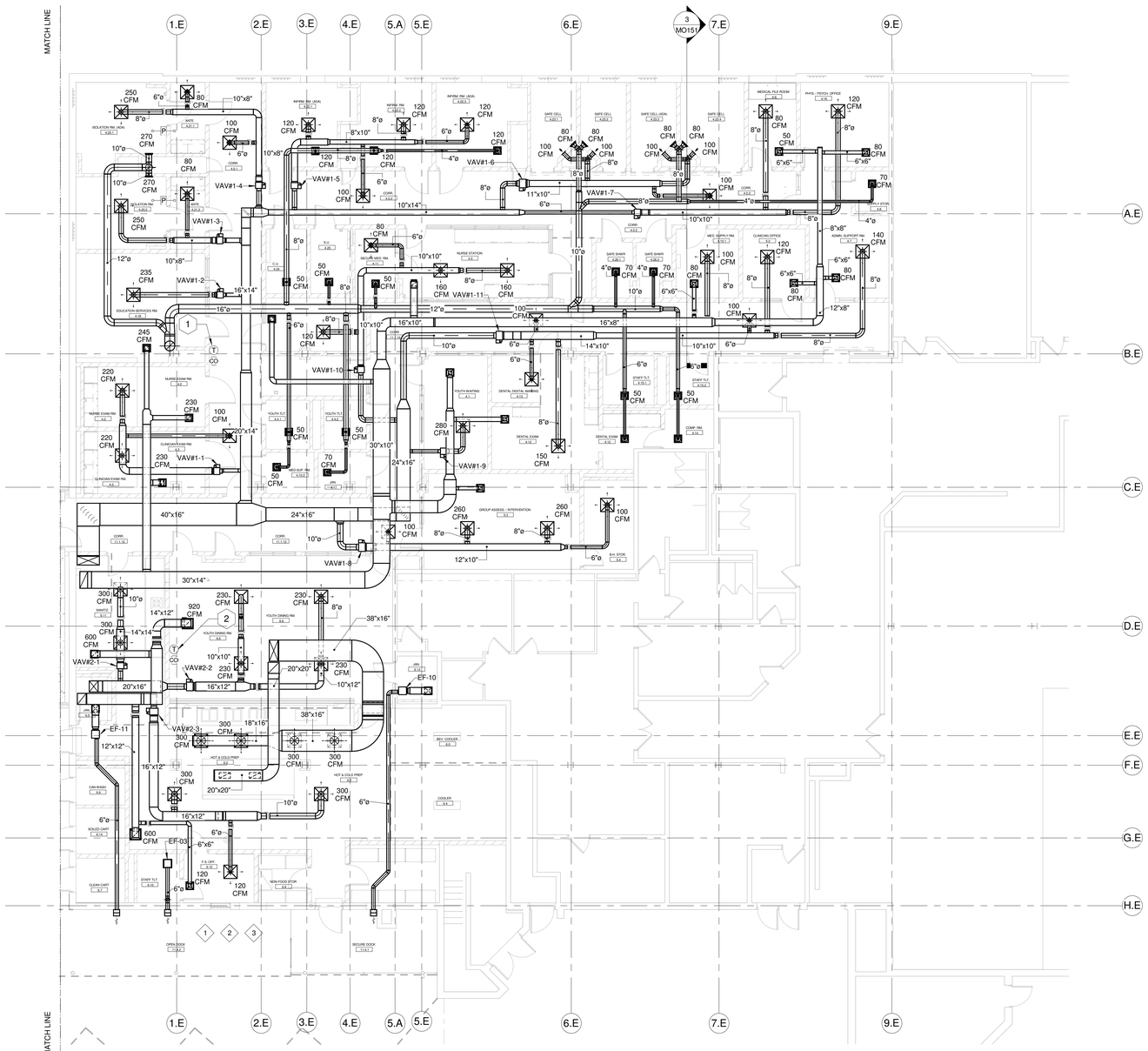
FIRST FLOOR PLAN - HVAC DUCTWORK - AREA A

PSA-DEWBERRY PROJECT NO. Project Number

DPSCS CONTRACT NO. KT-000-150-C01

MV110A

SHEET NO.



N

1 FIRST FLOOR PLAN - HVAC DUCTWORK - AREA B

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

GENERAL SHEET NOTES:

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5. BARRIER GRILLES TO BE INSTALLED IN INSTITUTIONAL PERIMETERS WHERE MAXIMUM SECURITY GRILLES AND DIFFUSERS ARE NOT SCHEDULED.

DRAWING NOTES:

1. PROVIDE ROOFTOP ONE THERMOSTAT AND CO2 MONITOR AS SHOWN. MOUNT A MINIMUM OF 48 INCHES ABOVE FINISH FLOOR. PROVE TAMPER PROOF CLEAR COVER.
2. PROVIDE ROOFTOP TWO THERMOSTAT AND CO2 MONITOR AS SHOWN. MOUNT A MINIMUM OF 48 INCHES ABOVE FINISH FLOOR. PROVE TAMPER PROOF CLEAR COVER.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
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HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1155

TERRALOGOS

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

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LICENSE NO. 43481

EXPIRATION DATE: 05/15/2015

STATE OF MARYLAND — ESTHER W. OKE — 43481 — PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

TITLE

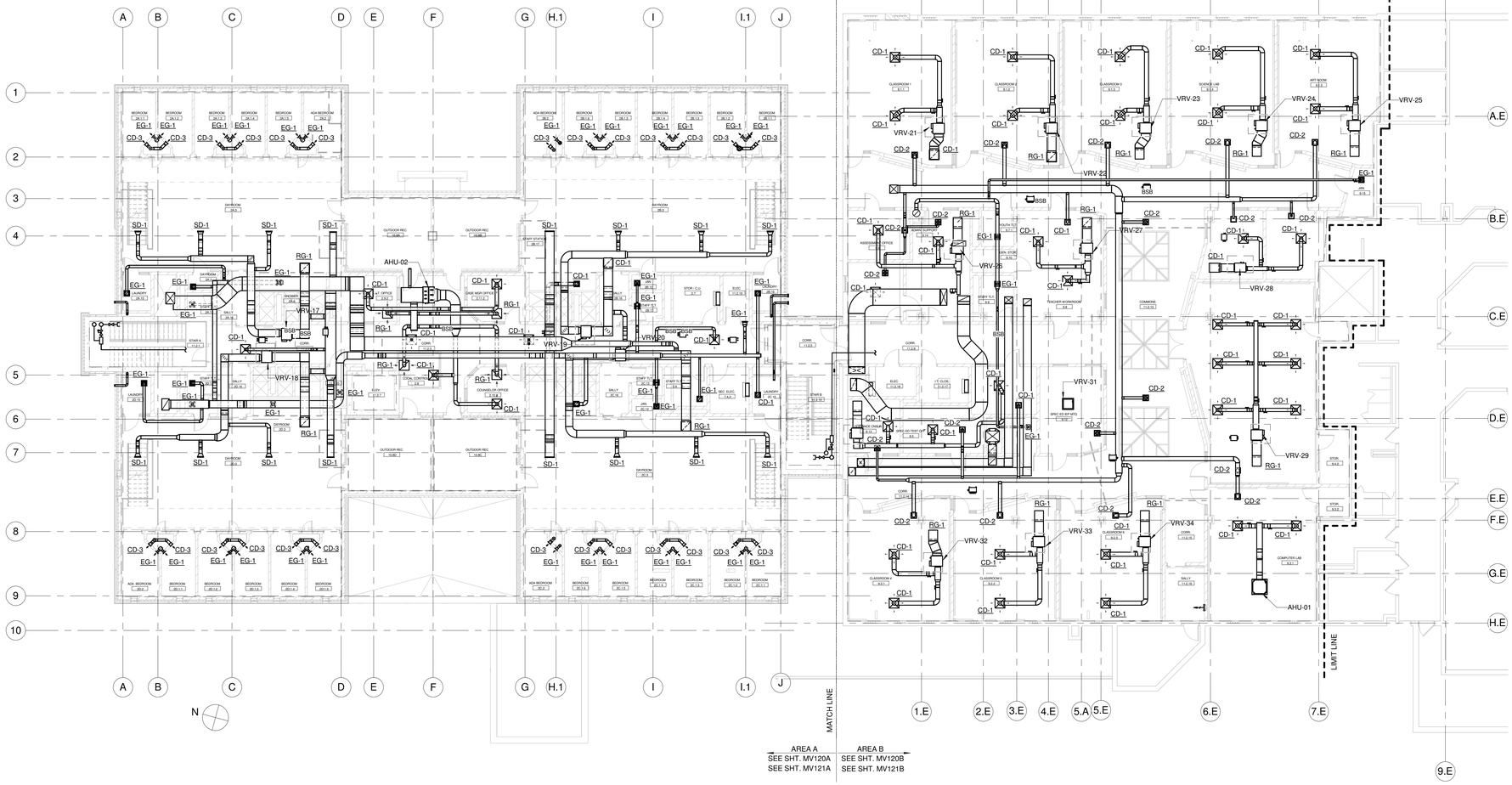
FIRST FLOOR PLAN - HVAC DUCTWORK - AREA B

PSA-DEWBERRY PROJECT NO. Project Number

DPSCS CONTRACT NO. KT-000-150-C01

MV110B

SHEET NO.



1 SECOND LEVEL PLAN - MECHANICAL

Scale: 3/32" = 1'-0"

GENERAL SHEET NOTES:

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SHEET NOTES:

1 MECHANICAL

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
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PHONE (410) 329-1115

TERRALOGOS ECO ARCHITECTURE PC

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

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LICENSE NO. 43481

EXPIRATION DATE: 05/15/2015

STATE OF MARYLAND · GLEN W. O'NEIL · 43481 · PROFESSIONAL ENGINEER

KEY PLAN

SCALE

3/32" = 1'-0"

0" 3/8" 1 1/2"
0' 4' 8' 16'
SCALE: 3/32" = 1' - 0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

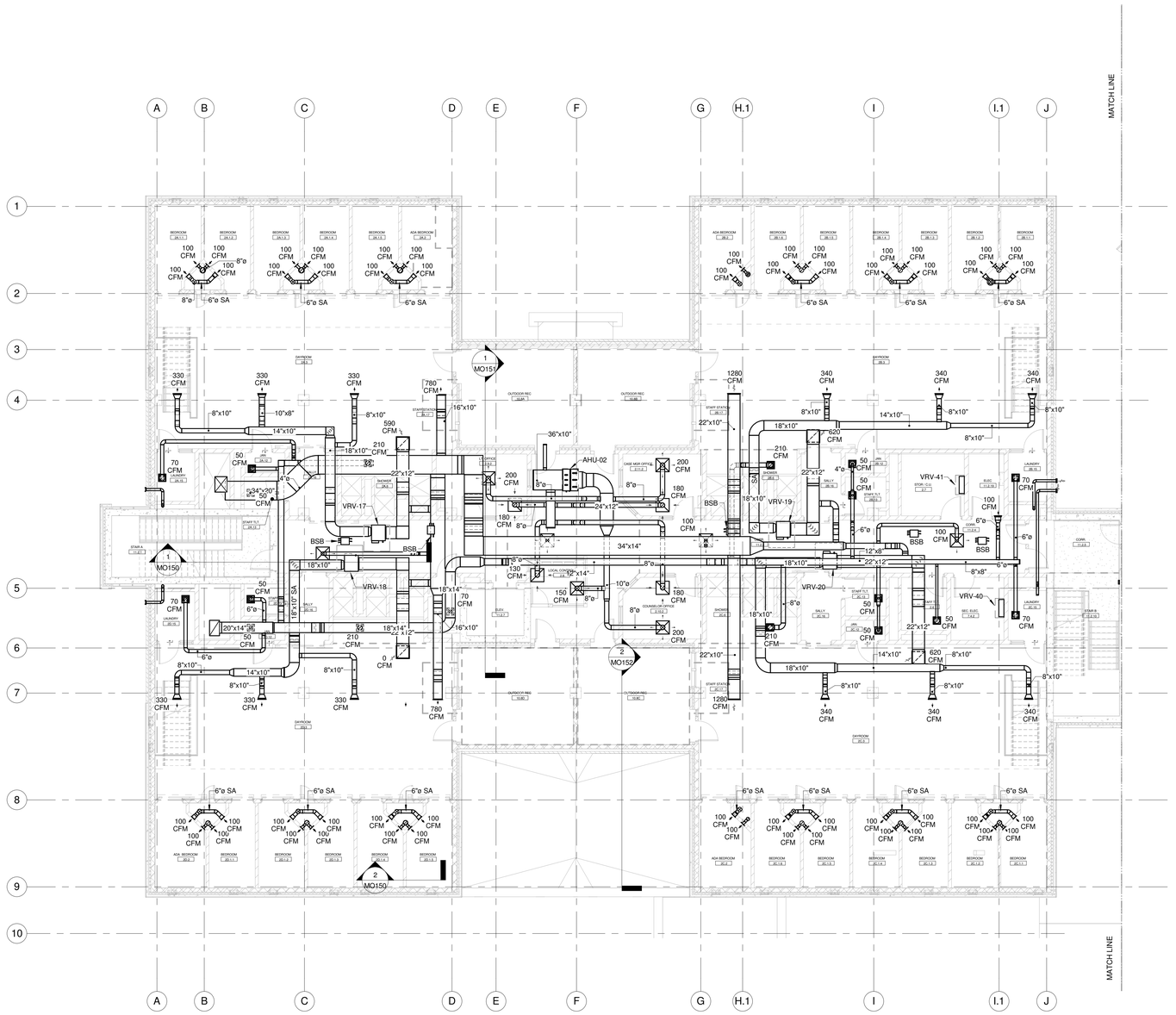
TITLE

SECOND FLOOR PLAN - MECHANICAL

PSA-DEWBERRY PROJECT NO.	Project Number
DPSCS CONTRACT NO.	KT-000-150-C01

MO120

SHEET NO.



N

1 SECOND FLOOR PLAN - HVAC DUCTWORK - AREA A

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

GENERAL SHEET NOTES:

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A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
8300 BOONE BLVD. SUITE 1000
11350 MCCORMICK ROAD
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PHONE (410) 329-1115

TERRALOGOS
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

PROFESSIONAL CERTIFICATION:

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LICENSE NO. 43481

EXPIRATION DATE: 05/15/2015

STATE OF MARYLAND — 43481 — PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

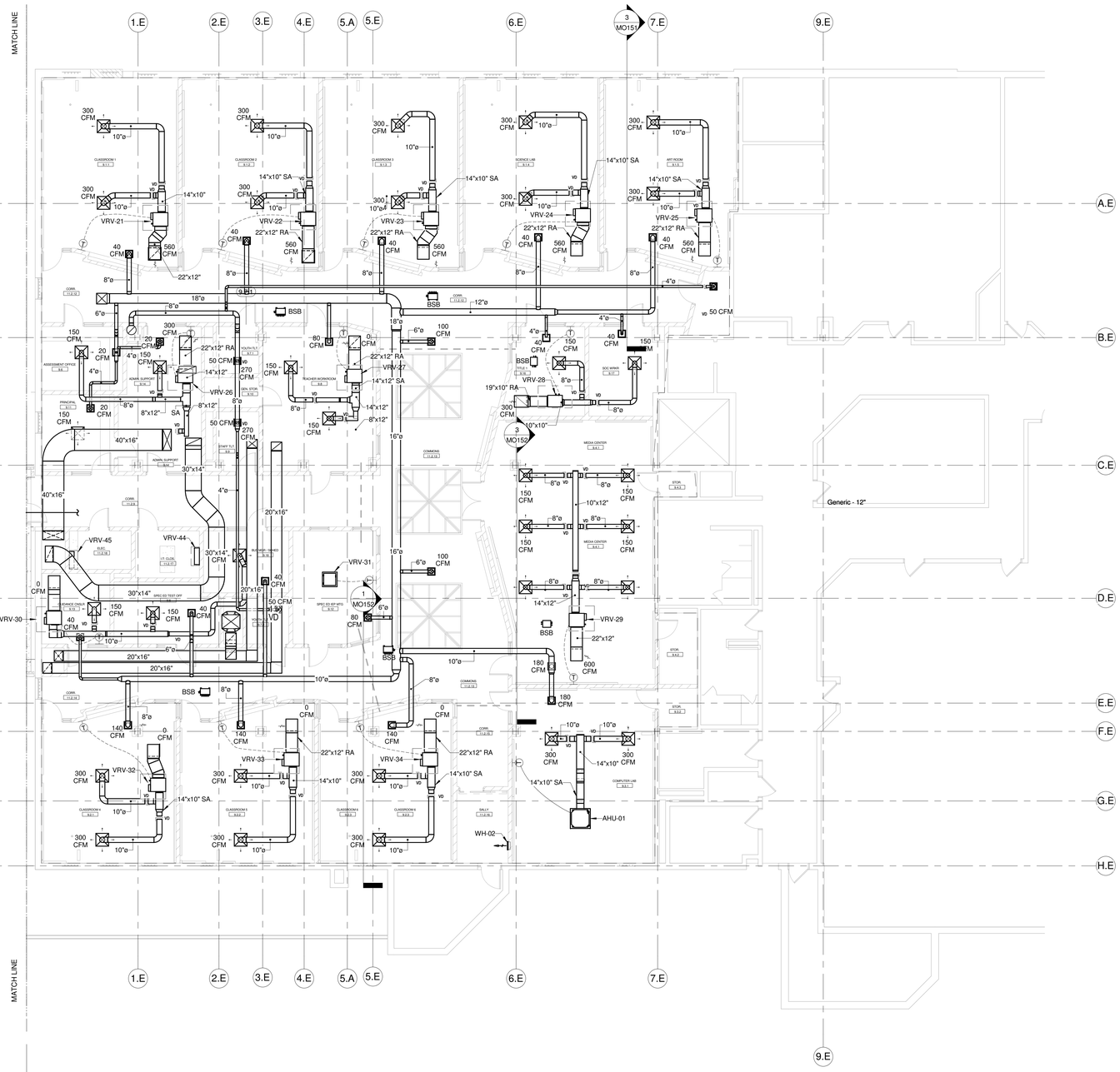
TITLE

SECOND FLOOR PLAN - HVAC DUCTWORK - AREA A

PSA-DEWBERRY PROJECT NO.	Project Number
DPSCS CONTRACT NO.	KT-000-150-C01

MV120A

SHEET NO.



N

1 SECOND FLOOR PLAN - HVAC DUCTWORK - AREA B

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

GENERAL SHEET NOTES:

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A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
EXECUTIVE PLAZA III, SUITE 1000
11350 MCCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1150

TERRALOGOS

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

PROFESSIONAL CERTIFICATION.
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"

LICENSE NO. 43481

EXPIRATION DATE: 05/15/2015

STATE OF MARYLAND · GEORGE W. O'NEIL · 43481 · PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

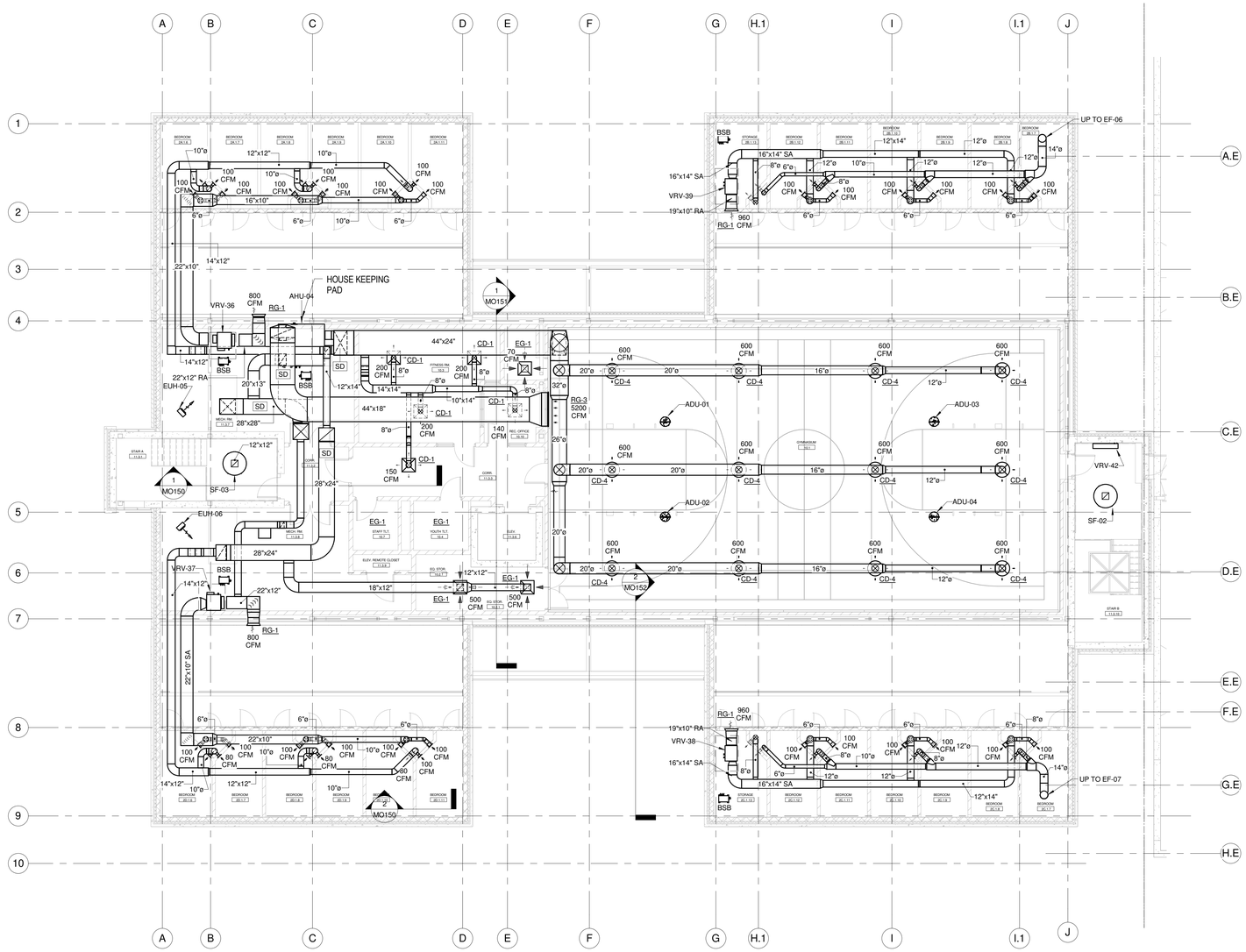
TITLE

SECOND FLOOR PLAN - HVAC DUCTWORK - AREA B

PSA-DEWBERRY PROJECT NO.	Project Number
DPSCS CONTRACT NO.	KT-000-150-C01

MV120B

SHEET NO.



N

1 THIRD FLOOR AND MEZZ. PLAN - HVAC DUCTWORK - AREA A

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

GENERAL SHEET NOTES:

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A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
EXECUTIVE PLAZA III, SUITE 1000
11350 MCCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1150
TERRALOGOS
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

PROFESSIONAL CERTIFICATION:

"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"

LICENSE NO. 43481

EXPIRATION DATE: 09/15/2015

STATE OF MARYLAND — STEPHEN W. C. — 43481 — PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

TITLE

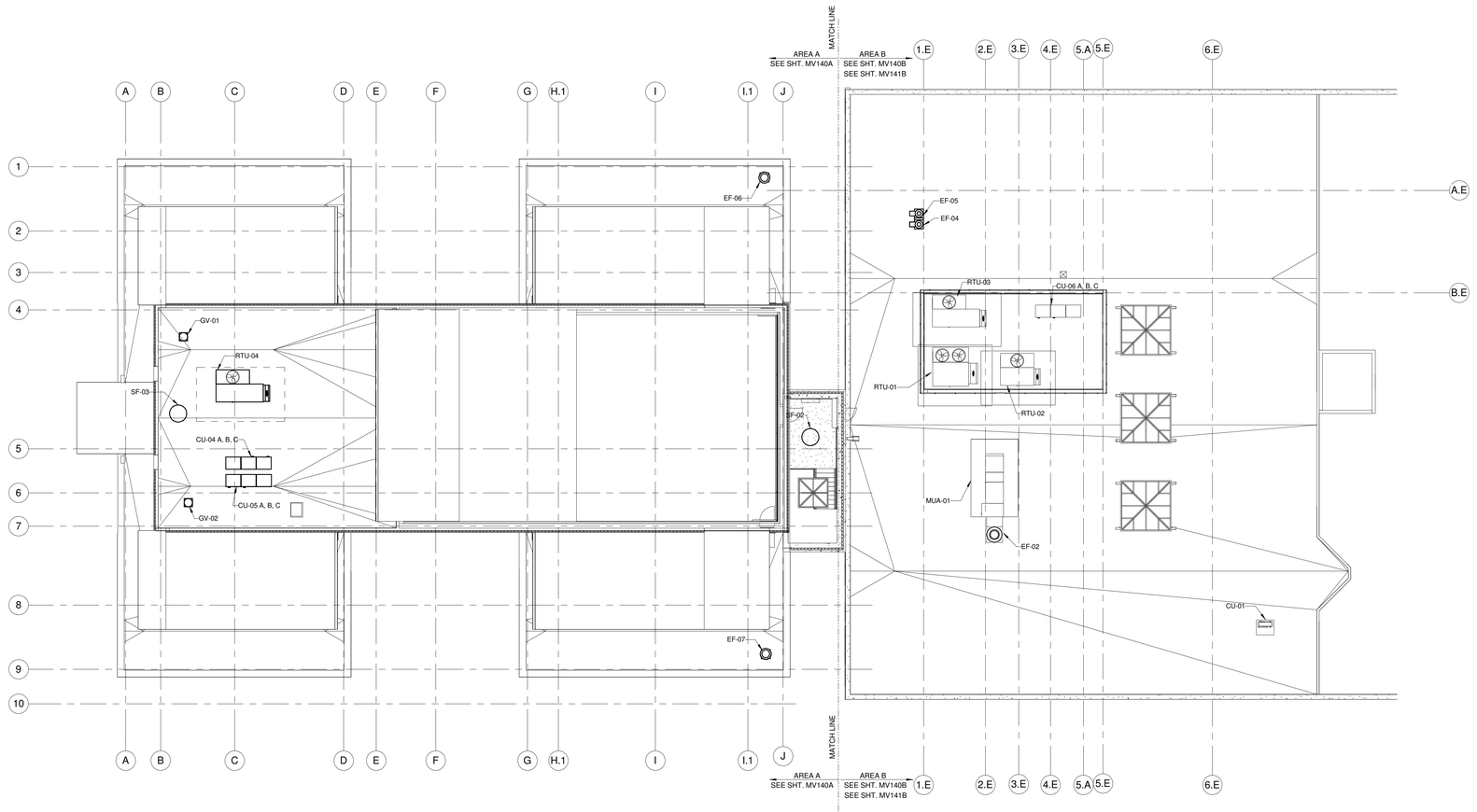
THIRD FLOOR AND MEZZ. PLAN - HVAC DUCTWORK - AREA A

PSA-DEWBERRY PROJECT NO. Project Number

DPSCS CONTRACT NO. KT-000-150-C01

MV130A

SHEET NO.



N

1 ROOF PLAN - MECHANICAL

Scale: 3/32" = 1'-0"

0" 3/8" 1 1/2"
0' 4' 8' 16'
SCALE: 3/32" = 1' - 0"

GENERAL SHEET NOTES:

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A JOINT-VENTURE BETWEEN
PSA-DEWBERRY +
PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
TERRALOGOS
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

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BALTIMORE MARYLAND

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LICENSE NO. 43481
EXPIRATION DATE: 05/15/2015

KEY PLAN

SCALE

3/32" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

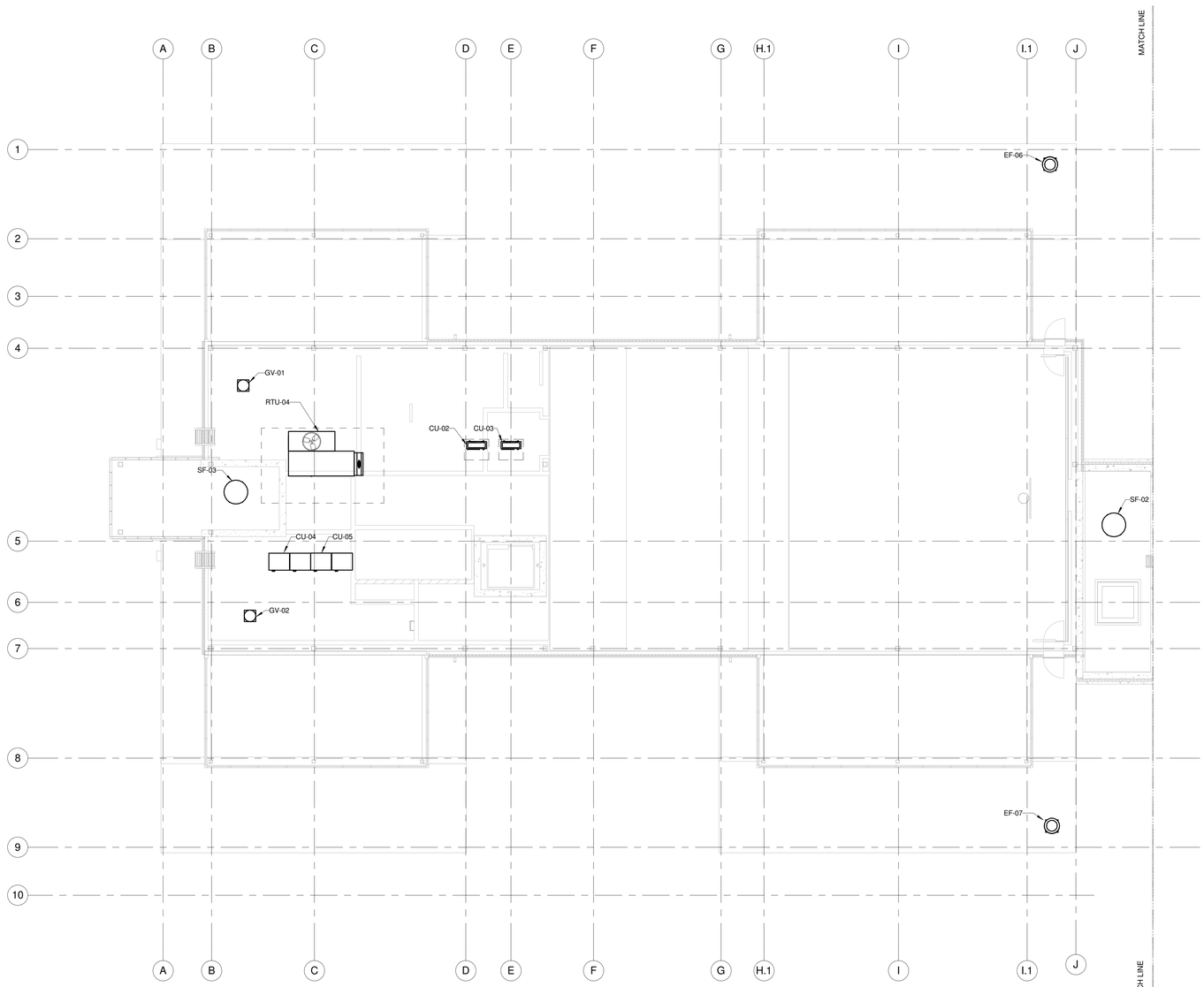
TITLE

ROOF PLAN - MECHANICAL

PSA-DEWBERRY PROJECT NO. Project Number
DPSCS CONTRACT NO. KT-000-150-C01

MO140

SHEET NO.



N

1 ROOF PLAN - HVAC MECHANICAL - AREA A

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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SIDHU ASSOCIATES, INC.
Consulting Engineers
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TERRALOGOS

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STATE OF MARYLAND - DPSCS

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LICENSE NO. 43481

EXPIRATION DATE: 05/15/2015

STATE OF MARYLAND · SETH W. GRAY · 43481 · PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

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APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

TITLE

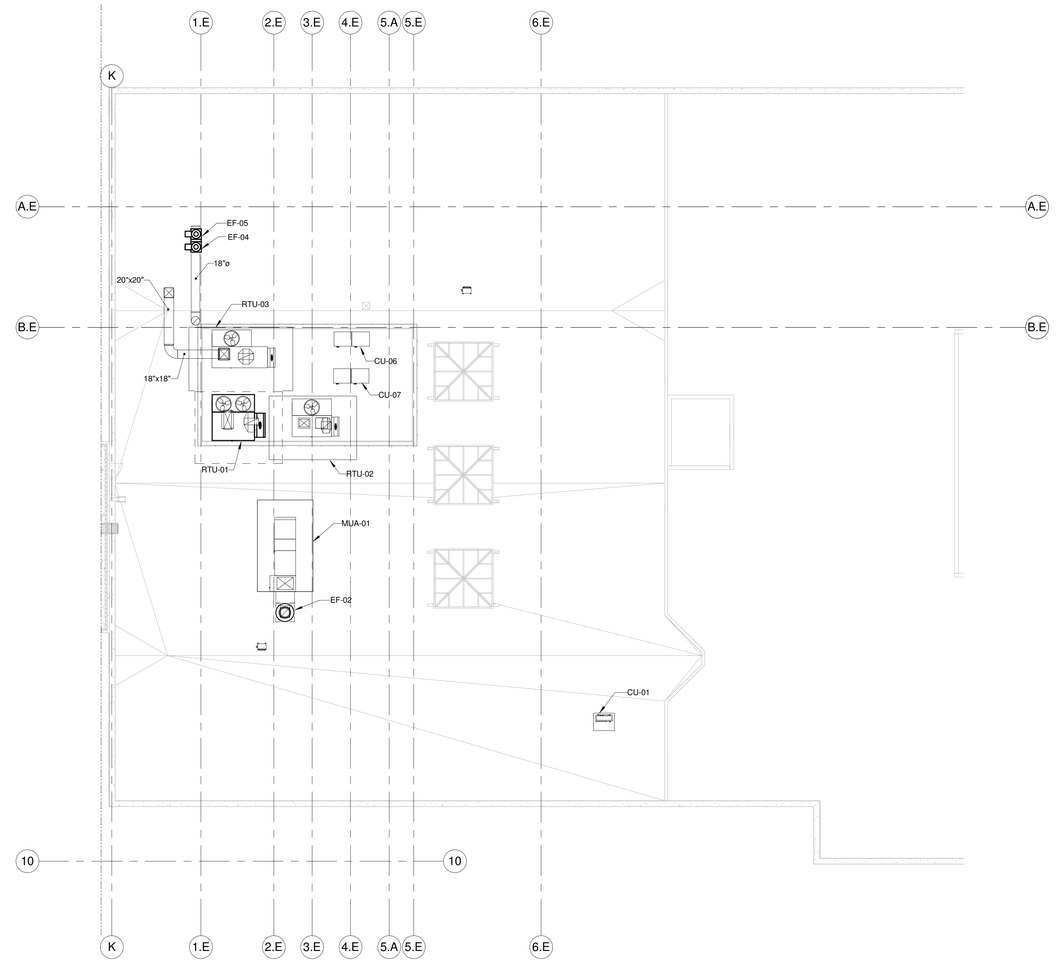
ROOF PLAN - HVAC MECHANICAL - AREA A

PSA-DEWBERRY PROJECT NO. Project Number

DPSCS CONTRACT NO. KT-000-150-C01

MV140A

SHEET NO.



N 1 ROOF PLAN - HVAC MECHANICAL - AREA B

Scale: 3/32" = 1'-0"

0' 4' 8' 16' 32'

SCALE: 1/8" = 1' - 0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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STATE OF MARYLAND · SEVIN W. SIDHU · 43481 · PROFESSIONAL ENGINEER

KEY PLAN

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No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

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ROOF PLAN - HVAC MECHANICAL - AREA B

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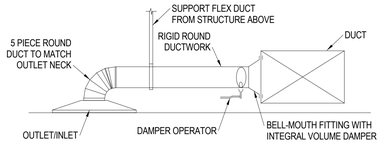
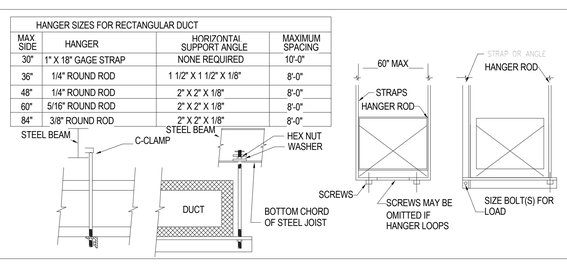
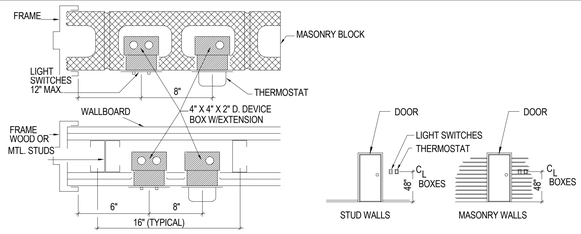


CEILING AIR DEVICE HOOK-UP DETAIL
NOT TO SCALE

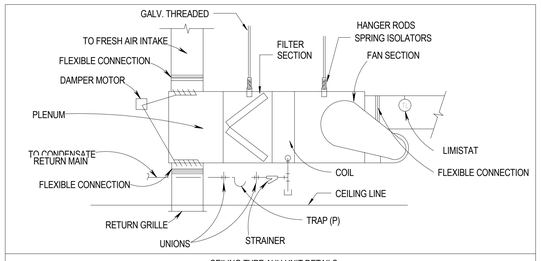
HANGER SIZES FOR RECTANGULAR DUCT			
MAX. SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1" X 18" GAGE STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1 1/2" X 1 1/2" X 1/8"	8'-0"
48"	1/4" ROUND ROD	2" X 2" X 1/8"	8'-0"
60"	5/16" ROUND ROD	2" X 2" X 1/8"	8'-0"
84"	3/8" ROUND ROD	2" X 2" X 1/8"	8'-0"



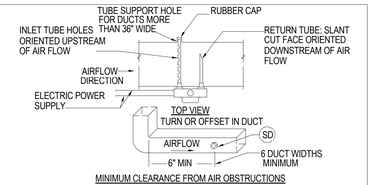
TYPICAL DUCT HANGER ASSEMBLY
NOT TO SCALE



ROOM THERMOSTAT & LIGHT SWITCH MOUNTING DETAIL
NOT TO SCALE



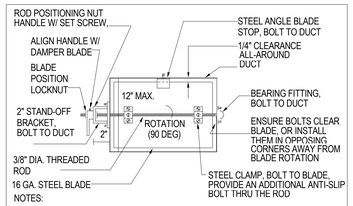
CEILING TYPE AHU UNIT DETAILS
NOT TO SCALE



MINIMUM CLEARANCE FROM AIR OBSTRUCTIONS

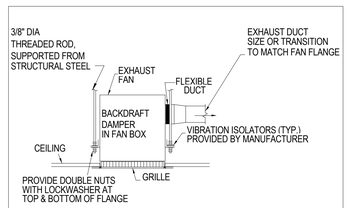
NOTES:
1. INLET TUBE LENGTH SHALL BE EQUAL TO FULL WIDTH OF DUCT.
2. RETURN TUBE SHALL BE AS RECOMMENDED BY THE DETECTOR'S MANUFACTURER.
3. CLEARANCES FROM OBSTRUCTIONS, INLETS AND PROPER LOCATION IN THE SYSTEM SHALL BE IN ACCORDANCE WITH NEMA: "GUIDE FOR PROPER USE OF SMOKE DETECTORS IN DUCT APPLICATIONS", NFPA 90A, U.L. STD. 268A, AND NFPA 72E

DUCT MOUNTED SMOKE DETECTOR
NOT TO SCALE

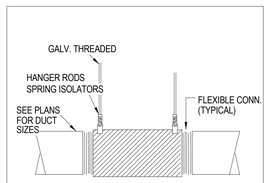


NOTES:
1. DAMPERS FOR ROUND DUCTS SHALL BE SIMILAR TO THE DAMPER SHOWN ABOVE.
2. ENSURE THAT FULL 90° DAMPER BLADE MOVEMENT IS UNOBSTRUCTED.
3. FOR DUCT H MORE THAN 12", PROVIDE FACTORY-FABRICATED OPPOSED BLADE DAMPERS

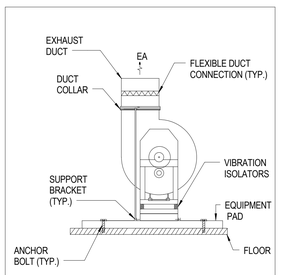
MANUAL DAMPER DETAIL
(ADJUSTABLE SINGLE-BLADE BALANCING TYPE)
NOT TO SCALE



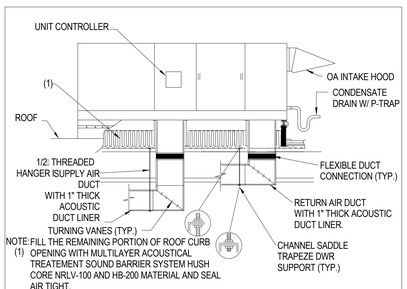
CEILING EXHAUST FAN DETAIL
NOT TO SCALE



IN-LINE EXHAUST FAN MOUNTING DETAIL
NOT TO SCALE

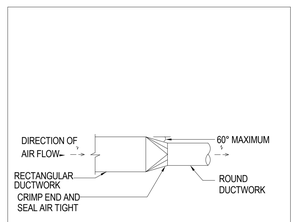


EXHAUST FAN DETAIL
NOT TO SCALE

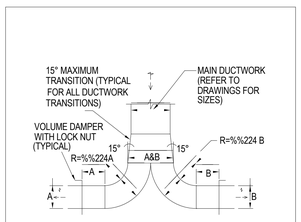


NOTE:FILL THE REMAINING PORTION OF ROOF CURB
(1) OPENING WITH MULTILAYER ACOUSTICAL TREATEMENT SOUND BARRIER SYSTEM HUSH CORE NRLV-100 AND HB-200 MATERIAL AND SEAL AIR TIGHT.

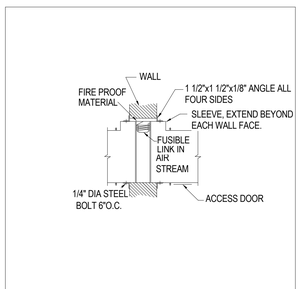
DOWNFLOW ROOFTOP UNIT INSTALLATION DETAIL (TYP.)
NOT TO SCALE



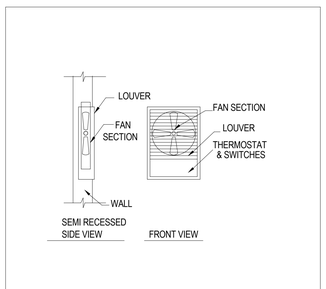
RECTANGULAR TO ROUND DUCTWORK TRANSITION
NOT TO SCALE



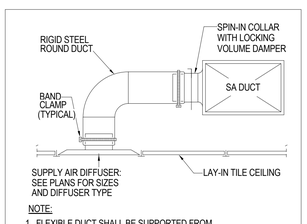
DUCTWORK TEE WITH RADIUS ELBOW DETAIL
NOT TO SCALE



FIRE DAMPER INSTALLATION (TYPICAL)
NOT TO SCALE

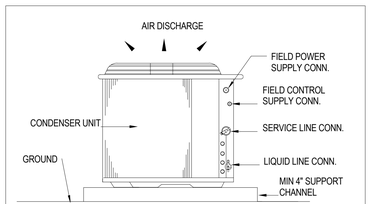


RECESSED WALL HEATER
NOT TO SCALE

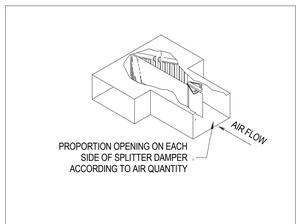


NOTE:
1. FLEXIBLE DUCT SHALL BE SUPPORTED FROM STRUCTURE ABOVE TO PREVENT SAGGING.

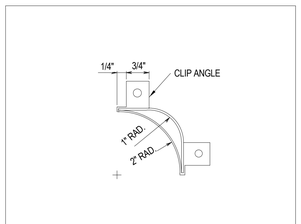
SUPPLY AIR DIFFUSER IN ACCOUSTICAL CEILING
NOT TO SCALE



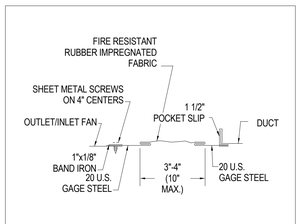
CONDENSER UNIT DETAIL (TYP.)
NOT TO SCALE



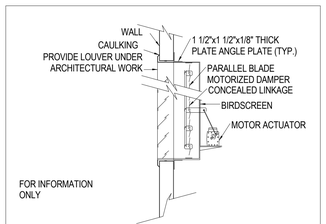
TYPICAL SPLITTER DAMPER DETAIL
NOT TO SCALE



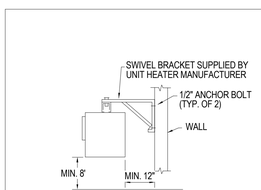
TYPICAL TURNING VANE DETAIL
NOT TO SCALE



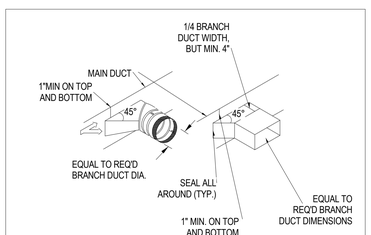
TYPICAL FLEXIBLE CONNECTION DETAIL
NOT TO SCALE



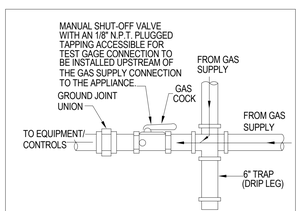
DAMPER DETAIL
NOT TO SCALE



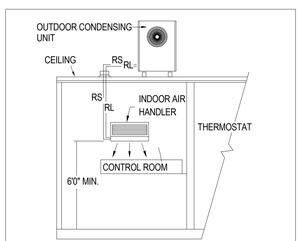
MOUNTING DETAIL-UNIT HEATER
NOT TO SCALE



TYPICAL BRANCH TAKE-OFF FITTING
NOT TO SCALE



GAS CONNECTION TO EQUIPMENT DETAIL
NOT TO SCALE



DUCTLESS SPLIT-SYSTEM AIR HANDLING UNITS DETAIL
NOT TO SCALE

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
TERRALOGOS
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS
BCDC YOUTH DETENTION CENTER
BALTIMORE MARYLAND

SEAL

PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"
LICENSE NO. 43481
EXPIRATION DATE: 05/15/2015
STATE OF MARYLAND · GEORGE W. CURTIS · 43481 · PROFESSIONAL ENGINEER

KEY PLAN

SCALE

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

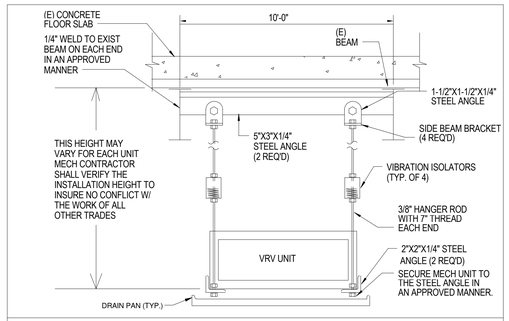
TITLE

MECHANICAL - DETAILS

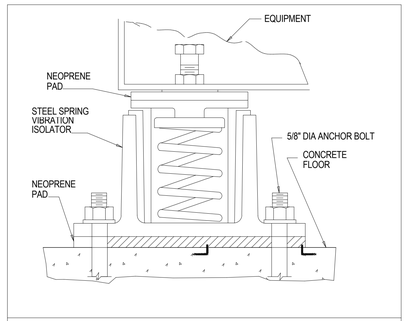
PSA-DEWBERRY PROJECT NO. Project Number
DPSCS CONTRACT NO. KT-000-150-C01

MO160

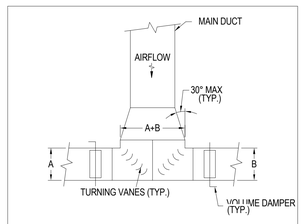
SHEET NO.



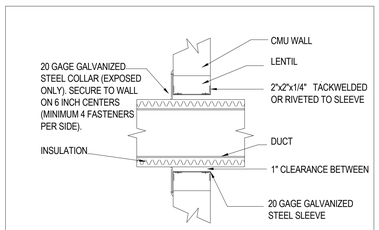
TYPICAL VRV UNIT HANGER DETAIL
NOT TO SCALE



VIBRATION ISOLATOR DETAIL
NOT TO SCALE



DUCT TEE CONNECTION DETAIL
NOT TO SCALE



DUCT PENETRATION THROUGH WALL
NOT TO SCALE

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
EXECUTIVE PLAZA II, SUITE 2000
11350 MCCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-2121

TERRALOGOS
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

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LICENSE NO.: 43481
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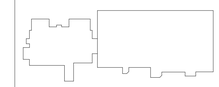
STATE OF MARYLAND — JOSEPH T. SIDHU — 43481 — PROFESSIONAL ENGINEER

KEY PLAN



SCALE

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

TITLE

MECHANICAL - DETAILS

PSA-DEWBERRY PROJECT NO.	Project Number
DPSCS CONTRACT NO.	KT-000-150-C01

MO161

SHEET NO.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	CFM RANGE	FACE (IN)	NECK (IN)	TYPE	MANU./MODEL #	NOTES	REMARKS
CD-1	0 - 400	24 x 24	8"	SUPPLY	TITUS/ SG-TDC	CEILING MOUNTED SECURITY SUPPLY DIFFUSER	1, 2 AND 5
CD-2	0 - 100	12 x 12	4"	SUPPLY	TITUS/ SG-TDC	CEILING MOUNTED SECURITY SUPPLY DIFFUSER	1, 2 AND 5
CD-3	0 - 100	8 x 8	6"	SUPPLY	TITUS/ SG-PR	SIDEWALL MOUNTED SECURITY SUPPLY GRILL	2 AND 5
CD-4	0 - 600	22"	12"	SUPPLY	TITUS/ TMR	CEILING MOUNTED SUPPLY DIFFUSER	2, 5 AND 6
CD-5	0 - 1200	14 x 14	VARY	SUPPLY	TITUS/ SG-3300RL	SIDEWALL MOUNTED SECURITY SUPPLY GRILL	2 AND 5
RG-1	0 - 800	24 x 24	VARY	RETURN	TITUS/ SG-LFF	CEILING MOUNTED SECURITY SUPPLY DIFFUSER	2
RG-2	0 - 400	12 x12	VARY	RETURN	TITUS/ SG-LFF	CEILING MOUNTED SECURITY SUPPLY DIFFUSER	2
RG-3	0 - 52000	62 x 38	60 x 36	RETURN	TITUS/ 300RS	SIDEWALL MOUNTED SECURITY SUPPLY DIFFUSER	2
SD-1	0 - 1200	16 x12	14 x 10	RETURN	TITUS/ SG-LFF	SIDEWALL MOUNTED SECURITY SUPPLY GRILL	2
EG-1	0 - 100	12 x12	4"	EXHAUST	TITUS/ SG-PS	CEILING MOUNTED SECURITYEXHAUST GRILLE	4
EG-2	0 - 600	12 x12	10 x 10	EXHAUST	TITUS/ SG-LFF	SIDEWALL MOUNTED SECURITY SUPPLY GRILL	3

NOTE:
1. LOUVERED DIFFUSEER SHALL BE SURFACE MOUNTED WITH 4-WAY BLOW PATTERN UNLESS SPECIFIED.
2. ALL AIR DEVICES SHALL BE SECURED WITH TAMPER PROOF SCREWS.
3. PROVIDE GRILLE WITH 3/4" STEEL ANCHOR BARS. POSITION 3" FROM BACK OF FACE OF PLATE.
4. PROVIDE GRILLE WITH 10 GAUGE x #2 MESH WIRE, WITH 3/16" STELL PLATE WITH 2" SQUARE HOLES, 1" FRET BARS AND 1" BORDERS.
5. AIR DEVICES SHALL BE SELECTED WITH A MAXIMUM NC RATING OF 30.
6. PROVIDE WITH RADIAL SLIDING BLADE DAMPER.

EXHAUST/SUPPLY AIR FANS (EF/SF) SCHEDULE

UNIT NO	CFM	E.S.P INCHES W.G.	FAN RPM	TYPE	DRIVE	ELECTRICAL DATA HP	V	PH	HZ	MAKE/MODEL	REMARKS
EF-01	2700	0.4	1770	CENTRIFUGAL	BELT	1	460	3	60	GREENHECK/AX-47-190-0428-A10 OR APROVED EQUAL	SEE NOTE 3
EF-02	4900	1.5	1929	CENTRIFUGAL	BELT	3	460	3	60	GREENHECK/18-TCF-1-I OR APROVED EQUAL	SEE NOTE 3
EF-03	110	0.1	950	CENTRIFUGAL	DIRECT	0.08	120	1	60	GREENHECK/SP-B110 OR APROVED EQUAL	SEE NOTE 1, 2
EF-04	2030	1.2	3847	CENTRIFUGAL	BELT	2	460	3	60	GREENHECK/VECTOR-H-10-9 OR APROVED EQUAL	SEE NOTE 3
EF-05	2030	1.2	3847	CENTRIFUGAL	BELT	2	460	3	60	GREENHECK/VECTOR-H-10-9 OR APROVED EQUAL	SEE NOTE 3
EF-06	1300	0.75	1200	CENTRIFUGAL	DIRECT	0.5	208	1	60	GREENHECK/G-143- VG OR APPROVED EQUAL	SEE NOTE 3
EF-07	1300	0.75	1200	CENTRIFUGAL	DIRECT	0.5	208	1	60	GREENHECK//G-143- VG OR APPROVED EQUAL	SEE NOTE 3
EF-08	465	0.1	1725	CENTRIFUGAL	DIRECT	0.1	208	1	60	GREENHECK/CBF OR APROVED EQUAL	SEE NOTE 1, 2
EF-09	465	0.1	1725	CENTRIFUGAL	DIRECT	0.1	208	1	60	GREENHECK/CBF OR APROVED EQUAL	SEE NOTE 1, 2
EF-10	150	0.1	1050	CENTRIFUGAL	DIRECT	0.17	208	1	60	GREENHECK/CSP-B OR APROVED EQUAL	SEE NOTE 1, 2
EF-11	150	0.1	1050	CENTRIFUGAL	DIRECT	0.17	208	1	60	GREENHECK/CSP-B OR APROVED EQUAL	SEE NOTE 1, 2
SF-01	2700	0.4	1725	CENTRIFUGAL	BELT	0.75	460	3	60	GREENHECK/AX-47-190-0428-A10 OR APROVED EQUAL	SEE NOTE 3
SF-02	2000	0.2	1725	CENTRIFUGAL	BELT	0.75	460	3	60	GREENHECK/RSFP OR APROVED EQUAL	SEE NOTE 3
SF-03	2000	0.2	1725	CENTRIFUGAL	BELT	0.75	460	3	60	GREENHECK/RSFP OR APROVED EQUAL	SEE NOTE 3

NOTE:
1. DISCONNECT AND STARTER PROVIDED BY MECHANICAL CONTRATOR.
2. ON/OFF CONTROL SHALL BE INTERCONNECTED LOCAL LIGHTING.
3. DISCONNECT AND STARTER PROVIDED BY ELECTRICAL CONTRATOR.

AIR HANDLING UNIT (AHU) SCHEDULE

UNIT NO	SUPPLY AIR SA CFM	RA CFM	OA CFM	HEATING TOTAL MBH	COOLING DATA TOTAL COOLING CAPACITY (MBH)	EAT DB/WB.	LAT DB/WB.	SUPPLY FAN EXT.SP (IN WG)	FAN RPM	MCA	ELECTRICAL DATA V	HZ	PH	AREA SERVED	MAKE/MODEL	REMARKS
AHU-01	600	600	0	21	18	72/68	56/67	0.2	850	0.4	208	60	1	SECOND FLOOR	DAIKIN-FCQ30PAVJU	SEE NOTE 1
AHU-02	750	670	80	24	22	72/68	56/67	0.3	1030	0.5	208	60	1	SECOND FLOOR	DAIKIN-FXMQ24PVJU	SEE NOTE 1
AHU-03	400	360	40	13.5	12	72/68	56/67	0.1	950	0.5	208	60	1	THIRD FLOOR	DAIKIN-FBQ36PVJU	SEE NOTE 1
AHU-04	8090	7060	1030	240	307	82/66	56/54	1.34	1750	3	480	60	3	GYM, FITNESS RM	AAON-RN015	SEE NOTE 1

NOTE:
1. DISCONNECT PROVIDED BY ELECTRICAL CONTRATOR.

CONDENSING UNIT (CU) SCHEDULE

UNIT#	UNIT SERVED	ELECTRICAL DATA V	PH	HZ	MIN CIR AMP	MAX OVER CURRENT	COOLING CAPACITY (MBH)	MAKE/MODEL	REMARKS
CU-01	AHU--1	208	1	60	8.75	15	12	DAIKIN RZQ12PVJU OR APPROVED EQUAL	SEE NOTE 1
CU-02	AHU-2	208	1	60	17.5	15	24	DAIKIN RZQ24PVJU OR APPROVED EQUAL	SEE NOTE 1
CU-03	AHU-3	208	1	60	13	15	18	DAIKIN RZQ18PVJU OR APPROVED EQUAL	SEE NOTE 1
CU-04 A, B, C	AHU-4	460	3	60	43, 43, 43	50, 50, 50	307	DAIKIN-REYQ(160-240 MBH) VRV-IV-HEAT RECOVERY-COMBO OR APPROVED EQUAL	SEE NOTE 1
CU-05 A, B, C	VRV SYS.	460	3	60	43, 43, 43	50, 50, 50	334	DAIKIN-REYQ(160-240 MBH) VRV-IV-HEAT RECOVERY-COMBO OR APPROVED EQUAL	SEE NOTE 1
CU-06 A, B, C	VRV SYS.	460	3	60	43, 43, 43	50, 50, 50	192	DAIKIN-REYQ(160-240 MBH) VRV-IV-HEAT RECOVERY-COMBO OR APPROVED EQUAL	SEE NOTE 1

NOTE:
1. DISCONNECT AND STARTER PROVIDED BY ELECTRICAL CONTRATOR.

ELECTRICAL UNIT HEATERS SCHEDULE

UNIT NO	LOCATION	HEATING CAPACITY(KW)	CFM	ELECTRICAL DATA V	PH	HZ	FLA	MAKE/MODEL	REMARKS
EUH -02	BASEMENT AREA A	5	350	480	3	60	6	QMARK MUH541	SEE NOTE 1
EUH - 01	BASEMENT AREA A	5	350	480	3	60	6	QMARK MUH541	SEE NOTE 1
EUH-03	FIRST FLOOR MECHANICAL RM	3	350	480	3	60	3.6	QMARK MUH341	SEE NOTE 1
EUH-04	FIRST FLOOR ELECTRICAL RM	3	350	480	3	60	3.6	QMARK MUH341	SEE NOTE 1
EUH-05	THIRD FLOOR MECH. ROOM	5	350	480	3	60	6	QMARK MUH541	SEE NOTE 1
EUH-06	THIRD FLOOR MECH ROOM	5	350	480	3	60	6	QMARK MUH541	SEE NOTE 1

NOTE:
1. DISCONNECT PROVIDED BY ELECTRICAL CONTRATOR.

FAN COIL SCHEDULE (VRV)

UNIT #	LOCATION	MAKE/MODEL	AREA SERVED	CFM	HEATING DATA HEATING CAPACITY (BTU/H)	LAT(F)DB/ WB	COOLING DATA COOLING CAPACITY (BTU/H)	EAT(F) DB/WB.	LAT(F) DB/WB.	COOLING INPUT POWER (KW)	ELECTRICAL DATA V	HZ	PH	MCA	MOA	REMARKS
VRV-01	FIRST FLOOR	DAIKIN-FCQ18PAVJU	CONFERENCE ROOM 1.3	400	20000	70/60	18000	72/68	57/54	0.8	208	60	1	0.8	15	SEE NOTE 1
VRV-02	FIRST FLOOR	DAIKIN-FXMQ36PAVJU	SECURITY SCREEN 0.6	1090	20000	70/60	18000	72/68	57/54	0.22	208	60	1	1.6	15	SEE NOTE 1
VRV-03	FIRST FLOOR	DAIKIN-FXMQ36PAVJU	VISITATION 8.2	1200	18000	70/60	72000	72/68	57/54	0.61	208	60	1	1.6	15	SEE NOTE 1
VRV-04	FIRST FLOOR	DAIKIN-FXMQ36PAVJU	STAFF MUSTER 7.2	1050	18000	70/60	20000	72/68	57/54	0.22	208	60	1	1.6	15	SEE NOTE 1
VRV-05	FIRST FLOOR	DAIKIN-FXMQ24PAVJU	ADMIN. SUPPORT 1.1, 1.2, 1.3, 1.4	750	27000	70/60	24000	72/68	57/54	0.23	208	60	1	1.6	15	SEE NOTE 1
VRV-06	FIRST FLOOR	DAIKIN-FXMQ18PAVJU	2F.5, 2F.4	490	18000	70/60	20000	72/68	57/54	0.22	208	60	1	1.6	15	SEE NOTE 1
VRV-07	FIRST FLOOR	DAIKIN-FXMQ36PAVJU	FEMALE DAYROOM	900	18000	70/60	20000	72/68	57/54	0.22	208	60	1	1.6	15	SEE NOTE 1
VRV-08	FIRST FLOOR	DAIKIN-FXLQ18MVJU	STAIR WELL A	490	18000	70/60	20000	72/68	57/54	0.23	208	60	1	1.6	15	SEE NOTE 1
VRV-09	FIRST FLOOR	DAIKIN-FXMQ24PAVJU	3.2, 3.6, 3.12	675	27000	70/60	24000	72/68	57/54	0.25	208	60	1	1.8	15	SEE NOTE 1
VRV-10	FIRST FLOOR	DAIKIN-FXMQ36PAVJU	CELLS	1000	81000	70/60	72000	72/68	57/54	0.61	208	60	1	1.6	15	SEE NOTE 1
VRV-11	FIRST FLOOR	DAIKIN-FXZQ07M7VJU	COUNSELOR OFFICE	200	8700	70/60	7500	72/68	57/54	0.11	208	60	1	0.8	15	SEE NOTE 1
VRV-12	FIRST FLOOR	DAIKIN-FXZQ07M7VJU	CASE MGR OFFICE	200	8700	70/60	7500	72/68	57/54	1.38	208	60	1	0.8	15	SEE NOTE 1
VRV-13	FIRST FLOOR	DAIKIN-FXAQ18PAVJU	MECH. 11.1.6	635	2000	70/60	24000	72/68	57/54	0.23	208	60	1	1.6	15	SEE NOTE 1
VRV-14	FIRST FLOOR	DAIKIN-FXAQ24PAVJU	SECURITY ELEC. 7.4.1	635	20000	70/60	24000	72/68	57/54	0.23	208	60	1	1.6	15	SEE NOTE 1
VRV-15	FIRST FLOOR	DAIKIN-FXZQ07M7VJU	LT OFFICE	200	8700	70/60	7500	72/68	57/54	0.08	208	60	1	0.8	15	SEE NOTE 1
VRV-16	FIRST FLOOR	DAIKIN-FXZQ07M7VJU	CAPT. OFFICE	200	8700	70/60	7500	72/68	57/54	0.08	208	60	1	0.8	15	SEE NOTE 1
VRV-17	SECOND FLOOR	DAIKIN-FXMQ36PAVJU	DAYROOM 2A.3	1020	27000	70/60	24000	72/68	80/67	0.23	208	60	1	1.8	15	SEE NOTE 1
VRV-18	SECOND FLOOR	DAIKIN-FXMQ36PAVJU	DAYROOM 2D.3	1020	27000	70/60	24000	72/68	80/67	0.23	208	60	1	1.8	15	SEE NOTE 1
VRV-19	SECOND FLOOR	DAIKIN-FXMQ36PAVJU	DAYROOM 2B.3	1020	27000	70/60	24000	72/68	80/67	0.23	208	60	1	1.8	15	SEE NOTE 1
VRV-20	SECOND FLOOR	DAIKIN-FXMQ36PAVJU	DAYROOM 2C.3	1020	27000	70/60	24000	72/68	80/67	0.23	208	60	1	1.8	15	SEE NOTE 1
VRV-21	SECOND FLOOR	DAIKIN-FXDQ24PAVJU	CLASSROOM-1	600	27000	70/60	24000	72/68	80/67	0.19	208	60	1	1.4	15	SEE NOTE 1
VRV-22	SECOND FLOOR	DAIKIN-FXDQ24PAVJU	CLASSROOM-2	600	27000	70/60	24000	72/68	80/67	0.19	208	60	1	1.4	15	SEE NOTE 1
VRV-23	SECOND FLOOR	DAIKIN-FXDQ24PAVJU	CLASSROOM-3	600	27000	70/60	24000	72/68	80/67	0.19	208	60	1	1.4	15	SEE NOTE 1
VRV-24	SECOND FLOOR	DAIKIN-FXDQ24PAVJU	SCIENCE LAB	600	27000	70/60	24000	72/68	80/67	0.19	208	60	1	1.4	15	SEE NOTE 1
VRV-25	SECOND FLOOR	DAIKIN-FXDQ24PAVJU	ARTROOM	800	27000	70/60	24000	72/68	80/67	0.19	208	60	1	1.4	15	SEE NOTE 1
VRV-26	SECOND FLOOR	DAIKIN-FXDQ24PAVJU	9.6,9.11,9.14	800	27000	70/60	24000	72/68	80/67	0.19	208	60	1	1.4	15	SEE NOTE 1
VRV-27	SECOND FLOOR	DAIKIN-FXDQ12PAVJU	TEACHER WORK ROOM	280	13500	70/60	12000	72/68	80/67	0.09	208	60	1	0.9	15	SEE NOTE 1
VRV-28	SECOND FLOOR	DAIKIN-FXDQ12PAVJU	TITLE, SOCIAL WORK	280	13500	70/60	12000	72/68	80/67	0.09	208	60	1	0.9	15	SEE NOTE 1
VRV-29	SECOND FLOOR	DAIKIN-FXDQ36PAVJU	MEDIA CENTER	1200	40000	70/60	36000	72/68	80/67	0.38	208	60	1	2.9	15	SEE NOTE 1
VRV-30	SECOND FLOOR	DAIKIN-FXDQ24PAVJU	CLASSROOM-4	600	27000	70/60	24000	72/68	80/67	0.23	208	60	1	1.8	15	SEE NOTE 1
VRV-31	SECOND FLOOR	DAIKIN-FXDQ18PAVJU	9.12	600	27000	70/60	24000	72/68	80/67	0.23	208	60	1	1.8	15	SEE NOTE 1
VRV-32	SECOND FLOOR	DAIKIN-FXDQ24PAVJU	CLASSROOM-4	600	27000	70/60	24000	72/68	80/67	0.23	208	60	1	1.8	15	SEE NOTE 1
VRV-33	SECOND FLOOR	DAIKIN-FXDQ24PAVJU	CLASSROOM-5	600	27000	70/60	24000	72/68	80/67	0.23	208	60	1	1.8	15	SEE NOTE 1
VRV-34	SECOND FLOOR	DAIKIN-FXDQ24PAVJU	CLASSROOM-6	600	27000	70/60	24000	72/68	80/67	0.23	208	60	1	1.8	15	SEE NOTE 1
VRV-36	THIRD FLOOR	DAIKIN-FXMQ36PAVJU	CELLS	1200	40000	70/60	36000	72/68	57/54	0.38	208	60	1	2.9	15	SEE NOTE 1
VRV-37	THIRD FLOOR	DAIKIN-FXMQ36PAVJU	CELLS	1200	40000	70/60	36000	72/68	57/54	0.38	208	60	1	2.9	15	SEE NOTE 1
VRV-38	THIRD FLOOR	DAIKIN-FXMQ48PAVJU	CELLS	1300	54000	70/60	48000	72/68	57/54	0.46	208	60	1	3.4	15	SEE NOTE 1
VRV-39	THIRD FLOOR	DAIKIN-FXMQ48PAVJU	CELLS	1300	54000	70/60	48000	72/68	57/54	0.46	208	60	1	3.4	15	SEE NOTE 1
VRV-40	SECOND FLR, AREA A	DAIKIN-FXAQ24PAVJU	SEC. ELEC. 7.4.2	638	0	70/60	24000	72/68	57/54	0.23	208	60	1	1.6	15	SEE NOTE 1
VRV-41	SECOND FLR, AREA A	DAIKIN-FXAQ24PAVJU	STOR/CU. 2.7	638	0	70/60	24000	72/68	57/54	0.23	208	60	1	1.8	15	SEE NOTE 1
VRV-42	THIRD FLOOR	DAIKIN-FXLQ18MVJU	STAIRWELL B	490	18000	70/60	24000	72/68	57/54	0.11	208	60	1	1.6	15	SEE NOTE 1
VRV-43	BASEMENT AREA B	DAIKIN-FXAQ24PAVJU	MDF ROOM, 11.0.3	635	0	70/60	24000	72/68	57/54	0.05	208	60	1	0.6	15	SEE NOTE 1
VRV-44	SECOND FLOOR, AREA B	DAIKIN-FXAQ24PAVJU	I.T. CLOS. 11.2.17	635	0	70/60	24000	72/68	57/54	0.05	208	60	1	0.6	15	SEE NOTE 1
VRV-45	SECOND FLOOR, AREA B	DAIKIN-FXAQ24PAVJU	ELEC. 11.2.18	635	24000	70/60	26500	72/68	57/54	0.05	208	60	1	0.6	15	SEE NOTE 1
VRV-46	BASEMENT AREA B	DAIKIN-FXAQ24PAVJU	EMERGENCY ELECTRIC ROOM	635	24000	70/60	26500	72/68	57/54	0.05	208	60	1	0.6	15	SEE NOTE 1

NOTE:
1. DISCONNECT PROVIDED BY ELECTRICAL CONTRATOR.
2. VRV-35 USED.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
TERRALOGOS
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS
BCDC YOUTH DETENTION CENTER
BALTIMORE MARYLAND

SEAL

PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"
LICENSE NO.: 43481
EXPIRATION DATE: 05/15/2015

KEY PLAN

SCALE

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

TITLE

MECHANICAL - SCHEDULES

PSA-DEWBERRY PROJECT NO. Project Number
DPSCS CONTRACT NO. KT-000-150-C01

MO170

SHEET NO.

ELECTRICAL INFRARED HEATER SCHEDULE								
				ELECTRICAL DATA				
UNIT#	AREA SERVED	HEATING CAPACITY(kW)	CFM	V	PH	HZ	HP	MAKE/MODEL
EIH-01	VEHICLE SALLY	6	0	480	3	60	0	INFRATECH COMFORT MODEL# WD 6024SS OR APPROVED EQUAL
EIH-02	VEHICLE SALLY	6	0	480	3	60	0	INFRATECH COMFORT MODEL# WD 6024SS OR APPROVED EQUAL

MAKE UP AIR UNIT (MAU) SCHEDULE

				ELECTRICAL DATA					HEATING						
UNIT NO	TOTAL SUPPLY AIR CFM	EXT SP (IN. WG)	TOTAL SP (IN. WG)	FLA	HP	V	PH	HZ	OUTDOOR AIR (F)	LEAVING AIR	INPUT (MBH)	OUTPUT (MBH)	UNIT WEIGHT(IBS)	MAKE/MODEL	NOTES
MUA-01	4900	0.4	0.6	4.8	3	460	3	60	13	65	300	280	0	IGX-112-H22 (BASIC OF DESIGN)	

GRAVITY VENTILATOR						
UNIT NO	LOCATION	TYPE	DEPTH(IN)	HEIGHT(IN)	WIDTH(IN)	MAKE/MODEL
GV-01	THIRD FLOOR MECH ROOM	GRAVITY	12	10	10	GREENHECK
GV-02	THIRD FLOOR MECH. ROOM	GRAVITY	12	10	10	GREENHECK

AIR DIFFUSING UNIT (ADU) SCHEDULE										
				ELECTRICAL DATA						
UNIT#	LOCATION	CFM	WEIGHT(lb)	WATTS	AMPS	V	PH	HZ	MAKE/MODEL	REMARKS
ADU-01	GYMNASIUM	547	9	35	0.32	120	1	60	AIRIUS A25SPSTD120W OR APPROVED EQUAL	
ADU-02	GYMNASIUM	547	9	35	0.32	120	1	60	AIRIUS A25SPSTD120W OR APPROVED EQUAL	
ADU-03	GYMNASIUM	547	9	35	0.32	120	1	60	AIRIUS A25SPSTD120W OR APPROVED EQUAL	
ADU-04	GYMNASIUM	547	9	35	0.32	120	1	60	AIRIUS A25SPSTD120W OR APPROVED EQUAL	

VARIABLE AIR VOLUME BOX (VAV) SCHEDULE				
		CFM		HEATING
Mark	UNIT SIZE	MAX	MIN	CAPACITY (kW)
VAV#1-1	3	540	160	-
VAV#1-2	2	235	100	-
VAV#1-3	2	330	330	1.5
VAV#1-4	2	430	430	2
VAV#1-5	2	460	140	1
VAV#1-6	2	500	500	1
VAV#1-7	2	200	100	-
VAV#1-8	5	720	270	-
VAV#1-9	2	280	100	-
VAV#1-10	3	520	160	-
VAV#1-11	3	810	180	-
VAV#2-1	2	300	100	-
VAV#2-2	5	900	270	-
VAV#2-3	5	1020	300	-

REMARK

1. FOR LEFT HAND OR RIGHT HAND ORIENTATION OF VAV CONTROL PANEL SEE FLOOR PLANS.

ELECTRICAL WALL UNIT HEATER											
UNIT#	AREA SERVED	HEATING CAPACITY (KW)	CFM	V	PH	HZ	AMPS	DEPTH	HEIGHT	WIDTH	MAKE/MODEL
WH - 01	CORR. 11.1.5	1.5	100	120	1	60	15	4-1/2	19-3/8	16-1/4	QMARK MODEL CWH3150F OR APPROVED EQUAL
WH - 02	SALLY 11.2.16	1.5	100	120	1	60	15	4-1/2	19-3/8	16-1/4	QMARK MODEL CWH3150F OR APPROVED EQUAL

NOTE:
1. THE HEATER SHALL BE RECESSED TYPE. THERMOSTAT SHALL BE INTERNALLY MOUNTED. PROVIDE SECURITY COVER FOR EACH WALL HEATER. USE DAYTON MODEL#3UG58 OR APPROVED EQUAL.

ROOF TOP UNIT (RTU) SCHEDULE

	SUPPLY AIR			COOLING COIL			HEATING				ELECTRICAL DATA						
UNIT #	CFM	TOTAL OA CFM	E.S.P INCHES W.G.	EAT DB/WB.	LAT DB/WB.	TOTAL MBH	EAT DB/WB	LAT DB/WB	MBH IN	MBH OUT	V	PH	HZ	MCA	MOA	MAKE/MODEL	REMARKS
RTU-01	5025	2080	1.8	83/71	65/63	132	45	95	275	220	460	3	60	39	50	AAON/RN-013-3-0-E-AC-GAS-ECONOMIZER OR APPROVED EQUAL	SERVING MEDICAL AREA. SEE NOTE 1 AND 2.
RTU-02	2240	350	1.5	79/69	63/62	56	60	95	106	85	460	3	60	29	35	AAON/RN-090-3-0-E-AC-GAS-ECONOMIZER OR APPROVED EQUAL	SERVING KITCHEN AREA. SEE NOTE 1 AND 2.
RTU-03	2480	2480	1.5	95/75	70/68	214	10	70	157	126	460	3	60	29	35	AAON/RN-018-3-0-E-AC-GAS-ECONOMIZER OR APPROVED EQUAL	DOAS, SERVING SECOND FLOOR CLASS ROOM AREA B. SEE NOTE 1AND 2
RTU-04	11080	11080	2.2	95/75	70/68	428	10	70	810	648	460	3	60	111	125	AAON/RN-040-3-0-E-AC-GAS-ECONOMIZER OR APPROVED EQUAL	DOAS, SERVING FIRST, SECOND, AND THIRD FLOOR AREA A. SEE NOTE 1 AND 2

NOTE:
1. STARTER PROVIDED BY MECHANICAL CONTRATOR.
2. DISCONNECT PROVIDED BY ELECTRICAL CONTRATOR.
3. UNIT VFD'S BY MECHANCIAL CONTRACTOR.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS
EBA ENGINEERING
HOPE FURRER Associates, Inc.
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R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS
BCDC YOUTH DETENTION CENTER
BALTIMORE MARYLAND

SEAL

PROFESSIONAL CERTIFICATION.
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"
LICENSE NO.: 43481
EXPIRATION DATE: 05/15/2015

STATE OF MARYLAND · CHRIS W. CHRISTIE · 43481 · PROFESSIONAL ENGINEER

KEY PLAN

SCALE

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

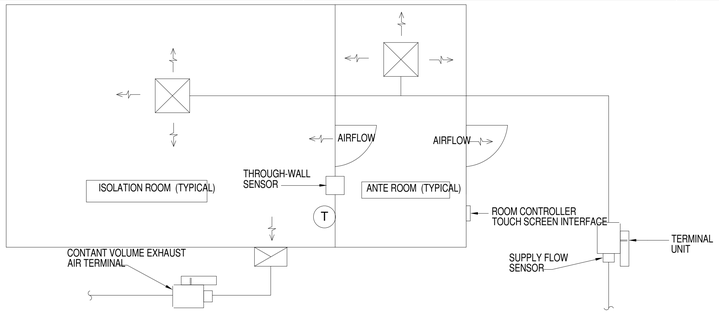
TITLE

MECHANICAL - SCHEDULES

PSA-DEWBERRY PROJECT NO. Project Number
DPSCS CONTRACT NO. KT-000-150-C01

MO171

SHEET NO.



AUTOMATIC TEMPERATURE CONTROL LEGEND

SYMBOL	ABBREV	DESCRIPTION
	SD_	SMOKE DETECTOR
	D_	CONTROL DAMPER
	T_	SPACE TEMPERATURE SENSOR
	T_	EQUIPMENT MOUNTED TEMPERATURE SENSOR
	DP_	DIFFERENTIAL PRESSURE SWITCH
	HS	GAS FURNACE COIL
	TS	DX COIL
	SPS	STATIC PRESSURE SENSOR
		DIFFERENTIAL PRESSURE SWITCH
		AIR FLOW MONITORING STATION
	N.C.	NORMALLY CLOSED
	N.O.	NORMALLY OPEN

DIRECT PRESSURE CONTROL

GENERAL INFORMATION
DRAWING IS FOR REFERENCE ONLY.

OCCUPIED MODE

THE ROOM CONTROLLER SHALL MAINTAIN THE USER-DEFINED OCCUPIED TEMPERATURE SETPOINTS AND MINIMUM VENTILATION RATES.

UNOCCUPIED MODE

THE ROOM CONTROLLER WILL MAINTAIN THE USER-DEFINED UNOCCUPIED TEMPERATURE SETPOINTS AND MINIMUM VENTILATION RATES.

PRESSURE CONTROL SEQUENCE OF OPERATION

THE ROOM CONTROLLER MEASURES THE ACTUAL PRESSURE DIFFERENTIAL WITH A THROUGH-THE-WALL SENSOR AND SHALL MAINTAIN USER-DEFINED SETPOINT VIA A MECHANICALLY PRESSURE INDEPENDANT VENTURI AIR CONTROL SUPPLY AND EXHAUST VALVE. THE ROOM CONTROLLER WILL ALARM IF THE MEASURED PRESSURE DIFFERENTIAL FALLS OUTSIDE THE USER-DEFINED SETPOINTS. ALARMS WILL ONLY SOUND AFTER A TIMED DELAY TO PREVENT NUISANCE ALARMS.

THE ROOM CONTROLLER ACCEPTS A DOOR SWITCH INPUT TO FREEZE THE SUPPLY AND EXHAUST CONTROL OUTPUTS WHILE THE DOOR IS OPEN. THE ROOM CONTROLLER WILL ALLOW FOR LONGER ALARM DELAYS WHEN THE DOOR IS OPEN.

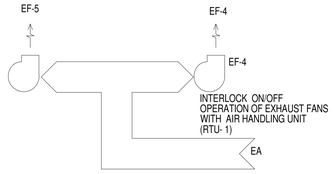
SUPPLY FLOW CONTROL SEQUENCE OF OPERATION

THE ROOM CONTROLLER SHALL MEASURES THE SUPPLY FLOW AND MODULATE THE VENTURI SUPPLY AND EXHAUST VALVES TO MAINTAIN DESIRED AIR SUPPLY CFMS AND ALARMS IF THE MEASURED FLOW FALLS OUTSIDE USER-DEFINED SETPOINTS. THE ROOM CONTROLLER SHALL MODULATES THE SUPPLY AIRFLOW TO MAINTAIN ROOM PRESSURE DIFFERENTIAL SETPOINT. EXHAUST VENTURI VALVES SHALL BE PROVIDED WITH ELECTRONIC FLOW FEEDBACK FOR FEEDBACK OF AIRFLOW TO THE PIC CONTROLLER . EACH VENTURI VALVE SHALL MAINTAIN PRESSURE INDEPENDENT CONTROL OF ITS FLOW SETPOINT WITHIN A DIFFERENTIAL PRESSURE RANGE OF 0.5" - 3.0" W.C. ACROSS THE VALVE. CONTROLLER SHALL SIMULTANEOUSLY REGULATE SUPPLY AND EXHAUST AIRFLOW OF ISOLATION AND ANTE ROOMS TO THEIR RESPECTIVE OFFSETS. ALARMS WILL ONLY SOUND AFTER A TIMED DELAY TO PREVENT NUISANCE ALARMS.

TEMPERATURE CONTROL SEQUENCE OF OPERATION

THE ROOM CONTROLLER SHALL ACCEPTS A MEASUREMENT OF ROOM TEMPERATURE. THE ROOM CONTROLLER WILL ALARM IF TEMPERATURE FALLS OUTSIDE USER-DEFINED SETPOINTS. ALARMS WILL ONLY SOUND AFTER A TIMED DELAY TO PREVENT NUISANCE ALARMS.

THE ROOM CONTROLLER SHALL MODULATE THE HEATING ELEMENT IN THE SUPPLY VENTURI VALVE TO MAINTAIN SPACE TEMPERATURE AT SETPOINT.



CONTROL DIAGRAM - EXHAUST FANS (EF-4 & EF-5)

SEQUENCE OF OPERATION

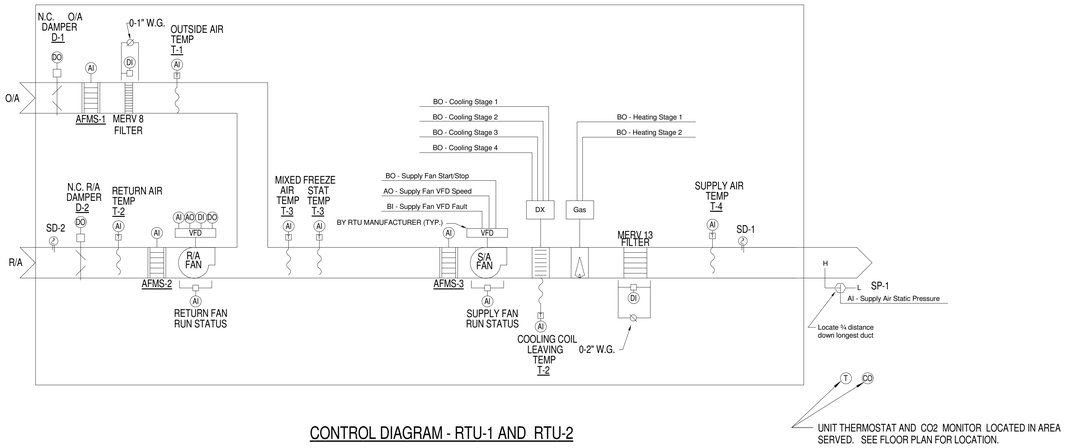
GENERAL

EXHAUST FANS EF-4 AND EF-5 SHALL OPERATE WITH A LEAD LAG-SEQUENCING CONTROLLER. SEQUENCE FANS TO OPERATE FOR 30 DAY (ADJUSTABLE) LEAD RUN TIME TO EQUALIZE FAN OPERATION.

THE CONTROLLER SHALL ENERGIZE THE LEAD FAN ON A "START" COMMAND. IF LEAD FAN FAILS TO PROOF ON WITHIN 1 MINUTE (ADJUSTABLE), LEAD FAN SHALL BE LOCKED OUT AND LAG FAN SHALL BE ENERGIZED.

SYSTEM PRESSURE CONTROL

EXHAUST SYSTEM PRESSURE SHALL BE CONTROLLED BY STATIC PRESSURE SENSOR SPS-1. SETPOINT SHALL BE SET BY BALANCE AGENT TO MAINTAIN SCHEDULED AIR FLOW (ADJUSTABLE). ON A RISE IN SYSTEM PRESSURE ABOVE SETPOINT, BYPASS DAMPER SHALL MODULATE OPEN. ON A FALL IN SYSTEM PRESSURE BELOW SETPOINT, BYPASS DAMPER SHALL MODULATE CLOSED.



CONTROL DIAGRAM - RTU-1 AND RTU-2

SEQUENCE OF OPERATION (SERVING MEDICAL AREA)

THE AIR HANDLING SYSTEM SHALL CONSISTS OF A SUPPLY AIR, OUTSIDE AIR AND RETURN AIR SECTION WITH OUTSIDE AIR DAMPERS, WITH A PRE-FILTER, A RETURN AIR SECTION WITH A PRE-FILTER AND A RETURN FAN, AND A FINAL FILTER AND SUPPLY FAN.

THE SUPPLY AND RETURN FAN SHALL BE PROVIDED WITH VARIABLE FREQUENCY DRIVES TO MAINTAIN CONSTANT AIRFLOW TO THE SPACE. THE OUTSIDE AIR INLET, RETURN FAN AND SUPPLY FAN INLET ARE PROVIDED WITH AIRFLOW MEASURING DEVICES TO PROVIDE AIRFLOW READINGS TO THE CONTROLLER.

THE AIR HANDLING UNITS ARE SCHEDULED FOR ON/OFF MODES. THE CONTROL SEQUENCE AND SAFETY MODES ARE AS FOLLOWS (ALL SUGGESTED SET POINTS AND SETTINGS ARE ADJUSTABLE.).

GENERAL

THE UNITS IS STARTED/STOPPED AUTOMATICALLY WHENEVER ANY ZONE IS OCCUPIED. WHEN THE UNIT IS OFF, THE OUTSIDE AIR DAMPER (D-1) AND THE RETURN AIR DAMPER (D-2) SHALL BE FULLY CLOSED. AND DAMPERS OPERATORS SHALL BE DDC CONTROLLED W/ELECTRONIC OPERATORS.

AIR HANDLER SHALL BE IN:
HEATING MODE W/ MIXED AIR TEMPERATURE (T-2) OF 54°F OR LOWER (ADJUSTIBLE)
COOLING MODE W/ MIXED AIR TEMPERATURE (T-2) OF 56°F OR HIGHER (ADJUSTIBLE)

AIR HANDLING UNIT

THE SYSTEM SHOULD RUN CONTINUOUSLY TO PROVIDE SUPPLY AIR TO HEALTH CARE AREA. WHEN THE UNIT IS COMMANDED TO START, OUTSIDE AIR DAMPER (D-1) AND RETURN AIR DAMPER (D-2) SHALL OPEN FULLY, CLOSING THE DAMPER END SWITCH, ALLOWING THE SUPPLY AND RETURN FANS TO OPERATE. THE RETURN FAN SPEED MODULATES TO MAINTAIN RETURN AIRFLOW RATE MEASURED AT AIRFLOW MEASURING STATION (AFMS-2).

THE FANS ARE STARTED WITH THE VARIABLE FREQUENCY CONTROLLERS AT MINIMUM SPEED. THE RETURN FAN IS INTERLOCKED THROUGH SOFTWARE TO RUN WHEN THE SUPPLY FAN RUNS.

ALL THE CONTROL ALGORITHMS ARE ALLOWED TO FUNCTION WHEN THE UNIT STARTS.

ALL VALVES AND DAMPERS SHALL RETURN TO THEIR NORMAL POSITION WHENEVER THE UNIT IS NOT IN OPERATION. THE CONTROLLER SHALL MODULATES THE HEATING FURNACE STAGES TO MAINTAIN 40 F AS MEASURED BY TEMPERATURE SENSOR (T-1) WHENEVER THE UNIT IS NOT IN OPERATION.

TEMPERATURE CONTROL

TEMPERATURE SENSOR (T-5), THROUGH THE CONTROLLER SHALL MODULATES THE DX CYCLE AND GAS HEATING STAGES TO MAINTAIN DESIRED FAN DISCHARGE AIR TEMPERATURE SETPOINT AS FOLLOWS:

COOLING STAGES
1. THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

2. THE COOLING SHALL BE ENABLED WHENEVER:
   - OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
   - AND THE ECONOMIZER (IF PRESENT) IS DISABLED OR FULLY OPEN.
   - AND THE SUPPLY FAN STATUS IS ON.
   - AND THE HEATING (IF PRESENT) IS NOT ACTIVE.

3. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   - HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.

GAS HEATING STAGES
1. THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

2. THE HEATING SHALL BE ENABLED WHENEVER:
   - OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
   - AND THE SUPPLY FAN STATUS IS ON.
   - AND THE COOLING (IF PRESENT) IS NOT ACTIVE.

3. THE HEATING STAGES SHALL RUN FOR FREEZE PROTECTION WHENEVER:
   - SUPPLY AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).
   - AND THE SUPPLY FAN STATUS IS ON.

4. ALARMS SHALL BE PROVIDED AS FOLLOWS:
LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) LESS THAN SETPOINT.

ECONOMIZER:
1. THE CONTROLLER SHALL MEASURE THE MIXED AIR TEMPERATURE AND MODULATE THE ECONOMIZER DAMPERS IN SEQUENCE TO MAINTAIN A SETPOINT 2°F (ADJ.) LESS THAN THE SUPPLY AIR TEMPERATURE SETPOINT. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION OF 20% (ADJ.) OPEN WHENEVER OCCUPIED.

2. THE ECONOMIZER SHALL BE ENABLED WHENEVER:
   - OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
   - AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE.
   - AND THE SUPPLY FAN STATUS IS ON.

3. THE ECONOMIZER SHALL CLOSE WHENEVER:
   - MIXED AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).
   - OR THE FREEZESTAT (IF PRESENT) IS ON.
   - OR ON LOSS OF SUPPLY FAN STATUS.

4. THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN WHEN THE UNIT IS OFF. IF OPTIMAL START UP IS AVAILABLE THE MIXED AIR DAMPER SHALL OPERATE AS DESCRIBED IN THE OCCUPIED MODE EXCEPT THAT THE OUTSIDE AIR DAMPER SHALL MODULATE TO FULLY CLOSED.

MINIMUM OUTSIDE AIR VENTILATION - FIXED PERCENTAGE
1. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION DURING BUILDING OCCUPIED HOURS AND BE CLOSED DURING UNOCCUPIED HOURS. CARBON DIOXIDE SENSOR IN SPACE SHALL MODULATE OUTDOOR AIR DAMPER AND RETURN FAN TO MAINTAIN CO2 CONCENTRATION LEVEL BELOW 1000 PPM (ADJUSTIBLE).

MIXED AIR TEMPERATURE
1. THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE THROUGH MIX AIR SENSOR (T-3) AND USE AS REQUIRED FOR ECONOMIZER CONTROL (IF PRESENT).

2. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   - HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
   - LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

RETURN AIR TEMPERATURE
1. THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE THROUGH RETURN AIR SENSOR (T-2) AND USE AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTROL (IF PRESENT).

2. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   - HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
   - LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

SUPPLY AIR TEMPERATURE:
1. THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE THROUGH SUPPLY AIR SENSOR (T-5).
2. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   - HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
   - LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

AIR FLOW CONTROL

MINIMUM OUTSIDE AND RETURN AIRFLOW IS MEASURED BY AIRFLOW MEASURING STATION AFMS-1 AND AFMS-2 RESPECTIVELY LOCATED IN THE OUTSIDE AND RETURN AIR INTAKE. AFMS-3 AND CONTROLLER MODULATES THE SUPPLY FAN VARIABLE FREQUENCY DRIVE TO MAINTAIN AIRFLOW SETPOINT.

FILTER ALARM

THE OUTSIDE AIR FILTRATION SYSTEM CONSISTS OF A MERV 7 FILTER. A PRESSURE TRANSMITTERS SHALL BE PROVIDED FOR THE FILTER.

THE CONTROLLER OPERATES A MAINTENANCE ALARM WHEN THE PRESSURE DROP ACROSS THE FILTER BEING MONITORED EXCEEDS THE MANUFACTURER MAXIMUM RECOMMENDED PRESSURE DROP FOR THE MEDIA PROVIDED AS MEASURED BY THE ANALOG PRESSURE TRANSMITTER.

FREEZE PROTECTION

FREEZESTAT SENSOR (T-4) SHALL STOPS THE OUTSIDE AIR FAN AND SENDS AN ALARM TO THE CONTROLLER WHEN IT SENSES 38 °F (ADJUSTABLE) AIR ENTERING THE COOLING COIL.

SMOKE DETECTION

A SUPPLY AND RETURN DUCT SMOKE DETECTOR (SD-1 AND SD-2) I SHALL BE PROVIDED IN THE AIR HANDLING UNIT SUPPLY AND RETURN SYSTEM. WHENEVER DUCT A SMOKE DETECTOR (HARDWIRED) SENSES PRODUCTS OF COMBUSTION, RTU-1 SHALL SHUT DOWN AND AN ALARM SHALL BE SIGNALLED TO THE FIRE ALARM SYSTEM AND AND THE CONTROLLER. THE SMOKE DETECTOR AND THE FIRE ALARM CONTROL PANEL MUST BE MANUALLY RESET BEFORE SYSTEM CAN RESTART. CONNECTIONS TO PANEL RTU-1 CONTROLLER SHALL BE MADE BY THE ATC CONTRACTOR AND CONNECTIONS TO THE FIRE ALARM SYSTEM SHALL BE MADE BY THE FIRE ALARM CONTRACTOR.

HIGH DUCT STATIC PRESSURE DETECTION

STATIC PRESSURE SWITCHES SP-1 AND SP-2 IN THE SUPPLY AND RETURN DUCTS SET TO STOP THE SUPPLY AND RETURN AND EXHAUST FANS IF THE DUCT PRESSURE EXCEEDS THE PRESSURE CLASSIFICATION OF THE DUCTWORK.

AUTOMATIC SHUTDOWN/RESTART

WHEN THE AIR HANDLING UNIT IS SHUT DOWN ON A POWER FAILURE. AND THE POWER IS RESTORED, IT IS TO BE RESTARTED THROUGH A SEQUENCE PROGRAM TO PREVENT OVERLOADING OF THE ELECTRICAL DISTRIBUTION SYSTEM.

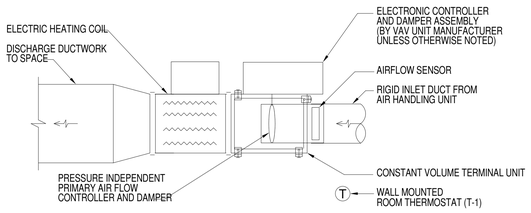
IF ANY SAFETY DEVICE SHUTS THE UNIT DOWN IT IS TO BE MANUALLY RESET.

EMERGENCY CONSTANT SPEED OPERATION

UPON FAILURE OF THE VFD THE FANS MAY BE STARTED/STOPPED MANUALLY THROUGH THE BYPASS STARTER AND THE FANS OPERATE SHALL AT FULL SPEED.

FANS STATUS

THE CONTROLLER SYSTEM USE A DIFFERENTIAL PRESSURE SENSOR INSTALLED ACROSS THE SUPPLY FAN, AND RETURN FAN TO CONFIRM THE FANS ARE IN THE DESIRED STATE (I.E. ON OR OFF) AND GENERATES AN ALARM IF STATUS DEVIATES FROM THE CONTROLLER START/STOP CONTROL.



CONTROL DIAGRAM - CONSTANT VOLUME TERMINAL UNIT WITH ELECTRIC REHEAT

SEQUENCE OF OPERATION

GENERAL

THE TERMINAL UNIT SHALL BE CONTROLLED BY THE LOCAL ZONE SENSOR (T-9).

WHEN IN THE COOLING MODE, THE PRIMARY AIR DAMPER SHALL MODULATE TO MAINTAIN DESIGN SUPPLY AIRFLOW RATES. UPON A FALL IN SPACE TEMPERATURE AT SPACE SENSOR T-1 THE ELECTRIC HEATING COIL SHALL ENERGIZE THROUGH STEP OR SCR CONTROL TO MAINTAIN SPACE TEMPERATURE SETPOINT.

ON A RISE IN SPACE TEMPERATURE AT SPACE SENSOR T-1, ELECTRIC HEATING COIL SHALL DE-ENERGIZE.

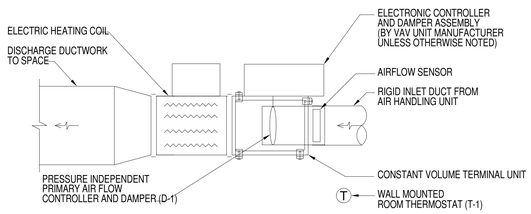
SEQUENCE OF OPERATION

GENERAL

THE TERMINAL UNIT SHALL BE CONTROLLED BY THE LOCAL ZONE SENSOR (T-1)

WHEN IN THE COOLING MODE, THE PRIMARY AIR DAMPER SHALL MODULATE TO MAINTAIN DESIGN SUPPLY AIRFLOW RATES. UPON A FALL IN SPACE TEMPERATURE AT SPACE SENSOR T-1 , THE ELECTRIC HEATING COIL SHALL ENERGIZE THROUGH STEP OR SCR CONTROL TO MAINTAIN SPACE TEMPERATURE SETPOINT.

ON A RISE IN SPACE TEMPERATURE AT SPACE SENSOR T-1 , ELECTRIC HEATING COIL SHALL DE-ENERGIZE.



CONTROL DIAGRAM - VARIBLE VOLUME TERMINAL UNIT WITH ELECTRIC REHEAT

SEQUENCE OF OPERATION

GENERAL

THE TERMINAL UNIT SHALL BE CONTROLLED BY THE LOCAL ZONE SENSOR (SEE FLOOR PLANS AND SCHEDULE FOR THE QUANTITY AND LOCATION OF EACH TYPE TERMINAL UNIT.

TERMINAL EQUIPMENT CONTROLLERS (TEC'S), AND DAMPER ACTUATORS SHALL BE FURNISHED AND INSTALLED BY THE ATC CONTRACTOR.

THE ATC CONTRACTOR SHALL PROVIDE 24V AC TRANSFORMERS AND WIRING TO THE TEC'S AS REQUIRED FOR OPERATION OF THE TEC'S AND EXTEND 120 VOLT CIRCUITS IDENTIFIED ON THE ELECTRICAL DRAWINGS FOR ATC USE TO LINE SIDE OF TRANSFORMERS.

SUPPLY TERMINAL UNITS AND REHEAT COILS SHALL BE CONTROLLED BY "OCCUPIED-UNOCCUPIED" FUNCTIONS OF THE LOCAL SENSOR. IN OCCUPIED MODE, UNITS AND COILS SHALL OPERATE AS DESCRIBED BELOW. IN UNOCCUPIED MODE, TERMINAL UNITS SHALL OPERATE AT MAXIMUM AIRFLOW.

EACH TEC FOR TERMINAL UNITS SHALL BE SUITABLE FOR PRESSURE INDEPENDENT OPERATION AND SHALL ALLOW MONITORING AND ADJUSTMENT OF SPACE TEMPERATURE AND TERMINAL UNIT AIR FLOW THROUGH THE DDC SYSTEM.

UPON A FALL IN SPACE TEMPERATURE SENSOR T-1 BELOW ITS SETPOINT IT SHALL MODULATE TERMINAL UNIT DAMPER D-1 TO REDUCE AIR FROM MAXIMUM TO MINIMUM FLOW. ON A FURTHER FALL, IT SHALL MODULATE DAMPER D-1 TO THE SCHEDULED HEATING AIR FLOW (MINIMUM FLOW) AND SEQUENTIALLY ENERGIZE EACH STAGE OF THE ELECTRIC REHEAT COIL AS REQUIRED. ON A RISE IN TEMPERATURE ABOVE THE SETPOINT THE REVERSE SHALL OCCUR AND THE ELECTRIC HEATING COIL SHALL DE-ENERGIZE.

ROOFTOP (RTU-1&2) SYSTEM INPUT/OUTPUT POINT SUMMARY

System Name:	ANALOG INPUTS			ANALOG OUT	DIGITAL INPUTS			DIGITAL OUT	SYSTEM FEATURES: ALARMS				PROGRAMS			
ROOFTOP UNIT (RTU-1&2)	TEMP (DRY BULB)	TEMP (WET BULB)	PRESSURE	VOLUME	CURRENT	RESET CAPABILITY	PRESSURE SWITCH	SWITCH CLOSURE	CURRENT SENSOR	CONTROL RELAY	EQUIPMENT STATUS	MAINTENANCE	CONTROL RELAY	HIGH LIMIT	LOW LIMIT	START/STOP	POINT HISTORY	POWER	TEMP. CONTROL	SUPPLY AIR RESET
POINT DESCRIPTION																				
SUPPLY AIR	■	■																		
RETURN AIR	■	■																		
MIXED AIR	■				■															
OUTDOOR AIR	■	■		■	■											■				
RELIEF AIR					■															
SUPPLY AIR FAN					■	■		■									■			■
RETURN AIR FAN					■	■		■												
HEATING FURNACE					■									■						
COOLING COIL					■			■												
SMOKE DETECTOR (TYP OF 2)								■		■										
–																				

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
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SIDHU ASSOCIATES, INC. Consulting Engineers
KRKUTSOV PLAZA III, SUITE 1000 11350 McCORMICK ROAD HUNT VALLEY, MARYLAND 21031 PHONE (410) 329-1115
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R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

SEAL

STATE OF MARYLAND
CHESTER W. CHEN
13481
PROFESSIONAL ENGINEER
43481
05/15/2015

KEY PLAN

SCALE

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

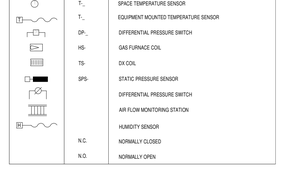
TITLE

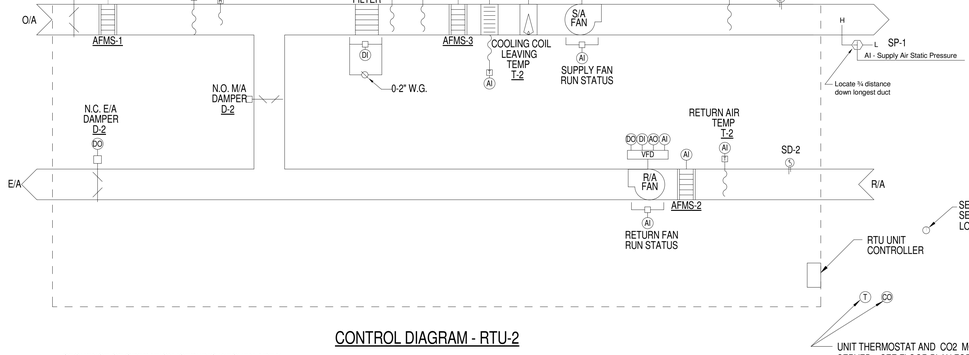
MECHANICAL - AUTOMATIC CONTROL DIAGRAMS

PSA-DEWBERRY PROJECT NO.	Project Number
DPSCS CONTRACT NO.	KT-000-150-C01

MO180

SHEET NO.





CONTROL DIAGRAM - RTU-2

SEQUENCE OF OPERATION (SERVING KITCHEN AREA)

THE AIR HANDLING SYSTEM SHALL CONSISTS OF A SUPPLY AIR, OUTSIDE AIR, RELIEF AIR AND RETURN AIR SECTIONS WITH OUTSIDE AIR AND RELIEF AIR DAMPERS. A RETURN AIR SECTION WITH A RETURN FAN, AND A MERV 7 FILTER AND SUPPLY FAN.

THE SUPPLY AND RETURN FAN SHALL BE PROVIDED TO MAINTAIN CONSTANT AIRFLOW TO THE SPACE. THE OUTSIDE AIR INLET, RETURN FAN AND SUPPLY FAN INLET ARE PROVIDED WITH AIRFLOW MEASURING DEVICES TO PROVIDE AIRFLOW READINGS TO THE CONTROLLER.

THE AIR HANDLING UNITS ARE SCHEDULED FOR ON/OFF MODES. THE CONTROL SEQUENCE AND SAFETY MODES ARE AS FOLLOWS (ALL SUGGESTED SET POINTS AND SETTINGS ARE ADJUSTABLE.).

GENERAL

THE UNITS CONTROLLER SHALL START AUTOMATICALLY IN OCCUPIED MODE. AND DEENERGIZED IN THE UNOCCUPIED MODE AS PROGRAMMED. WHEN THE UNIT IS OFF. THE OUTSIDE AIR DAMPER (D-1) AND THE RETURN AIR DAMPER (D-2) SHALL BE FULLY CLOSED. VALVES AND DAMPER OPERATORS SHALL BE DDC CONTROLLED W/ELECTRONIC OPERATORS.

AIR HANDLER SHALL BE IN:
HEATING MODE W/ MIXED AIR TEMPERATURE (T-2) OF 54°F OR LOWER (ADJUSTIBLE)
COOLING MODE W/ MIXED AIR TEMPERATURE (T-2) OF 56°F OR HIGHER (ADJUSTIBLE)

AIR HANDLING UNIT

THE SYSTEM SHALL RUN CONTINUOUSLY TO PROVIDE SUPPLY AIR TO THE KITCHEN AREA. WHEN THE UNIT IS COMMANDED TO START, OUTSIDE AIR DAMPER (D-1) AND RETURN AIR DAMPER (D-2) SHALL OPEN FULLY. CLOSING THE DAMPER END SWITCH, ALLOWING THE SUPPLY AND RETURN FANS TO OPERATE. THE RETURN FAN SPEED SHALL MODULATE TO MAINTAIN RETURN AIRFLOW RATE MEASURED AT AIRFLOW MEASURING STATION (AFMS-2).

THE RETURN FAN IS INTERLOCKED THROUGH SOFTWARE TO RUN WHEN THE SUPPLY FAN RUNS.

ALL THE CONTROL ALGORITHMS ARE ALLOWED TO FUNCTION WHEN THE UNIT STARTS.

ALL VALVES AND DAMPERS SHALL RETURN TO THEIR NORMAL POSITION WHENEVER THE UNIT IS NOT IN OPERATION. THE CONTROLLER SHALL MODULATES THE HEATING FURNACE STAGES TO MAINTAIN 40 F AS MEASURED BY TEMPERATURE SENSOR (T-1) WHENEVER THE UNIT IS NOT IN OPERATION.

TEMPERATURE CONTROL

TEMPERATURE SENSOR (T-5), THROUGH THE CONTROLLER SHALL MODULATES THE DX CYCLE AND GAS HEATING STAGES TO MAINTAIN DESIRED FAN DISCHARGE AIR TEMPERATURE SETPOINT AS FOLLOWS:

COOLING STAGES
1. THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

2. THE COOLING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- AND THE ECONOMIZER (IF PRESENT) IS DISABLED OR FULLY OPEN.
- AND THE SUPPLY FAN STATUS IS ON.
- AND THE HEATING IS NOT ACTIVE.

3. ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.

GAS HEATING STAGES
1. THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

2. THE HEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE SUPPLY FAN STATUS IS ON.
- AND THE COOLING (IF PRESENT) IS NOT ACTIVE.

3. THE HEATING STAGES SHALL RUN FOR FREEZE PROTECTION WHENEVER:
- SUPPLY AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).
- AND THE SUPPLY FAN STATUS IS ON.

4. ALARMS SHALL BE PROVIDED AS FOLLOWS:
LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) LESS THAN SETPOINT.

ECONOMIZER:
1. THE CONTROLLER SHALL MEASURE THE MIXED AIR TEMPERATURE AND MODULATE THE ECONOMIZER DAMPERS IN SEQUENCE TO MAINTAIN A SETPOINT 2°F (ADJ.) LESS THAN THE SUPPLY AIR TEMPERATURE SETPOINT. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION OF 20% (ADJ.) OPEN WHENEVER OCCUPIED.

2. THE ECONOMIZER SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR ENTHALPY IS LESS THAN CHANGE OVERSET POINT.
- AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE.
- AND THE SUPPLY FAN STATUS IS ON.

3. THE ECONOMIZER SHALL CLOSE WHENEVER:
- MIXED AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).
- OR THE FREEZESTAT (IF PRESENT) IS ON.
- OR ON LOSS OF SUPPLY FAN STATUS.

4. THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN WHEN THE UNIT IS OFF. IF OPTIMAL START UP IS AVAILABLE THE MIXED AIR DAMPER SHALL OPERATE AS DESCRIBED IN THE OCCUPIED MODE EXCEPT THAT THE OUTSIDE AIR DAMPER SHALL MODULATE TO FULLY CLOSED.

MINIMUM OUTSIDE AIR VENTILATION - FIXED PERCENTAGE
1. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION DURING BUILDING OCCUPIED HOURS AND BE CLOSED DURING UNOCCUPIED HOURS. CARBON DIOXIDE SENSOR IN SPACE SHALL MODULATE OUTDOOR AIR DAMPER AND RETURN FAN TO MAINTAIN CO2 CONCENTRATION LEVEL BELOW 1000 PPM (ADJUSTIBLE).

MIXED AIR TEMPERATURE
1. THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE THROUGH MIX AIR SENSOR (T-3) AND USE AS REQUIRED FOR ECONOMIZER CONTROL (IF PRESENT).

2. ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
- LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

RETURN AIR TEMPERATURE
1. THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE THROUGH RETURN AIR SENSOR (T-2) AND USE AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTROL (IF PRESENT).

2. ALARMS SHALL BE PROVIDED AS FOLLOWS;
- HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
- LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

SUPPLY AIR TEMPERATURE:
1. THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE THROUGH SUPPLY AIR SENSOR (T-5).

2. ALARMS SHALL BE PROVIDED AS FOLLOWS;
- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

MORNING WARM-UP / COOL-DOWN

ONCE THE CONTROLLER IS OCCUPIED IT WILL ENTER THE MORNING WARM-UP MODE IF THE SPACE TEMPERATURE IS BELOW SETPOINT. IF THE SPACE TEMPERATURE IS ABOVE OCUPIED MODE COOL-DOWN SETPOINT, IT WILL ENTER THE COOL-DOWN MODE

DURING MORNING WARM-UP, GAS HEATING SECTION CONTROL VALVE MODULATE TO RAISE THE SPACE AIR TEMPERATURE TO SETPOINT MORNING WARM-UP SETPOINT.

DURING MORNING COOL-DOWN, COOLING SHALL BE MODULATING AND/OR STAGED TO MAINTAIN THE SPACE COOLING SETPOINT. THE OUTSIDE AIR DAMPER WILL REMAIN CLOSED AND THE EXHAUST FAN AND HEAT WHEEL IS OFF. THIS MODE WILL CONTINUE UNTIL THE SPACE OCCUPIED SETPOINT IS REACHED OR THE TWO-HOUR TIMER EXPIRES.

DEHUMIDIFICATION MODE

THE DEHUMIDIFICATION MODE WILL BE ENABLED WHEN THE RETURN AIR DEWPOINT RISES ABOVE THE DEHUMIDIFICATION SETPOINT PLUS HYSTERESIS. DURING THE DEHUMIDIFICATION MODE, THE DDC CONTROLLER WILL MODULATE AND/OR STAGE COOLING TO MAINTAIN THE RETURN AIR DEWPOINT AT THE DEHUMIDIFICATION SETPOINT. THE DEHUMIDIFICATION MODE WILL REMAIN ACTIVE UNTIL THE RETURN AIR DEWPOINT FALLS BELOW THE RETURN AIR DEHUMIDIFICATION SETPOINT MINUS HYSTERESIS. REHEAT WILL BE MODULATED AND/OR STAGED TO MAINTAIN THE SUPPLY AIR COOLING SETPOINT MINUS 1°F.

AIR FLOW CONTROL

MINIMUM OUTSIDE AND RETURN AIRFLOW IS MEASURED BY AIRFLOW MEASURING STATION AFMS-1 AND AFMS-2 RESPECTIVELY LOCATED IN THE OUTSIDE AND RETURN AIR INTAKE. AFMS-3 AND CONTROLLER MODULATES THE SUPPLY FAN VARIABLE FREQUENCY DRIVE TO MAINTAIN AIRFLOW SETPOINT.

FILTER ALARM

THE OUTSIDE AIR FILTRATION SYSTEM CONSISTS OF A MERV 8 FILTER. A PRESSURE TRANSMITTERS SHALL BE PROVIDED FOR THE FILTER.

THE CONTROLLER OPERATES A MAINTENANCE ALARM WHEN THE PRESSURE DROP ACROSS THE FILTER BEING MONITORED EXCEEDS THE MANUFACTURER MAXIMUM RECOMMENDED PRESSURE DROP FOR THE MEDIA PROVIDED AS MEASURED BY THE ANALOG PRESSURE TRANSMITTER.

FREEZE PROTECTION

FREEZESTAT SENSOR (T-4) SHALL STOPS THE OUTSIDE AIR FAN AND SENDS AN ALARM TO THE CONTROLLER WHEN IT SENSES 38 °F (ADJUSTABLE) AIR ENTERING THE COOLING COIL.

SMOKE DETECTION

A SUPPLY AND RETURN DUCT SMOKE DETECTOR (SD-1 AND SD-2) I SHALL BE PROVIDED IN THE AIR HANDLING UNIT SUPPLY AND RETURN SYSTEM. WHENEVER DUCT A SMOKE DETECTOR (HARDWIRED) SENSES PRODUCTS OF COMBUSTION, RTU-1 SHALL SHUT DOWN AND AN ALARM SHALL BE SIGNALLED TO THE FIRE ALARM SYSTEM AND AND THE CONTROLLER. THE SMOKE DETECTOR AND THE FIRE ALARM CONTROL PANEL MUST BE MANUALLY RESET BEFORE SYSTEM CAN RESTART. CONNECTIONS TO PANEL RTU-1 CONTROLLER SHALL BE MADE BY THE ATC CONTRACTOR AND CONNECTIONS TO THE FIRE ALARM SYSTEM SHALL BE MADE BY THE FIRE ALARM CONTRACTOR.

HIGH DUCT STATIC PRESSURE DETECTION

STATIC PRESSURE SWITCHES SP-1 AND SP-2 IN THE SUPPLY AND RETURN DUCTS SET TO STOP THE SUPPLY AND RETURN AND EXHAUST FANS IF THE DUCT PRESSURE EXCEEDS THE PRESSURE CLASSIFICATION OF THE DUCTWORK.

AUTOMATIC SHUTDOWN/RESTART

WHEN THE AIR HANDLING UNIT IS SHUT DOWN ON A POWER FAILURE AND THE POWER IS RESTORED, IT IS TO BE RESTARTED THROUGH A SEQUENCE PROGRAM TO PREVENT OVERLOADING OF THE ELECTRICAL DISTRIBUTION SYSTEM.

IF ANY SAFETY DEVICE SHUTS THE UNIT DOWN IT IS TO BE MANUALLY RESET.

EMERGENCY CONSTANT SPEED OPERATION

UPON FAILURE OF THE VFD THE FANS MAY BE STARTED/STOPPED MANUALLY THROUGH THE BYPASS STARTER AND THE FANS SHALL OPERATE AT FULL SPEED.

FANS STATUS

THE CONTROLLER SYSTEM SHALL USE A DIFFERENTIAL PRESSURE SENSOR INSTALLED ACROSS THE SUPPLY FAN AND RETURN FAN TO CONFIRM THE FANS ARE IN THE DESIRED STATE (I.E. ON OR OFF) AND GENERATES AN ALARM IF STATUS DEVIATES FROM THE CONTROLLER START/STOP CONTROL.

AIR HANDLING UNIT (AHU–1) SYSTEM INPUT/OUTPUT POINT SUMMARY

System Name:	ANALOG INPUTS			ANALOG OUT		DIGITAL INPUTS			DIGITAL OUT	SYSTEM FEATURES ALARMS				SYSTEM FEATURES PROGRAMS				
AIR–HANDLING UNIT (AHU–A)	TEMP (DRY BULB)	TEMP (WET BULB)	PRESSURE	VOLUME	CURRENT RESET CAPABILITY	PRESSURE SWITCH	SWITCH CLOSURE	CURRENT SENSOR	CONTROL RELAY	EQUIPMENT STATUS	MAINTENANCE	CONTACT RELAY	HIGH LIMIT	LOW LIMIT	START/STOP	RUN HISTORY	ECONOMIZER	TEMP. CONTROL	SUPPLY AIR RESET
POINT DESCRIPTION																			
SUPPLY AIR	■		■																
RETURN AIR	■																		
MIXED AIR	■				■														
OUTDOOR AIR	■		■		■												■		
RELIEF AIR					■														
SUPPLY AIR FAN					■		■		■						■				■
RETURN AIR FAN					■		■												
HEATING FURNACE					■										■				
COOLING COIL					■		■												
SMOKE DETECTOR (TYP OF 2)							■				■								
–																			

CONTROL DIAGRAM - EXHAUST FANS (EF-2 & SF-4)

SEQUENCE OF OPERATION

GENERAL

INTERLOCK ON/OFF OPERATION OF EXHAUST FAN EF-2 WITH MAU SUPPLY AIR FAN.

SEQUENCE OF OPERATION FOR KITCHEN VENTILATION SYSTEM:

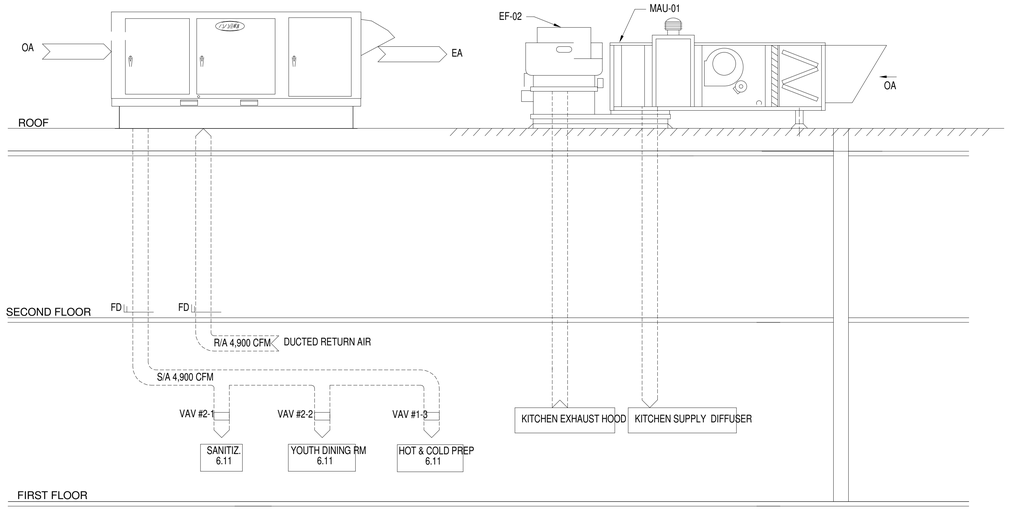
1. WHEN MANUAL ON-OFF SWITCH FOR KITCHEN HOOD IS INDEXED TO ON POSITION, MAKE-UP AIR UNIT (MAU-01) OUTDOOR AIR DAMPER SHALL OPEN FULLY. WHEN THE DAMPER IS FULLY OPEN AS SENSED BY THE END SWITCH, THE MAKE-UP AIR SUPPLY AIR FAN, ELECTRICAL GAS SOLENOID SHUT-OFF VALVE TO APPLIANCE SHALL OPEN, AND KITCHEN HOOD EXHAUST FAN SHALL BE ENERGIZED. GENERAL KITCHEN VENTILATION FAN SHALL BE DE-ENERGIZED . WHEN THE OUTDOOR AIR TEMPERATURE SENSES ABOVE ITS TEMPERATURE SETTING OF 55 DEG F(ADJASTABLE), AIR FLOW SWITCH PROVES AIR FLOW THRU MAU-01 HEATING SECTION, GAS CONTROL VALVE SHALL BE ENABLED. DISCHARGE AIR TEMPERATURE CONTROLLER SHALL MODULATE THE GAS HEATING CONTROL VALVE TO MAINTAIN DISCHARGE TEMPERATURE SETTING OF 65 DEG F(ADJASTABLE). IN THIS MODE, GAS SUPPLY TO APPLIANCES UNDER THE HOOD SHALL REMAIN ON.

2. WHEN MANUAL ON-OFF SWITCH FOR KITCHEN HOOD IS INDEXED TO OFF POSITION, MAKE-UP AIR UNIT (MAU-01)SUPPLY AIR FAN AND EXHAUST FAN SHALL BE DE-ENERGIZED. KITCHEN GENERAL VENTILATION FAN SHALL BE ENERGIZED. MAU-01 OUTDOOR AIR INTAKE DAMPER SHALL CLOSE. I N THIS MODE, GAS SUPPLY TO APPLIANCES UNDER THE HOOD SHALL REMAIN OFF.

3. WHEN KITCHEN HOOD EXTINGUISHING SYSTEM IS ACTIVATED, HOOD EXHAUST FAN SHALL CONTINUE TO OPERATE AS IN PARAGRAGH 1 ABOVE. MAKE- UP AIR UNIT SUPPLY FAN SHALL BE DE-ENERGIZED. OUTDOOR AIR DAMPER SHALL CLOSE FULLY. GAS SOLENOID VALVE FOR APPLIANCES SHALL CLOSE. ELECTRICAL SUPPLY TO AIPPLIANCES SHALL SHUT-OFF. IF THE HOOD EXHAUST FAN AND APPLIANCES UNDER THE HOOD HAVE BEEN DE-ENERGIZED PRIOR TO ACTIVATION OF EXTINGUISHING SYSTEM, HOOD EXHAUST FAN SHALL NOT BE REQUIRED TO BE ENERGIZED.

4. INTERLOCK GAS SOLENOID VALVE WITH HOOD EXHAUST FAN SO HAT APPLIANCES UNDER HOOD CANNOT BE ENERGIZED UNLESS HOOD EXHAUST FAN IS WORKING.

SAFETY:
WHEN SUPPLY AIR FAN IS RUNNING, DIFFERENTIAL AIR PRESSURE TRANSMITTER SHALL SIGNAL ALARM WHEN LOW AND HIGH-PRESSURE CONDITONS EXIST.



MINIMUM OUTSIDE AIR VENTILATION - FIXED PERCENTAGE
1. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION DURING BUILDING OCCUPIED HOURS AND BE CLOSED DURING UNOCCUPIED HOURS.

EBA ENGINEERING
HOPE FURRER Associates, Inc.
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TERRALOGOS
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS
BCDC YOUTH DETENTION CENTER
BALTIMORE MARYLAND

SEAL

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LICENSE NO. 43481
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STATE OF MARYLAND · GREGORY W. OWEN · 43481 · PROFESSIONAL ENGINEER

KEY PLAN

SCALE

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

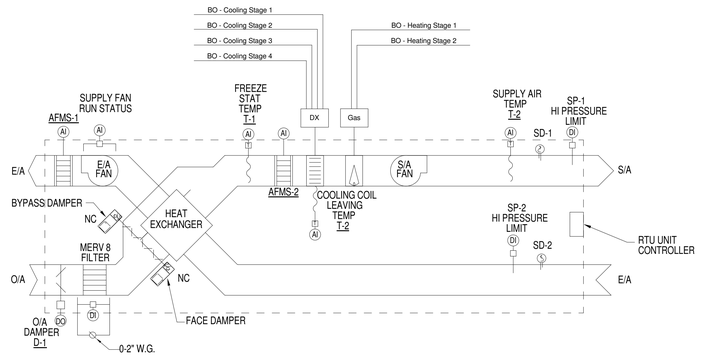
TITLE

MECHANICAL - AUTOMATIC CONTROL DIAGRAMS

PSA-DEWBERRY PROJECT NO. Project Number
DPSCS CONTRACT NO. KT-000-150-C01

MO181

SHEET NO.



AUTOMATIC TEMPERATURE CONTROL LEGEND

SYMBOL	ABBREV	DESCRIPTION
	SD-_	SMOKE DETECTOR
	D-_	CONTROL DAMPER
	T-_	SPACE TEMPERATURE SENSOR
	T-_	EQUIPMENT MOUNTED TEMPERATURE SENSOR
	DP-_	DIFFERENTIAL PRESSURE SWITCH
	HS-	GAS FURNACE COIL
	TS-	DX COIL
	SPS-	STATIC PRESSURE SENSOR
		DIFFERENTIAL PRESSURE SWITCH
		AIR FLOW MONITORING STATION
	N.C.	NORMALLY CLOSED
	N.O.	NORMALLY OPEN

CONTROL DIAGRAM - RTU-3

SEQUENCE OF OPERATION (SERVING SECOND FLOOR OUTDOOR AIR)

AIR HANDLING UNIT (AHU-3) SHALL BE PROVIDED WITH A DDC CONTROLLER WHICH SHALL MONITOR AND CONTROL THE UNIT IN A STAND-ALONE. THE CONTROLLER SHALL BE FACTORY PROGRAMMED, MOUNTED, AND TESTED. CONTROLLER SHALL HAVE A USER TERMINAL WITH LCD READOUT FOR CHANGING SET POINTS AND MONITORING UNIT OPERATION.

THE BUILDING AUTOMATION SYSTEM SHALL INTERFACE INTO FACTORY MOUNTED CONTROLS TO ALLOW FOR CHANGING OF SETPOINTS, MONITORING OF ALARMS, AND CHANGING FROM OCCUPIED TO UNOCCUPIED MODES.

THE ROOFTOP UNIT ARE SCHEDULED FOR ON/OFF MODES. THE CONTROL SEQUENCE AND SAFETY MODES ARE AS FOLLOWS (ALL SUGGESTED SET POINTS AND SETTINGS ARE ADJUSTABLE.).

GENERAL

THE UNIT IS STARTED/STOPPED AUTOMATICALLY WHENEVER ANY ZONE IS OCCUPIED. WHEN THE UNIT IS OFF, THE OUTSIDE AIR DAMPER (D-1) AND THE RETURN AIR DAMPER (D-2) SHALL BE FULLY CLOSED. AND DAMPERS OPERATORS SHALL BE DDC CONTROLLED W/ELECTRONIC OPERATORS.

AIR HANDLER SHALL BE IN:
HEATING MODE W/ MIXED AIR TEMPERATURE (T-2) OF 54°F OR LOWER (ADJUSTIBLE)
COOLING MODE W/ MIXED AIR TEMPERATURE (T-2) OF 56°F OR HIGHER (ADJUSTIBLE)

AIR HANDLING UNIT

THE SYSTEM SHOULD RUN CONTINUOUSLY TO PROVIDE SUPPLY AIR. WHEN THE UNIT IS COMMANDED TO START, OUTSIDE AIR DAMPER (D-1) SHALL OPEN FULLY, CLOSING THE DAMPER END SWITCH, ALLOWING THE SUPPLY AND EXHAUST AIR FANS TO OPERATE.

ALL THE CONTROL ALGORITHMS ARE ALLOWED TO FUNCTION WHEN THE UNIT STARTS.

ALL VALVES AND DAMPERS SHALL RETURN TO THEIR NORMAL POSITION WHENEVER THE UNIT IS NOT IN OPERATION. THE CONTROLLER SHALL MODULATES THE HEATING FURNACE STAGES TO MAINTAIN 40 F AS MEASURED BY TEMPERATURE SENSOR (T-1) WHENEVER THE UNIT IS NOT IN OPERATION.

TEMPERATURE CONTROL

TEMPERATURE SENSOR (T-5), THROUGH THE CONTROLLER SHALL MODULATES THE DX CYCLE AND GAS HEATING STAGES TO MAINTAIN DESIRED FAN DISCHARGE AIR TEMPERATURE SETPOINT AS FOLLOWS:

COOLING STAGES

1. THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

2. THE COOLING SHALL BE ENABLED WHENEVER:
   - OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
   - AND THE SUPPLY FAN STATUS IS ON.
   - AND THE HEATING IS NOT ACTIVE.

3. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   - HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.

GAS HEATING STAGES
1. THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

2. THE HEATING SHALL BE ENABLED WHENEVER:
   - OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
   - AND THE SUPPLY FAN STATUS IS ON.
   - AND THE COOLING (IF PRESENT) IS NOT ACTIVE.

3. THE HEATING STAGES SHALL RUN FOR FREEZE PROTECTION WHENEVER:
   - SUPPLY AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).
   - AND THE SUPPLY FAN STATUS IS ON.

4. ALARMS SHALL BE PROVIDED AS FOLLOWS:
LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) LESS THAN SETPOINT.

SUPPLY AIR TEMPERATURE:
1. THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE THROUGH SUPPLY AIR SENSOR (T-3).

2. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   - HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
   - LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

AIR FLOW CONTROL

MINIMUM OUTSIDE AND EXHAUST AIRFLOW SHALL BE MEASURED BY AIRFLOW MEASURING STATION AFMS-1 AND AFMS-2 RESPECTIVELY LOCATED IN THE OUTSIDE AND EXHAUST AIR INTAKE.

FILTER ALARM

THE OUTSIDE AIR FILTRATION SYSTEM CONSISTS OF A MERV 8 FILTER. A PRESSURE TRANSMITTERS SHALL BE PROVIDED FOR THE FILTER.

THE CONTROLLER OPERATES A MAINTENANCE ALARM WHEN THE PRESSURE DROP ACROSS THE FILTER BEING MONITORED EXCEEDS THE MANUFACTURER MAXIMUM RECOMMENDED PRESSURE DROP FOR THE MEDIA PROVIDED AS MEASURED BY THE ANALOG PRESSURE TRANSMITTER.

FREEZE PROTECTION

FREEZESTAT SENSOR (T-1) SHALL STOPS THE OUTSIDE AIR FAN AND SENDS AN ALARM TO THE CONTROLLER WHEN IT SENSES 38 °F (ADJUSTABLE) AIR ENTERING THE COOLING COIL.

SMOKE DETECTION

A SUPPLY AND RETURN DUCT SMOKE DETECTOR (SD-1 AND SD-2) I SHALL BE PROVIDED IN THE AIR HANDLING UNIT SUPPLY AND RETURN SYSTEM. WHENEVER DUCT A SMOKE DETECTOR (HARDWIRED) SENSES PRODUCTS OF COMBUSTION, RTU-3 SHALL SHUT DOWN AND AN ALARM SHALL BE SIGNALLED TO THE FIRE ALARM SYSTEM AND AND THE CONTROLLER. THE SMOKE DETECTOR AND THE FIRE ALARM CONTROL PANEL MUST BE MANUALLY RESET BEFORE SYSTEM CAN RESTART. CONNECTIONS TO PANEL RTU-1 CONTROLLER SHALL BE MADE BY THE ATC CONTRACTOR AND CONNECTIONS TO THE FIRE ALARM SYSTEM SHALL BE MADE BY THE FIRE ALARM CONTRACTOR.

HIGH DUCT STATIC PRESSURE DETECTION

STATIC PRESSURE SWITCHES SP-1 AND SP-2 IN THE SUPPLY AND EXHAUST DUCTS SET TO STOP THE SUPPLY AND EXHAUST FANS IF THE DUCT PRESSURE EXCEEDS THE PRESSURE CLASSIFICATION OF THE DUCTWORK.

AUTOMATIC SHUTDOWN/RESTART

WHEN THE AIR HANDLING UNIT IS SHUT DOWN ON A POWER FAILURE AND THE POWER IS RESTORED, IT IS TO BE RESTARTED THROUGH A SEQUENCE PROGRAM TO PREVENT OVERLOADING OF THE ELECTRICAL DISTRIBUTION SYSTEM.

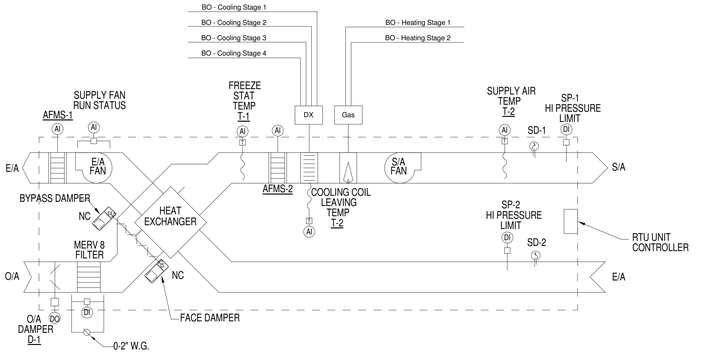
IF ANY SAFETY DEVICE SHUTS THE UNIT DOWN IT IS TO BE MANUALLY RESET.

FANS STATUS

THE CONTROLLER SYSTEM SHALL USE A DIFFERENTIAL PRESSURE SENSOR INSTALLED ACROSS THE SUPPLY FAN AND EXHAUST FAN TO CONFIRM THE FANS ARE IN THE DESIRED STATE (I.E. ON OR OFF) AND GENERATES AN ALARM IF STATUS DEVIATES FROM THE CONTROLLER START/STOP CONTROL.

SYSTEM INPUT / OUTPUT POINT SUMMARY

System Name:	ANALOG INPUTS			ANALOG OUT		DIGITAL INPUTS				DIGITAL OUT			SYSTEM FEATURES ALARMS					PROGRAMS			
RTU-3	TEMPERATURE	PARTS PER MILLION	AIRFLOW	CURRENT	RESET CAPABILITY	MONITOR SYSTEM	SWITCH CLOSURE	CURRENT SENSOR	OPEN-CLOSE	CONTROL SYSTEM ON-OFF	EQUIPMENT STATUS	MAINTENANCE	CRITICAL	HIGH LIMIT	LOW LIMIT	START/STOP	POINT HISTORY	RUNTIME	OUTPUT TO EQUIPMENT	INPUT FROM EQUIP.
POINT DESCRIPTION																				
SUPPLY AIR TEMPERATURE	X												X	X						X
SUPPLY AIR DEWPOINT																				X
OA FACE/BYPASS DAMPER POSIT.									X											X
EXHAUST AIR TEMPERATURE	X																			X
RETURN AIR DAMPER POSITION									X											X
OUTSIDE AIR TEMPERATURE	X																			X
SUPPLY FAN								X												X
EXHAUST FAN								X												X
GENERAL ALARM																				X
OCCUPIED/UNOCCUPIED																				X
SMOKE DETECTOR (TYP OF 2)							X						X							X
SUPPLY AIRFLOW		X																		X
EXHAUST AIRFLOW		X																		X
CO2 SENSOR	X																			X



CONTROL DIAGRAM - RTU-4

SEQUENCE OF OPERATION (SERVING SECOND FLOOR OUTDOOR AIR)

ROOF TOP UNIT (RTU-4) SHALL BE PROVIDED WITH A DDC CONTROLLER WHICH SHALL MONITOR AND CONTROL THE UNIT IN A STAND-ALONE. THE CONTROLLER SHALL BE FACTORY PROGRAMMED, MOUNTED, AND TESTED. CONTROLLER SHALL HAVE A USER TERMINAL WITH LCD READOUT FOR CHANGING SET POINTS AND MONITORING UNIT OPERATION.

THE BUILDING AUTOMATION SYSTEM SHALL INTERFACE INTO FACTORY MOUNTED CONTROLS TO ALLOW FOR CHANGING OF SETPOINTS, MONITORING OF ALARMS, AND CHANGING FROM OCCUPIED TO UNOCCUPIED MODES.

THE ROOFTOP UNIT ARE SCHEDULED FOR ON/OFF MODES. THE CONTROL SEQUENCE AND SAFETY MODES ARE AS FOLLOWS (ALL SUGGESTED SET POINTS AND SETTINGS ARE ADJUSTABLE.).

GENERAL

THE UNIT IS STARTED/STOPPED AUTOMATICALLY WHENEVER ANY ZONE IS OCCUPIED. WHEN THE UNIT IS OFF, THE OUTSIDE AIR DAMPER (D-1) AND THE RETURN AIR DAMPER (D-2) SHALL BE FULLY CLOSED. AND DAMPERS OPERATORS SHALL BE DDC CONTROLLED W/ELECTRONIC OPERATORS.

AIR HANDLER SHALL BE IN:
HEATING MODE W/ MIXED AIR TEMPERATURE (T-2) OF 54°F OR LOWER (ADJUSTIBLE)
COOLING MODE W/ MIXED AIR TEMPERATURE (T-2) OF 56°F OR HIGHER (ADJUSTIBLE)

AIR HANDLING UNIT

THE SYSTEM SHOULD RUN CONTINUOUSLY TO PROVIDE SUPPLY AIR. WHEN THE UNIT IS COMMANDED TO START, OUTSIDE AIR DAMPER (D-1) SHALL OPEN FULLY, CLOSING THE DAMPER END SWITCH, ALLOWING THE SUPPLY AND EXHAUST AIR FANS TO OPERATE.

ALL THE CONTROL ALGORITHMS ARE ALLOWED TO FUNCTION WHEN THE UNIT STARTS.

ALL VALVES AND DAMPERS SHALL RETURN TO THEIR NORMAL POSITION WHENEVER THE UNIT IS NOT IN OPERATION. THE CONTROLLER SHALL MODULATES THE HEATING FURNACE STAGES TO MAINTAIN 40 F AS MEASURED BY TEMPERATURE SENSOR (T-1) WHENEVER THE UNIT IS NOT IN OPERATION.

TEMPERATURE CONTROL

TEMPERATURE SENSOR (T-5), THROUGH THE CONTROLLER SHALL MODULATES THE DX CYCLE AND GAS HEATING STAGES TO MAINTAIN DESIRED FAN DISCHARGE AIR TEMPERATURE SETPOINT AS FOLLOWS:

COOLING STAGES

1. THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

2. THE COOLING SHALL BE ENABLED WHENEVER:
   - OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
   - AND THE SUPPLY FAN STATUS IS ON.
   - AND THE HEATING IS NOT ACTIVE.

3. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   - HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.

GAS HEATING STAGES
1. THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

2. THE HEATING SHALL BE ENABLED WHENEVER:
   - OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
   - AND THE SUPPLY FAN STATUS IS ON.
   - AND THE COOLING (IF PRESENT) IS NOT ACTIVE.

3. THE HEATING STAGES SHALL RUN FOR FREEZE PROTECTION WHENEVER:
   - SUPPLY AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).
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SUPPLY AIR TEMPERATURE:
1. THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE THROUGH SUPPLY AIR SENSOR (T-3).

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AIR FLOW CONTROL

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SMOKE CONTROL

UPON ACTIVATION OF THE SMOKE CONTROL SYSTEM, RTU-4 CONTROLLER SHALL SHUT DOWN THE SUPPLY AIR FAN. THE UNIT EXHAUST AIR FAN SHALL CONTINUE TO OPERATE UNTIL THE UNIT IS MANUALLY RESET.

HIGH DUCT STATIC PRESSURE DETECTION

STATIC PRESSURE SWITCHES SP-1 AND SP-2 IN THE SUPPLY AND EXHAUST DUCTS SET TO STOP THE SUPPLY AND EXHAUST FANS IF THE DUCT PRESSURE EXCEEDS THE PRESSURE CLASSIFICATION OF THE DUCTWORK.

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SYSTEM INPUT / OUTPUT POINT SUMMARY

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RTU-4	TEMPERATURE	PARTS PER MILLION	AIRFLOW	CURRENT	RESET CAPABILITY	MONITOR SYSTEM	SWITCH CLOSURE	CURRENT SENSOR	CONTROL SYSTEM ON-OFF		EQUIPMENT STATUS	MAINTENANCE	CRITICAL	HIGH LIMIT	LOW LIMIT	START/STOP	POINT HISTORY	RUNTIME	OUTPUT TO EQUIPMENT	INPUT FROM EQUIP.
POINT DESCRIPTION																				
SUPPLY AIR TEMPERATURE																				X
SUPPLY AIR DEWPOINT																				X
OA FACE/BYPASS DAMPER POSIT.																				X
EXHAUST AIR TEMPERATURE																				X
RETURN AIR DAMPER POSITION																				X
OUTSIDE AIR TEMPERATURE																				X
SUPPLY FAN																				X
EXHAUST FAN																				X
GENERAL ALARM																				X
OCCUPIED/UNOCCUPIED																				X
ISOLATION VALVE END SWITCH							X													X
ISOLATION VALVE V-1									X											X
FREEZE PROTECTION PUMP ERUP									X			X								X
SMOKE DETECTOR (TYP OF 2)							X						X							X
SUPPLY AIRFLOW																				X
EXHAUST AIRFLOW																				X
CO2 SENSOR	X																			X

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS
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SIDHU ASSOCIATES, INC. Consulting Engineers
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BCDC YOUTH DETENTION CENTER

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LICENSE NO. 43481
EXPIRATION DATE: 05/15/2015

KEY PLAN

SCALE

No.	Description	Date
1	ADDENDUM 4	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	26 February 2015

TITLE

MECHANICAL - AUTOMATIC CONTROL DIAGRAMS

PSA-DEWBERRY PROJECT NO. Project Number
DPSCS CONTRACT NO. KT-000-150-C01

MO182

SHEET NO.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	RECESSED 2'X2' LIGHT FIXTURE
	PENDANT-MOUNTED LIGHT FIXTURE
	SURFACE-MOUNTED MAXIMUN SECURITY 1'X4' LIGHT FIXTURE
	RECESSED MAXIMUN SECURITY 2'X2' LIGHT FIXTURE
	UNSWITCHED EMERGENCY EGRESS LIGHT FIXTURE
	RECESSED / SURFACE-MOUNTED MAXIMUN SECURITY 1'X1' LIGHT FIXTURE
	SURFACE-MOUNTED SCONCE
	PENDANT-MOUNTED HIGH BAY LIGHT FIXTURE
	WALL-MOUNTED LIGHT FIXTURE
	EXIT LIGHT WITH LIGHTED FACE AND CHEVRONS AS INDICATED
$	SINGLE-POLE TOGGLE SWITCH; MH=48"AFF
$3	THREEWAY TOGGLE SWITCH; MH=48"AFF
$4	FOURWAY TOGGLE SWITCH; MH=48"AFF
$O	OCCUPANCY SWITCH; MH=48"AFF
$K	KEY-OPERATED TOGGLE SWITCH; MH=48"AFF
$3K	KEY-OPERATED THREEWAY TOGGLE SWITCH; MH=48"AFF
$4K	KEY-OPERATED FOURWAY TOGGLE SWITCH; MH=48"AFF
$V	LOW VOLTAGE, MOMENTARY CONTACT SWITCH; MH=48"AFF
OS	CEILING-MOUNTED, DUAL TECHNOLOGY, OCCUPANCY SENSOR / RELAY.
DH	CEILING-MOUNTED, DAYLIGHT HARVESTING SENSOR / RELAY.
	DUPLEX RECEPTACLE; MH=24"AFF
GFIC	GROUND-FAULT CIRCUIT INTERRUPTER TYPE DUPLEX RECEPTACLE; MH=24"AFF
T	TAMPER-RESISTANT TYPE DUPLEX RECEPTACLE; MH=24"AFF
WP	DUPLEX RECEPTACLE WITH WEATHER-PROOF COVER; MH=24"AFF
	ELECTRICAL DISTRIBUTION PANEL
	277/480VAC BRANCH CIRCUIT PANELBOARD
	120/208VAC BRANCH CIRCUIT PANELBOARD
T	TRANSFORMER
	DISCONNECT SWITCH

SYMBOL	DESCRIPTION
TV	TV OUTLET; MH=84"AFF; 3/4" C TO CABLE TRAY.
	.TELEPHONE OUTLET; MH=24"AFF; 3/4" C TO CABLE TRAY
	2 TELEPHONE / 2 DATA OUTLET; MH=24"AFF; PROVIDE DOUBLE GANG BOX & 1" C TO CABLE TRAY.
W	WALL-MOUNTED TELEPHONE OUTLET; MH=54"AFF, 3/4" C TO CABLE TRAY.
	4 DATA OUTLET; MH=24"AFF; PROVIDE DOUBLE GANG BOX & 1" C TO CABLE TRAY.
IP	IMMATE TELEPHONE OUTLET; MH=54"AFF; 3/4" C TO CABLE TRAY.
PS	NURSE CALL SYSTEM PATIENT STATION; MH=54"AFF
ES	NURSE CALL EMERGENCY STATION; 48"AFF
MS	NURSE CALL DESK-MOUNTED MASTER STATION AND OUTLET; MH=24"AFF
	NURSE CALL DOME LIGHT
R	LOW VOLTAGE LIGHTING RELAY
SC	SIDECOM OUTLET; MH=24"AFF
A/V	SPECIAL 3 GANG BOX, 2 1/4" DEEP A/V OUTLET; MH=24"AFF; SEE SPEC.
WG	DENOTES WIRE GUARD
A/V Cd RATING	FIRE ALARM SYSTEM WALL-MOUNTED COMBINATION SPEAKER / STROBE; MH=80"AFF
V Cd RATING	FIRE ALARM SYSTEM WALL-MOUNTED STROBE; MH=80"AFF
F	FIRE ALARM SYSTEM MANUAL PULL STSTION; MH=48"AFF
F K	FIRE ALARM SYSTEM MANUAL PULL STSTION KEY TYPE; MH=48"AFF
FS	FIRE ALARM SYSTEM SPRINKLER FLOW SWITCH
VPS	FIRE ALARM SYSTEM SPRINKLER VALVE POSITION SWITCH
H	FIRE ALARM SYSTEM MAGNETIC DOOR HOLD OPEN
	FIRE ALARM SYSTEM HEAT DETECTOR
	FIRE ALARM SYSTEM SMOKE DETECTOR
D	FIRE ALARM SYSTEM DUCT SMOKE DETECTOR
	EXISTING
	NEW
	RELOCATED
	REMOVED
	CONDUIT AND WIRING; HATCH MARKS DENOTE QUANTITY OF #12AWG CONDUCTORS IN 3/4" CONDUIT UNLESS NOTED OTHERWISE; ARROW DENOTES HOMERUN TO PANELBOARD INDICATED.

GENERAL NOTES:

1. ALL SPECIAL SYSTEM WIRING SHALL BE IN CONDUIT.
2. ALL RECEPTACLE & SWITCHES IN INMATE AREAS SHALL BE TAMPER PROOF & SECURITY TYPE FACE PLATE WITH 4 TEMPER PROOF SCREWS.
3. ALL SPARE CONDUITS SHALL HAVE PULL STRINGS.
4. ALL SCREWS IN INMATE AREAS SHALL BE TAMPER PROOF.
5. ALL BEDROOM SWITCHES SHALL BE INSTITUTIONAL GRADE OF THE TOGGLE TYPE.
6. FOR ALL 15A AND 20A SINGLE PHASE 120V CIRCUITS, USE #10 AWG CONDUCTORS FOR CONDUCTOR LENGTHS OF 75' TO 120' AND #8 AWG CONDUCTORS FOR CONDUCTOR LENGTHS OF 120' TO 200'. FOR ALL 15A AND 20A SINGLE PHASE 277V CIRCUITS, USE # 10 AWG CONDUCTORS FOR CONDUCTOR LENGTHS OF 150' TO 250' AND #8 AWG CONDUCTORS FOR CONDUCTOR LENGTHS OF WIRE FOR LENGTHS 250' TO 450' .

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
10320 TWIN PIKES DR. SUITE 1000
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PHONE (410) 329-1115
TERRALOGOS ECO ARCHITECTURE
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

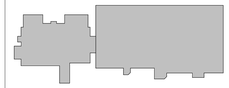
STATE OF MARYLAND - DPSCS
BCDC YOUTH DETENTION CENTER
BALTIMORE MARYLAND
DESIGN DEVELOPMENT

SEAL

PROFESSIONAL CERTIFICATION.
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"
LICENSE NO. 20469
EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND · MICHAEL BRYAN · REGISTERED PROFESSIONAL ENGINEER

KEY PLAN



SCALE

1/4" = 1'-0"

No.	Description	Date

REVISIONS

DRAWN BY	MB
APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

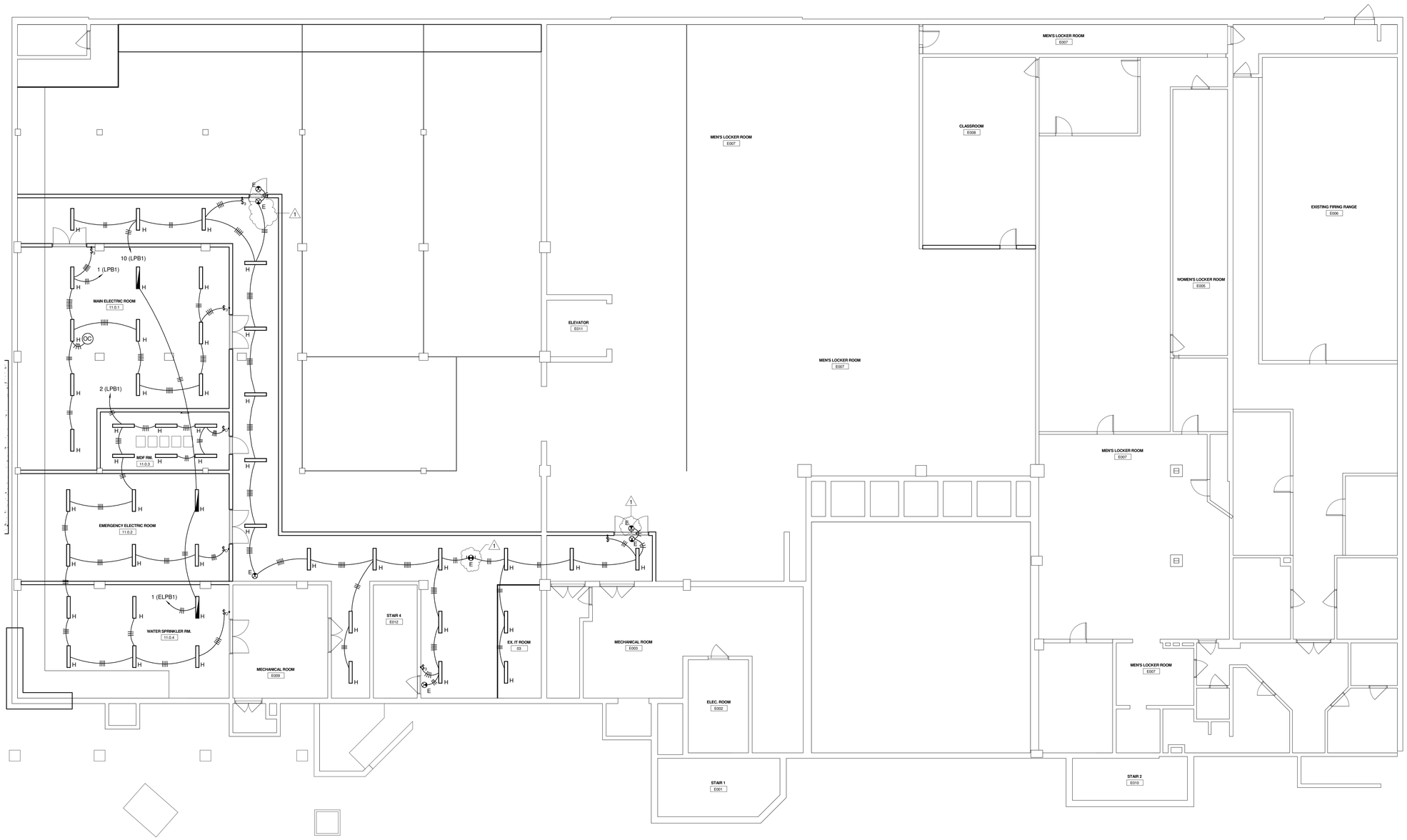
TITLE

ELECTRICAL LEGEND

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EG000

SHEET NO.



1 BASEMENT LEVEL PLAN - LIGHTING
Scale: 1/8" = 1'-0"

GENERAL SHEET NOTES:

1. REFER TO SHEET E500 FOR LIGHTING FIXTURE SCHEDULE.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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STATE OF MARYLAND · DONALD MICHAEL BRUNO · 20469 · REGISTERED PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	MB
APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

TITLE

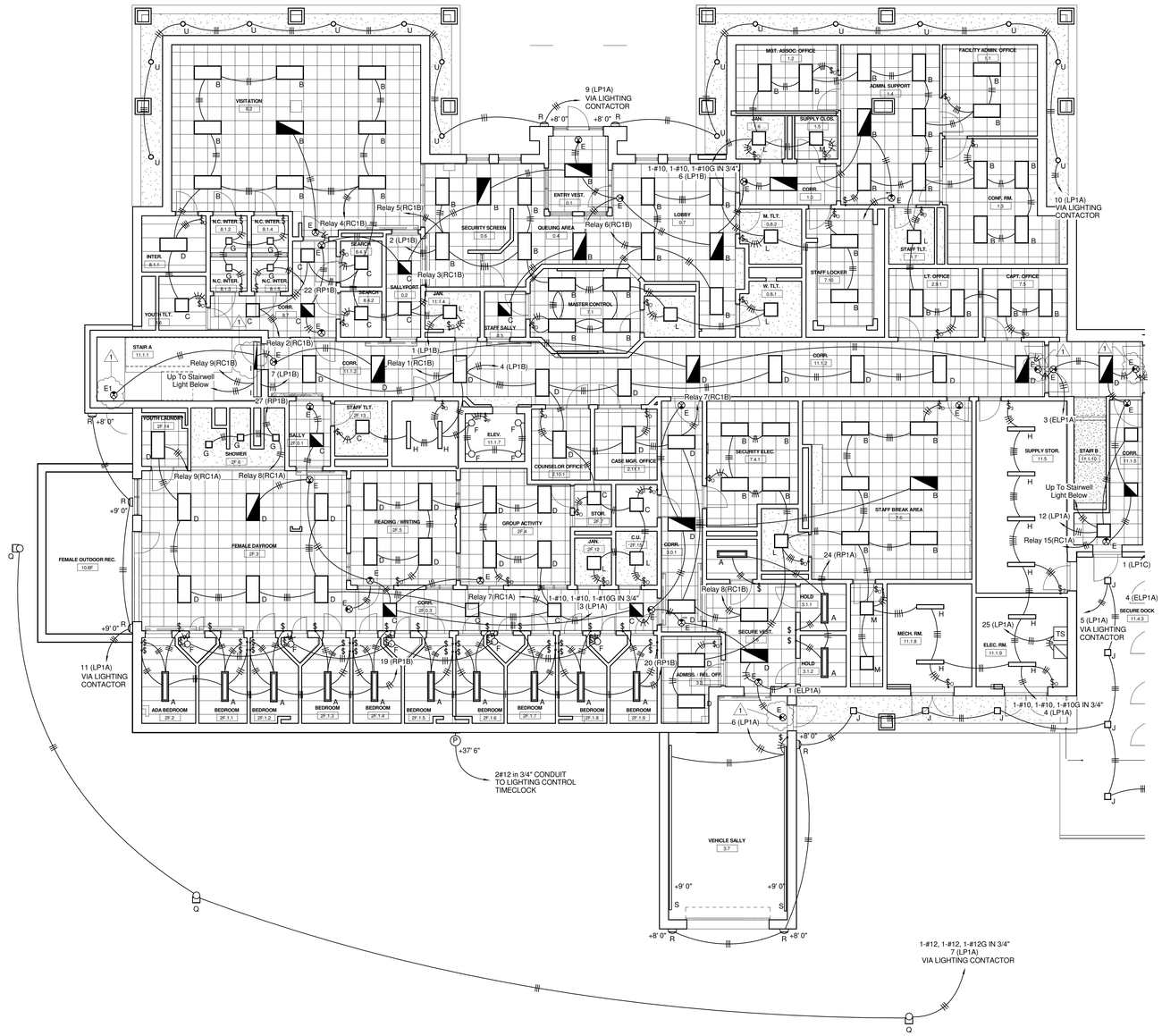
BASEMENT LEVEL PLAN - LIGHTING

PSA-DEWBERRY PROJECT NO. 50061725

DPSCS CONTRACT NO. KT-000-150-C01

EL100

SHEET NO.



1 MAIN LEVEL PLAN - LIGHTING - AREA A

Scale: 1/8" = 1'-0"

GENERAL SHEET NOTES:

1. REFER TO SHEET E500 FOR LIGHTING FIXTURE SCHEDULE.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

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EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND · MICHAEL BRUCE · 20469 · REGISTERED PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

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APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

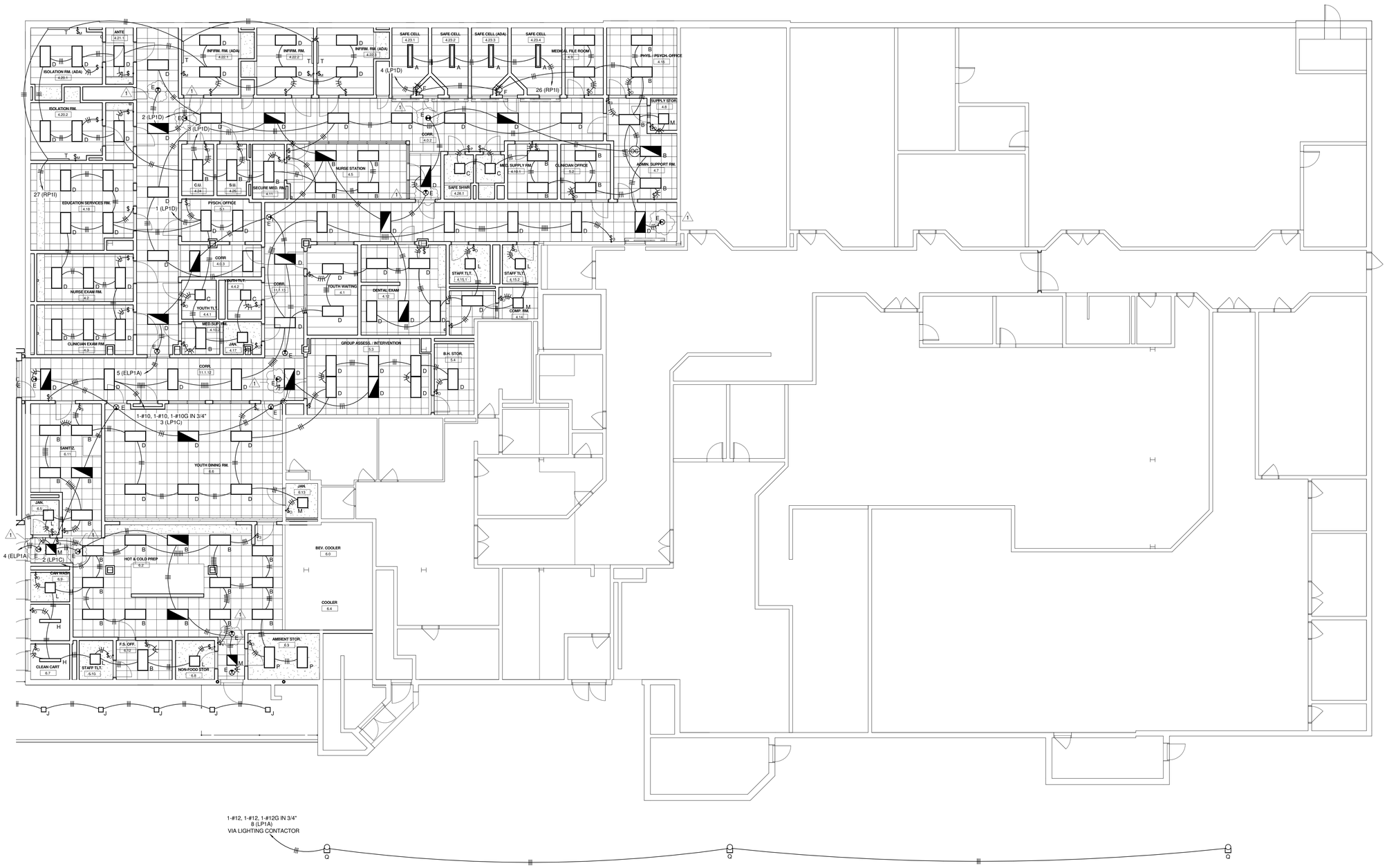
TITLE

MAIN LEVEL PLAN - LIGHTING - AREA A

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EL110A

SHEET NO.



1 MAIN LEVEL PLAN - LIGHTING - AREA B
Scale: 1/8" = 1'-0"

GENERAL SHEET NOTES:

1. REFER TO SHEET E500 FOR LIGHTING FIXTURE SCHEDULE.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

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EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND · MICHAEL BOLAN · REGISTERED PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	MB
APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

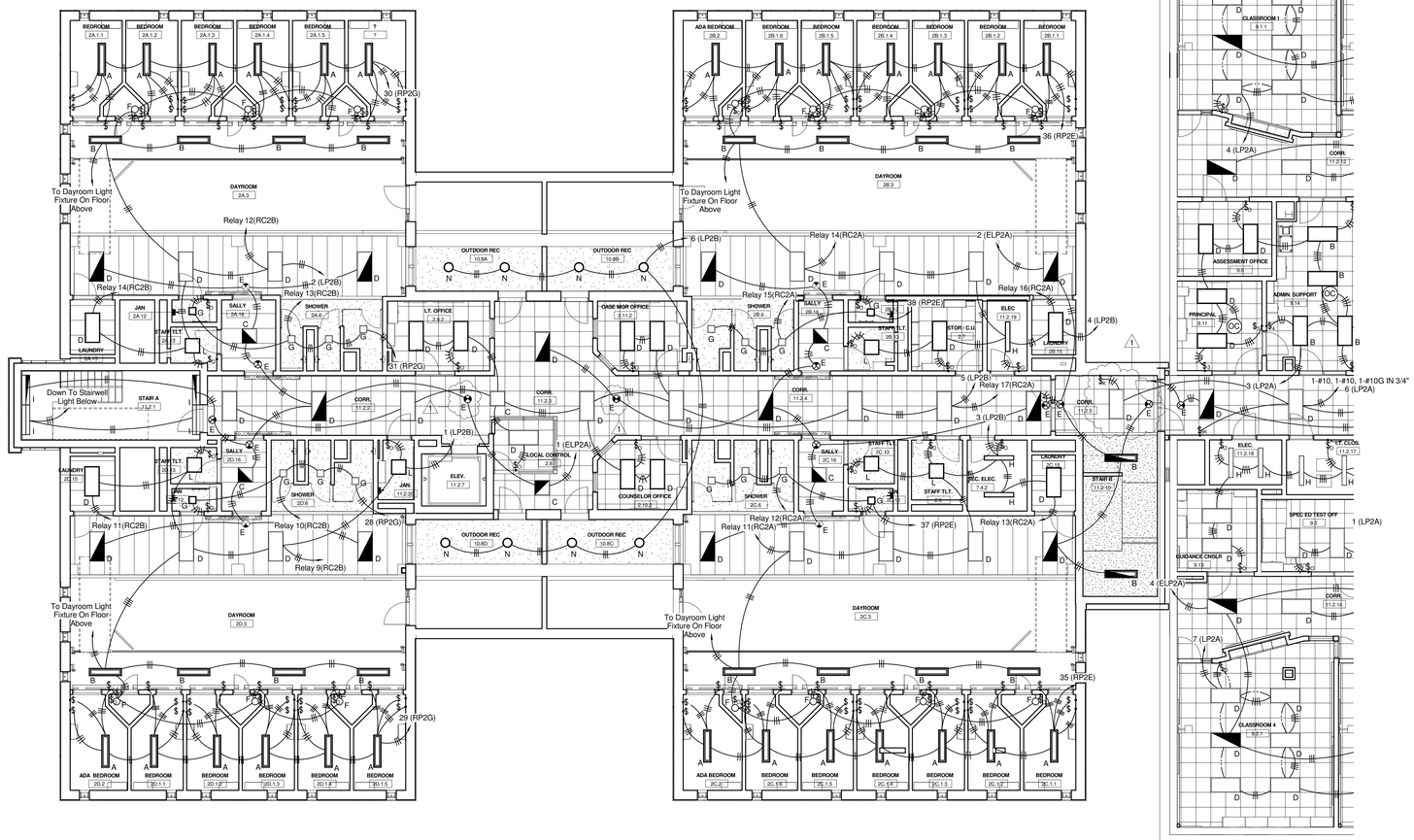
TITLE

MAIN LEVEL PLAN - LIGHTING - AREA B AND C

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EL110B

SHEET NO.



1 SECOND LEVEL PLAN - LIGHTING - AREA A

Scale: 1/8" = 1'-0"

GENERAL SHEET NOTES:

1. REFER TO SHEET E500 FOR LIGHTING FIXTURE SCHEDULE.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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LICENSE NO. 20469

EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND — CHRISTOPHER M. BOWERS — 20469 — REGISTERED PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	MB
APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

TITLE

SECOND LEVEL PLAN - LIGHTING - AREA A

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EL120A

SHEET NO.

1 SECOND LEVEL PLAN - LIGHTING - AREA B AND C
Scale: 1/8" = 1'-0"

GENERAL SHEET NOTES:

1. REFER TO SHEET E500 FOR LIGHTING FIXTURE SCHEDULE.

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

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LICENSE NO. 20469

EXPIRATION DATE: 06/03/2016

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

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APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

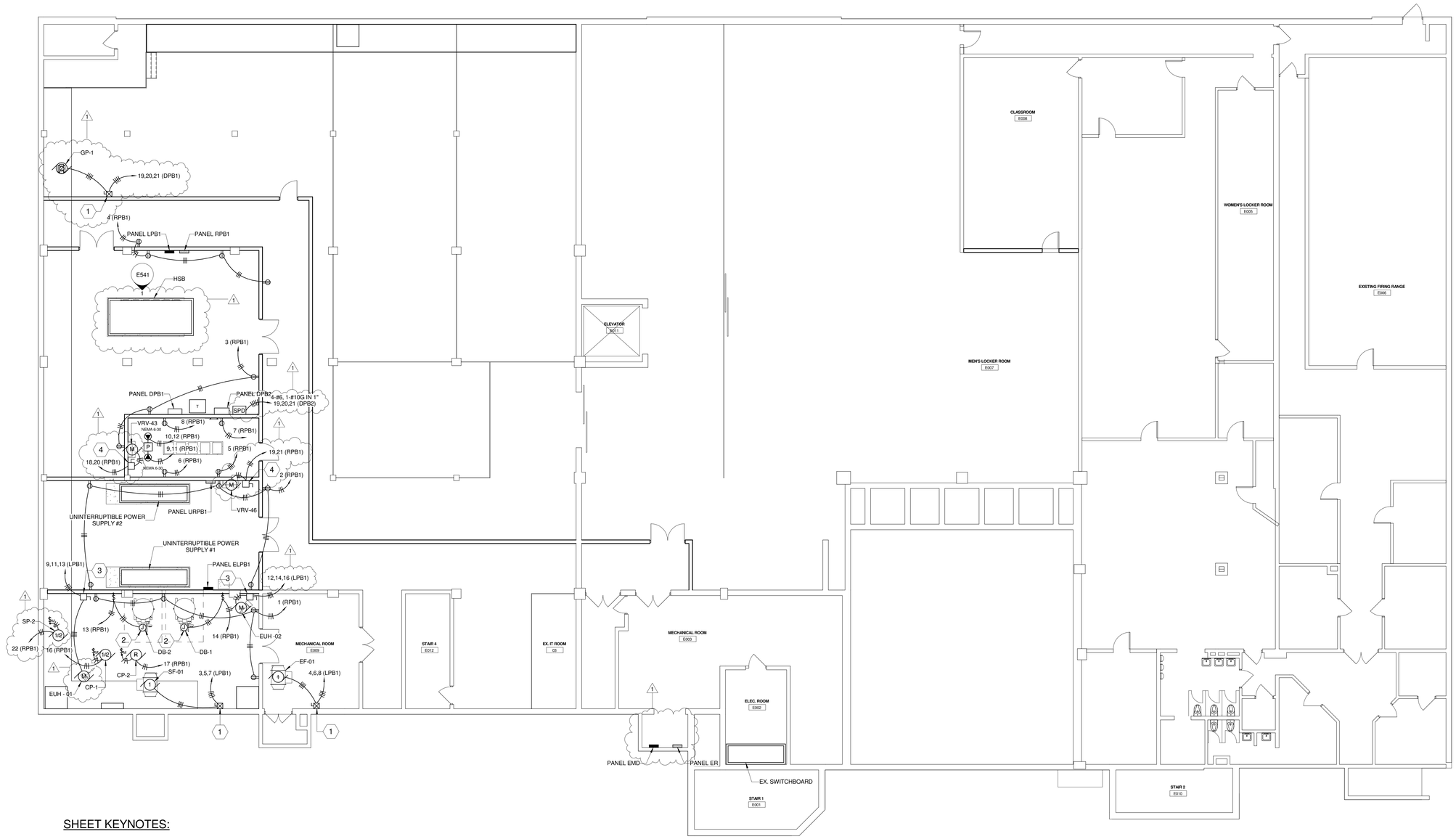
TITLE

SECOND LEVEL PLAN - LIGHTING - AREA B AND C

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EL120B

SHEET NO.



SHEET KEYNOTES:

1. FVNR, 480VAC, 3 PHASE, SIZE 0, COMBINATION MOTOR STARTER IN NEMA 1 ENCLOSURE.
2. PROVIDE ELECTRICAL CONNECTION FOR DOMESTIC WATER BOILER.
3. HEAVY-DUTY, NON-FUSED, 30A, 3 POLE, 600VAC IN NEMA 1 ENCLOSURE.

1 BASEMENT LEVEL PLAN - POWER

Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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LICENSE NO. 20469

EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND — MICHAEL BRYSTEENES — 20469 — PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	MB
APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

TITLE

BASEMENT LEVEL PLAN - POWER

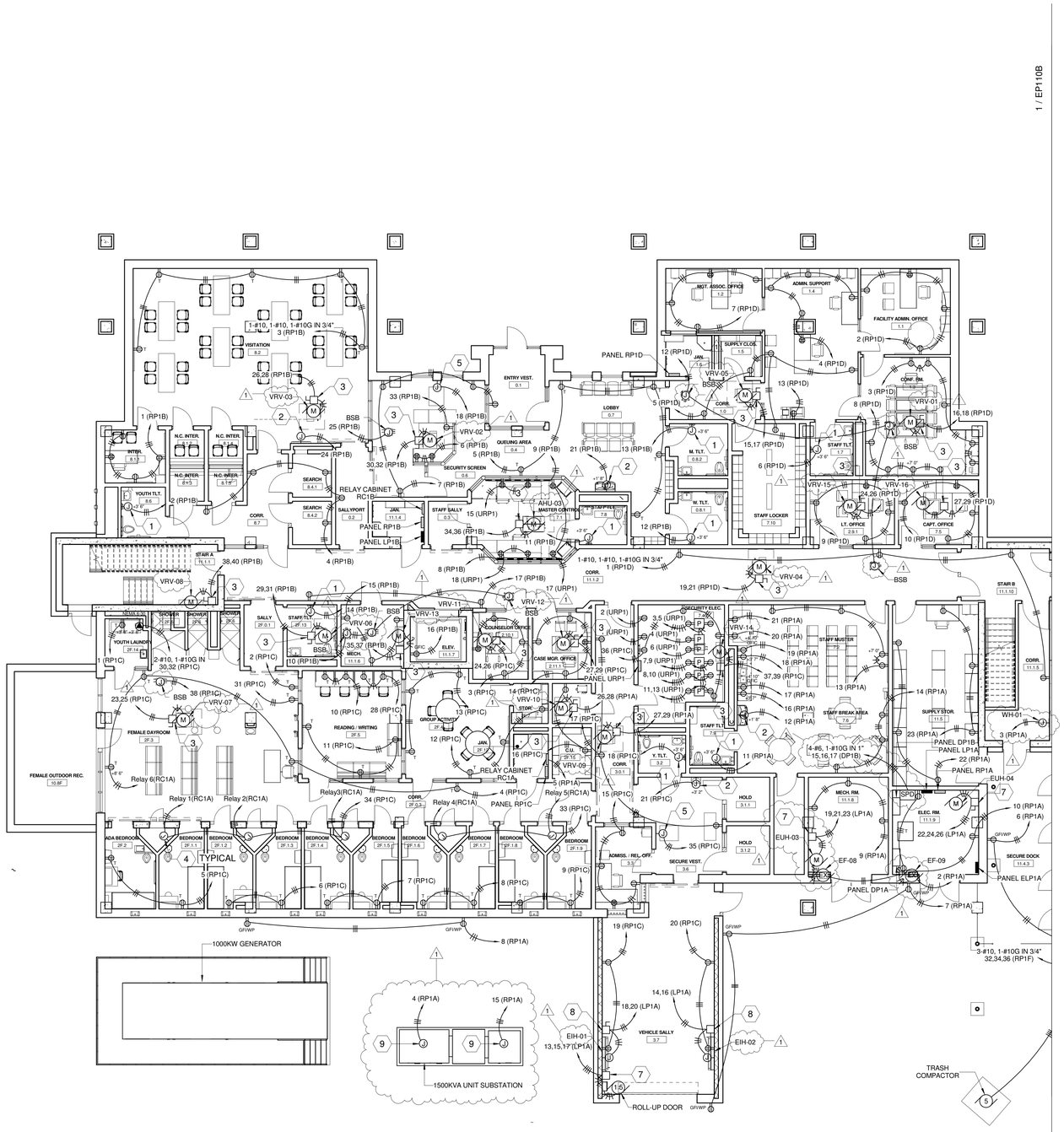
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EP100

SHEET NO.

SHEET KEYNOTES:

1. PROVIDE ELECTRICAL CONNECTION FOR WALL-MOUNTED HAND-DRYER.
2. PROVIDE ELECTRICAL CONNECTION FOR WALL-MOUNTED ELECTRIC WATER COOLER.
3. HEAVY-DUTY, NON-FUSED, 30A, 2 POLE, 240VAC IN NEMA 1 ENCLOSURE.
4. PROVIDE ELECTRICAL CONNECTION FOR SOLENOID VALVE. OPERATION OF SOLENOID VALVE BY MASTER CONTROL WITH LOW VOLTAGE RELAY.
5. PROVIDE ELECTRICAL CONNECTION FOR PASS-THRU METAL DETECTOR.
6. FIRE PUMP AND JOCKEY PUMP CONTROLLERS.
7. HEAVY-DUTY, NON-FUSED, 30A, 3 POLE, 600VAC, IN NEMA 1 ENCLOSURE.
8. HEAVY-DUTY, NON-FUSED, 60A, 3 POLE, 240VAC, IN NEMA 1 ENCLOSURE.
9. PROVIDE CONNECTION FOR SWITCHGEAR ELECTRIC HEATER. (1)



1 MAIN LEVEL PLAN - POWER - AREA A
Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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LICENSE NO. 20469

EXPIRATION DATE: 06/03/2016

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	MB
APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

TITLE

MAIN LEVEL PLAN - POWER - AREA A

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EP110A

SHEET NO.

SHEET KEYNOTES:

1. PROVIDE ELECTRICAL CONNECTION FOR WALL-MOUNTED HAND-DRYER.
2. PROVIDE ELECTRICAL CONNECTION FOR WALL-MOUNTED ELECTRIC WATER COOLER.
3. PROVIDE ELECTRICAL CONNECTION FOR HOOD LIGHTS AND CONTROLS. PROVIDE CONTROL CIRCUIT FOR OPERATION OF SHUNT-TRIP CIRCUIT BREAKERS.
4. PROVIDE 3 POLE, 4 WIRE, 100A, 240VAC PIN AND SLEEVE CONNECTOR.
5. HEAVY-DUTY, NON-FUSED, 30A, 3 POLE, 240VAC IN NEMA 3R ENCLOSURE.
6. FVNR, SIZE 0, 480VAC, 3 PHASE COMBINATION MOTOR STARTER IN NEMA 3R ENCLOSURE.
7. HEAVY-DUTY, FUSED @ 60A, 3 POLE, 600VAC IN NEMA 3R ENCLOSURE.
8. PROVIDE ELECTRICAL CONNECTION FOR WALK-IN COOLER EVAPORATOR FAN.
9. PROVIDE ELECTRICAL CONNECTION FOR WALK-IN COOLER CONTROLS AND HEATER.
10. HEAVY-DUTY, NON-FUSED, 30A, 3 POLE, 600VAC IN NEMA 4 ENCLOSURE.
11. PROVIDE ELECTRICAL CONNECTION FOR DISPOSAL.
12. HEAVY-DUTY, NON-FUSED, 30A, 2 POLE, 240VAC IN NEMA 4 ENCLOSURE.
13. PROVIDE ELECTRICAL CONNECTION FOR ICE MAKER.
14. PROVIDE ELECTRICAL CONNECTION FOR REFRIGERATOR.
15. HEAVY-DUTY, NON-FUSED, 100A, 3 POLE, 240VAC IN NEMA 4 ENCLOSURE.
16. PROVIDE ELECTRICAL CONNECTION FOR BOOSTER HEATER.
17. PROVIDE ELECTRICAL CONNECTION FOR AIR CURTAIN.
18. PROVIDE ELECTRICAL CONNECTION FOR DENTAL X-RAY UNIT.
19. PROVIDE ELECTRICAL CONNECTION FOR VACUUM SYSTEM.
20. PROVIDE ELECTRICAL CONNECTION FOR DENTAL COMPRESSOR.
21. PROVIDE ELECTRICAL CONNECTION FOR ELECTRIC DUCT HEATER.
22. HEAVY-DUTY, NON-FUSED, 200A, 3 POLE, 600VAC IN NEMA 1 ENCLOSURE.

1 MAIN LEVEL PLAN - POWER - AREA B AND C

Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

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TERRALOGOS

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

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SEAL

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LICENSE NO. 22469

EXPIRATION DATE: 06/03/2016

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	01-30-2015

TITLE

MAIN LEVEL PLAN - POWER - AREA B AND C

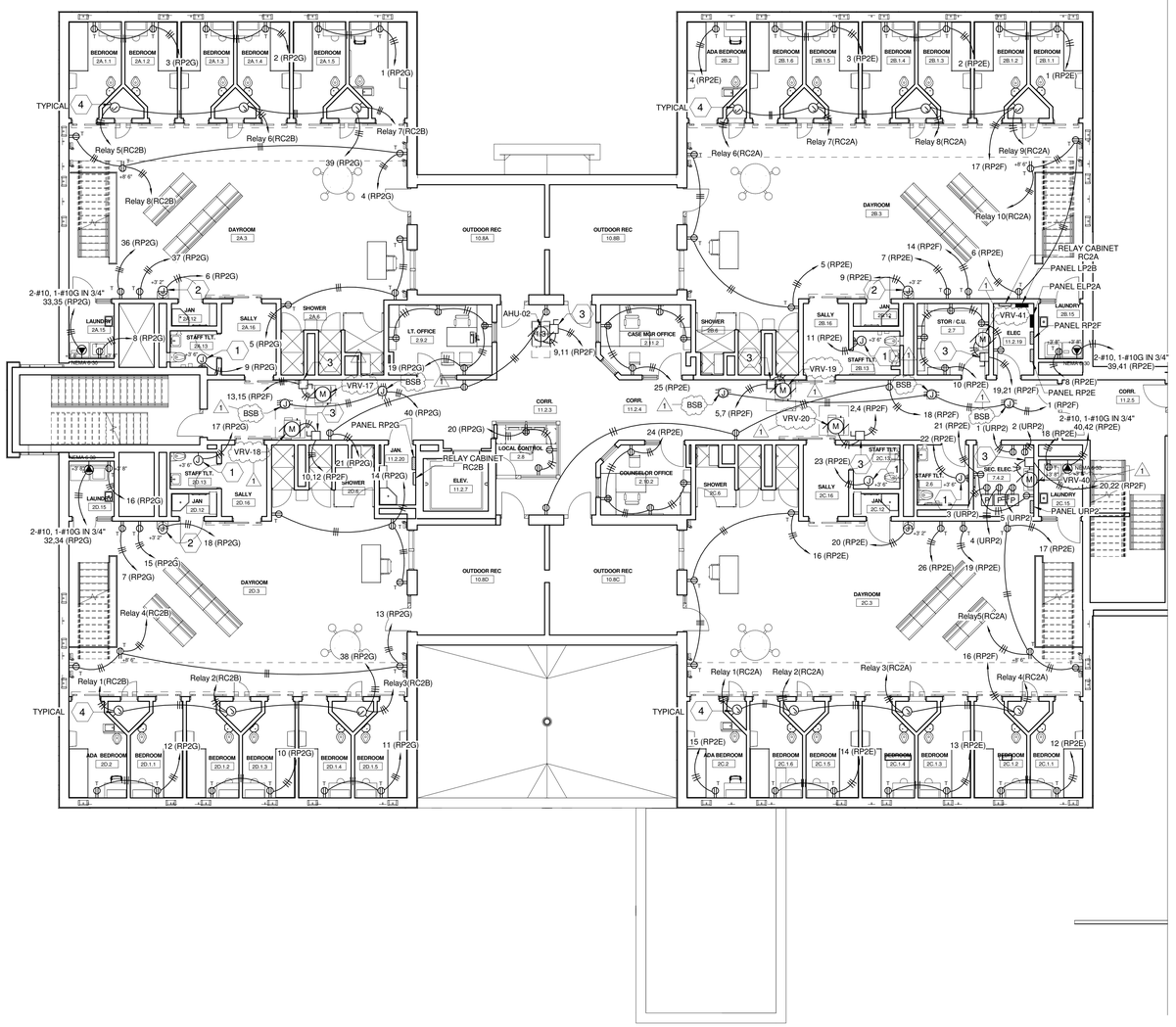
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EP110B

SHEET NO.

SHEET KEYNOTES:

1. PROVIDE ELECTRICAL CONNECTION FOR WALL-MOUNTED HAND-DRYER.
2. PROVIDE ELECTRICAL CONNECTION FOR WALL-MOUNTED ELECTRIC WATER COOLER.
3. HEAVY-DUTY, NON-FUSED, 30A, 2 POLE, 240VAC IN NEMA 1 ENCLOSURE.
4. PROVIDE ELECTRICAL CONNECTION FOR SOLENOID VALVE. OPERATION OF SOLENOID VALVE BY MASTER CONTROL WITH LOW VOLTAGE RELAY.



1 SECOND LEVEL PLAN - POWER - AREA A
Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
KRISTINE PLAZA II, SUITE 1000
11350 McCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1115

TERRALOGOS ECO ARCHITECTURE, PC

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

DESIGN DEVELOPMENT

SEAL

PROFESSIONAL CERTIFICATION:

"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"

LICENSE NO. 20469

EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND · CHRISTOPHER · BRUCE · 20469 · REGISTERED PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	MB
APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

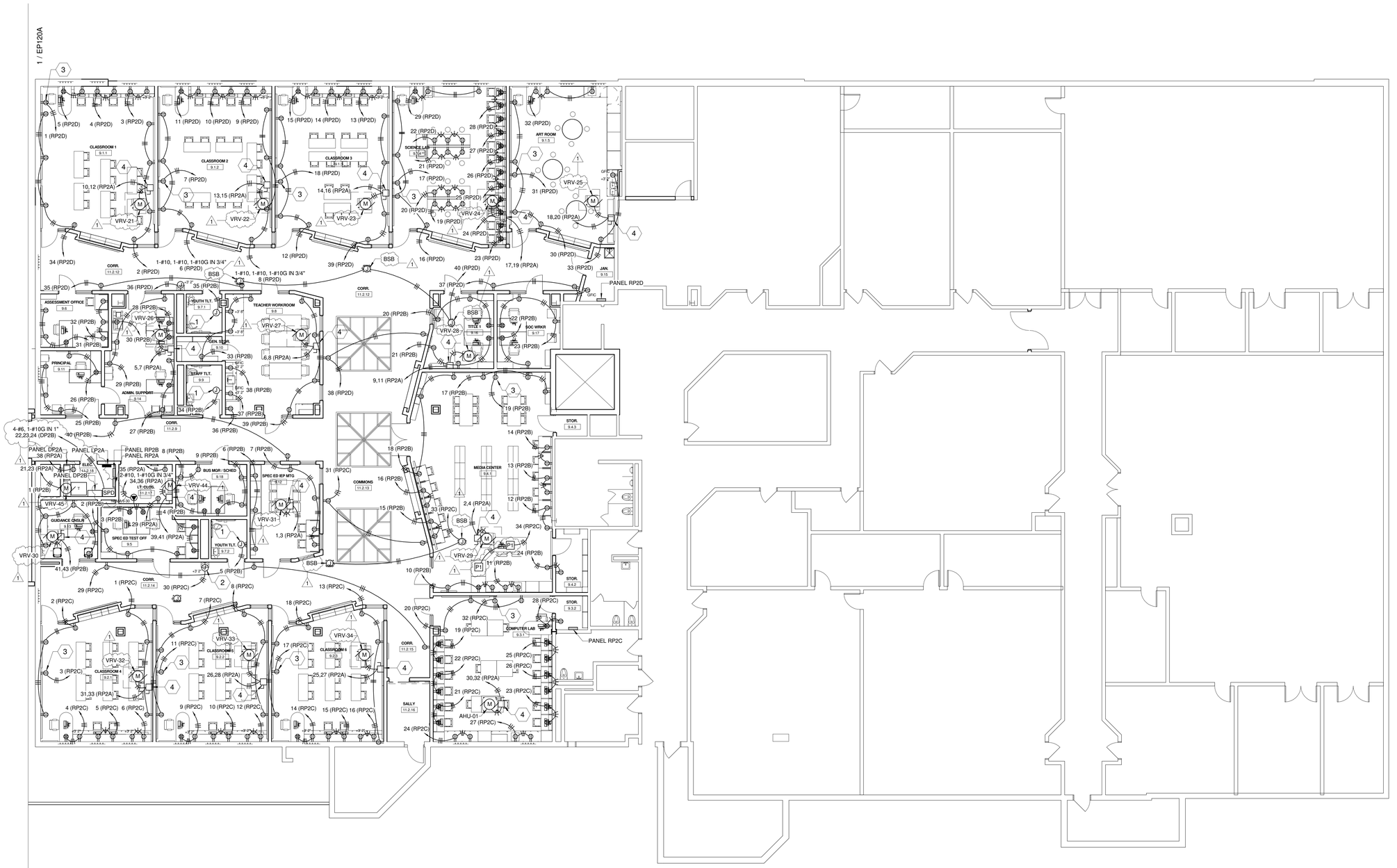
TITLE

SECOND LEVEL PLAN - POWER - AREA A

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EP120A

SHEET NO.



SHEET KEYNOTES:

1. PROVIDE ELECTRICAL CONNECTION FOR WALL-MOUNTED HAND-DRYER.
2. PROVIDE ELECTRICAL CONNECTION FOR WALL-MOUNTED ELECTRIC WATER COOLER.
3. PROVIDE ELECTRICAL CONNECTION FOR WALL-MOUNTED PROJECTOR.
4. HEAVY-DUTY, 30A, NON-FUSED, 240VAC IN NEMA 1 ENCLOSURE

1 SECOND LEVEL PLAN - POWER - AREA B AND C
Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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TERRALOGOS

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LICENSE NO. 20469

EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND · MICHAEL BRENNAN · 20469 · REGISTERED PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	MB
APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

TITLE

SECOND LEVEL PLAN - POWER - AREA B AND C

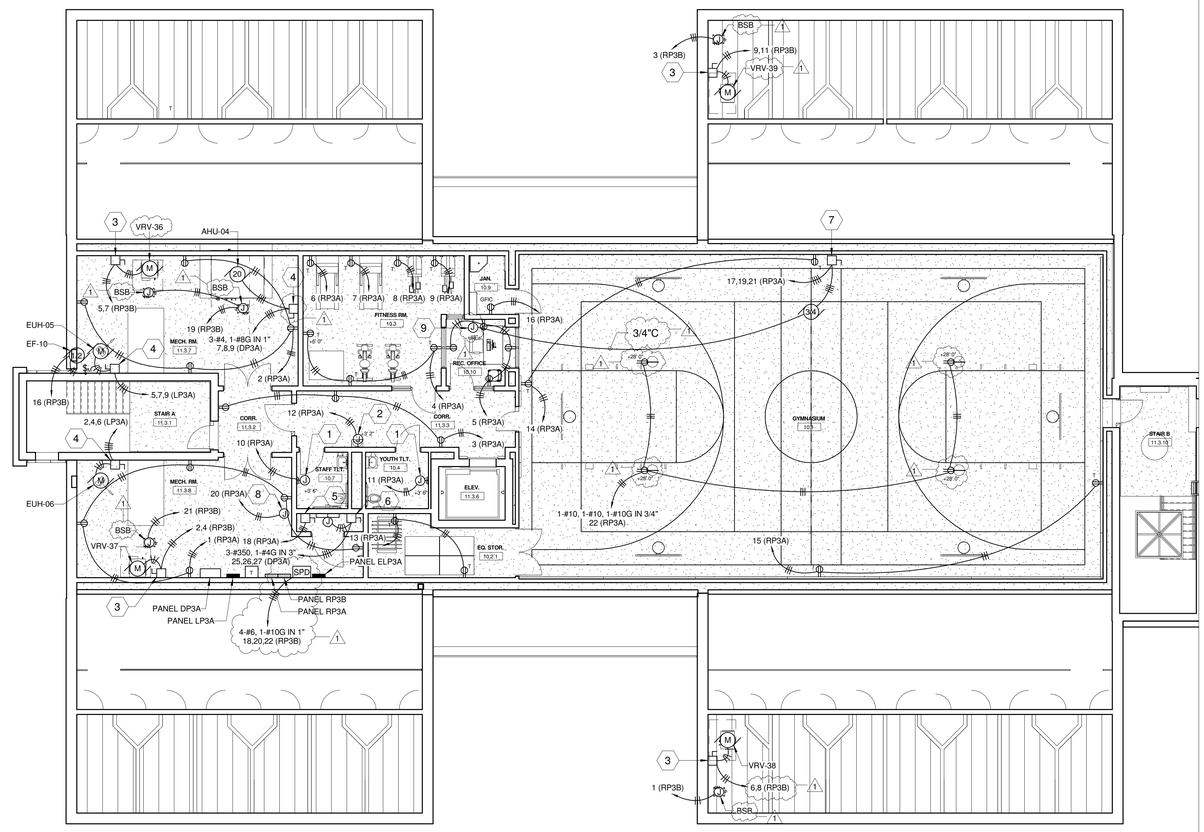
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EP120B

SHEET NO.

SHEET KEYNOTES:

1. PROVIDE ELECTRICAL CONNECTION FOR WALL-MOUNTED HAND-DRYER.
2. PROVIDE ELECTRICAL CONNECTION FOR WALL-MOUNTED ELECTRIC WATER COOLER.
3. HEAVY-DUTY, NON-FUSED, 30A, 2 POLE, 240VAC IN NEMA 1 ENCLOSURE.
4. HEAVY-DUTY, NON-FUSED, 30A, 3 POLE, 600VAC IN NEMA 1 ENCLOSURE.
5. HEAVY-DUTY, NON-FUSED, 30A, 2 POLE, 120/240VAC IN NEMA 1 ENCLOSURE.
6. HEAVY-DUTY, NON-FUSED, 200A, 3 POLE, 600VAC IN NEMA 1 ENCLOSURE.
7. HEAVY-DUTY, NON-FUSED, 30A, 3 POLE, 600VAC IN NEMA 1 ENCLOSURE.
8. PROVIDE ELECTRICAL CONNECTION FOR SA/CA HEAD-END EQUIPMENT CABINET.
9. PROVIDE CONDUIT AND OUTLET BOX ROUGH-IN FOR MOTORIZED PARTITION LOW-VOLTAGE CONTROLLER. PROVIDE WIRING FOR LOW VOLTAGE CONTROLLER PER MANUFACTURER'S RECOMMENDATIONS.



1 THIRD LEVEL PLAN - POWER
Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

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TERRALOGOS
ECO ARCHITECTURE PC

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

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BALTIMORE MARYLAND

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LICENSE NO. 20469

EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND — MICHAEL BRUCE STEVENS — 20469 — PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	MB
APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

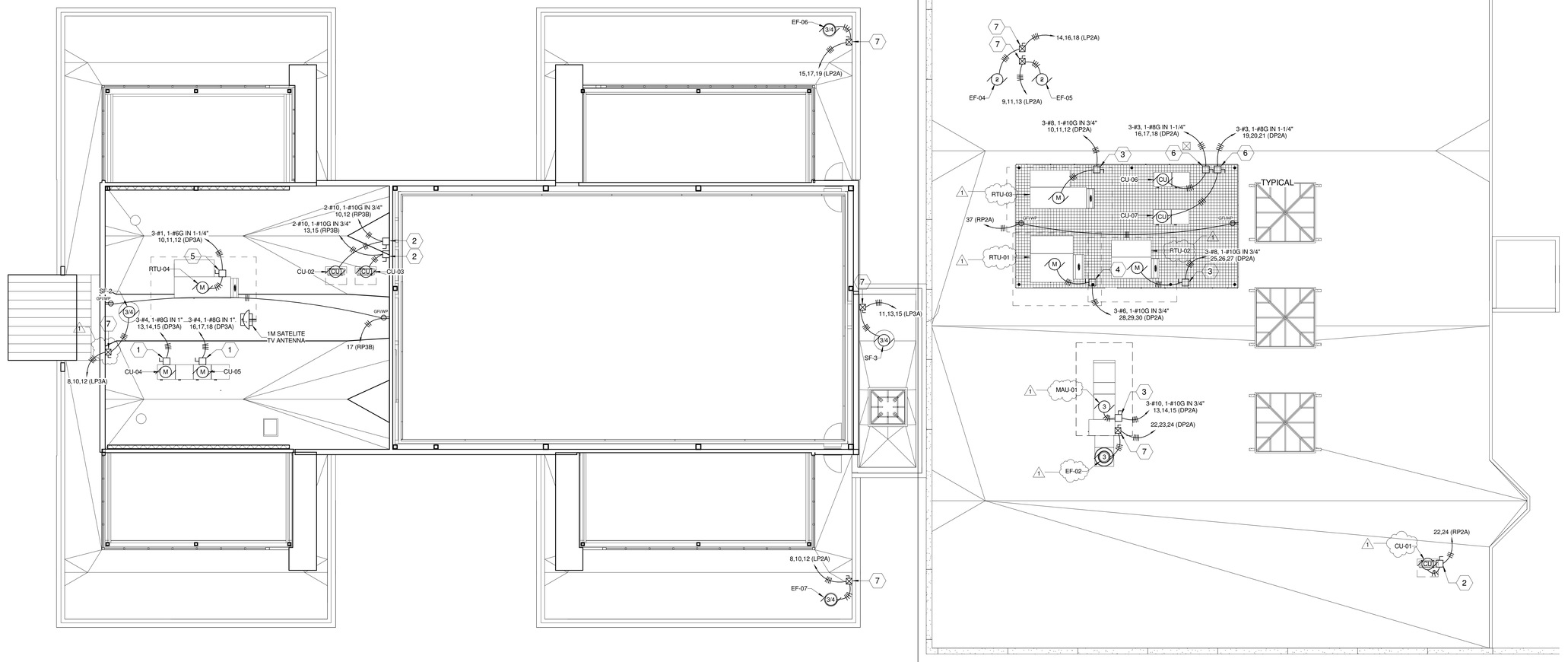
TITLE

THIRD LEVEL PLAN - POWER

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EP130

SHEET NO.



SHEET KEYNOTES:

1. HEAVY-DUTY, 100A, FUSED @ 70A, 3 POLE, 600VAC IN NEMA 3R ENCLOSURE.
2. HEAVY-DUTY, FUSED @ 30A, 2 POLE, 240VAC IN NEMA 3R ENCLOSURE.
3. HEAVY-DUTY, NON-FUSED, 30A, 3 POLE, 600VAC IN NEMA 3R ENCLOSURE.
4. HEAVY-DUTY, NON-FUSED, 60A, 3 POLE, 600VAC IN NEMA 3R ENCLOSURE. (1)
5. HEAVY-DUTY, NON-FUSED, 200A, 3 POLE, 600VAC IN NEMA 3R ENCLOSURE.
6. HEAVY-DUTY, 100A, FUSED @ 100A, 3 POLE, 600VAC IN NEMA 3R ENCLOSURE.
7. FVNR, 480VAC, 3 PHASE, SIZE 0 COMBINATION MOTOR STARTER IN NEMA 3R ENCLOSURE. (1)

1 ROOF AND CLERESTORY PLAN - POWER

Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

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TERRALOGOS ECO ARCHITECTURE PC

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

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BALTIMORE MARYLAND

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PROFESSIONAL CERTIFICATION.
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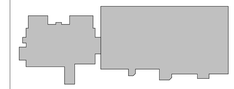
LICENSE NO. 20469

EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND · CHRISTOPHER PENZA · 20469 · REGISTERED PROFESSIONAL ENGINEER

KEY PLAN



SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	01-30-2015

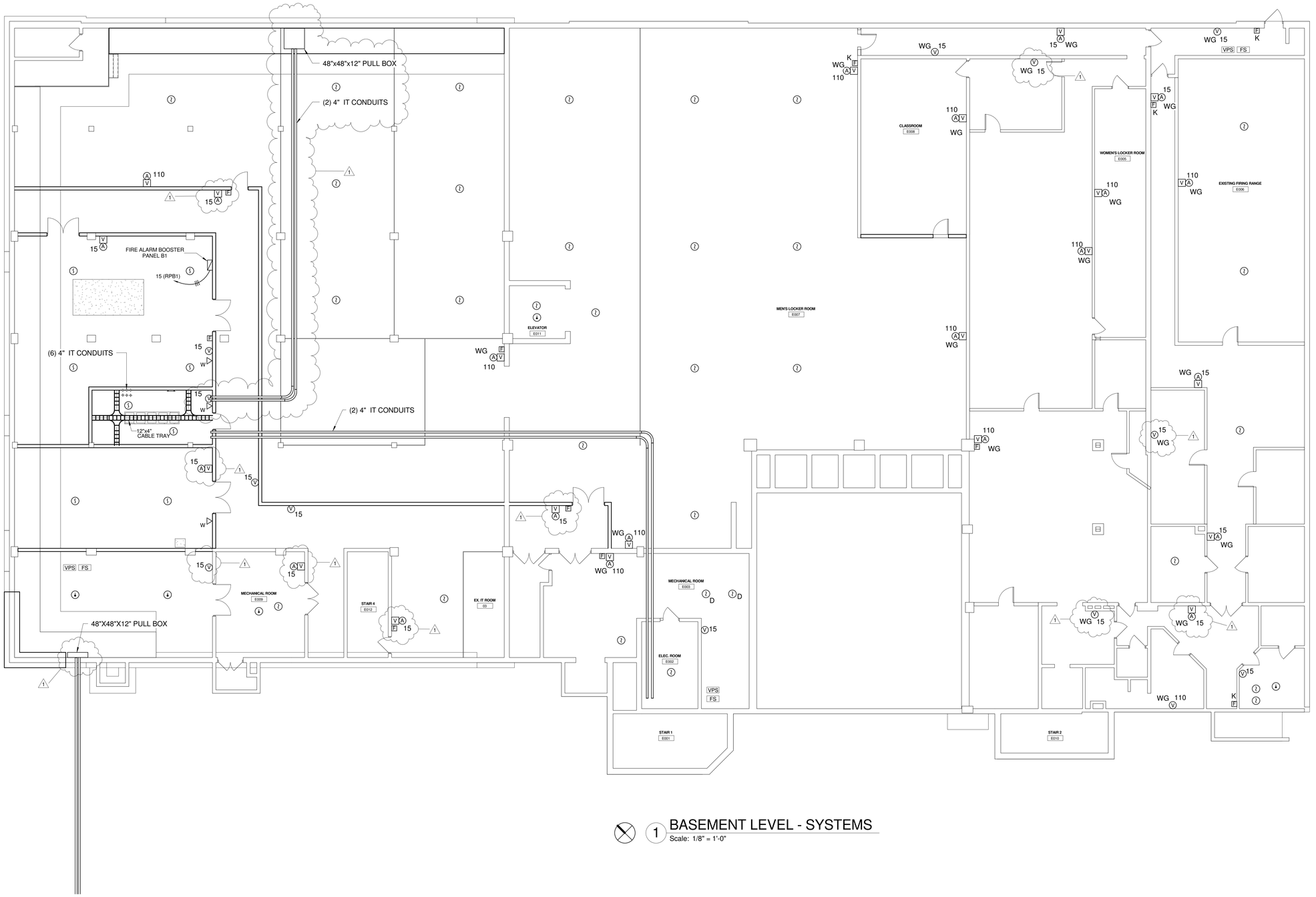
TITLE

ROOF AND CLERESTORY PLAN - POWER

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EP140

SHEET NO.



1 BASEMENT LEVEL - SYSTEMS

Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
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TERRALOGOS

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BALTIMORE MARYLAND

DESIGN DEVELOPMENT

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LICENSE NO. 20469

EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND · ROBERT · PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	01-30-2015

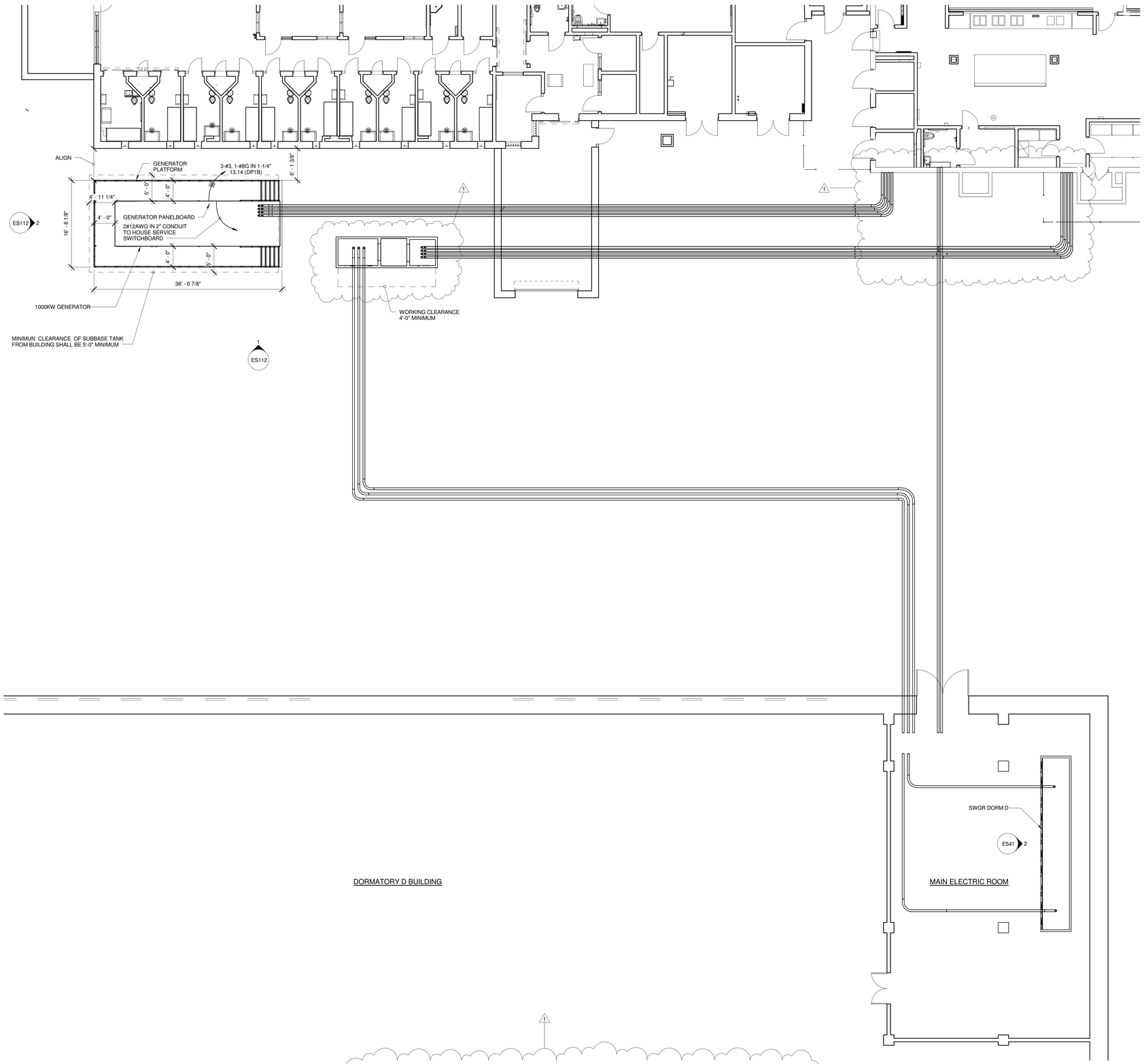
TITLE

BASEMENT LEVEL PLAN - SYSTEMS

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

EY100

SHEET NO.



1 PART PLAN SITE / BASEMENT DORMATORY D BUILDING
Scale: 1/8" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
EXECUTIVE PLAZA III, SUITE 1000
11350 McCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1115

TERRALOGOS

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

DESIGN DEVELOPMENT

SEAL

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LICENSE NO. 20468

EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND · CHRISTOPHER CHRISTOS · 20468 · REGISTERED PROFESSIONAL ENGINEER

KEY PLAN

SCALE

1/8" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	01-30-2015

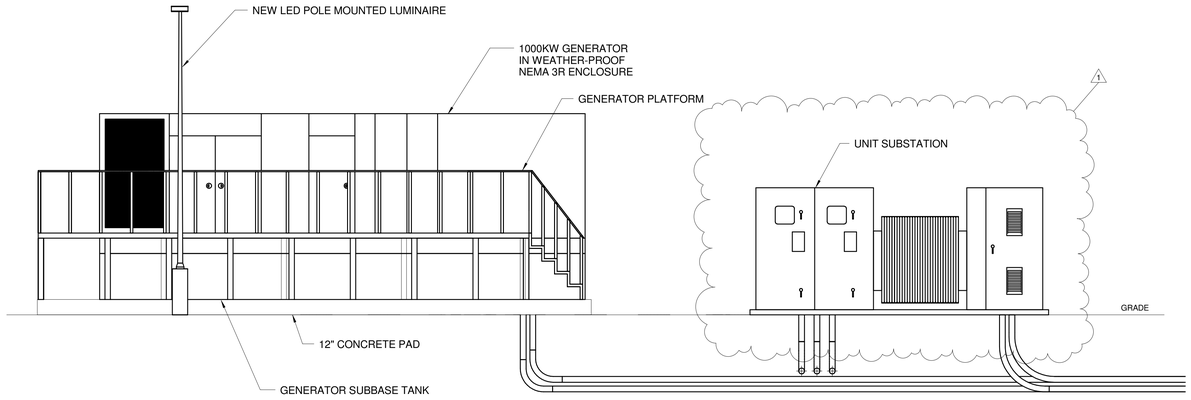
TITLE

PART PLAN SITE / DORMATORY BUILDING

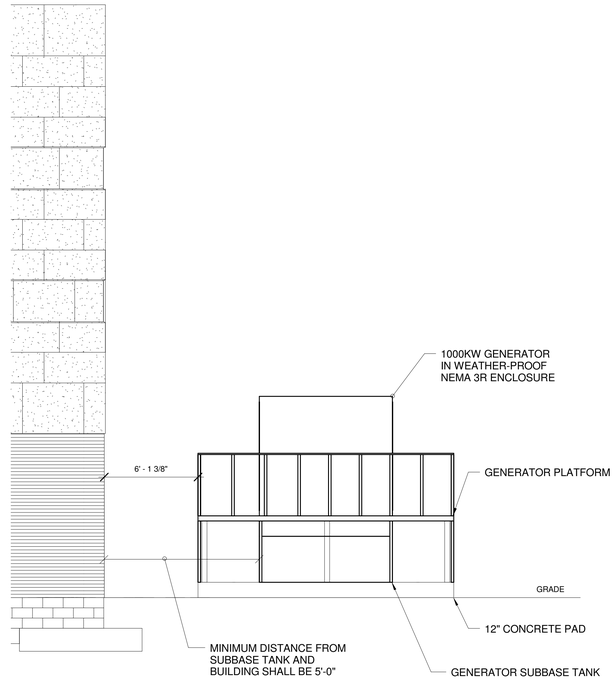
PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

ES111

SHEET NO.



1 EXTERIOR SWITCHGEAR NORTH ELEVATION
Scale: 1/4" = 1'-0"



2 EXTERIOR SWITCHGEAR WEST ELEVATION
Scale: 1/4" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

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TERRALOGOS ECO ARCHITECTURE PC

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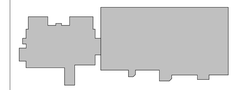
LICENSE NO. 20469

EXPIRATION DATE: 06/03/2016

KEY PLAN



SCALE

1/4" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	01-30-2015

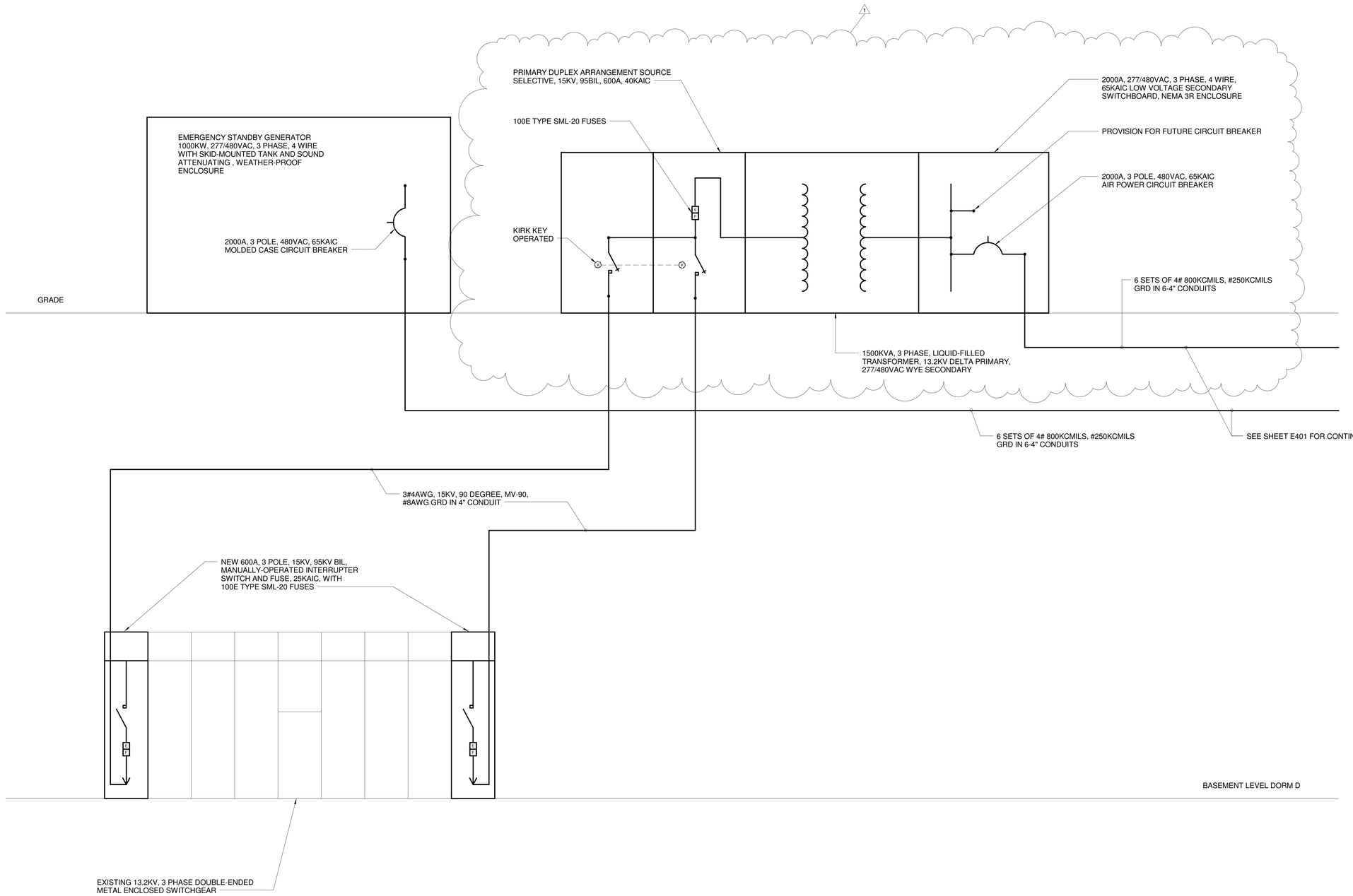
TITLE

EXTERIOR ELEVATION

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

ES112

SHEET NO.



A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

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LICENSE NO. 20469

EXPIRATION DATE: 06/03/2016

KEY PLAN

SCALE

12" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	MB
APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

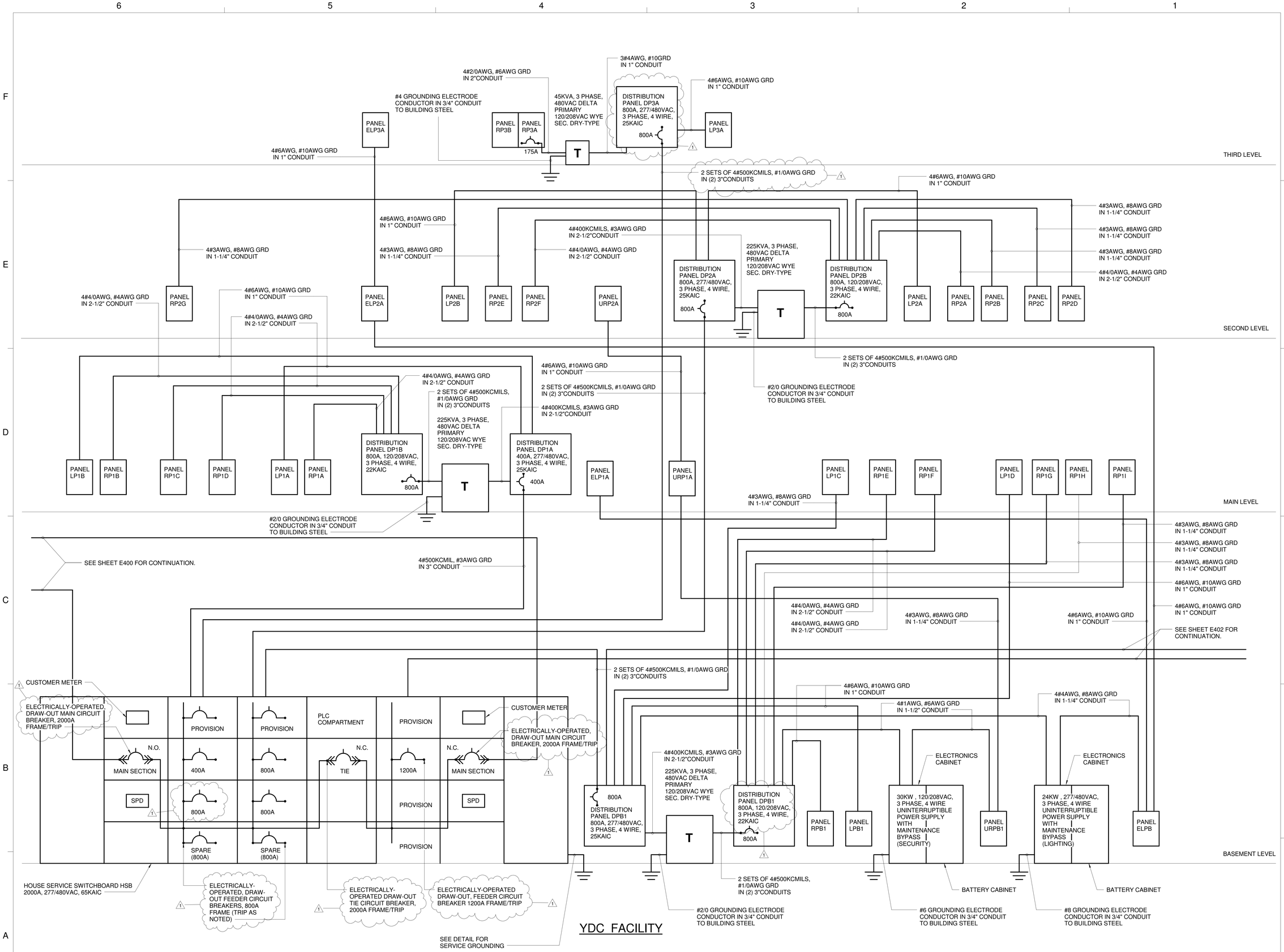
TITLE

ELECTRICAL SINGLE-LINE DIAGRAM PART 1

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

E400

SHEET NO.



1 ELECTRICAL SINGLE-LINE DIAGRAM PART 2
Scale: 12" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS
EBA ENGINEERING
HOPE FURRER Associates, Inc.
SIDHU ASSOCIATES, INC. Consulting Engineers
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HUNT VALLEY, MARYLAND 21031
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TERRALOGOS
R&R designer, inc.
LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS
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DESIGN DEVELOPMENT

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LICENSE NO.: 20466
EXPIRATION DATE: 06/03/2016

KEY PLAN

SCALE

12" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	MB
APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

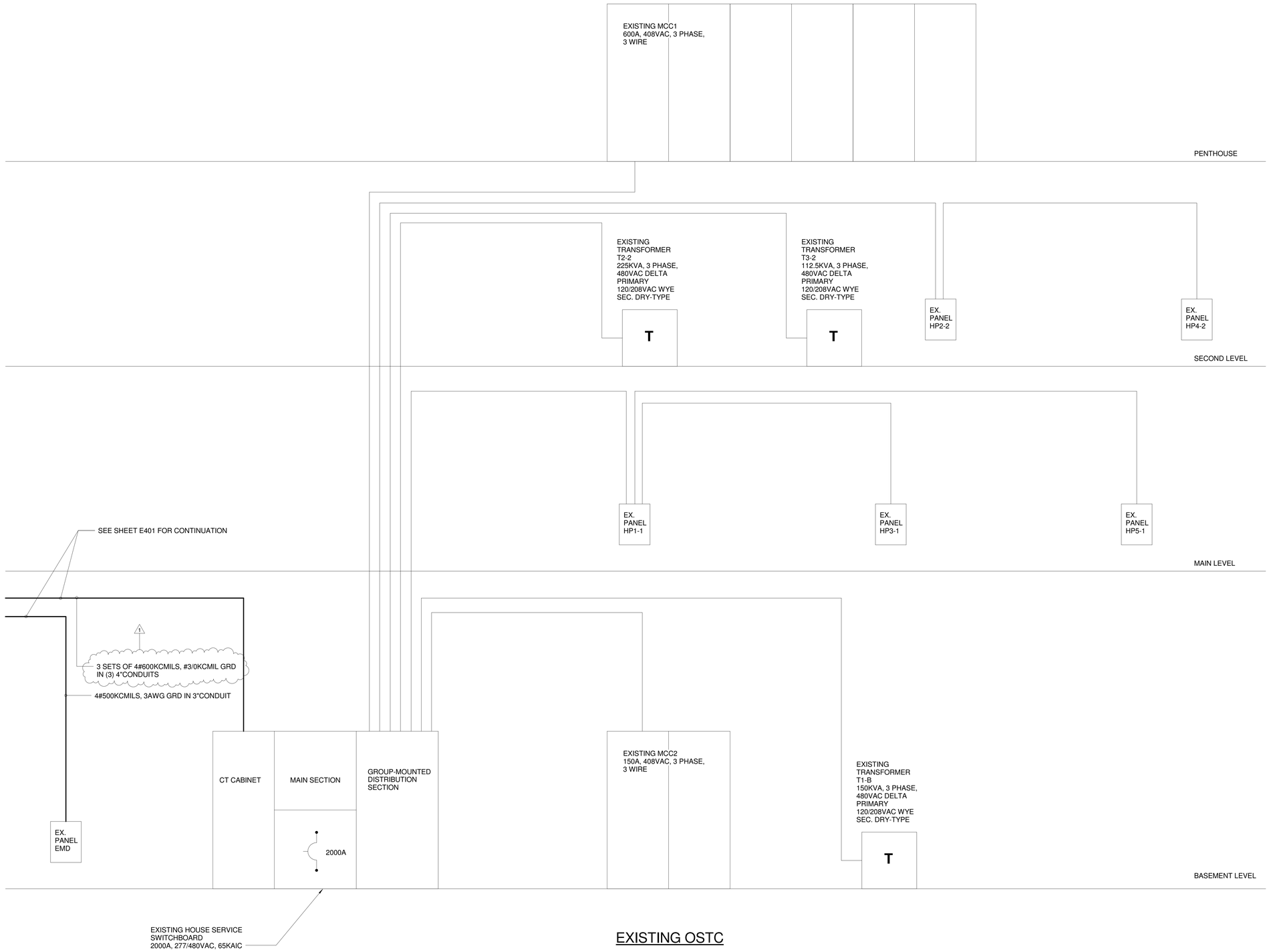
TITLE

ELECTRICAL SINGLE-LINE DIAGRAM PART 2

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

E401

SHEET NO.



EXISTING OSTC

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING

HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
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11350 MCCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1115

TERRALOGOS ECO ARCHITECTURE PC

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

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LICENSE NO. 20469

EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND · MICHAEL BRADLEY · 20469 · REGISTERED PROFESSIONAL ENGINEER

KEY PLAN

SCALE

12" = 1'-0"

No.	Description	Date
1	Addendum 1	02-26-15

REVISIONS

DRAWN BY	MB
APPROVED BY	MB
CHECKED BY	MB
DATE	01-30-2015

TITLE

ELECTRICAL SINGLE-LINE DIAGRAM PART 3

PSA-DEWBERRY PROJECT NO.	50061725
DPSCS CONTRACT NO.	KT-000-150-C01

E402

SHEET NO.

Switchboard: HSB

Location: MAIN ELECTRIC ROOM 11.0.1
Supply From:
Mounting: Free Standing
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: 2000 A
Mains Rating: 2000 A
MCB Rating: 2000 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	Pull Section Compartment	3	400 A	20 A	0 VA	
2	Power Quality Meter	3	400 A	20 A	0 VA	
3	Draw-Out Magnum Power Circuit Breaker	3	2000 A	2000 A	0 VA	MAIN (TRIP UNIT-LSIG)
4	TVSS for Draw-Out Magnum Power Switchboard	3	400 A	20 A	0 VA	
5	Draw-Out Magnum Power Circuit Breaker Space	3	400 A	20 A	0 VA	
6	Draw-Out Magnum Power Circuit Breaker	3	12000 A	1200 A	0 VA	SPARE (TRIP UNIT-LSIG)
7	DPB1	3	1200 A	800 A	251585 VA	FEEDER (TRIP UNIT-LSIG)
8	DP1A	3	1200 A	400 A	91863 VA	FEEDER (TRIP UNIT-LSIG)
9	Provision	3	1200 A	1200 A	0 VA	
10	Provision	3	1200 A	1200 A	0 VA	
11	DP2A	3	1200 A	800 A	311476 VA	FEEDER (TRIP UNIT-LSIG)
12	DP3A	3	1200 A	800 A	328189 VA	FEEDER (TRIP UNIT-LSIG)
13	Provision	3	1200 A	1200 A	0 VA	
14	Provision	3	1200 A	1200 A	0 VA	
15	Draw-Out Magnum Power Tie Circuit Breaker	3	2000 A	2000 A	0 VA	
16	Provision	3	1200 A	1200 A	0 VA	
17	Provision	3	1200 A	1200 A	0 VA	
18	Provision	3	1200 A	1200 A	0 VA	
19	Draw-Out Magnum Power Circuit Breaker	3	1200 A	1200 A	249300 VA	FEEDER (TRIP UNIT-LSIG)
20	Provision	3	1200 A	1200 A	0 VA	
21	Provision	3	1200 A	1200 A	0 VA	
22	Power Quality Meter	3	400 A	20 A	0 VA	
23	Generator Main Draw-Out Magnum Power Circuit Breaker	3	2000 A	2000 A	0 VA	MAIN (TRIP UNIT-LSIG)
24	TVSS for Draw-Out Magnum Power Switchboard	3	400 A	20 A	0 VA	
25	Provision	3	1200 A	1200 A	0 VA	
26	Pull Section Compartment	3	400 A	20 A	0 VA	
27						
28						
29						
30						
				Total Conn. Load:	1187358 VA	
				Total Amps:	1428 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	577643 VA	104.46%	603404 VA		
Other	353290 VA	100.00%	353290 VA	**Total Conn. Load:**	1187358 VA
Receptacle	211686 VA	52.36%	110843 VA	**Total Est. Demand:**	1120637 VA
Lighting	33445 VA	125.00%	41806 VA	**Total Conn.:**	1428 A
Power	11295 VA	100.00%	11295 VA	**Total Est. Demand:**	1348 A

Notes:

Switchboard: SWGR DORM D

Location:
Supply From:
Mounting:
Enclosure:

Volts: 13200 Delta
Phases: 3
Wires: 3

A.I.C. Rating:
Mains Type:
Mains Rating:
MCB Rating:

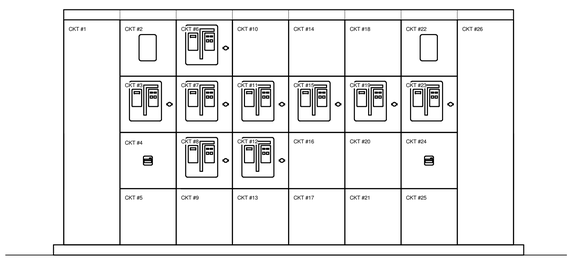
Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	NEW FEEDER SWITCH AND FUSE	3	600 A	125 A	0 VA	
2	EXISTING FEEDER SWITCH AND FUSE	3	600 A	0 A	0 VA	
3	EXISTING METERING / CONTROLS	3	600 A	20 A	0 VA	
4	EXISTING MAIN SWITCH	3	600 A	20 A	0 VA	
5	EXISTING METERING / CONTROLS	3	600 A	20 A	0 VA	
6	EXISTING TIE	3	600 A	20 A	0 VA	
7	EXISTING MAIN SWITCH	3	600 A	20 A	0 VA	
8	EXISTING METERING / CONTROLS	3	600 A	20 A	0 VA	
9	EXISTING FEEDER SWITCH AND FUSE	3	600 A	20 A	0 VA	
10	NEW FEEDER SWITCH AND FUSE	3	600 A	125 A	0 VA	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
				Total Conn. Load:	0 VA	
				Total Amps:	0 A	

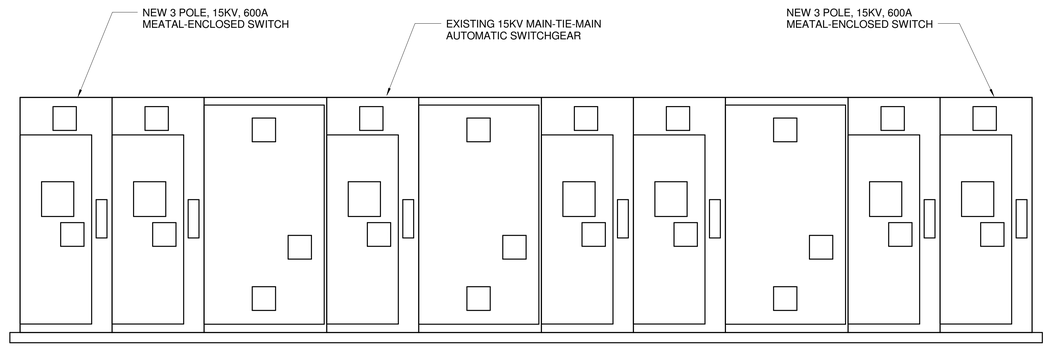
Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	0 VA	0.00%	0 VA		
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:



1 HOUSE SERVICE SWITCHBOARD ELEVATION
Scale: 1/2" = 1'-0"



2 EXISTING 15KV SWITCHGEAR ELEVATION
Scale: 1/2" = 1'-0"

A JOINT-VENTURE BETWEEN
PSA-DEWBERRY + PENZA BAILEY ARCHITECTS

EBA ENGINEERING
HOPE FURRER Associates, Inc.

SIDHU ASSOCIATES, INC.
Consulting Engineers
8300/8350 PHASE III, SUITE 1000
11350 MCCORMICK ROAD
HUNT VALLEY, MARYLAND 21031
PHONE (410) 329-1115

TERRALOGOS
ECO ARCHITECTURE, PC

R&R designer, inc.

LEWICKI ESTIMATING SERVICES, INC

STATE OF MARYLAND - DPSCS

BCDC YOUTH DETENTION CENTER

BALTIMORE MARYLAND

DESIGN DEVELOPMENT

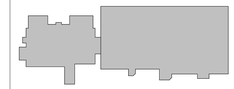
SEAL

PROFESSIONAL CERTIFICATION:
"I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"

LICENSE NO. 20469
EXPIRATION DATE: 06/03/2016

STATE OF MARYLAND · CHRISTOPHER SHEETS · 20469 · REGISTERED PROFESSIONAL ENGINEER

KEY PLAN



SCALE

1/2" = 1'-0"

No.	Description	Date

REVISIONS

DRAWN BY	Author
APPROVED BY	Approver
CHECKED BY	Checker
DATE	01-30-2015

TITLE

SWITCHBOARD SCHEDULE

PSA-DEWBERRY PROJECT NO. 50061725
DPSCS CONTRACT NO. KT-000-150-C01

E541

SHEET NO.