

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION
JOPPATOWNE, MARYLAND**

ADDENDUM NO. 2

May 11, 2020

ADDENDUM NO. 2

Please attach this Addendum to the Project Manual. The Addendum is hereby made part of the Contract Documents on which the Contract will be based and is issued to modify or correct the Original Contract Documents.

Bid Date: The Bid Date is **Thursday, May 21, 2020 at 10:00 A.M.** local time.

GENERAL:

- A2.0 BID DELIVERY AND OPENING PROCEDURE: DUE TO COVID-19 PROTOCOLS THE BID OPENING WILL BE BY "TEAMS MEETING". THERE WILL NOT BE AN IN PERSON BID OPENING.**
Any contractors submitting a bid, please email chuck.grebe@hcps.org and missy.valentino@hcps.org an email contact address to receive an invitation to attend the TEAMS meeting bid opening. Each firm will receive an email with a link to access the bid opening. The bid date is Thursday May 21, 2020. Sealed bids are due at 10:00 AM. MBE requirements are due by 10:30 AM.
- A2.1** See attached Agenda of the Pre-Bid Conference meetings. Also attached is the sign-in log of attendees.
- A2.2** Attached is report of Pre-Bid RFI Questions and responses to date for items PB-1 – PB-47. PB-34 is open. The response is included below with item A2.5. The report will be updated with the next Addendum.

PROJECT MANUAL

- A2.3** Project Manual: 00 83 00 General Scope of Work:
- 1. 2A Package:**
Add item 61. "The 2A Contractor shall remove and dispose of the existing concrete ramp next to the Auditorium as shown on drawings A-1.5 and A-3.2. The 6A Contractor will install the new concrete ramp and adjacent sidewalks."
 - 2. 6A Package:**
Add item 7. "6A Contractor shall remove the existing metal louvers at the existing door frames as noted on demolition plans and will provide and install the new metal panels shown on Drawing A-8.0."
"Delete Item 110. In its entirety."
Add item 199 "The 6A Contractor will furnish and install the new retaining wall as shown on Drawing A-3.2 in its entirety."

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3. 8A Package:
Delete from item 1. "Translucent Panels."
 4. See attached clarification sketch SK-Add#2.1.
- A2.4 Project Manual: 02 41 19 Selective Demolition: 3.3 Protection of Existing Systems During Demolition and Renovations, Item E: Delete reference to "Obtain the services of Baltimore Sound for final connections to the existing Data, Sound, and TV Systems."
- Insert: Refer To Specification Section 27 05 00, "Common Work Elements For Communications Systems" and for status of all low voltage (Division 27 and 28) systems, and specific information relative to work to be included in the contract versus Owner responsibilities for each system. Refer to Electrical Demolition Drawings (E1.xx series) for General Notes regarding temporary suspension of existing low voltage systems wiring and devices and demolition/removal of existing low voltage wiring and devices; and to Electrical Special Systems (E5.xx series) drawings for new work associated with all low voltage (Special) systems.
- A-2.5 Project Manual: 08 71 00 Door Hardware: Page 38, Hardware Set 32: add door A220.01 (at new IDF Room).
- A-2.6 Project Manual: 11 40 00 Food Service Equipment. Please insert attached Standard Detail 5.06 Vent Duct Detail at end of section. This is in response to RFI PB-34. Reference to this detail is Item #5 on page 48 of this section.
- A-2.7 Project Manual: 23 09 00 Building Automation System: Replace entire section with attached new section.
- A-2.8 Project Manual: 23 73 13.10 Custom Air-Handling Units: Replace entire section with attached new section.
- A-2.9 Project Manual: 25 55 00 Automatic Temperature Controls: Delete section in its entirety.
- A-2.10 Project Manual: 26 05 25 Basic Electrical Materials and Methods: Revise paragraph 2.3.E.1 to read as follows: "For branch circuits protected by an overcurrent protective device with trip rating of 400 amperes or less (conductor size #600 kCMIL or less), installed above dropped ceilings or within drywall partitions, type MC (metal clad) cable may be used where permitted by the NEC and local codes as interpreted by the local Electrical Inspector. No Romex (Type NM) or BX cable shall be permitted"
- A-2.11 Drawing Clarification - (Drawing not reissued) E0.11 Existing /New Power Riser Diagram
- A. MTS-1: Manual Transfer Switch MTS-1 shall be a 480-volt, 600 ampere, 3 Pole, Double Throw, non-fused disconnect switch in NEMA-1 enclosure. The feeder from this switch to OSDP-1 shall be Feeder 500E as indicated in the Circuit and Feeder Schedule on Drawing E0.15.

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B. MTS-2: Manual Transfer Switch MTS-2 shall be a 480-volt, 600 ampere, 3 Pole, Double Throw, non-fused disconnect switch in NEMA-1 enclosure. The feeder from this switch to OSDP-2 shall be Feeder 500E as indicated in the Circuit and Feeder Schedule on Drawing E0.15.

A-2.12 Drawing Clarification – (Drawing not reissued) E0.43 – Site Plan – Existing Conditions and new Work - Lighting: 2/E0.43 – Site Plan – New Work – Lighting – Entry Area: Conduit and branch circuit wiring serving Type OA Pole Lights in Front Entry Plaza shall be run in the east/west direction below the blacktop of the Bus Driveway Loop. Do not, under any circumstances, disturb steps or concrete plaza between planters and building or the steps between the planters. Excavate within planters to bring conduit out south side of the planters below grade. Saw cut and repair the sidewalk and curb on the south side of the planters. The driveway is to be resurfaced.

ATTACHMENTS:

Pre-Bid Meeting Agenda
Pre-Bid Conferences Sign-In Log
Pre-Bid RFI Report
SK-Add#2.1
Standard Detail 5.06 Vent Duct Detail
Project Manual Section 23 09 00 Building Automation System
Project Manual Section 23 73 12.10 Custom Air Handling Units

DRAWINGS: UNDER SEPARATE ATTACHMENT THE FOLLOWING DRAWINGS ARE REVISED AS PART OF THIS ADDENDUM.

ARCHITECTURAL:

G-0.1 INDEX – *Added Civil Drawings*
A-0.5 DOOR SCHEDULE – *Corrected door heights*
A-1.3 MAIN LEVEL FLOOR PLAN AREA C – *Horizontal duct chase detail notation*
A-1.6 UPPER LEVEL FLOOR PLAN AREA A – *New room IDF A220.-1*
A-2.3 MAIN LEVEL CEILING PLAN AREA C – *Coordination updates with duct and lighting in Rooms C120, C121, and C131*
A-2.5 MAIN LEVEL CEILING PLAN AREA E – *Added ceiling grid in four rooms, Corrected grid in Kitchen*
A-2.6 UPPER LEVEL CEILING PLAN AREA A – *Ceiling with new room IDF A220.01*
A-3.3 WINDOW REPLACEMENT ELEVATIONS – *Revised storefront door heights.*
A-3.4 WINDOW REPLACEMENT ELEVATIONS – *Revised storefront door heights. Delete W20*
A-3.5 WINDOW REPLACEMENT SECTIONS – *Revised storefront door heights.*
A-3.14 WINDOW REPLACEMENT SECTIONS – *Revised storefront door heights.*

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- A-5.4 WHEELCHAIR LIFT DETAIL NEW WORK SECTIONS, DUCT CHASE DETAIL – *Add Detail 6
Duct Chase Section*
- A-7.10 AREA E MAIN LEVEL ENLARGED PLANS AND INTERIOR ELEVATIONS – *Clarified exterior
ramp and wall*
- A-7.12 AREA A UPPER LEVEL ENLARGED PLANS AND INTERIOR ELEVATIONS – *Corrected sink
cabinet model numbers*
- A-11.1 ELECTRIC ROOM DEMOLITION AND FLOOR PLAN – *Dimension corrections*
- A-11.2 ELECTRIC ROOM RCP AND ROOF PLAN – *Clarified tapered roof insulation*
- A-11.3 ELECTRIC ROOM ELEVATIONS – *Dimension corrections*
- A-12.01 RESTROOM/CONCESSIONS BUILDING LIFE SAFETY PLAN, DOOR SCHEDULE, DETAILS –
Coiling Counter Door material notes.
- A-12.1 RESTROOM/CONCESSIONS BUILDING – *Revised Section markers*
- A-12.3 RESTROOM/CONCESSIONS BUILDING ELEVATIONS – *Revised Section markers*
- A-12.4 RESTROOM/CONCESSIONS BUILDING ELEVATIONS – *Coiling Counter Door material note
correction*
- A-12.6 RESTROOM/CONCESSIONS BUILDING SECTIONS – *Coiling Counter Door material note
correction*
- A-12.7 RESTROOM/CONCESSIONS BUILDING SECTIONS – *Coiling Counter Door material note
correction*
- A-12.8 RESTROOM/CONCESSIONS WALL SECTIONS – *Realigned section.*
- A-12.9 RESTROOM/CONCESSIONS BUILDING WALL SECTIONS – *Coiling Counter Door material note
correction*

CIVIL: REPLACE THE CIVIL DRAWINGS IN THEIR ENTIRETY WITH THE ATTACHED

- C-01 SITE IMPROVEMENTS TITLE SHEET
- C-02 SITE IMPROVEMENTS EXISTING CONDITIONS AND DEMOLITION PLAN
- C-03 SITE IMPROVEMENTS SITE PLAN
- C-04 SITE IMPROVEMENTS SITE ENLARGEMENT 1 OF 3
- C-05 SITE IMPROVEMENTS SITE ENLARGEMENT 2 OF 3
- C-06 SITE IMPROVEMENTS SITE ENLARGEMENT 3 OF 3
- C-07 SITE IMPROVEMENTS SITE UTILITY PLAN
- C-08.1 SITE IMPROVEMENTS SITE UTILITY PROFILES 1 OF 3
- C-08.2 SITE IMPROVEMENTS SITE UTILITY PROFILES 2 OF 3
- C-08.3 SITE IMPROVEMENTS SITE UTILITY PROFILES 3 OF 3
- C-09.1 SITE IMPROVEMENTS SITE DETAILS 1 OF 3
- C-09.2 SITE IMPROVEMENTS SITE DETAILS 2 OF 3
- C-09.3 SITE IMPROVEMENTS SITE DETAILS 3 OF 3
- C-10.1 SITE IMPROVEMENTS RETAINING WALL 1 OF 3
- C-10.2 SITE IMPROVEMENTS RETAINING WALL 2 OF 3
- C-10.3 SITE IMPROVEMENTS RETAINING WALL 3 OF 3
- C-11 PUBLIC WATER & SEWER PUBLIC WATER TITLE SHEET
- C-12 PUBLIC WATER & SEWER PUBLIC WATER PLAN
- C-13 STORM WATER MANAGEMENT TITLE SHEET
- C-14 STORM WATER MANAGEMENT PLAN

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- C-15 STORM WATER MANAGEMENT ESD DRAINAGE AREA MAPS
- C-16 STORM WATER MANAGEMENT QUANTITY DRAINAGE AREA MAPS
- C-17 STORM WATER MANAGEMENT DETAILS
- C-18 STORM WATER MANAGEMENT NOTES
- C-19 STORM WATER MANAGEMENT PROFILES
- C-20 STORM WATER MANAGEMENT LANDSCAPING PLAN
- C-21 EROSION AND SEDIMENT CONTROL TITLE SHEET
- C-22 EROSION AND SEDIMENT CONTROL OVERLAY PLAN
- C-23.1 EROSION AND SEDIMENT CONTROL NOTES AND DETAILS 1 OF 2
- C-23.2 EROSION AND SEDIMENT CONTROL NOTES AND DETAILS 2 OF 2

MECHANICAL:

- M0.01 MECHANICAL GENERAL NOTES & DEMOLITION NOTES – *Drawing List updated*
- M0.12 HEATING WATER RISER DIAGRAM - *Hot water mixing valve for outside air temperature reset added to riser diagram.*
- M0.23 MECHANICAL SCHEDULES (CONTINUED) - *Fan terminal unit FTU-E-11 for stage area added to schedule.*
- M1.05 MAIN LEVEL FLOOR PLAN - AREA E - HVAC EX. COND. & DEMOLITION - *Additional ductwork to be removed due to substitution of DRH-1 with FU-E-11.*
- M2.01 MAIN LEVEL FLOOR PLAN – AREA A – HVAC EX. COND. & NEW WORK
 - A. *Adjustment to routing of bathroom exhaust ductwork.*
 - B. *Plenum above Kiln Room to be sectioned off to eliminate possible mixing of dryer, bathroom and general exhaust.*
- M2.03 MAIN LEVEL FLOOR PLAN – AREA C – HVAC EX. COND. & NEW WORK
 - A. *Layout of ductwork, heating water piping and fan terminal units in "FOT LAB – C131" modified for structural/lighting coordination.*
 - B. *Layout of ductwork, heating water piping and fan terminal units in "FOT LAB – C121" modified for structural/lighting coordination.*
 - C. *Layout of ductwork, heating water piping and fan terminal units in "MULTIPURPOSE ROOM – C120" modified for structural/lighting coordination.*
 - D. *Layout of ductwork, heating water piping and fan terminal units in "CORRIDOR – C102" modified for structural/lighting coordination.*
- M2.05 MAIN LEVEL FLOOR PLAN – AREA E – HVAC EX. COND. & NEW WORK
 - A. *Added transfer air ductwork and associated air devices serving "CUST – E139".*
 - B. *Added return air duct work and associated air devices in "CORRIDOR – E100".*
 - C. *Removed Door Undercut's in rooms adjacent to "CORRIDOR – E100".*
 - D. *Duct Re-Heat Coil serving stage changed to constant volume Fan Terminal Unit.*
 - E. *Relocated air device that was conflicting with Cooler in "KITCHEN-E111".*
- M2.09 BOILER ROOM PART PLAN – HVAC EX. COND. & NEW WORK
 - A. *Four (4) Electric Unit Heaters added to room.*
 - B. *Chemical treatment equipment located in room.*
 - C. *Note for housekeeping pads added.*
 - D. *Building Automation System control panel added.*
- M2.10 MAIN AIR HANDLING UNIT ROOM PART PLAN – HVAC EX. COND. & NEW WORK - Two (2)
Electric Unit Heaters added to room.

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- M2.11 CHILLER YARD PART PLAN - HVAC NEW WORK
 - A. *Location of Temporary Boiler shifted.*
 - B. *Added notes providing mounting information on Mechanical Equipment serving Main Electric Room.*
- M3.01 ROOF PLAN - HVAC NEW WORK - *Duct routing of RTU-4 modified.*
- M3.03 TUNNEL PART PLAN - HVAC EXISTING CONDITIONS AND NEW WORK - *Duct routing modified in boiler room.*

ELECTRICAL:

- E0.01 ELECTRICAL SYMBOLS, ABBREVIATIONS AND NOTES -
- E0.22 ELECTRICAL SCHEDULES - *Updated panel schedules.*
- E0.23 ELECTRICAL SCHEDULES- *Updated panel schedules.*
- E0.26 ELECTRICAL SCHEDULES- *Updated panel schedules.*
- E0.27 ELECTRICAL SCHEDULES- *Updated panel schedules.*
- E0.29 SCHEDULE OF TELECOMMUNICATION OUTLETS
 - A. *Updated notes.*
 - B. *Added Details of Classroom Telecomm Devices*
- E2.02 MAIN LEVEL AREA B - POWER - *Revised room name from "Cust. b126" to "Elec. b126."*
- E2.05 MAIN LEVEL AREA E - POWER
 - A. *Added symbology and circuits for EUH's & VF-7 in main electric room (VF-7 had a circuit just not symbology)*
 - B. *Added symbology and circuits for FCU-5*
- E2.09 LOWER LEVEL AREA D - POWER - *Added symbology and circuits for EUH's*
- E2.10 PARTIAL ROOF PLAN ELECTRICAL - *Revised schedule of mechanical equipment connections, added row for HP-5*
- E3.02 MAIN LEVEL AREA B - BASE BID LIGHTING - *Added light fixture tags for wall packs*
- E3.03 MAIN LEVEL AREA C - BASE BID LIGHTING - *Shifted light fixtures and added (2) light fixtures in FOT C121.*
- E3.05 MAIN LEVEL AREA E - BASE BID LIGHTING - *Removed light fixtures showing over new cooler in main kitchen, revised light fixtures in OFFICE E138, CUST E239, TCKT E140, IDF E141*
- E4.03 MAIN LEVEL AREA C - ADD ALTERNATE LIGHTING - *Shifted light fixtures and added (2) light fixtures in FOT C121.*
- E4.05 MAIN LEVEL AREA E - ADD ALTERNATE LIGHTING - *Removed light fixtures showing over new cooler in main kitchen, revised light fixtures in OFFICE E138, CUST E239, TCKT E140, IDF*
- E6.02 ELECTRICAL PART PLANS - *Added receptacle for chemical treatment system, added power for EUH's in boiler room*
- E6.07 ELECTRICAL PART PLANS - *Shifted light fixtures in MULTIPURPOSE ROOM C120*

FIRE PROTECTION:

- F0.01 FIRE PROTECTION, SYMBOLS ABBREVIATIONS AND NOTES - *Revised drawing list,*
- F2.01 MAIN LEVEL ZONING PLAN - AREA A - FIRE PROTECTION - *Revised fire protection drawings to document removal of existing sprinkler system and installation of new complete system.*

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- F2.02 MAIN LEVEL ZONING PLAN – AREA B – FIRE PROTECTION – *Revised fire protection drawings to document removal of existing sprinkler system and installation of new complete system.*
- F2.03 MAIN LEVEL ZONING PLAN – AREA C – FIRE PROTECTION – *Revised fire protection drawings to document removal of existing sprinkler system and installation of new complete system.*
- F2.04 MAIN LEVEL ZONING PLAN – AREA D – FIRE PROTECTION – *Revised fire protection drawings to document removal of existing sprinkler system and installation of new complete system.*
- F2.05 MAIN LEVEL ZONING PLAN – AREA E – FIRE PROTECTION – *Revised fire protection drawings to document removal of existing sprinkler system and installation of new complete system.*
- F2.06 UPPER LEVEL ZONING PLAN – AREA A – FIRE PROTECTION – *Revised fire protection drawings to document removal of existing sprinkler system and installation of new complete system.*
- F2.07 UPPER LEVEL ZONING PLAN – AREA B – FIRE PROTECTION – *Revised fire protection drawings to document removal of existing sprinkler system and installation of new complete system.*
- F2.08 LOWER LEVEL ZONING PLAN – FIRE PROTECTION – *Revised fire protection drawings to document removal of existing sprinkler system and installation of new complete system.*

End of Addendum No. 2

HARFORD COUNTY PUBLIC SCHOOLS
PRE-BID CONFERENCE AGENDA
Joppatowne High School
Limited Renovation

Tuesday May 5th: 9:00 am 2A, 10:30 am 8A & 9A, 1:30 pm 6A

Wednesday May 6th: 9:00 am 15A, 1:00 pm 16A

I. INTRODUCTIONS

A. Opening Comments

1. Welcome to Harford County Public Schools for the Pre-Bid Conference for the New Joppatowne High School Limited Renovation Project.

2. Introduction of Guests:

A. Harford County Public Schools:

Charles Grebe, Assistant Supervisor in Planning & Construction

Christopher Morton, Supervisor of Facilities Management

Stephen Fantasie, Construction Project Assistant

Banta Campbell Architects:

Mike Campbell, President

George W. Stephens, Jr. & Associates, Inc.

Wayne Karch, Civil Engineer

Bala/SVA Consulting Engineers:

Stephen Spinazzola, Mechanical Engineer

Richard Williams, Electrical Engineer

Oak Contracting Construction Manager:

Jim Folkemer, Project Manager

Joe Tiberi, Director of Pre-Construction

James Fowler, MEP Coordinator

Eric Green, Superintendent

3. Project Description- It was determined that a Limited Renovation is the most feasible and economical method to address the school's systemic needs and address the most critical educational needs.

Educational Enhancements include spaces for Homeland Security signature program, Child Development Labs, Professional Foods Lab, Graphic Lab and related support classrooms. Additionally, HCPS will coordinate with Harford Community College with a flex space for partnership.

Structural includes correcting areas where the slab and interior walls have settled over

the years due to settlement of soil below the slab per the structural engineers report. The replacement of brick veneer along the south auditorium stage from where water penetrated behind the wall. New windows and storefronts throughout the building to be more energy efficient. Replacement of the metal pan ceiling throughout with new acoustical ceilings.

Mechanically the facility is operating on HVAC equipment and systems that are over 35 years old. Replace the water-cooled chiller with air cooled chiller, provide VRF system in the Administration core, new air handling equipment, new DOAS equipment, new ATC. Plumbing: replace the existing domestic water service, the existing storm system is terra cotta that was found to be clogged and broken in many places. The piping will be replaced with cast iron.

Electrical: the existing electrical service will be upgraded to meet current codes.

Fire Service: replace existing domestic water service that supports the fire sprinkler system.

Other work: Replace ADA compliant door and hardware, replacement of exterior doors, replacement of floor finishes, replacement of toilet partitions, replacement of student lockers, replacement of majority of toilet and lavatory fixtures. Replacement of existing stadium bleachers and press box.

II. ADMINISTRATIVE DETAILS

- A. Sign-in Sheet - Please sign in
- B. Availability of Plans & Specs - Bid Documents may be obtained **through the Construction Manager Oak Contracting LLC, 1000 Cromwell Bridge Road, Towson, MD 21286; (410) 828-1000.** To register as a bidder and to have access to the Bid Documents please contact Michele Wixsom at mwixsom@oakcontracting.com or Steve Krell skrell@oakcontracting.com by email.
- C. Bidding & Project Schedule - Sealed bids will be received by the Board of Education of Harford County in the Harford County Public Schools Administration Building Board Meeting Room, 102 S. Hickory Avenue, Bel Air, MD 21014 as follows:
 - **May 21, 2020 @ 10:00 AM:** Contract Packages 2A Sitework, 6A General Trades, 8A Entrances & Storefronts, 9A Finishes, 15A Mechanical and 16A Electrical. No later than 10:30 AM submit MBE Attachments 1A. **All bids will be publicly opened and read aloud at 10:30 AM.**

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- Bid documents are to be submitted in duplicate.
10% Bid Bond is also required.
- D. Bid Opening Procedures
 - BOE Approval – June 8, 2020
 - IAC Approval – July 9, 2020
 - NTP – July 10, 2020
 - Substantial Completion: July 31, 2022
- E. Contractor Qualification Statement
 - Contractor's wishing to submit proposals issued by Harford County Public Schools shall be pre-qualified by HCPS as set forth by the Code of Maryland Regulations (COMAR), Article 21.05.02.05. Contractor shall submit a Contractor's Qualification Statement (AIA Document 305 – 1986) three (3) days prior to receipt of bids, to HCPS Planning & Construction Department. Can be emailed to my attention: chuck.grebe@hcps.org
- F. Prevailing Wage
 - Maryland State Prevailing Wage rates will apply to this project because there is more than 50% State Participation.
- G. Alternates - There are 10 Alternates on this project:
 1. Demolition of existing stadium bleachers and press box. Construction of new metal bleacher and press box system.
 2. Construction and installation of concessions/restroom building in stadium area.
 3. Construction and installation of team/storage building in stadium area.
 4. Replace designated hardware at doors in gymnasium and lower lever locker area.
 5. Replace macadam walk adjacent to curb at west side of drive adjacent to building and extending west to Falconer Road.
 6. In lieu of installing existing fluorescent lighting fixtures in new ceilings, all existing lighting fixtures with LED type fixtures as indicated on electrical drawings.
 7. Replace existing metal student lockers with new, replace existing metal toilet partitions with new plastic toilet partitions.
 8. Replace two existing steam kettles and steam dishwasher in kitchen. Replace existing kitchen hood.
 9. Kitchen E111: revise existing freezer/cooler into a single freezer. Revise exterior panels for single entry door. Add new cooler box at southwest corner of E111.
 10. Window replacement: two story window replacements in Area A and B with modified curtain wall window detailing. Refer to drawings on sheet A-3.15.

III. MINORITY BUSINESS ENTERPRISE PROCEDURES

Bidders are to please carefully read the MBE instructions and information. If there are any questions please call HCPS at 410-638-4090.

- A. Each Trade Package has a Goal – Please look at Goals and Subgoal requirements that have been set for each Trade package.
 - 2A Sitework: 15% - 7% African American, 4% Asian American
 - 6A Carpentry: 30% - 7% African American, 4% Asian American
 - 8A Aluminum Framed Entrances: 15% - 7% African American, 0% Asian American
 - 9A Drywall & Acoustical: 15% - 7% African American, 4% Asian American
 - 15A Mechanical: 25% - 7% African American, 4% Asian American
 - 16A Electrical: 25% - 7% African American, 4% Asian American
- B. Documents required with bid:
 - 1. Bid Bond
 - 2. Affidavit of Qualification to Bid
- C. Documents required within thirty (30) minutes of submitting the bid proposal:
 - 1. Attachment “1A” – Certified MBE Utilization and Fair Solicitation Affidavit & MBE Participation Schedule

Note: Bid Bond, Attachment “1A”, must be submitted in proper form and content at the time of bid opening or the bid will be rejected as non-responsive.

- D. Documents required by low bidder within 10 days:
 - 1. Outreach Efforts Compliance Statement
 - 2. Statement of Intent
 - 3. Request for Exception Form
 - 4. Minority Business Contractor Unavailability Certificate

IV. EMPLOYMENT OF SEX OFFENDERS AND OTHER CRIMINAL OFFENDERS

- A. Section 11-722 of the Criminal Procedure Article of the Maryland Code prohibits any person with a contract with a local Maryland school system from knowingly employing an individual to work at the school if the individual is registered as a sex offender pursuant to Section 11-704 of the Criminal Procedure Article.

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- B. The Contractor shall acknowledge the following requirements of Section 11-722 of the Criminal Procedure Article, and Section 6-113 of the Education Article, Annotated Code of Maryland.
- C. Direct unsupervised and uncontrolled access with students is prohibited. If you, as the Contractor/Site Supervisor, witness or suspect your employee(s) entering into a student area, action must be taken immediately to rectify the situation.
- D. The apparent low bidder shall complete and submit the Employment of Sex Offenders and Other Criminal Offenders Affidavit, (Section 006400), which is specified in the bid documents within ten (10) working days after notification that the firm is the apparent low bidder.

V. ARCHITECT INFORMATION

- A. Permits – HCPS will pull the Building Permit and apply for the Demolition Permit. Prior to approving the Demolition Permit for the project, there must be an electrical, plumbing and mechanical demolition permits in the system.
- B. Administrative Information. All questions regarding the bid, or the Documents, must go through Oak Contracting, send questions by email (in MS WORD format) to Jim Folkemer at jfolkemer@oakcontracting.com.
- C. Addenda: Last day for questions is 6 days prior to bid, May 15, 2020. Please acknowledge addenda on front page of the Form of Proposal.
- D. Clarifications:
 - *) The contractors were reminded that they are to have the Contract Package number on the outside of both envelopes when submitting their bid. The envelope with the Form of Proposal, MBE Attachments, and the Bid Bond, it should state if MBE Attachments 1A are enclosed or if MBE Attachment 1A is in a second envelope.
 - *) If anyone would like an up to date listing of bidders to contact Jim Folkemer at jfolkemer@oakcontracting.com and he will email you the most current listing.
 - *) As a result of this meeting there will be an addendum issued. Bidders are to start listing addenda on the Form of Proposal with number one (1) as the first.
 - *) In all contract packages, specification sections are referenced. These are the first tier specification sections, bidders are cautioned to refer to the "RELATED SECTIONS" portion in these first tier specifications to see what other specifications apply.
 - *) Glass containers (e.g. soda bottles, glass jars, etc.) are not permitted on the job!
 - *) The bidders were reminded how it is their contractual obligation to furnish their superintendents with all addenda on the prints and specs before coming to the site. Use of prints or specs without addenda is prohibited.

- *) The bidders were told that all questions are to go through Oak Contracting.
- *) All bidders were issued a password to be able to download the complete set of Documents in digital form and all bidders are to familiarize themselves with all the sheets of prints, all the pages in the specifications, and all addenda. An excuse for not having something in a bid, just because it was not where the bidder was looking, will not be accepted when the project is underway.
- *) The bidders were reminded, that once under contract, they are prime contractors with their own mandatory, full time superintendent on the job, that has fully read the specifications and understands the scope of work for this contract package. This contractor will be required to have a field office and necessary sheds while working on this project. Before starting work on the site, the superintendent for the contractor will be required to sign the CM's specification to signify that the superintendent has read and understands the contract documents. Once on the project the superintendent will not be changed without permission from the Owner! The Contractor's superintendent will also be responsible to coordinate the work of his entire crew, including the work of a subcontractor and a sub-subcontractor! If a subcontractor, or even a sub-subcontractor, is working on non-work hours (weekends, holidays, evenings, etc.) the superintendent of the contractor shall also be present.
- *) The bidders were reminded how it is their contractual obligation to furnish their superintendent with all addenda on the prints and specs before coming to the site. Use of prints or specs without addenda is prohibited.
- *) The work times are 7:00 AM to 7:00 PM, Monday through Friday.
- *) Soil testing for compaction and material testing will be performed by the Owner.
- *) At time of substantial completion, the 2A Contractor shall provide a full certified survey of the entire site. This survey must be sealed by a registered land surveyor.
- *) In the Contract package the word Contractor is used. The word Contractor means the Contractor of the package being described (in the 16A Package the word Contractor means the Electrical Contractor, in the 15A Package it means the Mechanical/Plumbing Contractor, etc.), not some other contractor or the CM.
- *) A CPM schedule will be co-authored with the successful contractors once the contracts are signed.
- *) The bidders were told that all active Contractors are required to attend the progress meetings, weather permitting, and these meetings will be tape/digitally recorded to assist in the writing of minutes.

- *) All meetings will be documented, and digital photos will be taken to document the progress of the work.
- *) Bidders were reminded that all Contractors are required to submit “As-Built” Drawings prior to receiving final payment, along with O&M manuals, warranties and Commissioning. Refer to Division 1 of the Specifications for information. Prior to approving the monthly requisition contractors will be asked to show their on-site copies of their As-Builts to the Architect/Owner/CM before the requisition from that contractor is approved.
- *) The requirement for coordinated drawings will be strictly enforced.
- *) It was pointed out how all contractors are responsible for Divisions 0 and 1 of the Project Specifications.
- *) Requisitioning for products without an approved shop drawing will not be permitted.
- *) There will be weekly superintendent’s coordination meetings held on site and all active contractors must have their superintendents in attendance.
- *) During the entire course of this project, all contractor’s personnel are to wear hard hats at all times even when the project is winding down. Each hard hat is to have the company Logo on it (or the company name) on the front and on the back of the hard hat the first name of the person wearing the hard hat. There will also be badges issued to workmen who have to perform work inside the building, before being issued a badge, a photocopy of a driver’s license will be made and kept on file. A background check of each individual will be performed prior to issuance of the badge. Violators of this requirement (the hard hats and badges) will be fined \$100.00 per occurrence!
- *) No boom boxes or other forms of radio/music sources are permitted on this project! Any such devices brought to the jobsite will be confiscated and destroyed!
- *) Every bidder to carefully and completely familiarize themselves with the Bid Documents. Just because things were done in a certain way on a previous Harford County Public School projects doesn’t necessarily mean they will be done the same on this project.
- *) The 15A Contractor shall cooperate with, provide any and all documents to, and assist the Commissioning Authority as outlined in the Specifications.
- *) The existing Harford County Public Safety Bi-Directional Amplifier and antenna system (light blue coax cable) is noted on the Electrical Demolition Drawings to remain in service. This system must be protected and remain in service throughout the construction, including in active construction areas.

Youth's Benefit Elementary School – Pre-bid

May 15, 2014

- *) The emergency generator will provide for a "Community Area of Refuge" All work in the Cafeteria, Kitchen, Gymnasium, Locker Rooms, Main Lobby, Administrative Suite and adjacent circulation areas will be on Emergency power.
- *) Mechanical and Electrical specifications require that "Prior to submission of any shop drawing submittals, and not more than thirty (30) days after award of the contract, submit to the Engineer, for approval, a complete list of all Sub-Contractors, Materials and Equipment Manufacturers proposed for the project. This list shall include the proposed manufacturer of all equipment proposed for the project." These must be submitted and approved before any submittals will be accepted or reviewed.
- *) The MDF, which is the Communications Hub of the building, is to be reconfigured during the first summer. While there will be on-going work in this room throughout the project, the basic reconfiguration of the room, and basic power distribution inside the room, with a temporary feed to the new panelboard, must be completed prior to start of school in September 2020, with sufficient time for HCPS to complete their work to get the school data network, sound system and other systems up and running.
- *) Corridor ceilings are to be removed in an early stage of the construction, and will remain out during much of the project. Until new systems and ceilings are installed, the existing lighting fixtures and ceiling mounted devices are to be temporarily supported from the existing structure. Existing low voltage cabling is to be assumed to be unsupported. The Electrical Demolition Drawings call for new J-Hooks and temporary support of all existing cables.
- *) All questions must go through Oak Contracting and any conversations with the Architect or Engineer are not binding.

VI. TOUR OF SITE

VII. CONCLUSIONS

2A Pre-Bid Meeting Attendance Sheet

Joppatowne High School

Limited Renovation Project

Tuesday, May 5th, 2020 - 9:00 a.m.

Joppatowne High School

555 Joppa Farm Road, Joppa, MD 21085

Bid Opening - Thursday, May 21, 2020 - 10:00 a.m.

Harford County Public Schools Administration Building

Board Room

102 South Hickory Avenue, Bel Air, Maryland

CHUCK GRABE	HCPS POC	410-638-4890	chuck.grabe@hcrs.org
MIKE CAMPBELL	BANTA CAMPBELL ARCHITECTS	410-290-9000	mcampbell@ bantacampbell.com
JOE TIBERI	OAK CONTRACTING	410-828-1000	jtiberi@ oakcontracting.com
DAN CRISPINO	GOEL SERVICES	757-42-8778	dcrispino@goel-service.com
WAYNE KARCH	GW STEPHENS	410-297-2340	wkarch@gwstephens.com
Jim Ormod	ARC	443-618-1170	jim@arc-md.com
Nick Thrapp	ARC	443-618-1170	nick@arc-md.com
Jason Walker	Custodial Coordinator	443-687-4253	Jason.Walker@HCPS.org
Jim Folkemer	OAK CONTRACTING	410-828-1000	JimFolkemer@ OAKCONTRACTING.COM

8A & 9A Pre-Bid Meeting Attendance Sheet
Joppatowne High School
Limited Renovation Project
 Tuesday, May 5th, 2020 - 10:30 a.m.
 Joppatowne High School
 555 Joppa Farm Road, Joppa, MD 21085
Bid Opening - Thursday, May 21, 2020 - 10:00 a.m.
Harford County Public Schools Administration Building
Board Room
102 South Hickory Avenue, Bel Air, Maryland

Bob Bete	Barnes Paving	410-838-0900	bob@barnespaving.com
Frank Wood	Servicon	240-538-6198	frankw@servicon-usa.com
Frank Russell	Servicon	443-975-2353	frankr@servicon-usa.com
Luke Jackson	The Joyce Agency	(302) 635-6670	luke@thejoyceagency.com
Joe Merrey	Gray & Son Inc	410-771-4311	jmerrey@grayson.com
Jason Walker	HCPs Custodial Coordinator	442-987-4253	jason.walker@hcps.org
KARL FAUSER	Apex Piping Sys	302-433-9821	KFAUSER@ApexPiping.com
KEITH FARLESS	TMI GENERAL CONTRACTORS 8051 OAKLEIGH ROAD PARKVILLE, MD 21234	(410) 668-1210 (GA PACKAGE)	KFARLESS@TANSONMECHANICAL.COM
Chuck Grebe	HCPs POC	410-638-4098	Chuck.grebe@hcps.org
Hunter Parrott	North Point Builders	410-241-4161	hparrott@npbinc.com

102 South Hickory Avenue, Bel Air, Maryland

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6A Pre-Bid Meeting Attendance Sheet

Joppatowne High School

Limited Renovation Project

Tuesday, May 5th, 2020 - 1:30 p.m.

Joppatowne High School

555 Joppa Farm Road, Joppa, MD 21085

Bid Opening - Thursday, May 21, 2020 - 10:00 a.m.

Harford County Public Schools Administration Building

Board Room

102 South Hickory Avenue, Bel Air, Maryland

Chuck Grebe	HCPSS PAC	410-638-4690	chuck.grebe@hcps.org
Dennis Bartkowiak	EMR Douglas Equip.	443-463 6136	dbart@emrca.com
Elmer Sacal Kot	Advanced Security Safe and Lock 6318 Rafterstown RD 402415	410-464-2001 410-561-6031	24AMPMLOCKSMITH@GMAIL.COM
KEITH FARLESS	TNI GENERAL CONTRACTING 8601 DAKLEIGH ROAD PARKVILLE, MD 21234	(410) 668-1210 (410) 668-1364	KFARLESS@TNIGENERAL.COM
BROOK BEHNER	Homewood G.C. 9710 Monroe St. Cockeysville, Md. 21030	410-628-8996 410-628-2158	ESTIMATING@HOMEGOODGENERAL.COM
Hunter Parrott	North Point Builders	410-241-4161	hparrott@npbinc.com
Adam Carbasz	ISI Demo	410-335-0381	adam@isidemo.com
Warren Pumprey	ISI Demo	410-335-0381	warren@isidemo.com
Logan Vitek	Brewner Builders 11011 Macomack Rd. P.O.	410-344-3750	logan.vitek@brewnerbuilders.com
Chris Bottom	PCS	443-257-7288 410	bids@powercomponentsystems.com

15A Pre-Bid Meeting Attendance Sheet
Joppatowne High School
Limited Renovation Project
 Wednesday, May 6th, 2020 - 9:00 p.m.
 Joppatowne High School
 555 Joppa Farm Road, Joppa, MD 21085
Bid Opening - Thursday, May 21, 2020 - 10:00 a.m.
Harford County Public Schools Administration Building
Board Room
102 South Hickory Avenue, Bel Air, Maryland

Chuck Grebe	MCPS Proc	410-638-4090	chuck.grebe@hcs.org
GREG EBERWEIN	MARYLAND MECA	410-327-4750	GEBERWEIN@MARYMECA.COM
Steve Frank	RALISA	443-791-7105	rsdo@ralisa.com
Stefan Burton	Superior Auto. Sprinkler	303-842-0061	Stefanwithsuperior@outlook.com
Steven Bosse	Rommel Construction	410-252-7100	Bosse@rommusa.com
Bill KERRINER	Rommel	410-252-7100	WKERRINER@rommusa.com
Dave Shephard	TOWSON Mechanical	410-668-1210	dshophard@towsomechanical.com Dustin@Templeairconfr.com
Dustin Shephard	TEMP A/C CO	410-358-8078	
DAN SHANAHAN	DENVER-ELEK	410-574-8400	dshanahan@denver-elek.com
Mickey Glendon	G. E. Tjornell	410-666-3000	myglendon@getjornell.com
Jim Fowler	DAK		

102 South Hickory Avenue, Bel Air, Maryland

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102 South Hickory Avenue, Bel Air, Maryland

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Request for Information Summary Log with Answers

Joppatowne High School - Limited Renovation (1908)
Request for Information Summary Log with Answers

555 Joppa Farm Road
Joppatowne, MD 21085

Number	Status	Subject	Created On	Question	Date Resolved	Answer
PB-01	● Closed	Wall Section A-12.9 - Counter Shutters	04/28/2020	<p>Wall section A-12.9 calls for counter shutters of anodized aluminum. Spec section 08 33 13-3 2.2 components, e. hardware , b. calls for motors. Sub section f, calls for galvanized steel slats, not anodized aluminum.</p> <p>So are we looking for galvanized slats or anodized aluminum?</p> <p>Are the doors to be motorized?</p>	05/05/2020	<p>Notes on A12.9 will be revised to reflect galvanized metal in lieu of anodized aluminum. Slats will also be galvanized.</p> <p>The units will be manually operated.</p>
PB-02	● Closed	Request to add Manufacturer	04/27/2020	<p>Please see request below from Havtech.</p> <p>We request that Aeon be added to the list of acceptable bidders for Variable Air Volume Packaged Rooftop Units – Spec Section 237413.</p> <p>We request that Daikin be added to the list of acceptable bidders for the Split System Air Conditioners – Spec Section 238129.</p>	04/27/2020	<p>Only the manufacturers listed in the current specification are acceptable on this project</p>
PB-03	● Closed	Existing Equipment	04/27/2020	<p>Our question is about the specifications bid form:</p> <p>ADD ALTERNATE 8 & 9 have to do with replacing existing steam equipment and revising existing cooler/freezer to a freezer only. The specs or drawings do not show us any existing equipment. Can you please clarify what is needed."</p>	05/05/2020	<p>The items are alternates to identify specific costs that will be carried by HCPS Food Services in lieu of the construction budget. Steam is being removed from the building to these items are being replaced.</p>

Joppatowne High School - Limited Renovation (1908)
Request for Information Summary Log with Answers

555 Joppa Farm Road
Joppatowne, MD 21085

Number	Status	Subject	Created On	Question	Date Resolved	Answer
PB-04	● Closed	"Services" for data, sound, and TV systems final connection	04/28/2020	<p>In Project Manual 1, under 02 41 19-24 Selective Demolition, section 3.3E states the following: "Obtain the services of Baltimore Sound for final connections to the existing Data, Sound, and TV Systems."</p> <p>Baltimore Sound was purchased by CTSI in 2017. Could you please clarify who we should obtain services from for the final connections to the existing data, sound, and TV systems?</p>	05/05/2020	<p>Delete reference to "Obtain the services of Baltimore Sound for final connections to the existing Data, Sound, and TV Systems."</p> <p>Refer To Specification Section 27 05 00, "Common Work Elements For Communications Systems" and for status of all low voltage (Division 27 and 28) systems, and specific information relative to work to be included in the contract versus Owner responsibilities for each system. Refer to Electrical Demolition Drawings (E1.xx series) for General Notes regarding temporary suspension of existing low voltage systems wiring and devices and demolition/removal of existing low voltage wiring and devices; and to Electrical Special Systems (E5.xx series) drawings for new work associated with all low voltage (Special) systems.</p> <p>Will clarify this in the next Addendum.</p>
PB-05	● Closed	Fixture Type Drawing E-3.02	04/28/2020	On print E3.02 the fixture type is missing on the outside wall mounted fixtures and can you identify these fixtures?	05/06/2020	The referenced exterior fixtures are type OB3.
PB-06	● Closed	Tile in restrooms	04/30/2020	on the elevation of the Restrooms A-7.1 & A-7.2 they are showing just the wet walls getting tiled. Just want to clarify that they are not tiling the entire restrooms on the walls	05/05/2020	<p>New Porcelain Ceramic wall tile in renovated existing gang toilets:</p> <p>New porcelain ceramic till will be on new walls (Wall Types B and E) in toilets and newly furred walls (Wall Type L) in renovated gang toilets. The remaining walls are structural glazed tile to remain. Toilet Rooms A110, A127, A130, B110, B125, B130, D154, D155, A211, A227, B211, B229.</p> <p>Newly constructed toilets:</p> <p>New porcelain ceramic tile on all walls. A112A, C124B, D114, D117, D118, D143, D144, D171, D162, D172.</p>
PB-07	● Closed	Plan Discrepancy	04/30/2020	<p>Will there be another issued set of plans? The Civil plans do not show what is what on the site plan and there are no detail numbers. There is no way to tell what is called out as what, specifically.</p> <p>Also, the legend for Alt. 5 on C-03, please clarify what this legend is for.</p>	05/06/2020	There will be an update to Civil drawings provided with Addendum No. 2. The above items will be addressed.

Number	Status	Subject	Created On	Question	Date Resolved	Answer
PB-08	● Closed	Blinds	04/30/2020	Do they want the blinds on --all exterior windows including corridors and entrances or just classrooms/offices? --interior windows? --interior sidelites, doorlites?	05/05/2020	Blinds will be located at: All exterior regularly occupied spaces (Classrooms, Media Center, Multipurpose, FOT Labs, Kitchen, Offices, etc.) Interior at individual Offices (Resource, Security Liason, SB Counsel., etc) and Planning Spaces. Blinds will not be located at: Exterior entry/exits doors and adjacent storefront. Classrooms, Seminar spaces, any student occupied area.
PB-09	● Closed	Glass Types	05/01/2020	1. The glass types provided in section 088000 do not appear to be used in the drawings. Please confirm the following: A) Glass type SG-CT should be used at all interior frames, except where noted to be fire rated. B) Glass type IG-DP should be used at all exterior frames, except where noted as spandrel or insulated metal panels. Please also confirm that Solarban 60 low-e should be used in this makeup (similar to FG-EHS). C) Where spandrel glass is labeled, the unit should be the same as IG-DP (including low-e) but adding ceramic frit spandrel coating to the #4 surface. D) Please provide a specification for insulated metal panels.	05/05/2020	Confirming use of glass types: A) Glass type SG-CT should be used at all interior frames, except where noted to be fire rated. B) Glass type IG-DP should be used at all exterior frames, except where noted as spandrel or insulated metal panels. Please also confirm that Solarban 60 low-e should be used in this makeup (similar to FG-EHS). C) Where spandrel glass is labeled, the unit should be the same as IG-DP (including low-e) but adding ceramic frit spandrel coating to the #4 surface. D) Insulated Metal Infill Panels shall be similar to Mapes -R panels. 1" anodized aluminum faces over substrate layer and polystyrene insulation minimum R-4.74. Similar products by: Citidal Glazeguard 1000 WR, H&H Metals, and Laminators Thermolite.
PB-10	● Closed	Proposed Schedule	05/03/2020	Can a schedule be provided giving us a rough idea of when the different trades will be required on site? Also, in the 8A scope item 14 notes that some activities will need to be performed at night. Please provide more detail as to what needs to be done at night so we can build it into our pricing. Refer to drawing G-1.3 you rough schedule.	05/05/2020	Refer to drawing G-1.3 shows the "Rough" construction schedule.
PB-11	● Closed	Door Type Conflict	05/03/2020	On sheet A-0.4 door #A100.01 is labeled as hollow metal and a new door going into an existing frame. On sheet A-1.1 this door appears to be labeled as storefront type W20. Which is correct?	05/05/2020	Door A100.01 is Hollow Metal new door in existing frame. W20 will be deleted.

Joppatowne High School - Limited Renovation (1908)
Request for Information Summary Log with Answers

555 Joppa Farm Road
Joppatowne, MD 21085

Number	Status	Subject	Created On	Question	Date Resolved	Answer
PB-12	● Closed	W16 openings	05/03/2020	On sheet A-1.6 the W16 openings do not appear to be shown on the floor plan. Please confirm that they are only required on one side of the corridor, as shown on the elevations.	05/05/2020	W16 window units occur only on the east side of Corridor A203.
PB-13	● Closed	Basis of Design - Ultra-thermal System	05/03/2020	Specification section 084113 2.01.A.1.a notes the storefront basis of design to be Kawneer 451UT which is an ultra-thermal system. The u-value of .69 noted in 084113 1.04.G does not require an ultra-thermal system as it can be met with a standard system. Is ultra-thermal required?	05/05/2020	08 41 13 Paragraph 1.04G : Correct U-Value to .37. This value is required to meet prescriptive requirements of the International Energy Conservation Code for replacement of existing glass and windows. This is also noted on Drawing G1.1 IECC Notes.
PB-14	● Closed	Door Hardware	05/03/2020	Is door E101 to receive hardware set #17? This set notes door E101.01 which is not on the door schedule.	05/05/2020	Door E101.01 should be noted as E101.00. This door is located at the south end of Corridor E101.
PB-15	● Closed	Hardware Set Door C103.01	05/03/2020	Please provide the required hardware set for door #C103.01.	05/05/2020	Door C103.01 should have hardware set #17.
PB-16	● Closed	Scope	05/03/2020	Please confirm that display cases are not in the 8A scope.	05/03/2020	Display cases will be in the 6A scope.
PB-17	● Closed	Steel Angle (Scope)	05/03/2020	Please confirm the steel angle shown in 6/A-3.8 is not in the 8A scope.	05/05/2020	This will be in the 6A package and clarified by Addendum.
PB-18	● Closed	Frame Locations - Sheet A-8.0	05/03/2020	Sheet A-8.0 shows frame types 4C and 4D as receiving new metal panels. Which scope are these in? Where are these frames located?	05/05/2020	The frames are existing where louvers must be removed and replaced with 1" insulated metal panels. The locations are noted in Demolition Notes 20 & 21 at main level Drawings D-1.1-D-1.5, and Demolition Notes 10 & 11 at upper level D-1.6 and D-1.7. Insulated Metal Infill Panels to be similar to Mapes-R, Citidal GlazeGuard 1000WR, H&H Metals, or Laminators Thermolite. Face panels to be anodized aluminum.
PB-19	● Closed	Scope-Ticket Booth Window	05/03/2020	Please confirm the ticket booth windows shown on A-14.6 are not in the 8A scope.	05/03/2020	Windows are part of the ticket booth.
PB-20	● Closed	Piping application of heating system	05/04/2020	Looking for clarification for piping application of the heating system. 23 21 13 -7 3.1 B. Hot-water heating piping, above ground, NPS 2-1/2" and larger does not list schedule 40 steel pipe. 3.1 E. Chilled-water, above ground, NPS 2-1/2" and larger lists schedule 40 steel pipe. Also if you look at print page M0.12 there is 6" pipe from the mechanical room to the first branch. Do you want all this pipe in copper or should this be schedule 40 steel pipe?	05/05/2020	Heating Piping 1 1/2" and larger can be Schedule 40 Steel. Provide Dielectric fittings at all points where copper and steel are connected.

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Request for Information Summary Log with Answers

555 Joppa Farm Road
Joppatowne, MD 21085

Number	Status	Subject	Created On	Question	Date Resolved	Answer
PB-21	● Closed	Specification for Equipment Designated as a DRH	05/05/2020	Please provide info or spec for the piece of HVAC equipment designated as a DRH as found on MO. 12 and M2.05.	05/08/2020	DRH - Duct reheat coil is being changed to a constant flow terminal unit. This revision will be included with Addendum No. 2.
PB-22	● Closed	Door Height	05/06/2020	Please confirm the door height for the following door marks: A135.02 , B100.01, C100.00, C103.01, C124.01, D170.02, E100.01. The corresponding storefront types on the schedule indicate a 8'-0" opening height but the door schedule calls for 7'-0"	05/06/2020	The storefront doors noted A135.02 , B100.01, C100.00, C103.01, C124.01, D170.02, E100.01 will be 7'-0" height. The storefront frames will be revised.
PB-23	● Closed	Hardware-Door E 101.00	05/06/2020	Please confirm the door mark E101.00 receives hardware set 17. The door mark E101.00 shown at Window elevation W5 on sheet A-1.5 does not appear in the door hardware specification. There is a door mark E101.01 indicated at hardware set 17 which does not appear on the door schedule.	05/06/2020	This is same question as PB-14. In the Hardware Set 17 the Door Number should read E-101.00. Confirming it is hardware set 17.
PB-24	● Closed	Door Type A-100.01	05/06/2020	Please confirm the door mark A100.01 is a new aluminum entrance. The door mark A100.01 shown at window elevation W20 on sheet A-1.1 is indicated on the door schedule as a new HM door within an existing frame. Should it be a new aluminum entrance? If so, please provide correct door opening height.	05/06/2020	This is same question as PB-11. Door A100.01 is new hollow metal door within existing frame. Frame type W20 will be deleted.
PB-25	● Closed	Number Circles on Sanitary Riser Drawings	05/06/2020	Please identify the numbered circles found on the sanitary riser drawings.	05/06/2020	The numbered circles indicate Fixture Units for the specific fixtures.
PB-26	● Closed	Alternate 4	05/08/2020	1. Which contractor is responsible for alternate 4? (Replacement of existing door hardware @ gym and locker room)	05/08/2020	This work is in the 6A Scope of work.
PB-27	● Closed	Louvers	05/08/2020	2. Which contractor is responsible for providing new louvers?	05/08/2020	If the louvers are in the door frame system it will be whichever contractor is supplying that system. If it is a stand-alone louver it will be by the 15A Contractor.
PB-28	● Closed	Translucent Panels	05/08/2020	If the louvers are in the door frame system it will be whichever contractor is supplying that system. If it is a stand-alone louver it will be by the 15A Contractor.	05/08/2020	Please refer to the Addendum

Joppatowne High School - Limited Renovation (1908)
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555 Joppa Farm Road
Joppatowne, MD 21085

Number	Status	Subject	Created On	Question	Date Resolved	Answer
PB-29	● Closed	Interior-Exterior Finish	05/08/2020	4. Please confirm the interior and exterior finish for all 1" insulated metal panels (glazed into storefront system) is to be flat, smooth, clear anodized aluminum.	05/08/2020	Confirmed. Flat, smooth clear anodized aluminum inside and out.
PB-30	● Closed	Existing storefront support angles	05/08/2020	Please confirm that the 8A contractor is not responsible for the repair and/or replacement of existing storefront support angles.	05/08/2020	The 6A Contractor will be responsible for this angle if needed.
PB-31	● Closed	Firestopping-Fire-safing-Fireproofing	05/08/2020	6. Please confirm that the 8A contractor is not responsible for supplying and/or installing any elements of firestopping, firesafing, and/or fireproofing.	05/08/2020	Fire stopping is not required.
PB-32	● Closed	Demolition Scope Clarification	05/08/2020	7. Please provide more information, elevations, sections, and/or details regarding the 8a contractors demolition scope between building sections A and B. Architect.	05/08/2020	The existing exterior windows in building section A and B are being removed by others with the exception of window type W16."
PB-33	● Closed	Details	05/08/2020	Are there any storefront head/sill/jamb details?	05/08/2020	Storefront details are part of window and storefront sections with the A-3 series of drawings. Majority of storefront is replacing existing within existing openings.
PB-34	● Open	Vent Duct	05/08/2020	Spec section 110 40 00 Item #5: Vent Duct (on page 48) says constructed and installed per Detail 5.06. We cannot find this detail anywhere. Please advise.		
PB-35	● Closed	Weight Room (101) & Storage Room	05/08/2020	The weight Room 101 and Storage Room are not indicated on the FP Plans. Are these areas NIC?	05/08/2020	These areas will be covered with Fire Protection. An updated drawing will be issued with Addendum No. 2.
PB-36	● Closed	Press Box Windows	05/08/2020	See A-14.5: Please confirm that the press box windows are not the responsibility of the 8a contractor	05/08/2020	The press box is in the 2A Scope
PB-37	● Closed	Curtainwall System	05/08/2020	2. See A-3.15: Please confirm that it is acceptable to utilize a single continuous curtainwall system (tied back with steel clips at existing steel or existing slab at 2nd floor) in lieu of (2) different storefront units.	05/08/2020	A continuous curtain wall section will extend beyond the face of the brick and beyond the edge of roof coping above. That is not acceptable.
PB-38	● Closed	Louver to right of Column line C	05/08/2020	See 4/A-3.1: Is this a louver to the right of column line 'C'? New or existing? If new, please provide dimensions and details.	05/08/2020	The louver is existing in the utility space above Auxiliary Gym Storage. No work in this contract related to this louver.
PB-39	● Closed	Existing soffit @ new storefront units	05/08/2020	Please confirm that the 8a contractor will not be responsible for the patching, repair, and/or replacement of existing soffit located at the head of the new storefront units.		

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Request for Information Summary Log with Answers

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Number	Status	Subject	Created On	Question	Date Resolved	Answer
PB-40	● Closed	Existing Steel Angles	05/08/2020	Please confirm that the 8a contractor will not be responsible for the inspection, repair, and/or replacement of the existing steel angles that will be utilized as storefront head support	05/08/2020	It is in the 6A Package.
PB-41	● Closed	Steel Lintels	05/08/2020	Please confirm that the 8a contractor will not be responsible for providing new steel lintels or new steel storefront support angles.	05/08/2020	It is in the 6A Package
PB-42	● Closed	Wood blocking	05/08/2020	See 4/A-3.6, 2/A-3.7, 4/A-3.9, 4/A-3.12, and 2/A-3.13: Please confirm that the 8a contractor will not be responsible for supplying and installing wood blocking at new storefront head condition and that wood blocking for storefront head conditions will be supplied and installed by the general trades contractor.	05/08/2020	The wood blocking for these details is by the 8A Contractor.
PB-43	● Closed	Spandrel Glass Unit requirements	05/08/2020	7. Please confirm that insulation, brake metal pans, shadowboxes, etc. will not be required behind spandrel glass units	05/08/2020	Insulation behind spandrel will be per window detail sections in the A-3 Series of drawings as part of knee walls. No brake metal panels, shadow boxes, etc are required behind spandrel glass units.
PB-44	● Closed	New Steel Angle Support	05/08/2020	8. See 6/A-3.8: Which contractor will be responsible for supply and install of the new steel angle to support louver and storefront system?	05/10/2020	It is in 6A Package.
PB-45	● Closed	U-Factor	05/08/2020	Just an FYI – the U-factor listed in the aluminum framed entrances and storefronts specification is 0.69. This is very high. A U-factor of 0.69 could be achieved utilizing a non-thermal system (which is not what you want for a project like this).	05/08/2020	This is a repeat question of PB-13. 08 41 13 Paragraph 1.04G: Correct U-Value to .37. This value is required to meet prescriptive requirements of the International Energy Conservation Code for replacement of existing glass and windows. This is also noted on Drawing G1.1 IECC Notes.
PB-46	● Closed	Removal of existing louvers	05/08/2020	See 4a, 4b, 4c, and 4d on A-8.0: Which contractor will be responsible for removing the existing louvers?	05/08/2020	It is in the 6A Package.
PB-47	● Closed	New Insulated panels	05/08/2020	See 4a, 4b, 4c, and 4d on A-8.0: Which contractor will be responsible for supplying and installing the new insulated panels? Furthermore, are there louvers at every existing door sidelite and above every existing double door?	05/08/2020	The locations of louvers to be demolished and replaced are in Demolition Notes 20 and 21 for Main Level Demolition Drawings, and notes 10 and 11 for Upper Level Demolition Drawings.

MECHANICAL LOUVER COORDINATE WITH
MECHANICAL DRAWINGS BY 15A

NEW STEEL ANGLE TO SUPPORT LOUVER
AND STOREFRONT SYSTEM. SPAN FROM
MASONRY INFILL TO EXISTING
CONCRETE FOUNDATION WALL. BY 6A

CONTINUOUS BACKER ROD AND
SEALANT, TYP. ALL SIDES BY 8A

EDGE OF NEW MASONRY INFILL WALL
BEYOND BY 6A

WB.1

KAWNEER TRIFAB STOREFRONT SYSTEM.
VERIFY R.O. DIMENSIONS IN FIELD BY 8A

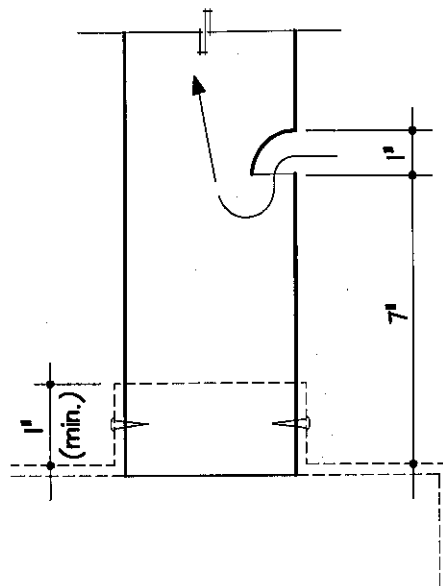
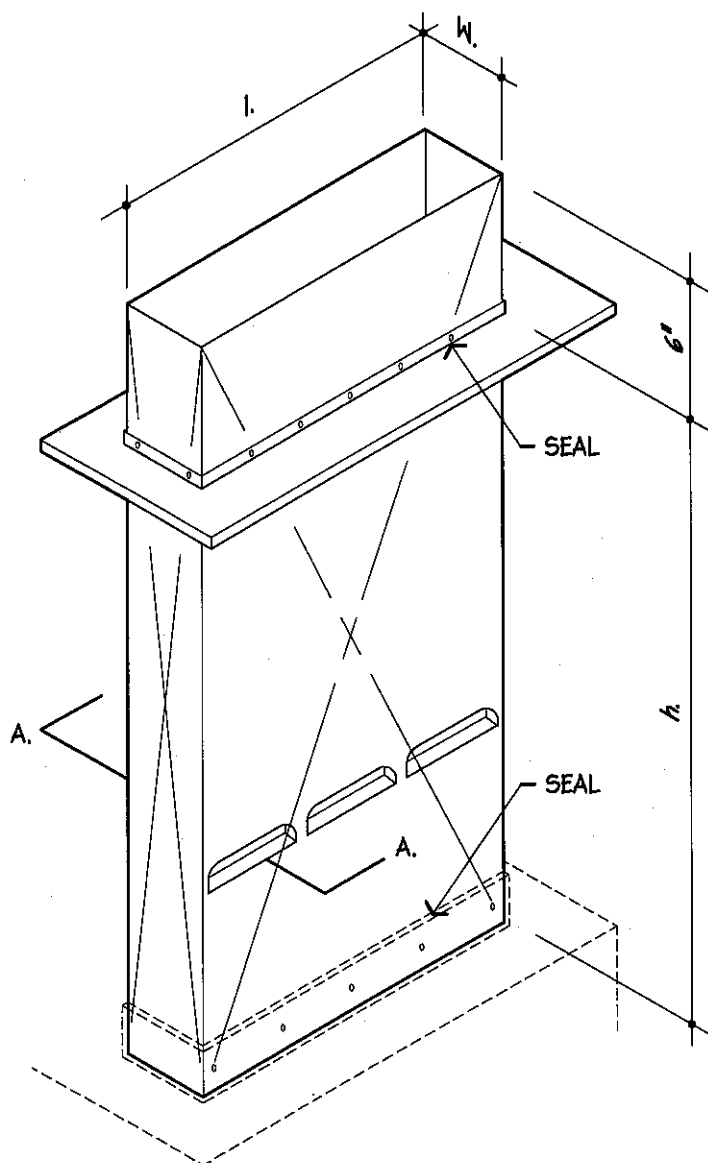
6

STOREFRONT HEAD DETAIL AT AREAWAY

1-1/2'-1'-0"



DRAWING A-3.8
SK-Add # 2.1



SECTION A-A

- a. DUCT-18 GA. S/S WITH (3) 1" x 4" LOUVERS DIE STAMPED INWARD TO ALLOW FLOW OF COOL AIR FROM DISHWASHER. DUCT TO FIT TIGHT TO INSIDE OF VENT. SECURE WITH S/S SCREWS AND SEAL WITH SILICONE.
- b. CEILING TRIM-18 GA. S/S, 1" x 2" ANGLE TRIM SECURED TO DUCT WITH SILICONE. PERIMETER CRIMPED TO PROVIDE A HUG-TIGHT EDGE TO CLG.

h. VERIFY. DUCTS OVER 60" SHALL BE CROSS CREASED FOR RIGIDITY.

i. & w. i. DISHWASHER EXHAUST REQUIREMENTS. INCREASE DISHWASHER MANUFACTURERS CFM EXHAUST REQUIREMENTS FOR EACH VENT BY 50% TO ALLOW FOR AIR INDUCTION THROUGH DUCT VENTS.

c. EXHAUST DAMPER REQUIREMENTS. WHEN D.W. VENTS ARE NOT EQUIPPED WITH DAMPERS, EACH DUCT SHALL BE PROVIDED WITH AN 18 GA. S/S DAMPER AND LOCKING QUADRANT LOCATED BETWEEN THE LOUVERS AND D.W. VENT.

(END OF SECTION 114000)

SECTION 23 09 00 - BUILDING AUTOMATION SYSTEM

PART 1 - GENERAL

1.1 SYSTEM DESCRIPTION

- A. The Contractor, through the use of an Automatic Temperature Control (ATC) System Supplier, shall furnish, install, and place into service the complete heating, ventilating, and air conditioning (HVAC) monitoring and control system, all in accordance with the requirements of the Contract Documents. The HVAC monitoring and control system shall communicate with the existing Harford County Public Schools (HCPS) Building Automation System(BAS).
- B. The System Supplier shall assume and execute full responsibility to select, furnish, install and connect, test and calibrate, place into operation all specified components, assemblies, and accessories needed for a complete and functional system of HVAC monitoring and control in full compliance with the requirements of the specification.
- C. The existing Joppatowne High School Building Automation System (BAS) is a Johnson Controls Metasys System.
- D. The ATC System shall be one of BACnet MS/TP direct digital controls as manufactured by Johnson Controls utilizing electric actuation. A minimum of one (1) Network Automation Engine (NAE) shall be installed as a web-based extension to the existing Metasys network for the Joppatowne High School. Application Specific Controllers (ASC) removed under the renovation will be turned over to HCPS. A Metasys "companion" or NCM-based system is unacceptable.
- E. Communications: The Building Automation Contractor shall be responsible for full communications to the existing HCPS Metasys network. Full communications means, the HCPS facility operators will be able from the existing Metasys operator workstations fully utilize the Metasys network manager software. The BAS operator will be able to receive alarms, logs, and reports; monitor operating conditions; change control setpoints and operating schedules; and operate equipment as desired at all existing Metasys operator workstation locations.
- F. The System Supplier shall be a single firm, or corporation subcontracted by the Contractor to assume full responsibility to perform all engineering, to select, furnish, and place into operation a complete and functional system of HVAC monitoring and control. Acceptable System Supplier shall be "Factory Branch Office" of the following:
 - 1. Johnson Controls, Inc., 60 Loveton Circle, Sparks, Maryland - (telephone: 410-527-2607).

Other bids by wholesalers, contractors, and franchised dealers are not acceptable.

1.2 WARRANTY

A. Standard Material and Labor Warranty:

1. Provide a two year labor and material Warranty on Controls Contract work provided under this Contract.
2. If within 24 months from the date of acceptance of the Controls Contract work and following receipt of written notice from the Owner the product is found to be defective in operation, workmanship or materials, then the product shall be promptly replaced, repaired or adjusted at the option of the Controls Contractor at the cost of the Controls Contractor.
3. Maintain an adequate supply of materials available directly to the Project site such that replacement of key parts, including programming, may be promptly carried out. Warranty work shall be done during the Controls Contractor's normal business hours.
4. Maintain an on-site record of all work done, all items removed from site, all items returned to site, all new replacement items installed, and all remedial programming and database entry work undertaken including software revisions installed. Maintain a record of all calibrations required as a result of Warranty service.

PART 2 - PRODUCTS

2.1 CONTROLS SYSTEM ARCHITECTURE

A. General

1. The Controls Systems shall consist of multiple Nodes and associated equipment connected by industry standard digital and communication network arrangements.
2. The Operator Workstations, Servers and principal network computer equipment shall be standard products of recognized major manufacturers available through normal PC and computer vendor channels - not "Clones" assembled by a third-party subcontractor.
3. Provide licenses for all software residing on and used by the Controls Systems and transfer these licenses to the Owner prior to completion.
4. The networks shall, at minimum, comprise, as necessary, the following:
 - a. Operator Workstations - fixed and portable as required by the Specifications.
 - b. Network computer processing, data storage and communication equipment including Servers and digital data processors.
 - c. Routers, bridges, switches, hubs, modems, interfaces and the like communication equipment.
 - d. Active processing network Application Nodes including programmable field panels and controllers together with their power supplies and associated equipment.
 - e. Addressable elements, sensors, transducers and end devices.
 - f. Third-party equipment interfaces as required by the Contract Documents.

g. Other components required for a complete and working Control Systems as specified.

5. The Specifications for the individual elements and component subsystems shall be minimum requirements and shall be augmented as necessary by the Contractor to achieve both compliance with all applicable codes, standards, the requirements of the AHJ at the site and to meet all requirements of the Contract Documents.
6. The BAS shall provide interface and control for all sight lighting.

B. Network

1. The Controls Systems shall incorporate primary Tier 1 network(s). At the Controls Contractor's option, they may also incorporate multiple and integrated secondary Tier 2 and tertiary Tier 3 networks.
2. The networks shall utilize only copper and optical fiber communication media as appropriate and to comply with the applicable codes, ordinances and regulations and the AHJ. They may also utilize digital wireless technologies if required by the Project and approved by the Architect and the AHJ.
3. The Owner shall provide all private and public telephones lines, ISDN lines and Internet Service Provider services and connections as necessary for the Controls Contractor to complete the work as contracted at the Owner's direct cost. The Controls Contractor shall identify the specific requirements in a shop drawing submittal.

2.2 OPERATOR INTERFACES

A. General

1. The Controls Systems Operator Interfaces shall be user friendly, readily understood and shall make maximum use of colors, graphics, icons, embedded images, animation, text based information and data visualization techniques to enhance and simplify the use and understanding of the displays by authorized users at the OWS.
2. User access shall be protected by a flexible and Owner redefinable software-based password access protection. Password protection shall be multi-level and partitionable to accommodate the varied access requirements of the different user groups to which individual users may be assigned. Provide the means to define unique access privileges for each individual authorized user. Provide the means to on-line manage password access control under the control of a project specific Master Password. Provide an audit trail of all user activity on the Controls Systems including all actions and changes.
3. The Operator Interface shall incorporate comprehensive support for functions including, but not necessarily limited to, the following:
 - a. User access for selective information retrieval and control command execution.
 - b. Monitoring and reporting.
 - c. Alarm and non-normal condition annunciation.

- d. Selective operator override and other control actions.
 - e. Information archiving, manipulation, formatting, display and reporting.
 - f. Controls Systems internal performance supervision and diagnostics.
 - g. On-line access to user HELP menus.
 - h. On-line access to current as-built records and documentation. At minimum, one (1) copy of all record documentation shall be stored on a designated OWS or Server and be accessible to the Owner.
 - i. Means for the controlled re-programming, re-configuration of systems operation and for the manipulation of database information in compliance with the prevailing codes, approvals and regulations for the component applications and elements.
 - j. Means to archive all Controls Systems Contract Project specific configuration databases, software programs and other pertinent operational data such that any component of the software and project specific operational databases may be reloaded on-site from archived data.
4. Provide on-line reports and displays making maximized use of simple English language descriptions and readily understood acronyms, abbreviations, icons and the like to assist user understanding and interpretation. All text naming conventions shall be consistent in their use and application throughout the Controls Systems. Submit proposed naming arrangements for approval prior to data entry.
- B. All devices, including OWS, Servers and Application Nodes, required to support and drive the Operator Interfaces shall support multiple independent user terminals through a theoretical unlimited number of Browsers.

2.3 CONTROLS SYSTEMS APPLICATIONS – GENERAL

A. General

- 1. The Controls Systems Application Nodes (AN) shall include all monitoring, control and data handling Nodes including programmable field panels and controllers.
- 2. AN shall be programmable and governed by the requirements of their applicable codes, approvals and regulations for their Application.
- 3. The AN shall be designed, packaged, installed, programmed and commissioned in consideration of their specific service and prevailing operating conditions. They shall be proven standard product of their original manufacturer and not a custom product for this Project.
- 4. A failure at an AN shall not cause failures or non-normal operation at any other system AN other than the possible loss of active real-time information from the failed AN.
- 5. Ancillary AN equipment, including interfaces and power supplies, shall not be operated at more than 80% of their rated service capacity.
- 6. AN shall comply with FCC Part 15 subpart J Class A emission requirements.
- 7. AN shall maintain all programming in non-volatile or battery backed memory and shall automatically resume normal monitoring and control following the restoration of stable electrical power after a power outage.

2.4 CONTROLS SYSTEMS FIELD DEVICES

A. Input Devices:

1. Additional devices

- a. Materials: (e.g. Stainless Steel, Waterproof, etc.)
- b. Rating: (e.g. Compliance Standard, Enclosure Rating, etc.)
- c. Mounting: (e.g. Pipe Insertion, Wall, flush, etc.)
- d. Range: (e.g. Working Range)
- e. Accuracy: (e.g. \pm percent full scale)
- f. Protection: (e.g. Overpressure, short circuit, etc.)
- g. Output: (If applicable, e.g. 4-20mA, etc.)
- h. Special: (Special characteristics e.g. fail open, approved mfr., etc.)

2. Air Low Differential Pressure Switch

- a. Rating: NEMA 1.
- b. Mounting: Duct Insertion.
- c. Range: 0.05" to 5.0" WC, complete with field adjustable setpoint.
- d. Protection: Overpressure to 1 PSIG.
- e. Output: Form C Contact, minimum 50VA.
- f. Special: Automatic reset, provide complete installation kit including static pressure tips, tubing, fittings and air filters.

3. Air Low Differential Pressure Sensor

- a. Rating: NEMA 1.
- b. Mounting: Duct Insertion.
- c. Range: 0.05" to 5.0" WC.
- d. Protection: Overpressure to 1 PSIG.
- e. Output: 0-10vDC, 4-20mA.
- f. Special: Provide complete installation kit including static pressure tips, tubing, fittings and air filters.

4. Air High Differential Pressure Switch

- a. Rating: NEMA 1.
- b. Mounting: Duct Insertion.
- c. Range: 1" to 10" WC, complete with field adjustable setpoint.
- d. Protection: Overpressure to 1 PSIG.
- e. Output: 2 Form C Contacts, minimum 360VA.
- f. Special: Manual reset, provide complete installation kit including static pressure tips, tubing, fittings and air filters.

5. Water Differential Pressure Switch

- a. Materials: Brass bellows.
- b. Mounting: Pipe mounted.

- c. Range: 2-26 PSI, 1.2 PSI fixed differential.
- d. Protection: 120 PSI Differential overpressure, 180 PSI static pressure.
- e. Output: Form C contacts, 50 VA.
- f. Special: Pipe taps and shut off valves provided by Div. 15.

6. Temperature Sensors

- a. Materials: Nickel element in a copper tube.
- b. Mounting: Duct/Pipe, Room.
- c. Range: -50°F to 250°F, 55°F to 85°F.
- d. Accuracy: 0.1%.
- e. Output: Resistive 1000ohms @ 70°F.
- f. Special: Duct Element Holder, Brass Well Assembly, Room Mounting Bracket and Cover.

7. Humidity Sensors

- a. Materials: Polymer.
- b. Rating: class 2.
- c. Mounting: Duct or Wall.
- d. Range: 20% to 80%.
- e. Accuracy: +/-3%.
- f. Protection: 0-100% non-condensing.
- g. Output: 0-10vDC, 4-20mA.
- h. Special: Duct or Wall Mounting Kit.

8. Air Flow Switch

9. Water Flow Switch

10. Current Switch

- a. Materials: Encased copper.
- b. Rating: 600vAC.
- c. Mounting: Split Core.
- d. Range: 1.5amps to 50 amps.
- e. Action: Trip point adjustment.
- f. Output: SPST, N.O.
- g. Special: Status LED.

11. Current Transducer

- a. Mounting: Field Mounted.
- b. Range: 60 Hz nominal.
- c. Accuracy: +/-2% full scale.
- d. Protection: 250 A max current.
- e. Output: 4-20mA.

12. Static Pressure Transducer

- a. Rating: NEMA 1.

- b. Mounting: Duct Insertion, Pipe Insertion.
- c. Range: 0-25 in. water column unidirectional, 0- +/- 5 in. water column bidirectional.
- d. Accuracy: +/-1% full scale.
- e. Protection: 10 PSIG.
- f. Output: 4-20mA, 0-5 VDC, 0-10 VDC.

13. Differential Pressure Transducer

- a. Rating: NEMA 1.
- b. Mounting: Duct Insertion, Pipe Insertion.
- c. Range: 0-25 in. water column unidirectional, 0- +/- 5 in. water column bidirectional.
- d. Accuracy: +/-1% full scale.
- e. Protection: 10 PSIG.
- f. Output: 4-20mA, 0-5 VDC, 0-10 VDC.

14. Water Flow Monitoring (GPM), Commercial Grade

- a. Materials: Electrolyses Nickel Plated Brass.
- b. Rating: 2.5gpm to 60,900gpm.
- c. Mounting: 2.5" minimum pipe diameter to 36".
- d. Range: 50:1.
- e. Accuracy: +/-2% @04 to 20ft/sec.
- f. Protection: 400psi @ 180°F.
- g. Output: 0-10vDC, 4-20mA.
- h. Special: Hot Tap Assembly.

15. Water Flow Monitoring (GPM), Vortex Shedding

- a. Materials:
- b. Rating:
- c. Mounting:
- d. Range: 50:1.
- e. Accuracy:
- f. Protection:
- g. Output: 0-10vDC, 4-20mA.
- h. Special: Hot Tap Assembly.

B. Output Devices

- 1. Electric/Pneumatic Transducers
- 2. Controls Relays
 - a. Materials: Gold Flash.
 - b. Rating: 10amps @ 120-277vAC.
 - c. Mounting: Standard Electrical Box.
 - d. Protection: NEMA 1 Housing.
 - e. Output: SPDT, DPDT.

- f. Special: Provide LED for position indication. Provide with HOA switch, except when used in Smoke Control applications.

C. Controlled Devices

1. Ball Valve

- a. Materials:
- b. Rating:
- c. Mounting:
- d. Range:
- e. Accuracy:
- f. Protection:
- g. Output:
- h. Special:

2. Butterfly Valve

3. Globe Valve

4. Control Damper

5. Electric Damper Actuators:

- a. Rating: NEMA 2 Enclosure.
- b. Mounting: Direct mount.
- c. Stroke: 90 seconds end to end full stroke, 15 seconds return to normal for spring return.
- d. Protection: Electronic stall protection.
- e. Control Input: 0-10 VDC or 0-20 mADC.
- f. Power: Nominal 24 VAC.
- g. Torque: Size for minimum 150% of required duty.
- h. Duty Cycle: rated for 65,000 cycles.
- i. Special: Output position feedback, manual override, field selectable rotational/spring return direction, field adjustable zero and span.

6. Electric Valve Actuators.

- a. Rating: NEMA 1 Enclosure.
- b. Mounting: Direct mount.
- c. Control Input: 0-10 VDC or 0-20 mADC.
- d. Power: Nominal 24 VAC.
- e. Protection: Stall protection.
- f. Torque: Size for minimum 150% of required duty.
- g. Special: Output position feedback, manual override, field selectable direction, field adjustable zero and span. For spring return provide field selectable spring return direction.

7. Pneumatic Valve Actuators

8. Pneumatic Damper Actuators

9. Combination Fire/Smoke Dampers w/actuator

10. Smoke Dampers

11. Variable Frequency Drives

D. Other Controls Devices

- 1. Electric Thermostats**
- 2. Humidistats**
- 3. Pressure Controller**

PART 3 - EXECUTION

NOT USED.

END OF SECTION

SECTION 23 73 13.10 - CUSTOM AIR-HANDLING UNITS

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:

- 1. Variable-air-volume, single-zone air-handling units.

1.3 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design vibration isolation and seismic-restraint details, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- B. Structural Performance: Casing panels shall be self-supporting and capable of withstanding 133 percent of internal static pressures indicated, without panel joints exceeding a deflection of L/100 where "L" is the unsupported span length within completed casings.
- C. Seismic Performance: Air-handling units shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
 - 1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."

1.4 ACTION SUBMITTALS

- A. Product Data: For each air-handling unit indicated.
 - 1. Unit dimensions and weight.
 - 2. Cabinet material, metal thickness, finishes, insulation, and accessories.
 - 3. Fans:
 - a. Certified fan-performance curves with system operating conditions indicated.
 - b. Certified fan-sound power ratings.
 - c. Fan construction and accessories.
 - d. Motor ratings, electrical characteristics, and motor accessories.
 - 4. Certified coil-performance ratings with system operating conditions indicated.

5. Dampers, including housings, linkages, and operators.
 6. Filters with performance characteristics.
- B. Delegated-Design Submittal: For vibration isolation and seismic restraints indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
1. Vibration Isolation Base Details: Detail fabrication including anchorages and attachments to structure and to supported equipment. Include adjustable motor bases, rails, and frames for equipment mounting.
 2. Design Calculations: Calculate requirements for selecting vibration isolators and seismic restraints and for designing vibration isolation bases.

1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Floor plans and other 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. Mechanical-room layout and relationships between components and adjacent structural and mechanical elements.
 2. Support location, type, and weight.
 3. Field measurements.
- B. Seismic Qualification Certificates: For air-handling units, accessories, and components, from manufacturer.
1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.
- C. Source quality-control reports.
- D. Field quality-control reports.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For air-handling units to include in emergency, operation, and maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Filters: One set(s) for each air-handling unit.

2. Gaskets: One set(s) for each access door.
3. Fan Belts: One set(s) for each air-handling unit fan.

1.8 QUALITY ASSURANCE

- 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. NFPA Compliance: Comply with NFPA 90A for design, fabrication, and installation of air-handling units and components.
- C. ARI Certification: Air-handling units and their components shall be factory tested according to ARI 430, "Central-Station Air-Handling Units," and shall be listed and labeled by ARI.
- D. ASHRAE Compliance: Applicable requirements in ASHRAE 62.1, Section 5 - "Systems and Equipment" and Section 7 - "Construction and Startup."
- E. ASHRAE/IESNA 90.1 Compliance: Applicable requirements in ASHRAE/IESNA 90.1, Section 6 - "Heating, Ventilating, and Air-Conditioning."
- F. Comply with NFPA 70.

1.9 COORDINATION

- A. Coordinate sizes and locations of concrete bases with actual equipment provided.
- B. Coordinate sizes and locations of structural-steel support members, if any, with actual equipment provided.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements. Manufacturers offering similar products may be incorporated, they include and are limited to, the following:
 1. Ventrol
 2. TMI Climate Solutions
 3. Air Enterprises
 4. EAS

2.2 MANUFACTURED UNITS

- A. General Description: Factory assemblies, consisting of fans, motor and drive assembly, coils, dampers, plenums, filters, drip pans, mixing dampers and other accessories as indicated on drawings or schedules.

- B. Motor and Electrical Components: Refer to Division 15 Section "Electrical Requirements for Mechanical Equipment."

2.3 AIR HANDLING UNITS

- A. GENERAL: This specification covers the performance requirements and the material/construction requirements of custom-built air handling units. The detailed performance and data sheets and/or equipment schedule drawing(s) are considered part of this specification.
- B. Warranty: The manufacturer shall provide the parts warranty for equipment manufactured and all vendor supplied components. The said warranty shall cover replacement of all defective parts for a period of 12 months from equipment start up, not to exceed 18 months from date of shipment.
- C. Submittal: The successful manufacturer shall provide Shop drawings and submittal data for review. The submittals and shop drawings shall be complete in all respects including the following information:
1. Overall unit dimensions and individual components and section dimensions.
 2. Sound data can be provided on the fans based on AMCA standards and the manufacture can provide calculated sound data from a computer program.
 3. Shipping and operating weight of unit and/or sections.
 4. Materials of construction.
 5. Cross section details of typical wall, floor and roof construction.
 6. Component equipment data as detailed in component specification section.
 7. Unit performance data including sound data.
 8. Details of coil support in a coil bank.
 9. Piping connection sizes and approximate locations.
 10. Door and window sizes and elevations.
 11. Drain pan details.
 12. Operating and Maintenance Data
- D. Product Delivery, Storage and Handling
1. All equipment shall be delivered to the job site suitably packaged and protected for overland trucking using heavy-duty protective shrink-wrap plastic. Unit will ship as knockdown for field construction. See section 2.4.D.
- E. General Design Considerations
1. Coils shall be arranged so that space between coils is a minimum of 24", unless specifically shown otherwise on drawings. Fan compartment shall be arranged such that the space between the fan inlet(s) and the housing is a minimum of 75% of fan diameter, unless noted or shown otherwise on the schedule or drawings. Coil assembly shall have provisions to facilitate total or partial removal from coil bank. Housing shall be designed and sealed to minimize air and water vapor leakage. Housing shall be designed and tested to meet maximum leakage of SMACNA class 3 when tested in accordance with

the procedure outlined in the SMACNA HVAC Air Duct Leakage Manual.

2.4 UNIT CONSTRUCTION

A. Unit Base / Floor / Framework:

1. The unit base frame is manufactured with an electrostatic pre-primed powder coated 2" X 5" X 0.125" HSS type rectangular structural tubing. The unit base frame is epoxy primed and coated with a polyurethane UV resistant topcoat for outdoor units. Unit base is fitted with 20" on-center C-channel cross support members. The completed unit base coating must be able to sustain salt spray testing of 1000 hours, per ASTM 117B. Sheet metal formed unit bases are not acceptable. The "Double Bottom" base features a 4.5" thick insulated walk-on floor as specified below. The base rails are fitted with Bolted removable lifting lugs at the unit or module (if demounted) corners. Sheet metal lifting lugs are not acceptable. Floor liner shall be 0.125 aluminum treadplate. Floor seams shall be sealed to create leak free joints. All seams shall be continuously welded to form a watertight assembly. The perimeter of the unit consists of a 1½" upturned perimeter lip to create a drainable floor. The under floor liner shall be G-90 galvanized steel and recessed nominal ½" to allow for air circulation under the unit floor. All floor openings on outdoor units are complete with floor grating. The entire unit base must be polyurethane foamed in place with a minimum thickness of 3" and a minimum R value of 20. Fiberglass insulated unit bases will not be acceptable. Maximum deflection of floor shall be L/360 at design loading (L=span in inches), the minimum floor design load is 150 lbs./sq. ft. (distributed load), and the maximum point load on floor shall be 300 lbs. (over 1 square foot).

B. UNIT BASE (Curb mounted design)

1. The unit shall be constructed on the existing concrete floor with a new concrete curb. The new concrete curb will be 12" wide x 6" high. Manufacturer shall be responsible for coordinating exact size and location of curb.
2. A pre-fabricated base shall be provided in the cooling coil section under the cooling coils. The base shall be constructed of structural aluminum or stainless steel and shall include a sloped sump IAQ drain pan. Drain pan shall be constructed of stainless steel. Condensate piping shall be extended through the unit base.
3. The unit floor shall be coated with a nominal 24 mil DUR-A-GARD High Build Epoxy/Urethane, Chemical and Abrasion Resistant Floor Coating System with POLY-THANE #1 performance topcoat as manufactured by DUR-A-FLEX INC. Once the installation is complete the floor coating shall have the following physical properties.
4. Panel structural strength:
 - a. Maximum deflection of walls and roof shall be L/200 at +/- 10" w/c/ for 2" foam insulation construction (L= span in inches).

C. Cabinet Insulation:

1. The polyurethane injected foam, 2.5 pcf with an effective thermal conductivity (C) of 0.154 BTU in/hr sq. ft. °F). The foam insulation has an ozone depletion potential of 0, a global warming potential of 0 and is VOC exempt. It is also rated UL94 HF-1.

D. Cabinet – Smooth Exterior Panels:

1. Formed and reinforced wall panels, fabricated to allow removal for access to internal parts and components, with joints between sections sealed. Outside Casing shall be solid 16-ga, Bright spangled G-90 galvanized steel, double die-formed 4" thick panel secured with 1/4" hex head, zinc plated fasteners at 12" on-centers.
2. The inside liner shall be 20-ga, G-90 galvanized steel. Liner shall be secured with sheet metal screws to outside casing at 12" on-centers.
3. The unit construction needs to be thermal break PVC (poly-vinyl chloride) closed cell foam gasket meeting NFPA 90 A and B. The panel construction must meet a minimum R value of 12 in the walls and ceiling. The injected foam insulation has a mean R value of 13 for 2" thick unit.
4. IBC construction
 - a. Units shall be IBC certified for design short period acceleration (Sds) of 0.6g with standard screw spacing between panels (12" OC).
 - b. The unit construction needs to be of true No-Thru-Metal construction, meeting NFPA 90 A and B. The 2" thick panel is injected with foam insulation with a mean R value of 13 (hr sq.ft.°F / BTU).

E. Knocked Down Unit Construction

1. Unit shall be shipped in pieces small enough to fit through the available opening(s), yet large enough to minimize work required in the field by installing contractor. No pre- assembly performed at the factory. Each piece or assembly of pieces shall be clearly marked and refer to a clear and concise assembly drawing. The factory must provide a field supervisor to supervise the assembly from start to finish. Manufacturer shall guarantee the performance of the field assembled units just as if they were built in the factory. Approval by factory personnel shall confirm that installing contractor followed all assembly procedures and that unit will perform as specified. The local manufactures representative is not an acceptable substitute. The supervisor must be a direct employee of the manufacturer.

F. Field Leakage Test (Performed by the AHU Manufacturer)

1. Each unit shall be field tested in general accordance to guidelines of AMCA 210 standard. The casing leakage of the unit shall not exceed 1/2% of the design airflow of the unit when tested at the fan dead head pressure or 1.5 times of the maximum operating pressure. (Units under 10,000 CFM shall be tested in accordance with SMACNA Class 3 requirements). Wall and roof deflection shall

not exceed 1/200th of the span of the panels when operating at 1.5 times the scheduled operating pressure or a maximum of 10" WG static pressure. The manufacturer must perform the leak test. The manufacture is responsible for all repairs necessary to complete and pass the leak test. Neither the contractor or local representative will be an acceptable substitute performing the field leakage test.

G. Drain Pans and Cooling Coil Support Structure

1. Condensate Drain Pans are IAQ design, 18-ga., 304 stainless steel and incorporate a double slope shape to eliminate standing water. All drain pans have a "Double Bottom" attached to welded structural steel base, with a minimum of 1.25" of polyurethane spray foam insulation under the drain pan under the lowest point. Drain connections are standard stainless steel 1-1/4" MPT connection. All coils are to self-supported to reduce unit height to a minimum. All coils shall be mounted on raised supports above drain pan to facilitate cleaning and coil removal. Coils shall have independent removable access panels on both sides of the coil to allow for coil pull.

2.5 **ACCESS DOORS AND PANELS:**

- A. Access doors are constructed with a double wall construction and an extruded aluminum frame. The door frame features a built-in no-through-metal high density resin barrier and a perimeter gasket. Door frames with no thermal break are not acceptable. The door gasket is seamed together at each corner to prevent leakage through the door. Door is attached to the unit with 3 axes adjustable stainless steel or powder coated steel hinges. Doors shall open against higher pressure side. Where this is not feasible due to site constraints, an interlocking mechanism furnished on the fan section access door with a de-energizing switch complying with CAL-OSHA, ETL and the mechanical protection requirements of UL 1995 will be provided.
- B. Inspection access panels and doors shall be sized and located to allow periodic maintenance and inspections. Provide access panels and doors in the following locations as shown on drawings
- C. Dual-paned tempered glass with vacuum seal windows, molecular sieve sealant and thermally broken frames shall be supplied as shown on unit drawings. Singled paned windows are not acceptable.
- D. All outward swinging doors must be equipped with a door chain to limit door swing.
- E. Fan Array Manufacturers
 1. NAS, Nortek Air Solutions, including Governair, Huntair, Mammoth, Temtrol, Venmar, Ventrol, Greenheck, Twin City and New York Blower.
 2. Approved Equal

- a. Must be submitted per project specifications
- b. Must guarantee submitted AHU performance for flow, pressure, and acoustics at the perimeter boundary of the unit.
- c. Any corrective acoustical treatment, added airway tunnel lengths, increased electrical service, and any structural modifications necessary to meet specified and scheduled performance shall be provided at no additional cost to the owner to meet the specified performance criteria.

F. Fan Wheel HPF-A100

1. Fans shall be aluminum airfoil wheel, Class III, direct drive arrangement and shall be individually housed. Fans shall be certified by AMCA for performance. Fan shall be housed in a "cell".
2. Fan housing or "cell" shall be constructed of aluminum or stainless steel with perforated inner liner, melamine insulation, with either solid or perforated outer panels as required by application.
3. Each fan/motor assembly shall be dynamically balanced to meet AMCA standard 204-96, for fan application class BV-5, to meet or exceed a rotational imbalance Grade G.55, producing a maximum rotational imbalance of 0.022 inches per second peak, filter in. "Filter in" measurement indicates that the specified balance grade must be achieved at the submitted design operating speed for the fan(s).
4. Fan and motor assemblies shall be designed for application in multiple fan arrays.

G. Motors (See Chart Below for Available Options)

1. AC Motors:

- a. All motors shall be standard foot mounted type, TEAO or TEFC motors selected at the specified operating voltage, RPM, and efficiency as specified or as scheduled elsewhere.
- b. Motors shall meet the requirements of NEMA MG-1 Part 30 and 31, section 4.4.2.
- c. Motors shall be as manufactured by Baldor, Siemens, or Toshiba. Motors shall be available in 1/2 HP increments at nameplate HP ratings from 1.5 HP through 12 HP.
- d. All motors shall include permanently sealed bearings and shaft grounding means to protect the motor bearings from electrical discharge machining due to stray shaft current. Motors provided with hybrid ceramic bearings, when specified, do not require shaft grounding devices.
- e. Steel cased motors and/or ODP motors are not acceptable.

H. Acoustical Performance

1. The AHU unit shall provide the specified acoustical performance as scheduled for the unit supply discharge opening(s), RA opening(s), and the Outside air and Exhaust air opening(s).

2. Coplanar silencer(s) and/or sound attenuator(s) shall be provided to meet specified acoustical requirements. Sound attenuator cross sectional area shall be selected to not exceed 500 fpm. Losses from sound attenuating devices must be included in the fan performance selection.
3. Listed or alternate manufacturers, other than the basis of design, providing fan arrays that incorporate fans which are not manufactured by the AHU manufacturer, must provide modeled acoustical performance of the AHU unit.
4. Sound and performance data for approval showing only single fan performance for multiple fan array application will be returned without review.
5. Any proposed remedy for deviations in submitted sound power levels shall be approved by a registered acoustical consultant as selected by the owner or architect. Costs for review of proposed changes shall be borne by the contractor.

I. Multiple Fan Arrays

1. The fan array shall consist of multiple housed fans or "cells", spaced in the air way tunnel cross section to provide a uniform air flow and velocity profile across the entire air tunnel cross section and components contained therein.
2. Each fan and motor assembly shall be removable through a 24" wide, free area, access door located on the discharge side of the fan wall array without removing the fan wheel from the motor.
3. All fans in the multiple fan arrays shall be AMCA certified for performance per AMCA arrangement "A" testing configuration. The submitted fan performance shall be inclusive of system effects attributed to the fan mounting arrangement, fan enclosures, back draft dampers, and other fan appurtenances not considered when AMCA certified performance per AMCA arr. "A" is determined. Submitted AHU/fan performance that does not indicate allowances for system effects for the back flow prevention device(s), wheel enclosures, safety screens, bearing pedestals, belt guards, or the fan and motor enclosure in which each fan is mounted, will be returned to the contractor disapproved and will need to be resubmitted with all of the requested information included for approval. Added system effects for acoustic attenuators, or other devices required to meet specified fan performance and sound levels must be indicated in the submitted fan selection data.
4. Fan system power requirements or sound power levels that fail to meet specified performance levels shall be corrected to meet specified performance levels at no additional cost to the owner. Any proposed corrections for power or sound deviations from specified values must be submitted to the engineer for approval prior to implementation of any proposed corrective procedure.
5. Manufacturers that do not manufacture their own fans for the specific purpose of use in multiple fan arrays, shall provide a letter guaranteeing submitted AHU performance for flow, pressure, and acoustics at the perimeter boundary of the unit signed by an officer of the OEM fan manufacturer being submitted. Any corrective acoustical treatment, added airway tunnel lengths, increased electrical service, and any structural modifications necessary to meet specified

performance ratings are generated with manufacturer's AHRI certified selection software.

7. Manufacturer

- a. Coils shall be Ventrol, Heat Craft, Coilmaster, Aerofin or equivalent.

8. Headers

- a. Seamless copper with die-formed holes to provide a parallel surface to the coil tube for strong brazing joints.

9. Connections

- a. Copper O.D. sweat with interchangeable nozzle type refrigerant distributors. Coil circuiting shall be as indicated in air handling unit schedule.

10. Casing

- a. Minimum 6 ga. Galvanized steel with 1-1/2" die-formed flanges to permit easy stacking and mounting. Intermediate tube supports are supplied on coils over 44" fin length with additional supports every 42" multiple thereafter.

11. Testing and Performance

- a. All coil assemblies are leak tested under water at 500 PSIG. PERFORMANCE is CERTIFIED under AHRI Standard 410. All coil performance ratings are generated with manufacturer's AHRI certified selection software.
- b. Coils Manufacturer Coils shall be Ventrol. Heat Craft, Coil Master, Aerofin or equivalent.

12. Casings shall be minimum 12 GA galvanized steel, braced and flanged (punched if necessary, for duct or wall mounting). End casings shall have smooth, embossed tube holes to avoid abrasion during expansion and contraction. Dampers shall be wrap around "clamshell" design. Dampers shall be minimum 16 GA galvanized steel with aluminum hinges & stainless steel pins. Interconnecting bars shall be stainless steel. Operator lever arms shall be welded to a common shaft for permanent alignment with pivots on bronze oilite bearings. The operator shall connect to the damper linkage via threaded ball joint rod ends.

2.8 FILTERS, FILTER FRAMES, AND FILTER BANKS

A. Pre-filters

- 1. The filter shall consist of a pleated media, media support grid, and enclosing frame. The media shall be non-woven cotton fabric and shall be designed to consistently increase efficiency throughout service life of filter with an initial

MERV 8 rating. The media support shall be a welded wire grid with an effective open area of not less than 90%. The grid shall be bonded to the filter media to eliminate media oscillation and pull away. The enclosing frame shall be constructed of rigid, heavy duty, high wet strength beverage board. The frame shall be bonded to the filter pack. Standard sizes shall be 12" x 24" x 2" and 24" x 24" x 2". All filter holding frames must be caulked in between them to minimize bypass air through the frames. Filters shall be American Air Filter Perfect Pleat, or equal by Cam- Farr, Eco-Air or Airguard. Provide Dwyer Instruments Inc Series 2000 Magnehelic gauges across each filter bank.

B. Filter Frame Assemblies

1. Constructed of galvanized steel, specifically designed and sized to have matching mounting holes such that frames may be riveted together. Frame comes with pre-installed gasket so as to provide a surface onto which the filter will self-seal. Filter frames come with stiffeners which are installed between each column of filter frame. All filter holding frames are caulked in between them to minimize bypass air through the frames. Proper structural support (every 5 frames wide) is provided when reinforcement is required for attachment of frame assembly to existing AHU casing / building structure as well as complete safing and proper air seal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine casing insulation materials and filter media before air-handling unit installation. Reject insulation materials and filter media that are wet, moisture damaged, or mold damaged.
- C. Examine roughing-in for steam, hydronic, and condensate drainage piping systems and electrical services to verify actual locations of connections before installation.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Equipment Mounting:
 1. Install air-handling units on cast-in-place concrete equipment bases. Comply with requirements for equipment bases and foundations specified in Section 033000 "Cast-in-Place Concrete." Section 033053 "Miscellaneous Cast-in-Place Concrete."
 2. Comply with requirements for vibration isolation and seismic control devices specified in Section 230548 "Vibration and Seismic Controls for HVAC."

3. Comply with requirements for vibration isolation devices specified in Section 230548.13 "Vibration Controls for HVAC."
- B. Suspended Units: Suspend and brace units from structural-steel support frame using threaded steel rods and spring hangers. Comply with requirements for vibration isolation devices specified in Section 230548 "Vibration and Seismic Controls for HVAC."
- C. Arrange installation of units to provide access space around air-handling units for service and maintenance.
- D. Do not operate fan system until filters (temporary or permanent) are in place. Replace temporary filters used during construction and testing, with new, clean filters.
- E. Install filter-gage, static-pressure taps upstream and downstream of filters. Mount filter gages on outside of filter housing or filter plenum in accessible position. Provide filter gages on filter banks, installed with separate static-pressure taps upstream and downstream of filters.

3.3 CONNECTIONS

- A. Comply with requirements for piping specified in other Sections. Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Install piping adjacent to air-handling unit to allow service and maintenance.
- C. Connect piping to air-handling units mounted on vibration isolators with flexible connectors.
- D. Connect condensate drain pans using NPS 1-1/4, ASTM B 88, Type M copper tubing. Extend to nearest equipment or floor drain. Construct deep trap at connection to drain pan and install cleanouts at changes in direction.
- E. Hot- and Chilled-Water Piping: Comply with applicable requirements in Section 232113 "Hydronic Piping" and Section 232116 Hydronic Piping Specialties." Install shutoff valve and union or flange at each coil supply connection. Install balancing valve and union or flange at each coil return connection.
- F. Connect duct to air-handling units with flexible connections. Comply with requirements in Section 233300 "Air Duct Accessories."

3.4 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- B. Perform tests and inspections.

1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

C. Tests and Inspections:

1. Leak Test: After installation, fill water and steam coils with water, and test coils and connections for leaks.
2. Fan Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

- D.** Air-handling unit or components will be considered defective if unit or components do not pass tests and inspections.

- E.** Prepare test and inspection reports.

3.5 STARTUP SERVICE

- A.** Engage a factory-authorized service representative to perform startup service.

1. Complete installation and startup checks according to manufacturer's written instructions.
2. Verify that shipping, blocking, and bracing are removed.
3. Verify that unit is secure on mountings and supporting devices and that connections to piping, ducts, and electrical systems are complete. Verify that proper thermal-overload protection is installed in motors, controllers, and switches.
4. Verify proper motor rotation direction, free fan wheel rotation, and smooth bearing operations. Reconnect fan drive system, align belts, and install belt guards.
5. Verify that bearings, pulleys, belts, and other moving parts are lubricated with factory-recommended lubricants.
6. Verify that zone dampers fully open and close for each zone.
7. Verify that face-and-bypass dampers provide full face flow.
8. Verify that outdoor- and return-air mixing dampers open and close and maintain minimum outdoor-air setting.
9. Comb coil fins for parallel orientation.
10. Verify that proper thermal-overload protection is installed for electric coils.
11. Install new, clean filters.
12. Verify that manual and automatic volume control and fire and smoke dampers in connected duct systems are in fully open position.

- B.** Starting procedures for air-handling units include the following:

1. Energize motor; verify proper operation of motor, drive system, and fan wheel. Adjust fan to indicated rpm. Replace fan and motor pulleys as required to achieve design conditions.

2. Measure and record motor electrical values for voltage and amperage.
3. Manually operate dampers from fully closed to fully open position and record fan performance.

3.6 ADJUSTING

- A. Adjust damper linkages for proper damper operation.
- B. Comply with requirements in Section 230593 "Testing, Adjusting, and Balancing for HVAC" for air-handling system testing, adjusting, and balancing.

3.7 CLEANING

- A. After completing system installation and testing, adjusting, and balancing air-handling unit and air-distribution systems and after completing startup service, clean air-handling units internally to remove foreign material and construction dirt and dust. Clean fan wheels, cabinets, dampers, coils, and filter housings, and install new, clean filters.

3.8 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain air-handling units.

END OF SECTION

6-0 COVER SHEET
6-01 DRAWING SHEET INDEX

CODE ANALYSIS AND PHASING

6-11 CODE ANALYSIS, 608555 PLAN, PROJECT SCOTT
6-12 EGRESS PLANS, LOWER AND UPPER LEVELS
6-13 CRITICAL FLAME, THICKING PLANS
6-14 HAZARDOUS MATERIAL, PHASING PLANS
6-15 THERMAL PROTECTION PLANS

6-02 EXISTING CONDITIONS AND DEMOLITION PLAN
6-03 SITE PLAN
6-04 SITE BALANCEMENT 1 OF 3
6-05 SITE BALANCEMENT 2 OF 3
6-06 SITE BALANCEMENT 3 OF 3
6-07 SITE UTILITY PLAN
6-08 SITE UTILITY PROFILES 1 OF 3
6-09 SITE UTILITY PROFILES 2 OF 3
6-10 SITE UTILITY PROFILES 3 OF 3
6-11 SITE IMPROVEMENT SITE DETAILS 1 OF 3

C-15 NOTES
C-14 PROFILES
C-20 LINDSAYING PLAN
EROSION AND SEDIMENT CONTROL
C-2 TITLE SHEET
C-22 OVERLAY PLAN
C-23 NOTES AND DETAILS 1 OF 2
C-233 NOTES AND DETAILS 2 OF 2

A-0	ASSEMBLING STEELS, PARTITION TIES
A-04	DOOR SCREWS
A-05	DOOR SCREWS
A-06	HEM INTERIOR GLAZING ELEVATORS + DETAILS
DEMOLITION PLAN	
D-11	HALL LEVEL DEMOLITION PLAN AREA A
D-12	HALL LEVEL DEMOLITION PLAN AREA B
D-13	HALL LEVEL DEMOLITION PLAN AREA C
D-14	HALL LEVEL DEMOLITION PLAN AREA D
D-15	HALL LEVEL DEMOLITION PLAN AREA E
D-16	HALL LEVEL DEMOLITION PLAN AREA F
D-17	HALL LEVEL DEMOLITION PLAN AREA G
D-18	LOBBY LEVEL DEMOLITION PLAN AREA A
D-19	LOBBY LEVEL DEMOLITION PLAN AREA B

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A-51	INFL. SECTIONS
A-52	INFL. SECTIONS
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A-100	INFL. SECTIONS

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FIGURE 1 GENERAL FISHB SCALE: NOTES & DETAILS

A-0	WALL LEVEL, FISHB FLOOR, PLAN AREA A
A-1	WALL LEVEL, FISHB FLOOR, PLAN AREA A
A-2	WALL LEVEL, FISHB FLOOR, PLAN AREA A
A-3	WALL LEVEL, FISHB FLOOR, PLAN AREA C
A-4	WALL LEVEL, FISHB FLOOR, PLAN AREA D
A-5	WALL LEVEL, FISHB FLOOR, PLAN AREA E
A-6	WALL LEVEL, FISHB FLOOR, PLAN AREA F
A-7	WALL LEVEL, FISHB FLOOR, PLAN AREA G

FIGURE 2 LOWER PLANT & ELEVATION DETAILS

FIGURE 3 HENS SINK, NESTS, ELEVATION, TOP, AND SECURITY FOLDING SCISSOR GATE, PLAN, SECTION & ELEVATION DETAILS

[illegible]

5-2a	MAN BILDING OF MANHATTAN-ROCK FORMATION IN AREA C
5-2b	MAN BILDING ROOF FORMING PLAIN AREA A
5-2c	MAN BILDING FORMATION OF CLAY AND ROOF FORMING PLAINS AREA B
5-2d	MAN BILDING ROOF FORMING PLAIN AREA B
5-2e	MAN BILDING ROOF FORMING PLAIN AREA B
5-2f	MAN BILDING GROUNDWATER AND COLLIERIES IN AREA C AND AREA E
5-2g	MAN BILDING FORMATION
5-2h	MAN BILDING FORMATION
5-2i	MAN BILDING FORMATION
5-2j	MAN BILDING FORMATION
5-2k	MAN BILDING FORMATION
5-2l	MAN BILDING FORMATION
5-2m	MAN BILDING FORMATION
5-2n	MAN BILDING FORMATION
5-2o	MAN BILDING FORMATION
5-2p	MAN BILDING FORMATION
5-2q	MAN BILDING FORMATION
5-2r	MAN BILDING FORMATION
5-2s	MAN BILDING FORMATION
5-2t	MAN BILDING FORMATION
5-2u	MAN BILDING FORMATION
5-2v	MAN BILDING FORMATION
5-2w	MAN BILDING FORMATION
5-2x	MAN BILDING FORMATION
5-2y	MAN BILDING FORMATION
5-2z	MAN BILDING FORMATION

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ELECTRIC SCIENCE ROOM ADAPTATION

ARCHITECTURAL

A-11 ELECTRIC ROOM RECONSTRUCTION PLAN, FLOOR PLAN

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ARCHITECTURAL

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TEAM ROOM / STORAGE BUILDING - ALTERNATE NO. 3
ARCHITECTURAL
INTERIOR ARCHITECTURE CONSULTANTS GROUP

5.1 **INTRODUCTION**

5.1.1 **BACKGROUND**

5.1.2 **SCOPE**

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A-12	SECTION VIEW, SEE LINES DRYASIAN
A-13	SEATING LAYOUT, FOOTING LAYOUT
A-14	WATERPROOFING LAYOUT
A-15	CONCRETE LAYOUT
A-16	DOOR SCHEDULE SHEET
A-17	DETAILED SHEET

THE JOURNAL OF THE

ADDITION NO. 2
TWO-DIGIT PROBLEMS (EX. 1)

DATE	10/09/98
PRIOR NUMBERS	

BCA
 Brenda Campbell
 ARCHITECTS, INC.
 16271 Highway Circle, Suite 370
 Channahon, Maryland 21764
 410.321.2000
www.brendacampbell.com

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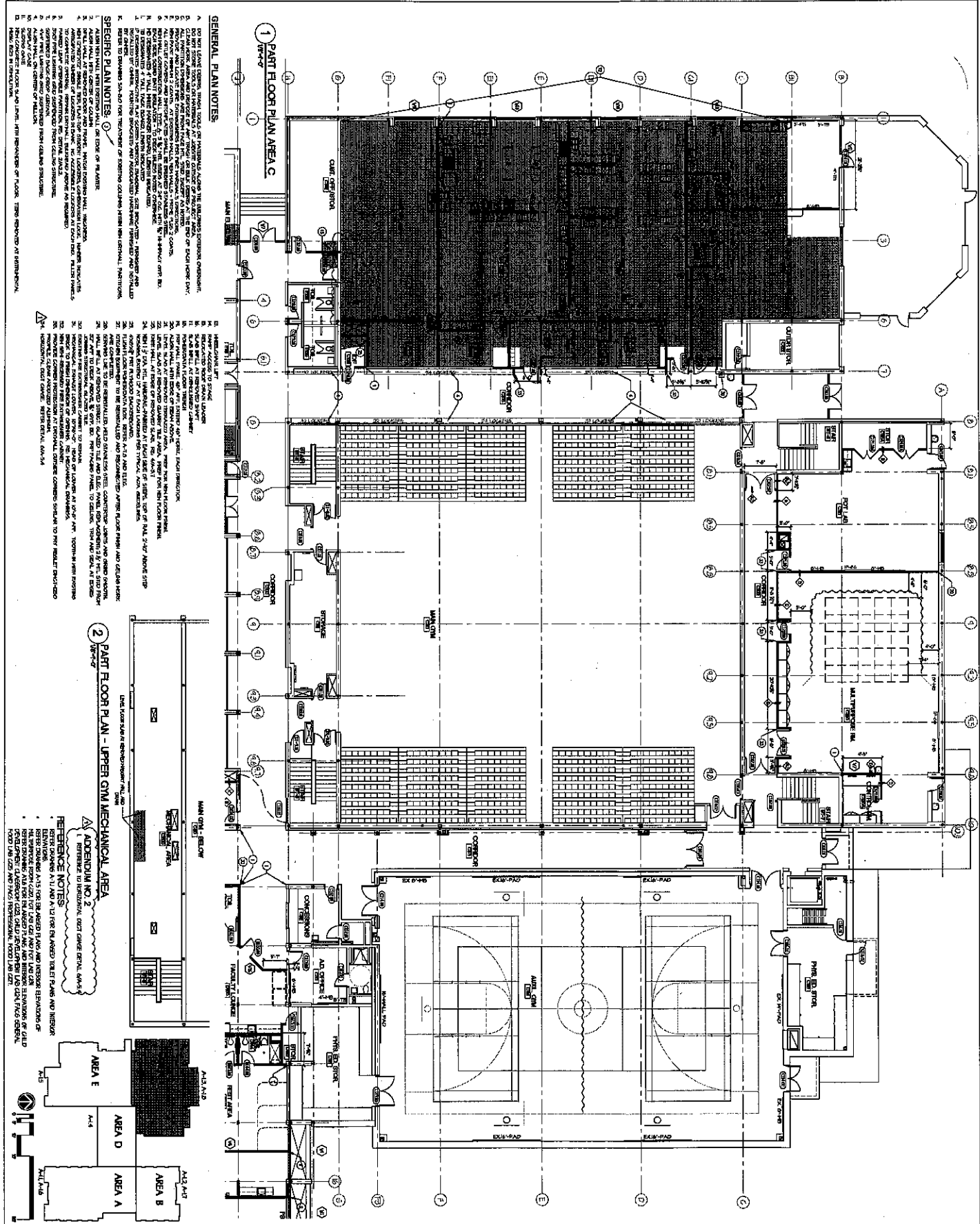
ISSUE OF REVISION	
NO.	DESCRIPTION
1	ISSUED FOR PERMITS
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JOPPATOWNE
PSC NO. 12046161P

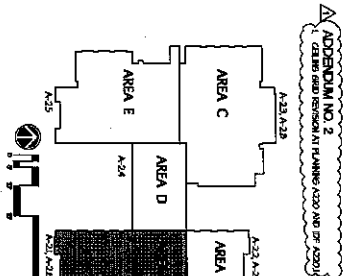
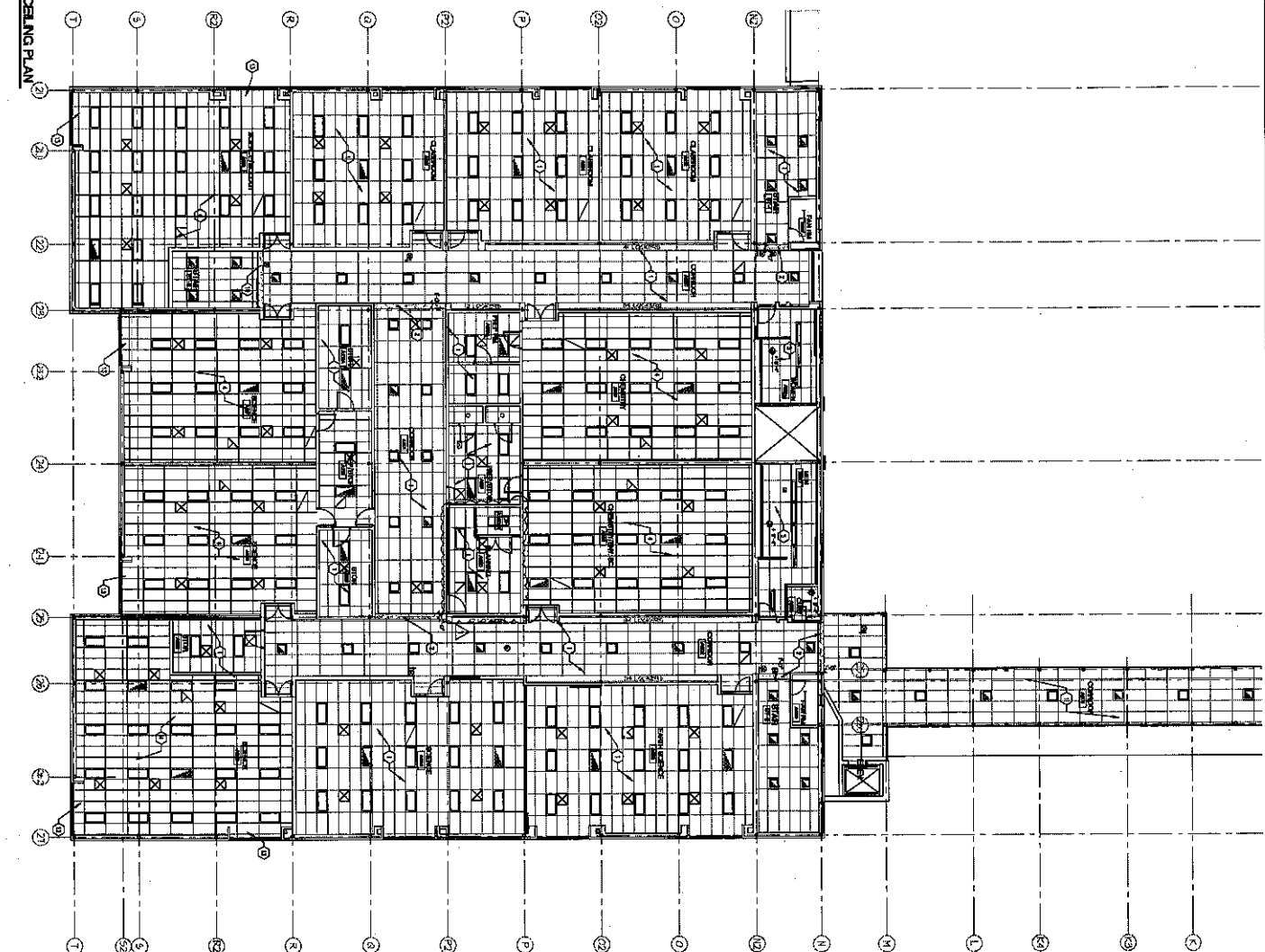
**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**
555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

**HARBOUR COUNTY
PUBLIC SCHOOLS**
OWNED BY:
HARBOUR COUNTY
PUBLIC SCHOOLS
100 SOUTH HARRISON AVENUE
ANN ARBOR, MI 48106

BCA
Barth Campbell
ARCHITECTS, INC.
10000 BROADVIEW AVENUE
SUITE 100
ANN ARBOR, MI 48106
DATE: 10/20/01
NO. 10000
A-13



1 PART REFLECTED CEILING PLAN



BCA
Barth Construction
3000 E. 10th Ave.
Tulsa, OK 74104
918.438.1234
www.bcaconstruction.com

DATE: 10/20/11
PROJECT: JOPPATOWNE HIGH SCHOOL
SHEET: A-26
SCALE: 1/8" = 1'-0"

- GENERAL NOTES:**
1. SEE REFLECTED CEILING PLAN FOR DETAILS OF THE CEILING SYSTEM.
 2. THE CEILING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 3. THE CEILING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
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 28. THE CEILING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

JOPPATOWNE
PSC NO. 12046.16LP

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

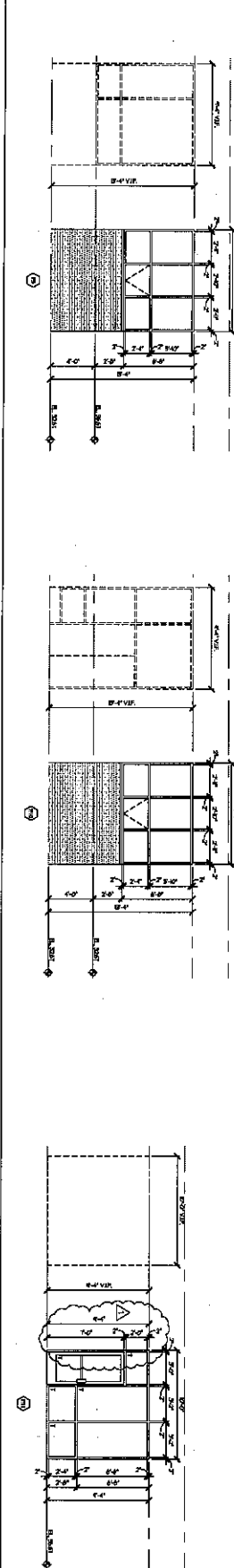
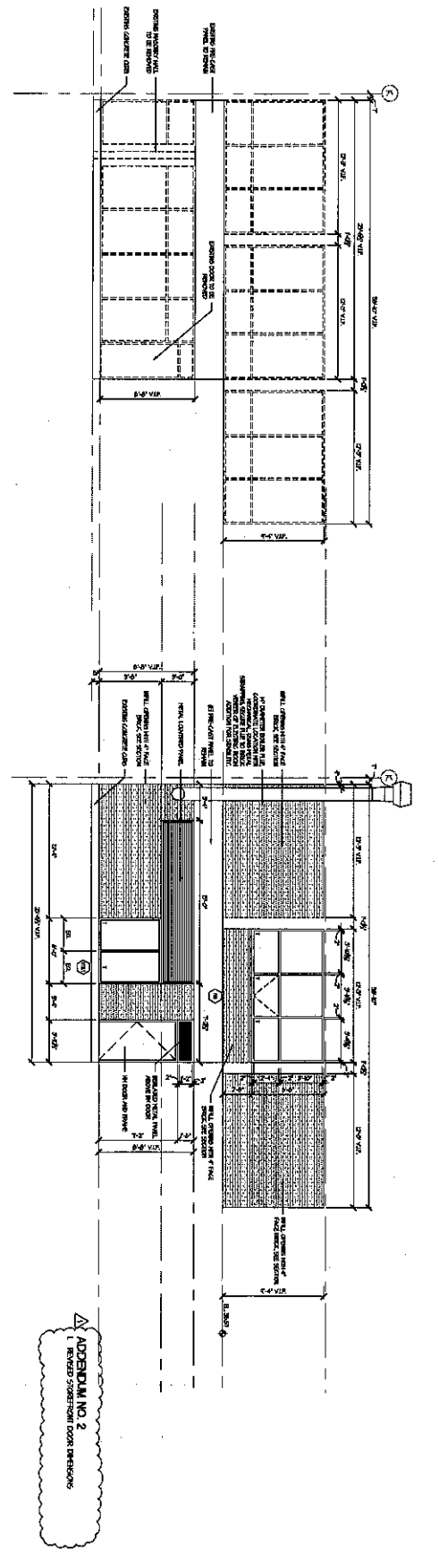
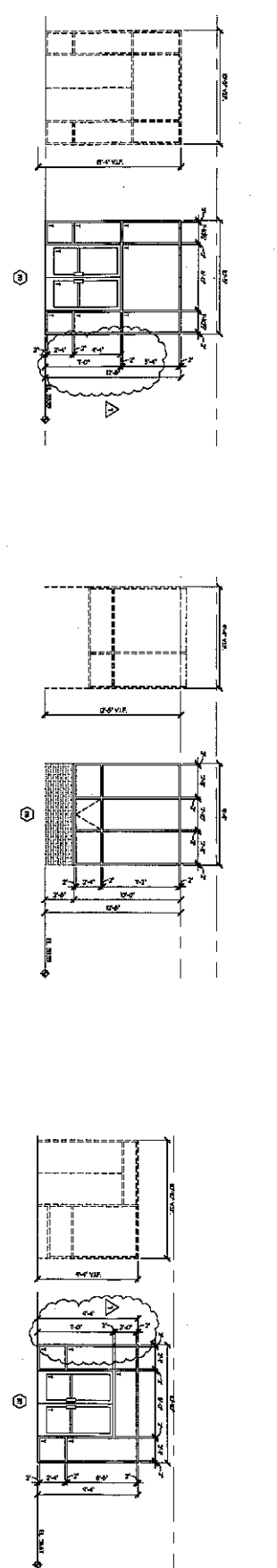
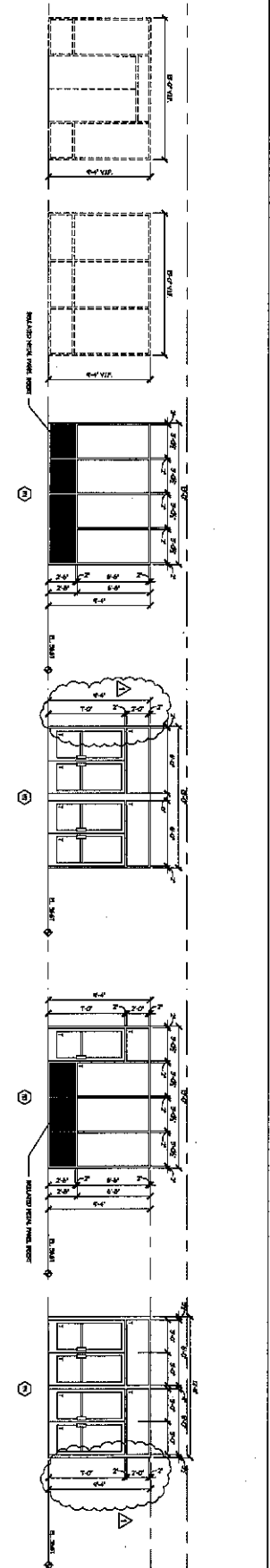
555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

**HARFORD COUNTY
PUBLIC SCHOOLS**

OWNERS/DESIGNER:
HARFORD COUNTY
PUBLIC SCHOOLS
100 SOUTH MARYLAND AVENUE
BALTIMORE, MD 21201

DATE: 10/20/11
PROJECT: JOPPATOWNE HIGH SCHOOL
SHEET: A-26
SCALE: 1/8" = 1'-0"

NO.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	10/20/11
2	ISSUED FOR BIDDING	10/20/11
3	ISSUED FOR CONSTRUCTION	10/20/11
4	ISSUED FOR CONSTRUCTION	10/20/11
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28	ISSUED FOR CONSTRUCTION	10/20/11



ISSUE OF REVISION:			
NO.	DESCRIPTION	DATE	
1	ISSUE FOR SUBMISSION	02/20/20	
2	FINAL REVIEW	04/20/20	
3	REVISION FOR RECORD	04/20/20	
4	APPENDIX NO. 2	04/20/20	

JOPPATOWNE
PUBLIC SCHOOLS
PSC NO. 12046,161P

JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

HARROD COUNTY
PUBLIC SCHOOLS
100 SOUTH HUNTER AVENUE
BELL, VA 22610-2000

PROJECT TITLE
JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION
ARCHITECT
BCA
SCALE
1/8" = 1'-0"

DATE
02/20/20
PROJECT NO.
A-33

BCA
BUILDING CONSULTANTS
ARCHITECTS
1000 JOPPA FARM ROAD
JOPPATOWNE, MD 21085
410-555-1234
www.bcaarchitects.com

ISSUE or REVISION		
NO.	DESCRIPTION	DATE
1	CD SUBMISSION	08/02/22
2	FINAL REVIEW	09/02/22
3	RELINQUISH FOR RECORD	09/02/22
4	ADDITION NO. 2	09/02/22

JOPPATOWNE
PSC NO. 12046, R/LP

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085



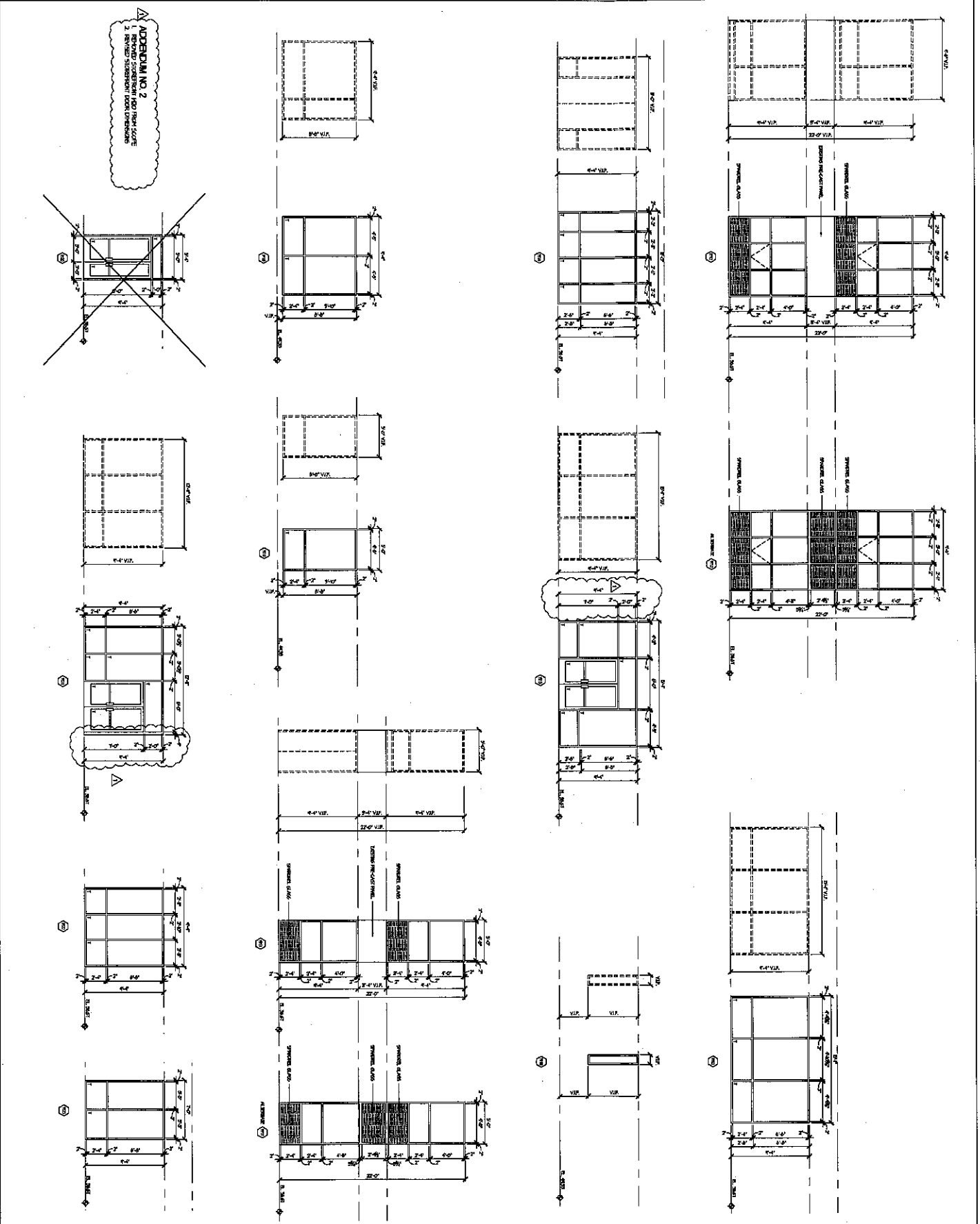
OWNERS:
HARFORD COUNTY
PUBLIC SCHOOLS
100 SOUTH HICKORY AVENUE
P.O. BOX 100000
JOPPATOWNE, MD 21085

PROJECT TITLE:
RANDOM
REPLACEMENT
ELEVATIONS

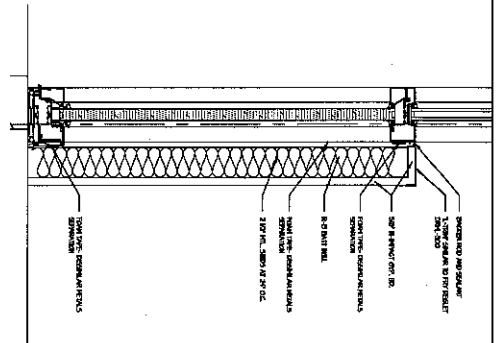
SCALE: AS NOTED
REVISIONS: 1. REVISED SUBMITTAL FOR FINAL REVIEW
2. REVISED SUBMITTAL FOR RECORD
3. REVISED SUBMITTAL FOR RECORD

BCA
BROWN CONSULTANTS
ARCHITECTS, INC.
1000 WASHINGTON AVENUE, SUITE 200
JOPPATOWNE, MD 21085
(410) 438-1234
www.bcaarchitects.com

DATE: 08/20/21
PROJECT NO.: A-34
SHEET NO.: 18 OF 18



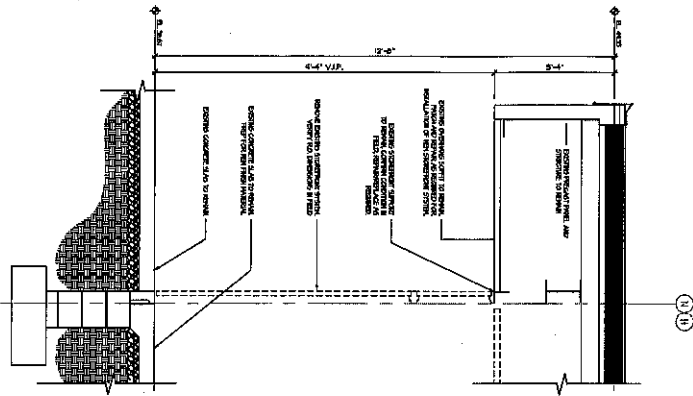
6 KNEE WALL AT STOREFRONT
3-1-0



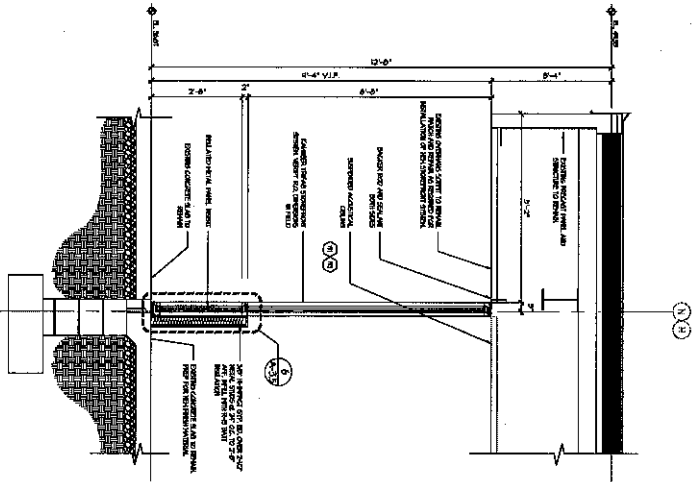
ADDENDUM NO. 2

1. REVEAL STOREFRONT DOOR DIMENSIONS

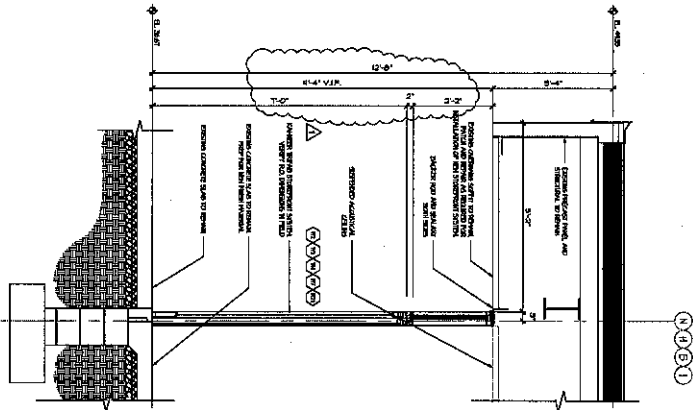
1 DEMOLITION SECTION AT AREA D
3/4"=1'-0"



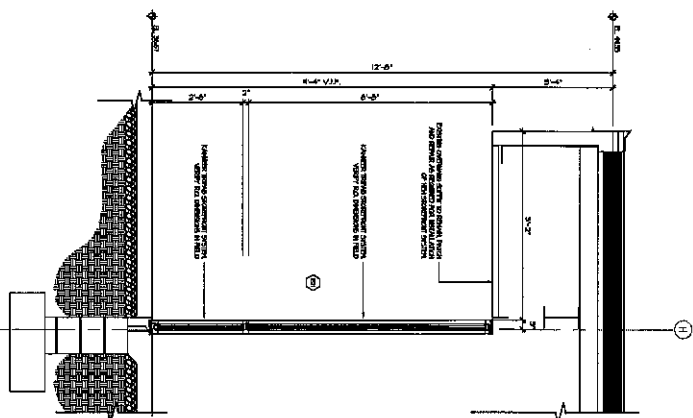
2 TYP. STOREFRONT SECTION AT AREA D
31/5-7-0*



3 TYP. STOREFRONT DOOR SECTION AT AREA D
3/4" = 1'-0"



4 STOREFRONT SECTION AT CORRIDOR D104
3/4"-1"=1'



ISSUE OR REVISION:	
NO.	DATE
1	ISSUED
2	FINAL REVIEW
3	REVIEW FOR REVISION
4	REVISION NO. 2

JOPPATOWNE
PSC NO. 12046.16P

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

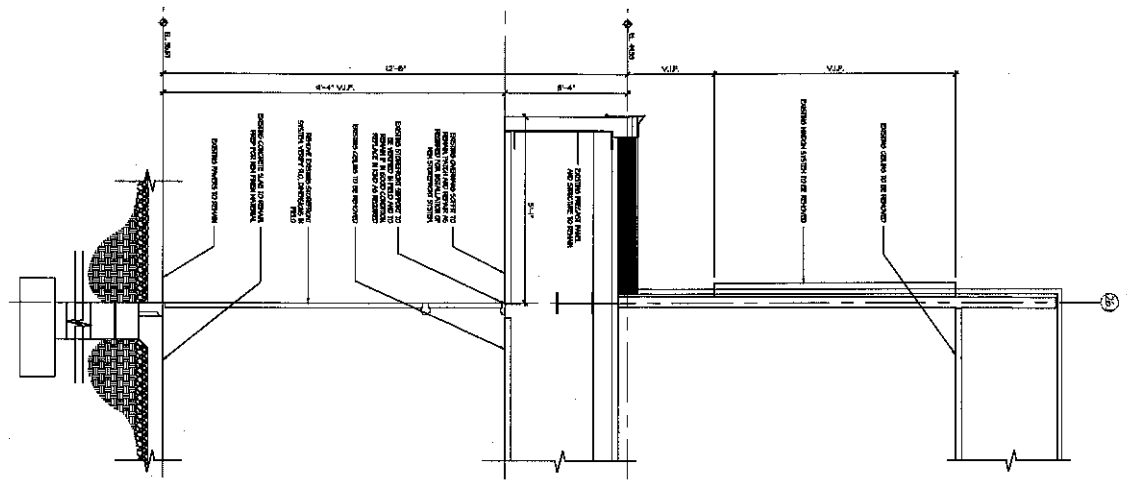


OWNERS/CLIENT:
HARDFORD COUNTY
PUBLIC SCHOOLS
102 SOUTH HAWKRY AVENUE
JOPPATOWNE, MD 21085

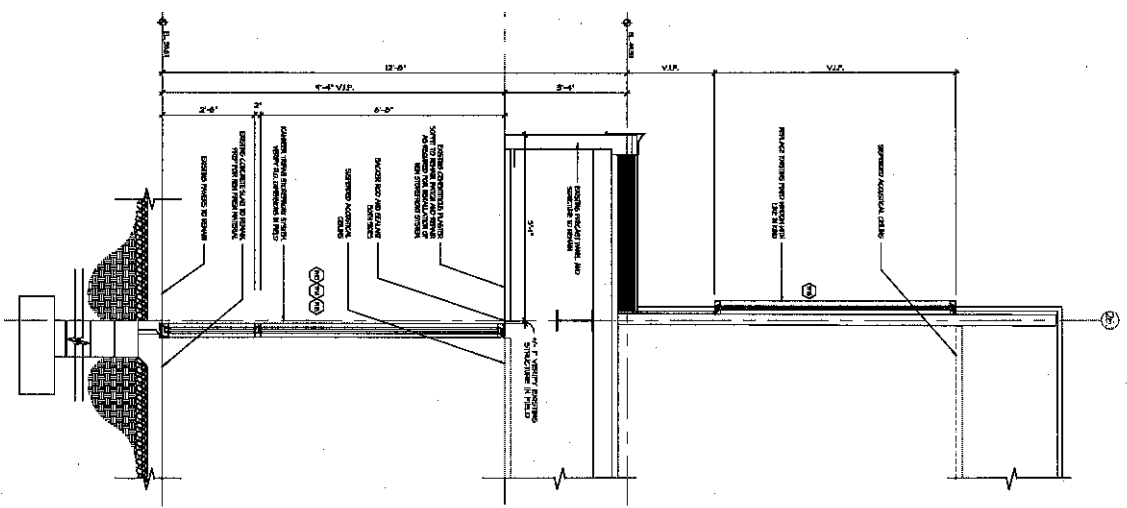
DESIGNER:
BCA
102 SOUTH HAWKRY AVENUE
JOPPATOWNE, MD 21085

DATE: 10/20/01
PROJECT NUMBER: A-314

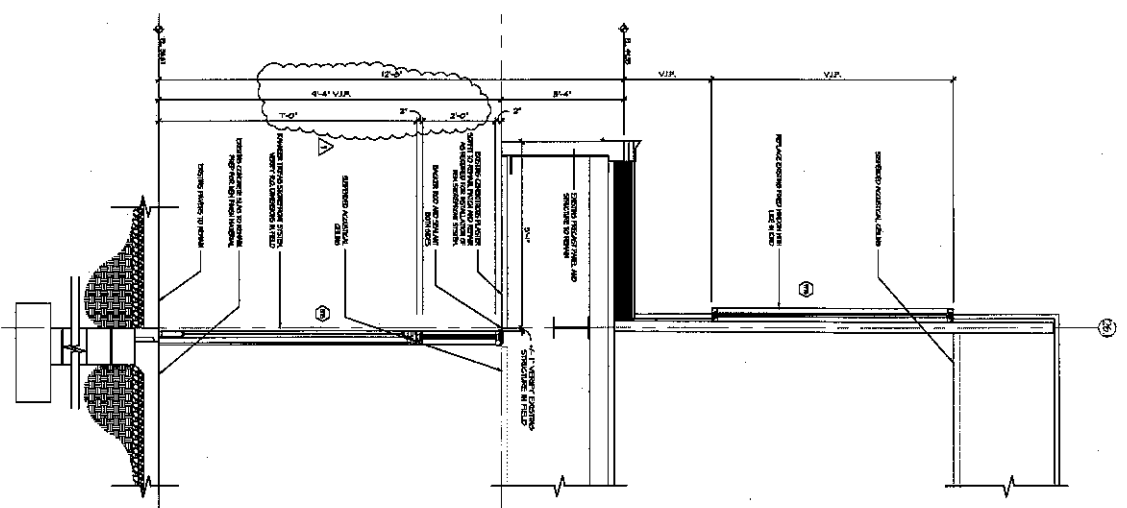
1 DEMOLITION SECTION AT MEDIA CENTER RM ASS



2 SECTION AT MEDIA CENTER RM ASS

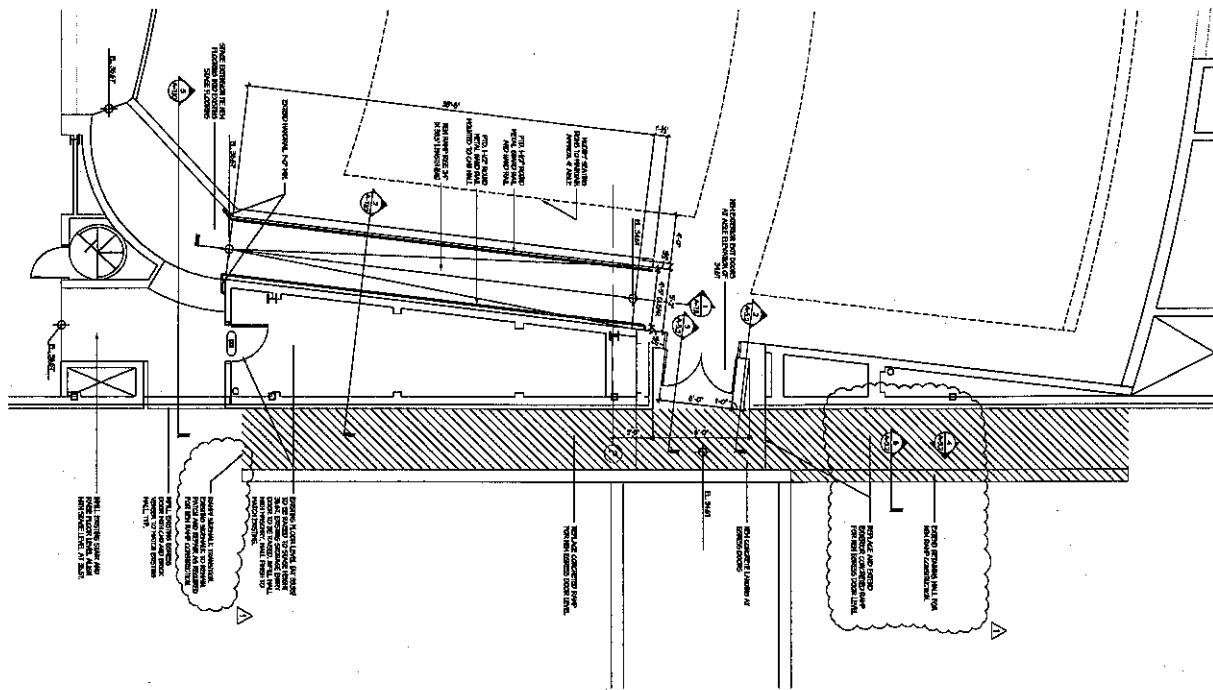


3 SECTION AT MEDIA CENTER RM ASS

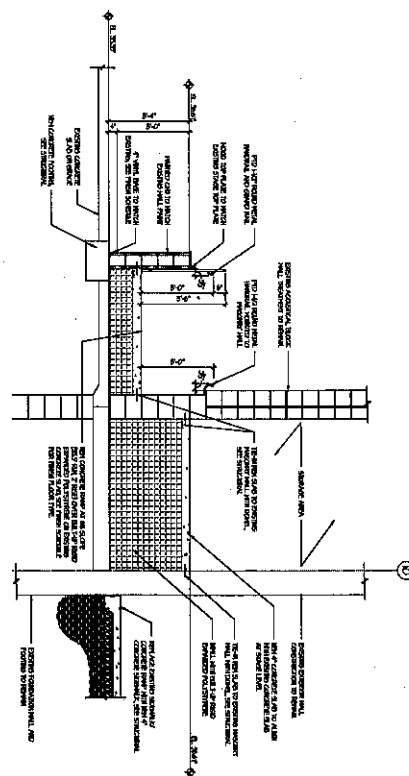


ADDENDUM NO. 2
1. REVISED SPOILERMENT DOOR OPENING

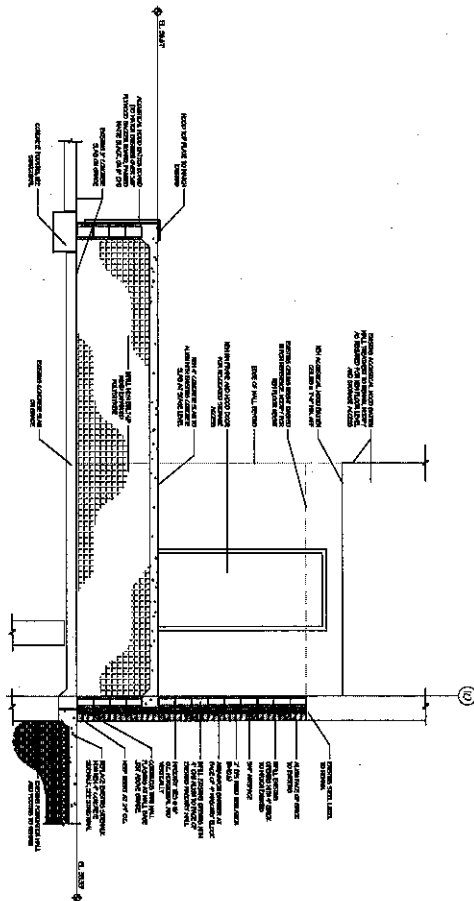
1 ENLARGED PLAN



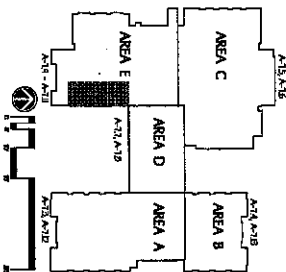
2 SECTION AT AUDITORIUM RAMP



3 SECTION AT RAISED CONCRETE FLOOR



AUDITORIUM NO. 2
2. ACCORD ELEVATOR AND SECTION NUMBER AT ELEVATOR
WALL, DIMENSIONS FOR BENCHMARK CONCRETE FLOOR



JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085



OWNER/DEVELOPER:
HARFORD COUNTY
PUBLIC SCHOOLS
102 SOUTH WILSON AVENUE
BEL AIR, MARYLAND 21035

SHEET TITLE:
AREA A, MAIN LEVEL,
ENLARGED PLANS,
& INTERIOR ELEVATIONS

SCALE: AS NOTED
NOTES: SEE SPECIFICATIONS
FOR MATERIALS AND FINISHES
AND FOR CONSTRUCTION
METHODS. SEE ALSO
GENERAL NOTES TO THE SET.

BCA
Bentley Construction
ARCHITECTS, INC.
1001 E. Joppa Farm Road
Joppatowne, Maryland 21085
Tel: 410-438-1234
Fax: 410-438-1235

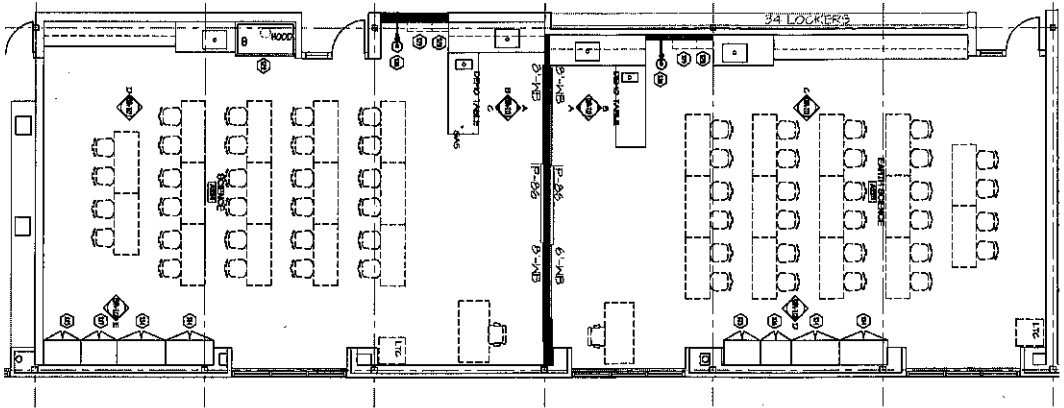
DATE: JUDSON
NO. 1
A-7.10
N-554

JOPPATOWNE
PSC NO. 12046-KLP

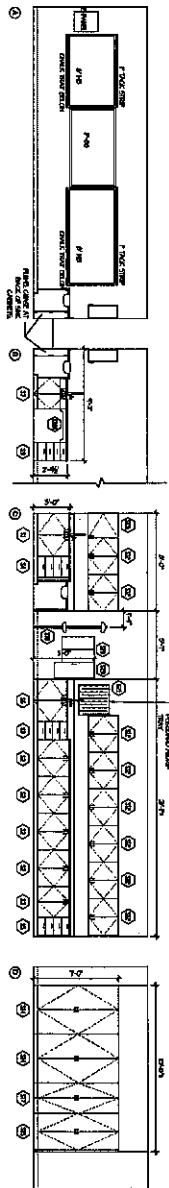
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1	CO. SUBMITTAL	04/03/00
2	FINAL DESIGN	04/03/00
3	PERMIT FOR CONSTRUCTION	04/03/00
4	CONSTRUCTION NO. 1	04/03/00

ISSUE OR REVISION:

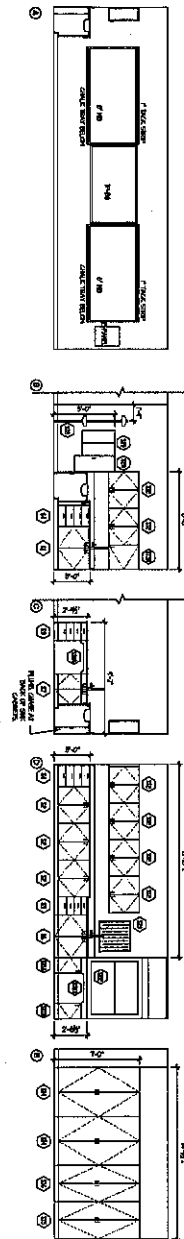
1 ENLARGED CLASSROOM PLANS



2 EARTH SCIENCE A226 ELEVATIONS



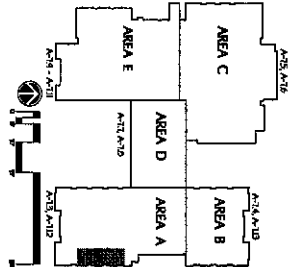
3 SCIENCE A224 ELEVATIONS



NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS
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ADDENDUM NO. 2

REVISIONS AND SEE NOTE 1000.



ISSUE OF REVISION

NO.	DESCRIPTION	DATE
1	CD SUBMITTAL	06/20/20
2	FINAL REVIEW	06/20/20
3	REVISION FOR BIDDING	06/20/20
4	ADDENDUM NO. 2	06/20/20

JOPPATOWNE

PSC NO. 12046.161P

JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

BCA

Building Construction Associates, Inc.
1000 North Center Street, Suite 200
Joppatowne, MD 21085
Tel: 410-251-1000
Fax: 410-251-1001
www.bca-md.com

HARFORD COUNTY PUBLIC SCHOOLS

COMMERCIAL
HARFORD COUNTY PUBLIC SCHOOLS
100 SOUTH MIDDLE AVENUE
BALTIMORE, MARYLAND 21202

DATE

06/20/20

PROJ. NO.

A-7.12

SCALE

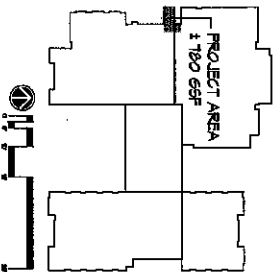
AS NOTED

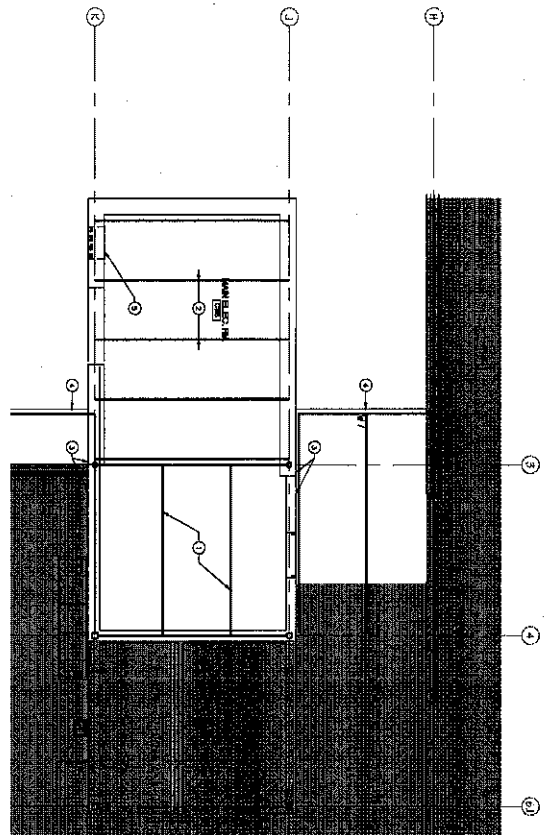
Architectural floor plan of a building section. The plan shows a large central hall (10'-2" x 10'-0") and several smaller rooms. Dimensions are provided for various sections. The plan is oriented with a north arrow pointing towards the top-left. The drawing is a technical architectural drawing with various lines, dimensions, and labels.

- [illegible]

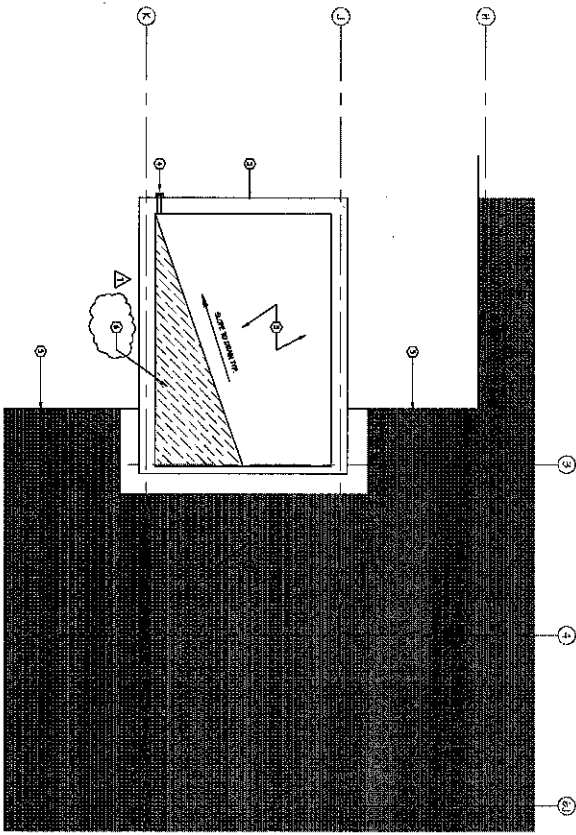
- [illegible]

ADDENDUM NO. 2
REVISED DATES AT EXPRESS DOOR CLOSET





1 ELECTRIC ROOM ADDITION RE-ELECTED CEILING PLAN



2 ELECTRIC ROOM ADDITION ROOF PLAN

- REVISIONS**
1. EXISTING ROOF STRUCTURE VERIFY EXISTING RATED.
 2. NEW ROOF STRUCTURE SEE STRUCTURAL DRAWINGS.
 3. EXISTING ROOF FLASHING SEE STRUCTURAL DRAWINGS.
 4. EXISTING ROOF FLASHING VERIFY TO BEHOLD.
 5. EXISTING ROOF FLASHING VERIFY TO BEHOLD.

- NOTES**
1. EXISTING ROOF STRUCTURE VERIFY EXISTING RATED.
 2. NEW ROOF STRUCTURE SEE STRUCTURAL DRAWINGS.
 3. EXISTING ROOF FLASHING SEE STRUCTURAL DRAWINGS.
 4. EXISTING ROOF FLASHING VERIFY TO BEHOLD.
 5. EXISTING ROOF FLASHING VERIFY TO BEHOLD.
 6. EXISTING ROOF FLASHING VERIFY TO BEHOLD.

ADDENDUM NO. 2
 1. EXISTING ROOF STRUCTURE VERIFY EXISTING RATED.

ISSUE OR REVISION		DATE
NO. DESCRIPTION	DATE	
1. INITIAL REVISION	DATE	
2. INITIAL REVISION	DATE	
3. INITIAL REVISION	DATE	
4. INITIAL REVISION	DATE	
5. INITIAL REVISION	DATE	
6. INITIAL REVISION	DATE	
7. INITIAL REVISION	DATE	
8. INITIAL REVISION	DATE	
9. INITIAL REVISION	DATE	
10. INITIAL REVISION	DATE	

**JOPPATOWNE HIGH SCHOOL
 LIMITED RENOVATION**

555 JOPPA FARM ROAD
 JOPPATOWNE, MARYLAND 21085



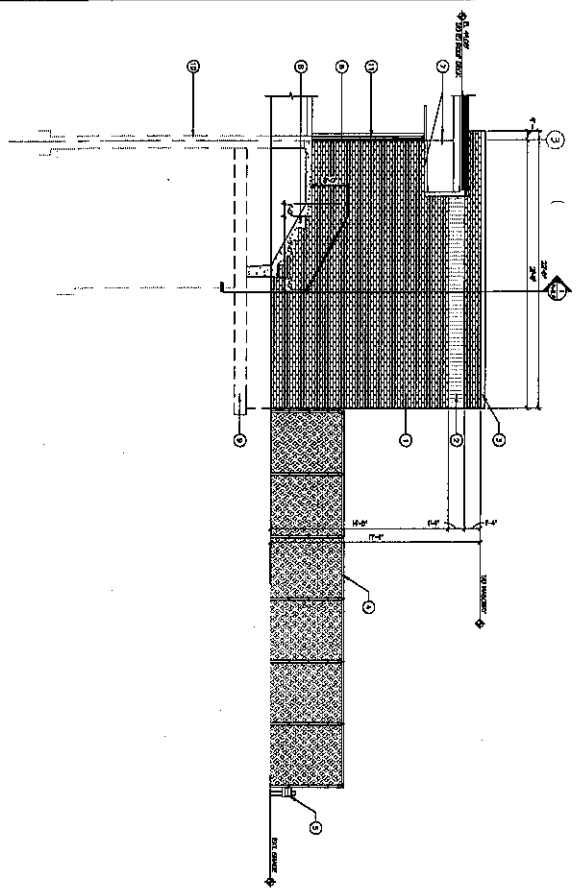
OWNER/DESIGNER:
 HARFORD COUNTY
 PUBLIC SCHOOLS
 200 N. WASHINGTON STREET
 JOPPATOWNE, MD 21085

SHEET TITLE:
 ELECTRIC ROOM
 AND
 ROOF PLAN

SCALE:
 AS SHOWN

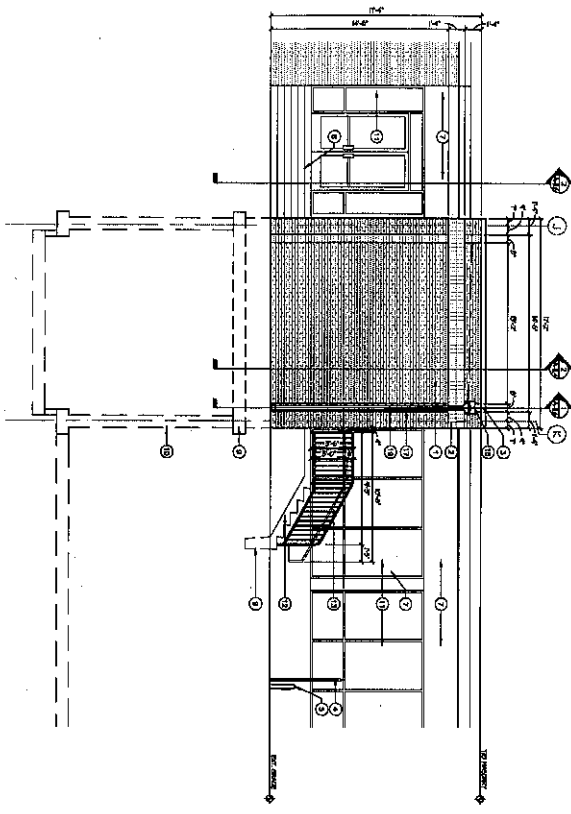
DATE: 10/20/04
PROJECT NUMBER: A-11.2
SCALE: 1/8"=1'-0"

BCA
 Banta Campbell
 ARCHITECTS, INC.
 1000 N. WASHINGTON STREET
 JOPPATOWNE, MD 21085
 410-438-1234

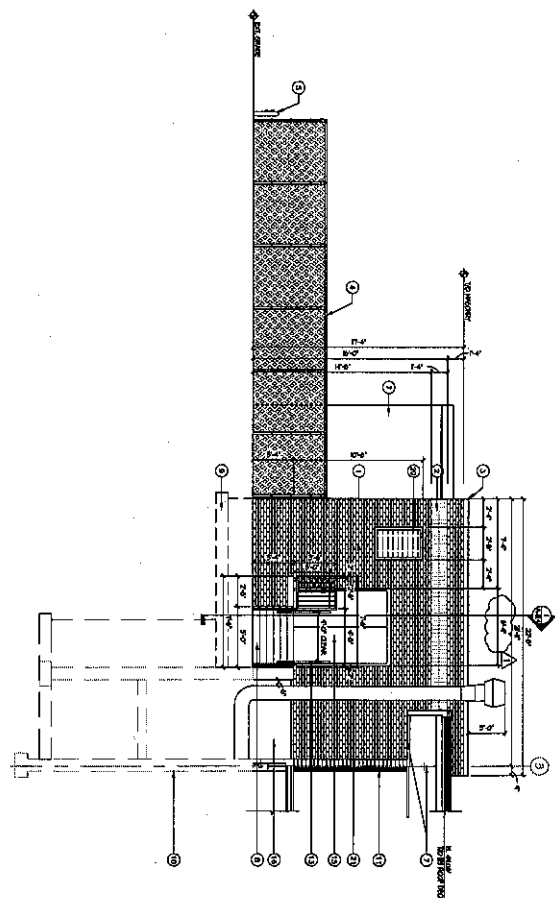


1 ELECTRIC ROOM ADDITION SECTION
1/2" = 1'-0"

- EXPLANATION:**
1. TYPICAL WOODWORK - NORMAL 2 1/2" X 6" S4S
 2. TYPICAL DOOR FRAME - ALUMINUM - 2 1/2" X 6" S4S
 3. DOOR - 2 1/2" X 6" S4S - ALUMINUM - 2 1/2" X 6" S4S
 4. TYPICAL WINDOW FRAME - ALUMINUM - 2 1/2" X 6" S4S
 5. TYPICAL WINDOW GLASS - 1/2" GLASS - 1/2" GLASS
 6. TYPICAL WINDOW SILL - 1/2" GLASS - 1/2" GLASS
 7. TYPICAL WINDOW CASE - 1/2" GLASS - 1/2" GLASS
 8. TYPICAL WINDOW LINEN - 1/2" GLASS - 1/2" GLASS
 9. TYPICAL WINDOW LINEN - 1/2" GLASS - 1/2" GLASS
 10. TYPICAL WINDOW LINEN - 1/2" GLASS - 1/2" GLASS



2 ELECTRIC ROOM ADDITION SECTION
1/2" = 1'-0"



3 ELECTRIC ROOM ADDITION SECTION
1/2" = 1'-0"

ADDENDUM NO. 2
REVISED PERMANENT AT BOWERS DOOR CASES

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

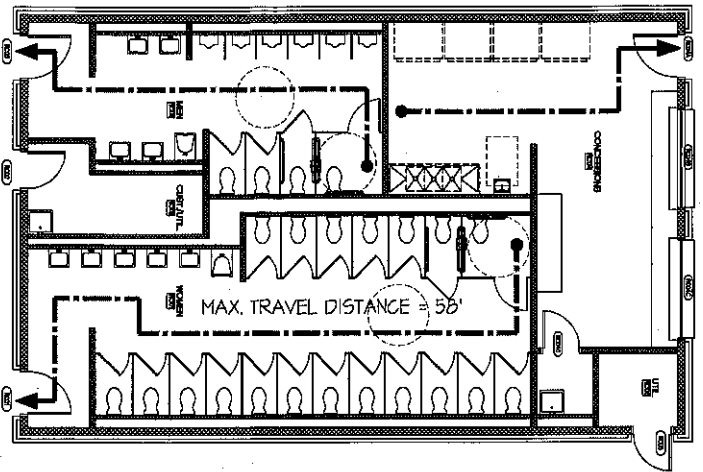


OWNER:
HARFORD COUNTY
PUBLIC SCHOOLS
402 SOUTH HICKORY AVENUE
BELL AND HAVENLAND STATION

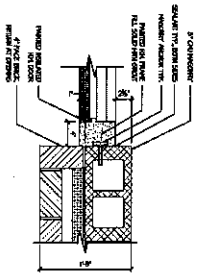
ARCHITECT:
BCA
1502 JOPPATOWNE ROAD, SUITE 200
JOPPATOWNE, MARYLAND 21085
410.338.8888

DATE: 10/20/21
PROJECT: BOWERS
PROJECT NUMBER: A-11-3
SCALE: 1/2" = 1'-0"

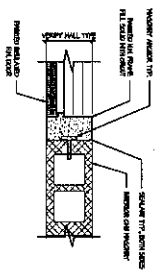
ISSUE OF REVISION		DATE
NO.	DESCRIPTION	DATE
1	CD SUBMISSION	09/20/21
2	FINAL REVIEW	09/20/21
3	RELIEVE FOR BOWERS DOOR CASES	09/20/21
4	ADDENDUM NO. 2	09/20/21



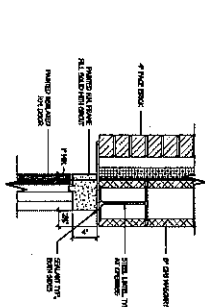
1 LIFE SAFETY PLAN



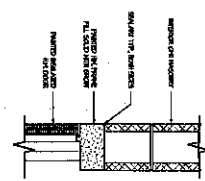
2 EXTERIOR MASONRY HEAD DETAIL



3 INTERIOR MASONRY HEAD DETAIL

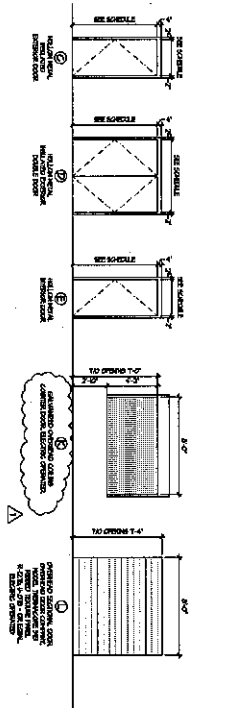


4 EXTERIOR MASONRY JAMB DETAIL



5 INTERIOR MASONRY JAMB DETAIL

RESISTANCE/CONCESSIONS BUILDING DOOR SCHEDULE												
NUMBER	LOCATION	TYPE	UNIT	SIZE	THICK	THRESH	CONTROL	FRAME	GLASS	GLASS	GLASS	REMARKS
1	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
2	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
3	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
4	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
5	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
6	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
7	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
8	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
9	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
10	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
11	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
12	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
13	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
14	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
15	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
16	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
17	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
18	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
19	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
20	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
21	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
22	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
23	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
24	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
25	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
26	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
27	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
28	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
29	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
30	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
31	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
32	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
33	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
34	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
35	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
36	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
37	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
38	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
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40	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
41	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
42	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
43	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
44	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
45	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
46	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
47	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
48	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
49	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
50	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
51	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
52	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
53	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
54	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
55	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
56	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
57	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
58	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
59	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
60	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
61	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
62	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
63	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
64	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
65	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
66	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
67	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
68	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
69	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
70	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
71	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
72	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
73	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
74	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
75	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
76	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
77	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
78	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
79	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
80	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
81	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
82	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
83	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
84	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
85	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
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87	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
88	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
89	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
90	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
91	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
92	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
93	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
94	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
95	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
96	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
97	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
98	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
99	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
100	ENTRANCE	1	1	10'0"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"



HARDWARE SCHEDULE

1. ALL HARDWARE SHALL BE AS SHOWN OR EQUALS STILL MEETING THE ABOVE REQUIREMENTS.

2. ALL HARDWARE SHALL BE AS SHOWN OR EQUALS STILL MEETING THE ABOVE REQUIREMENTS.

3. ALL HARDWARE SHALL BE AS SHOWN OR EQUALS STILL MEETING THE ABOVE REQUIREMENTS.

4. ALL HARDWARE SHALL BE AS SHOWN OR EQUALS STILL MEETING THE ABOVE REQUIREMENTS.

5. ALL HARDWARE SHALL BE AS SHOWN OR EQUALS STILL MEETING THE ABOVE REQUIREMENTS.

6. ALL HARDWARE SHALL BE AS SHOWN OR EQUALS STILL MEETING THE ABOVE REQUIREMENTS.

7. ALL HARDWARE SHALL BE AS SHOWN OR EQUALS STILL MEETING THE ABOVE REQUIREMENTS.

8. ALL HARDWARE SHALL BE AS SHOWN OR EQUALS STILL MEETING THE ABOVE REQUIREMENTS.

9. ALL HARDWARE SHALL BE AS SHOWN OR EQUALS STILL MEETING THE ABOVE REQUIREMENTS.

10. ALL HARDWARE SHALL BE AS SHOWN OR EQUALS STILL MEETING THE ABOVE REQUIREMENTS.

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

ISSUE OF REVISION

No.	DESCRIPTION	DATE
1	ISSUE OF REVISION	06/01/20
2	ISSUE OF REVISION	06/01/20
3	ISSUE OF REVISION	06/01/20

APPENDIX NO. 2
1. REVISIONS TO THE R

BCA

BRIDGE COUNTY ARCHITECTS

1001 W. JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085
410-221-1201

DATE: 06/01/20
PROJECT NUMBER: A-1201
SHEET: 10-151

1. SEE PLAN NO. 1 FOR EXISTING CONDITIONS.
2. SEE PLAN NO. 2 FOR EXISTING CONDITIONS.
3. SEE PLAN NO. 3 FOR EXISTING CONDITIONS.
4. SEE PLAN NO. 4 FOR EXISTING CONDITIONS.
5. SEE PLAN NO. 5 FOR EXISTING CONDITIONS.
6. SEE PLAN NO. 6 FOR EXISTING CONDITIONS.
7. SEE PLAN NO. 7 FOR EXISTING CONDITIONS.
8. SEE PLAN NO. 8 FOR EXISTING CONDITIONS.
9. SEE PLAN NO. 9 FOR EXISTING CONDITIONS.
10. SEE PLAN NO. 10 FOR EXISTING CONDITIONS.

ISSUE OF REVISION	
NO.	DESCRIPTION
1	CD 5/23/2004
2	CD 5/23/2004
3	CD 5/23/2004
4	CD 5/23/2004
5	CD 5/23/2004
6	CD 5/23/2004
7	CD 5/23/2004
8	CD 5/23/2004
9	CD 5/23/2004
10	CD 5/23/2004

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085



OWNERS:
JOPPATOWNE PUBLIC SCHOOLS
100 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

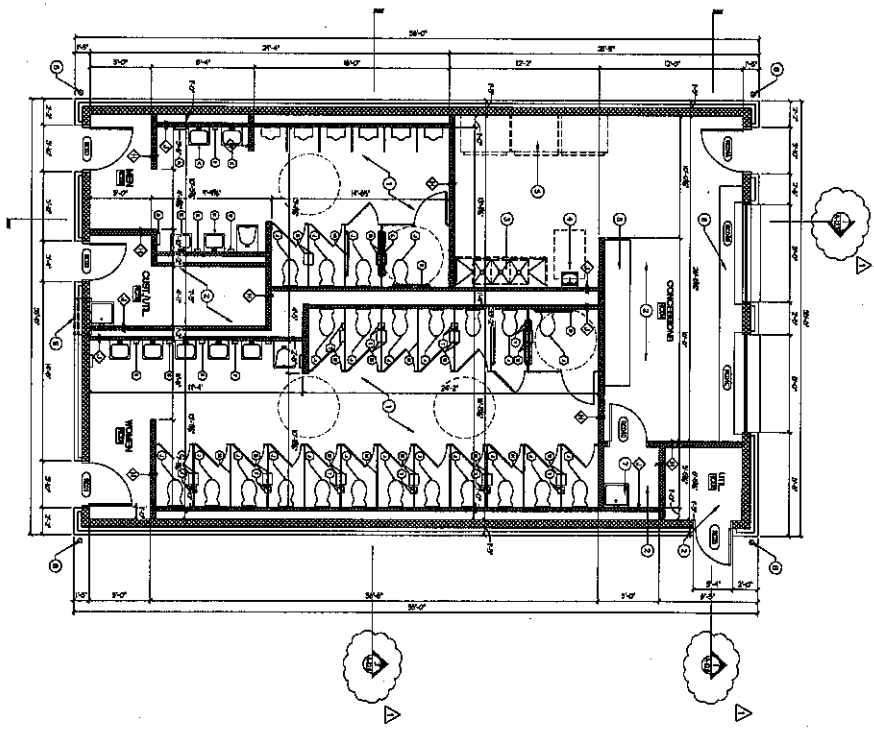
SHEET TITLE
FLOOR PLAN

SCALE: AS NOTED

PREPARED BY: [Name]
CHECKED BY: [Name]
DATE: [Date]

BCA
BRIAN CAMPBELL
ARCHITECTS, P.C.
100 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

DATE: 10/20/04
PROJ. NUMBER: A-121
PSC NO. 12046 K&P



1 FLOOR PLAN

APPENDIX 2
REMOVED SCREENWALLS

Technical drawing of a building facade, likely a cross-section or elevation view. The drawing shows a gabled roof structure with various components labeled with numbers 1 through 15. The roof is covered with a material labeled 1, and the walls are constructed from brickwork, indicated by hatching patterns. The drawing includes dimensions for the roof slope, wall height, and other structural elements. A small inset at the bottom right shows a cross-section of the roof structure, labeled with numbers 1, 2, and 3.

<u>ISSUE OR REVISION:</u>	
No. DISPOSITION	DATE
- CO SUBMISSION	09/26/00
- FINAL REVIEW	08/24/00
RELINQ FOR BIDDING	07/24/00
ADDITIONAL NO. 2	06/17/00

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085

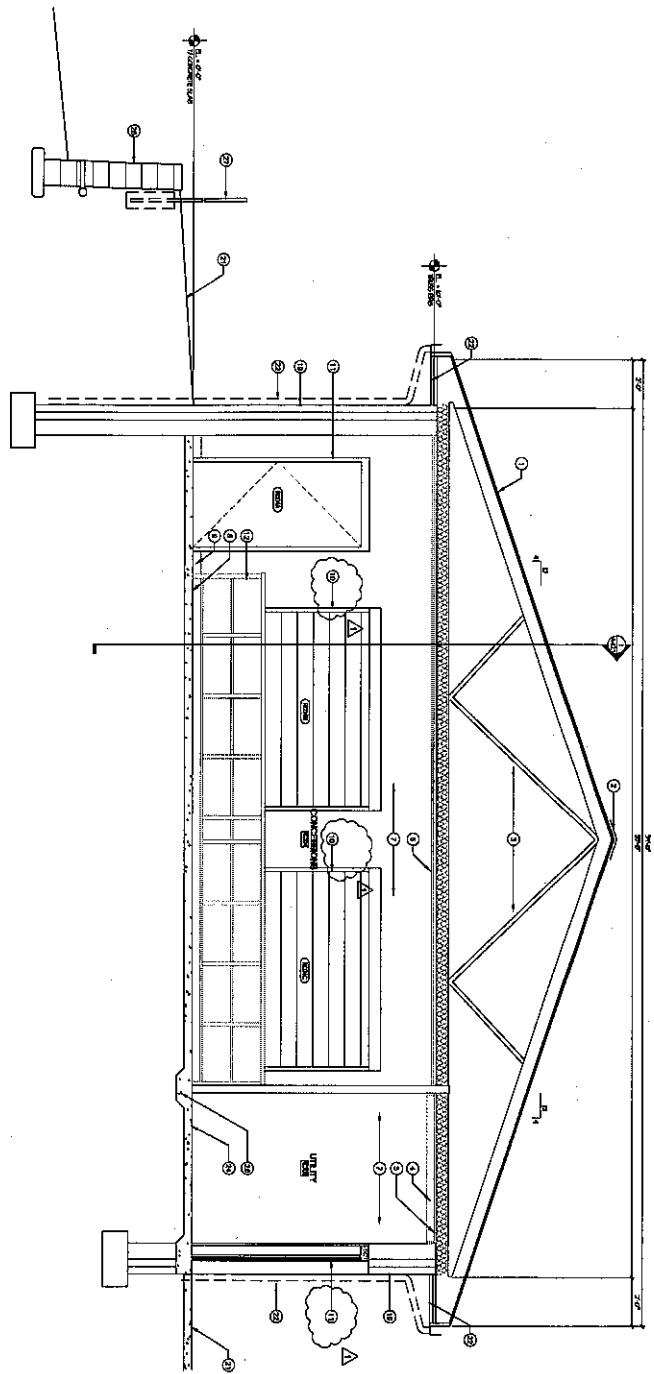
UNIVERSITY MICROFILMS
HARFORD COUNTY
PUBLIC SCHOOLS
102 SOUTH HICKORY AVENUE
BELL AIR, MARYLAND 21030

SCALE: AS NOTED
PROFESSIONAL CERTIFICATION
I certify that this document was prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland. (License No. 0277).
Expiration date: Dec. 4, 2004

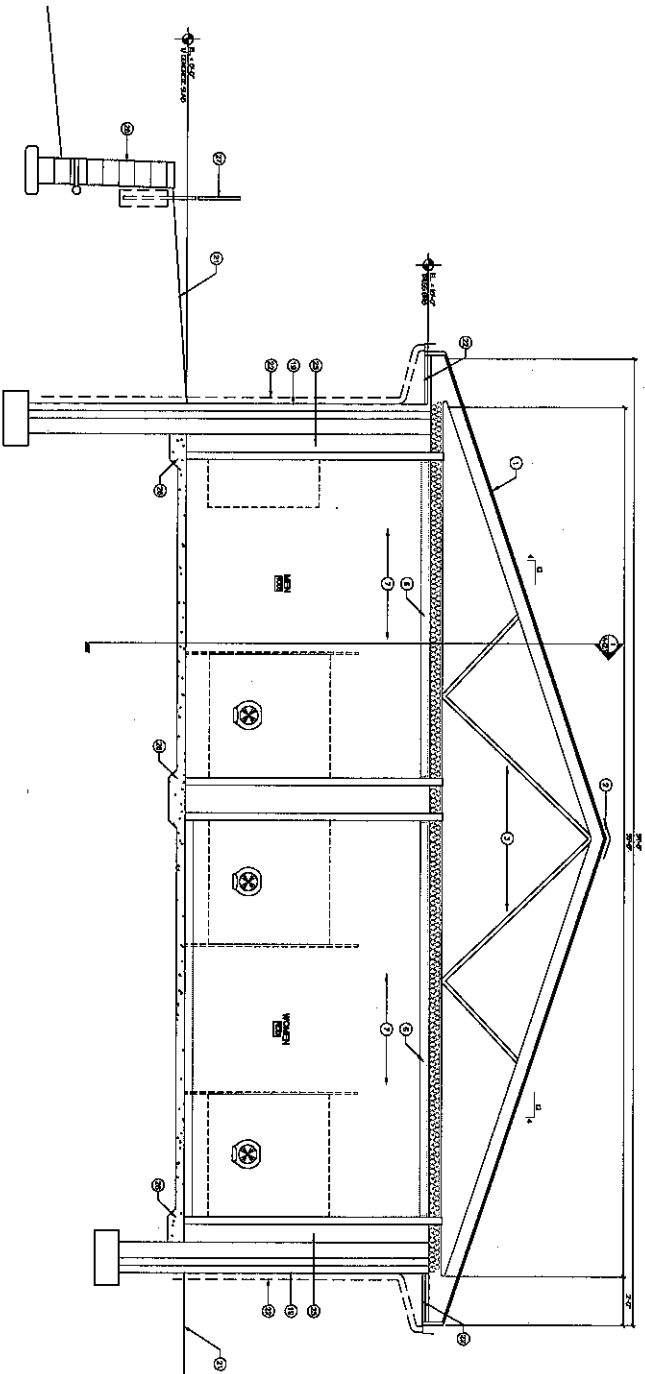
BCA
Bartha Campbell
ARCHITECTS, INC.
11221 Thompson Circle, Suite 200
Columbia, Maryland 21044
410.294.6000
www.barthacampbell.com

DATE	10/30/09
PROJ. NUMBER	
SCALE	1/4"=1'-0"

A-12.4



1 BUILDING SECTION
1/8" = 1'-0"



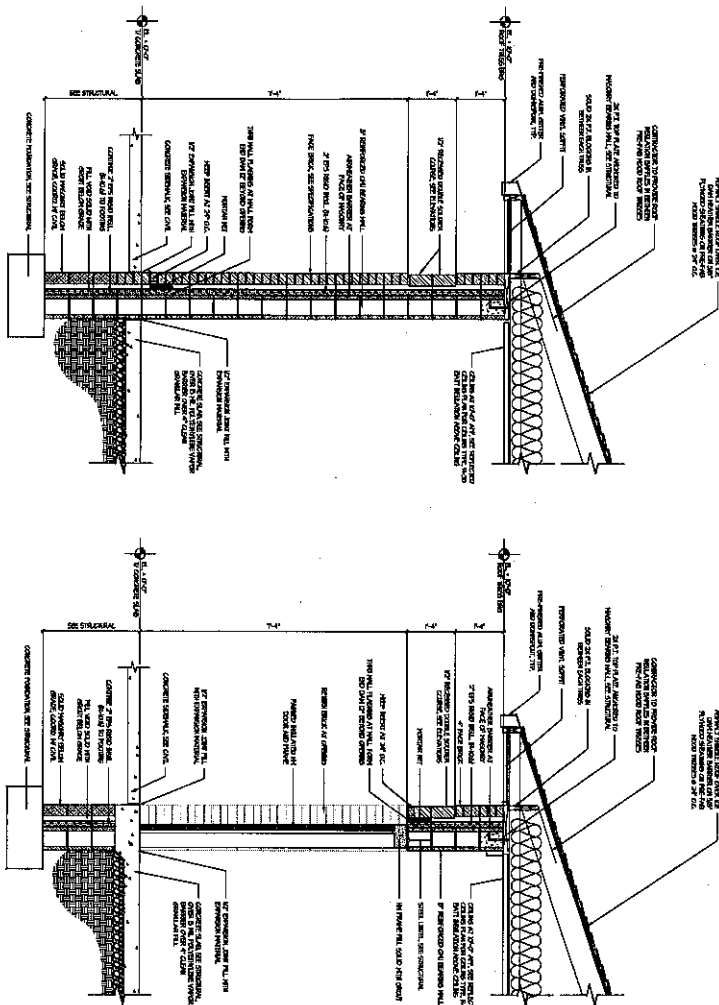
2 BUILDING SECTION
1/8" = 1'-0"

- REVISIONS**
- | NO. | DESCRIPTION | DATE |
|-----|-------------------|----------|
| 1 | ISSUED FOR PERMIT | 05/10/20 |
| 2 | ISSUED FOR PERMIT | 05/10/20 |
| 3 | ISSUED FOR PERMIT | 05/10/20 |
| 4 | ISSUED FOR PERMIT | 05/10/20 |
| 5 | ISSUED FOR PERMIT | 05/10/20 |
| 6 | ISSUED FOR PERMIT | 05/10/20 |
| 7 | ISSUED FOR PERMIT | 05/10/20 |
| 8 | ISSUED FOR PERMIT | 05/10/20 |
| 9 | ISSUED FOR PERMIT | 05/10/20 |
| 10 | ISSUED FOR PERMIT | 05/10/20 |
| 11 | ISSUED FOR PERMIT | 05/10/20 |
| 12 | ISSUED FOR PERMIT | 05/10/20 |
| 13 | ISSUED FOR PERMIT | 05/10/20 |
| 14 | ISSUED FOR PERMIT | 05/10/20 |
| 15 | ISSUED FOR PERMIT | 05/10/20 |
| 16 | ISSUED FOR PERMIT | 05/10/20 |
| 17 | ISSUED FOR PERMIT | 05/10/20 |
| 18 | ISSUED FOR PERMIT | 05/10/20 |
| 19 | ISSUED FOR PERMIT | 05/10/20 |
| 20 | ISSUED FOR PERMIT | 05/10/20 |
| 21 | ISSUED FOR PERMIT | 05/10/20 |
| 22 | ISSUED FOR PERMIT | 05/10/20 |
| 23 | ISSUED FOR PERMIT | 05/10/20 |
| 24 | ISSUED FOR PERMIT | 05/10/20 |
| 25 | ISSUED FOR PERMIT | 05/10/20 |

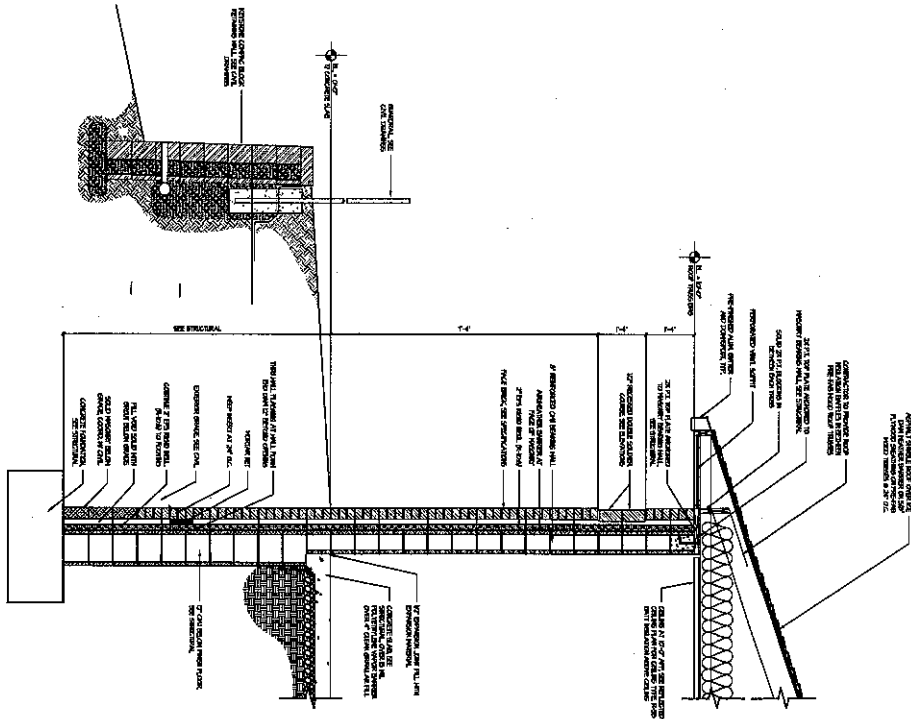
APPENDIX NO. 2
1. PERMIT APPLICATION

ISSUE OF REVISION NO. DESCRIPTION DATE 1 TOTAL REVISION 05/10/20 2 REVISION FOR PERMIT 05/10/20 3 APPENDIX NO. 2 05/10/20		OWNER/CLIENT: HARFORD COUNTY PUBLIC SCHOOLS 200 JOPPA HIGHWAY AVENUE JOPPA, MD 21091-2000		OWNER/ARCHITECT: BCA BARRY CAMPBELL ARCHITECTS, INC. 10000 JOPPA ROAD JOPPA, MD 21091-2000	
PROJECT TITLE: JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION		SCALE: AS SHOWN 1/8" = 1'-0"		DATE: 05/10/20	
PROJECT ADDRESS: 555 JOPPA FARM ROAD JOPPATOWNE, MARYLAND 21085		PROJECT NO.: 12046.161P		PROJECT NO.: 12046.161P	
PROJECT NO.: 12046.161P		PROJECT NO.: 12046.161P		PROJECT NO.: 12046.161P	

2 WALL SECTION AT HIM DOOR
3/4" x 7'-0"



ADDENDUM NO. 2
1. ADJUSTED WALL SECTION 1 AND 2 ON SHEET TO ALIGN WITH WALL SECTION 3



ISSUE OR REVISION:	
NO.	DATE
-	03/03/20
FINAL REVIEW	04/03/20
RELEASE FOR BIDDING	04/17/20
1	05/11/20

OPTATOWNE
MIDDLE SCHOOL
PSC NO. 12.046.16LP

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085

UNIVERSITY MICROFILMS
HARVARD COUNTY
PUBLIC SCHOOLS
20 SOUTH MCKENNY AVENUE
BELL AIR, MARYLAND 20610

SHEET TITLE
R/CB
WALL SECTIONS

SCALE: AS NOTED

PROFESSIONAL ORIGINATING
Filing and drawing dates indicated in the title block are not to be construed as a warranty or approval of the design or construction of the project. The originator is not responsible for the design or construction of the project. The originator is not responsible for the design or construction of the project. The originator is not responsible for the design or construction of the project.

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BCA
Banta Campbell
ARCHITECTS, P.C.
15271 University Circle, Suite 700
Columbus, Maryland 21044
410.290.8006
www.bccampbell.com

PHOQ NUMBERS	
SCA#	W-554

A-12.8

OPPA TOWNE
 12046.16LF
 PSC NO. 12046.16LF

HARFORD COUNTY
PUBLIC SCHOOLS

SCALE: AS NOTED

BCA
Banta Campbell
ARCHITECTS, INC.
16201 Plymouth Court, Suite 210
Columbia, Maryland 21044
410.730.3900
www.bccampbell.com



ISSUE OR REVISION:		DATE
NO.	DESCRIPTION	
1	CD REVISION	08/09/2002
2	FINAL DESIGN	04/04/2003
3	RELATIVE FOR BIDDING	04/10/2003
4	REVISION NO. 2	08/14/2003

ISSUE or REVISION:		DATE
NO.	DESCRIPTION	
1	CO SUBMISSION	02/09/2020
	FINAL REVIEW	04/06/2020
	RELEASE FOR BIDDING	04/16/2020
1	ADDENDUM NO. 2	05/11/2020

PSC NO. 12.046.16UP

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085



HARTFORD COUNTY
PUBLIC SCHOOLS

HARFORD COUNTY
PUBLIC SCHOOLS
102 SOUTH HICKORY AVENUE
EEL SPR, MARYLAND 2103

SHEET TITLE:

SITE IMPROVEMENT TITLE SHEET

PROFESSIONAL CERTIFICATION:
I certify that Baron Foodservice was prepared or approved by me, and that I am a duly licensed professional engineer under the laws of New York, at Hempstead.
License No. 20791 Expiration Date: JUN 15, 2022

BCA
Barbara C. Anderson

14221 Wisconsin Drive, Suite 27
Columbia, Maryland 21044
410.276.5800
www.architectsinc.com

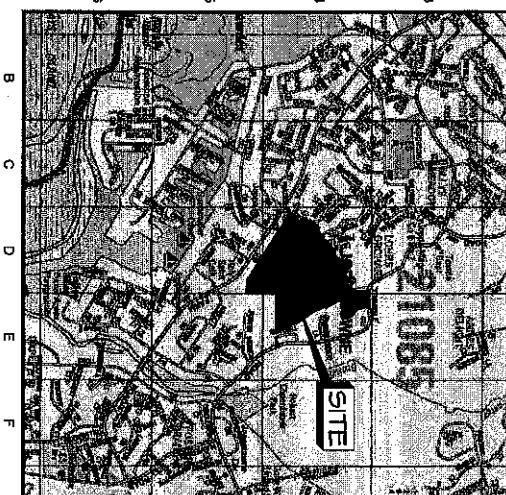
DATE: 03/11/2002

PRICE	NUMBERS
01	



GEORGE WILLIAM STEPHENS, JR. and ASSOCIATES, INC.
ENGINEERS & PLANNERS & ARCHITECTS & TRANSPORTATION
SPECIALISTS CONSULTING ENGINEERS
ONE PLAZA DRIVE, SUITE 100
BIRMINGHAM, AL 35201
Tel: 919/941-2100 Fax: 919/941-2100

PRD	NUMBERS	C-01
GWS	KONTB-6	
BICAE	14-554	

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VICINITY MAP
SCALE: 1" = 1,000'
ADC MAP # 4583

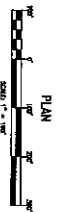
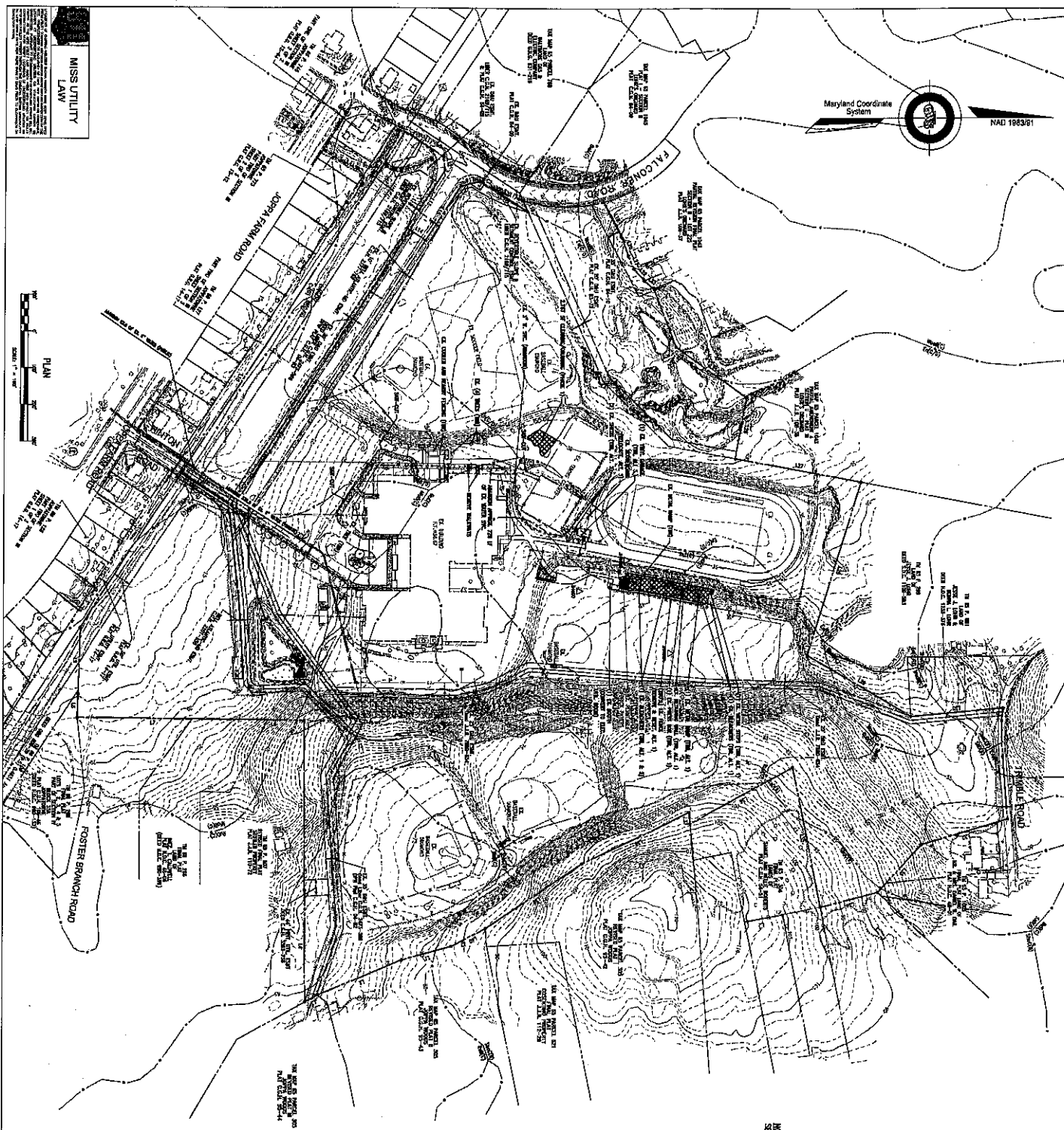
ROAD STANDARD NOTES

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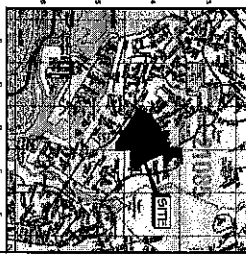
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COUNTY OF LOS ANGELES
IN SENATE
JANUARY 21, 1974
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26

MISS UTILITY
LAW

MISS UTILITY LAW



NOTE:
SEE 0-1.3 FOR PHASING AND ALTERNATIVES.



ISSUE or REVISION		
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230	230.00 JAWABAN	09/03/2039
231	231.00 JAWABAN	10/03/2039
232	232.00 JAWABAN	11/03/2039
233	233.00 JAWABAN	12/03/2039
234	234.00 JAWABAN	01/04/2040
235	235.00 JAWABAN	02/04/2040
236	236.00 JAWABAN	03/04/2040
237	237.00 JAWABAN	04/04/2040
238	238.00 JAWABAN	05/04/2040
239	239.00 JAWABAN	06/04/2040
240	240.00 JAWABAN	07/04/2040
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242	242.00 JAWABAN	09/04/2040
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244	244.00 JAWABAN	11/04/2040
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246	246.00 JAWABAN	01/05/2041
247	247.00 JAWABAN	02/05/2041
248	248.00 JAWABAN	03/05/2041
249	249.00 JAWABAN	04/05/2041
250	250.00 JAWABAN	05/05/2041
251	251.00 JAWABAN	06/05/2041
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255	255.00 JAWABAN	10/05/2041
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258	258.00 JAWABAN	01/06/2042
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260	260.00 JAWABAN	03/06/2042
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296	296.00 JAWABAN	03/09/2045
297	297.00 JAWABAN	04/09/2045
298	298.00 JAWABAN	05/09/2045
299	299.00 JAWABAN	06/09/204

MISS UTILITY
LAW

FRONT PARKING AREA
SCALE 1" = 20'

SEE DETAIL SHEET
FOR PARKING DETAIL

MATCHLINE 'A'

MATCHLINE 'A'

JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085

JOPPATOWNE
PSC NO. 12046,181P

ISSUE or REVISION	
NO.	DATE
1	08/08/20
2	08/08/20
3	08/08/20
4	08/08/20
5	08/08/20
6	08/08/20
7	08/08/20
8	08/08/20
9	08/08/20
10	08/08/20

HARFORD COUNTY
PUBLIC SCHOOLS

OWNER/DEVELOPER
HARFORD COUNTY
PUBLIC SCHOOLS
103 SOUTH HICKORY AVENUE
P.O. BOX 1000
JOPPATOWNE, MD 21085

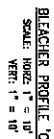
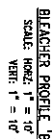
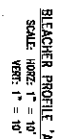
PROFESSIONAL CERTIFICATION
I, the undersigned, being a duly licensed Professional Engineer in the State of Maryland, do hereby certify that I am the author of the design and content of this plan, and that I am a duly licensed Professional Engineer in the State of Maryland.

BCA
BRIAN C. ANDERSON
P.E.
10300 WILSON ROAD
JOPPATOWNE, MD 21085
(410) 438-1234
bca@bca-engineers.com

DATE: 08/11/2020
PROJECT NUMBER: C-04
SHEET: 1 OF 1

CRS

CRS ENGINEERING, INC.
10300 WILSON ROAD
JOPPATOWNE, MD 21085
(410) 438-1234
crs@crs-engineers.com



OPPA & TOWNE
LANDSCAPE CONTRACTORS
PSC NO. 12.046.16LP

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085

OWNER/DEVELOPER:
HARTFORD COUNTY
PUBLIC SCHOOLS
102 SOUTH HICKORY AVENUE
BEL AIR, MARYLAND 21010

SITE IMPROVEMENTS
SITE ENLARGEMENT 3 OF 3

PROFESSIONAL CERTIFICATION:
I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer by the State of Maryland.
Expiration Date: July 22, 2004

YOUNG, George Earl, Sales Z
Cincinnati, Married 21964

DATE: 05/11/2020

PRD. NUMBERS	

GMS:	K7143-6
BCA:	14-254



GEORGE WILLIAM STEINBERG, JR. and ASSOCIATES, INC.
 ENGINEERS • PLANNERS • ARCHITECTS • TRANSPORTATION
 2000 BAY COUNTY DRIVE
 WILSONVILLE, OREGON 97157
 (503) 684-1000
 Also serving throughout the West

PRIOR. NUMBERS:	
GWS:	KYH3-6
BOA:	14-524

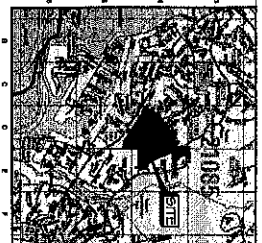
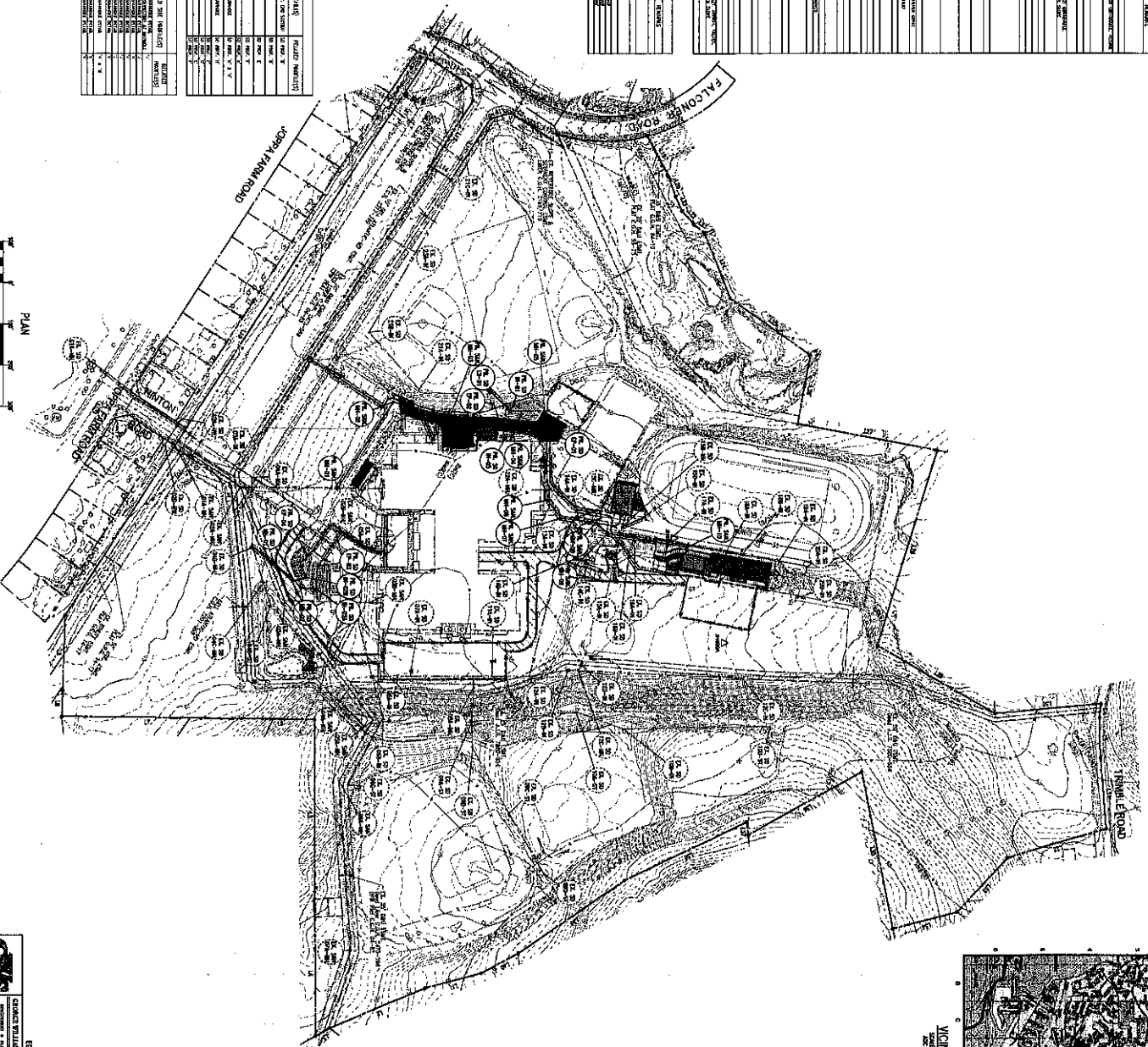
C-06

NO.	DESCRIPTION	DATE
1	ISSUE FOR REVISION	
2	CD JARVIS	03/03/00
3	FINAL REVIEW	04/03/00
4	RELAY FOR BIDDING	04/03/00
5	NOBIS	05/03/00

NO.	DESCRIPTION	DATE
1	ISSUE FOR REVISION	
2	CD JARVIS	03/03/00
3	FINAL REVIEW	04/03/00
4	RELAY FOR BIDDING	04/03/00
5	NOBIS	05/03/00

NO.	DESCRIPTION	DATE
1	ISSUE FOR REVISION	
2	CD JARVIS	03/03/00
3	FINAL REVIEW	04/03/00
4	RELAY FOR BIDDING	04/03/00
5	NOBIS	05/03/00

MISS UTILITY
LAW



VICINITY MAP
SCALE: 1" = 1/4 MI.
200' 0" 400' 800'

JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085



OWNER/DEVELOPER
HARFORD COUNTY
PUBLIC SCHOOLS
2000
2000

SHEET TITLE:
SITING/IMPROVEMENTS
SITE UTILIZATION

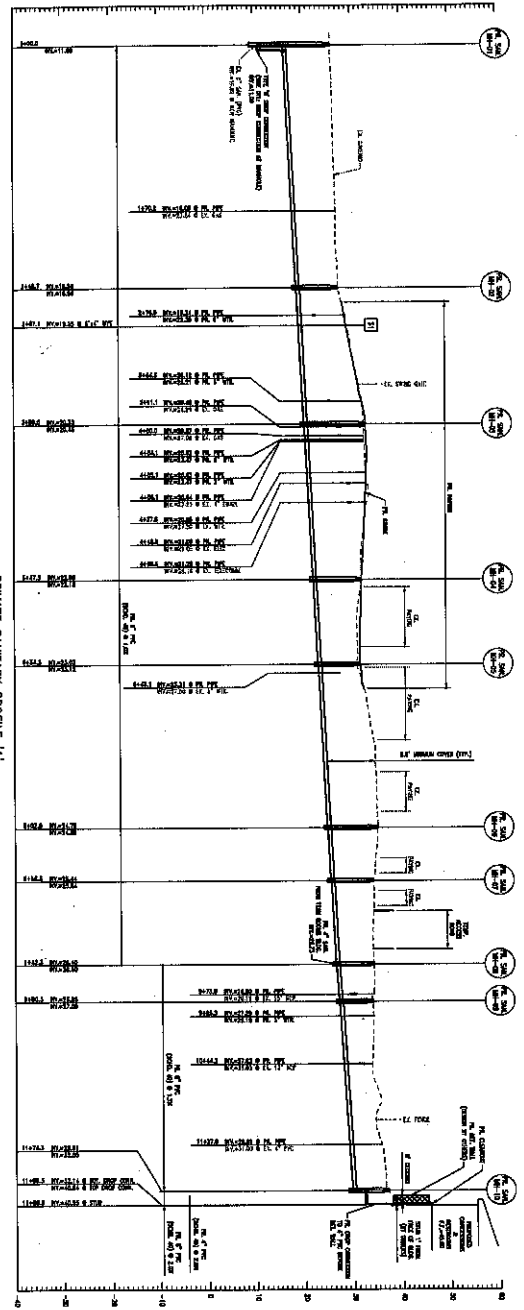
BCA
Bentley Corporation
1997 Bentley Systems, Inc.
Bentley Systems, Inc.
Bentley Systems, Inc.

DATE: 05/17/2000
PROJECT NUMBER:
C-07

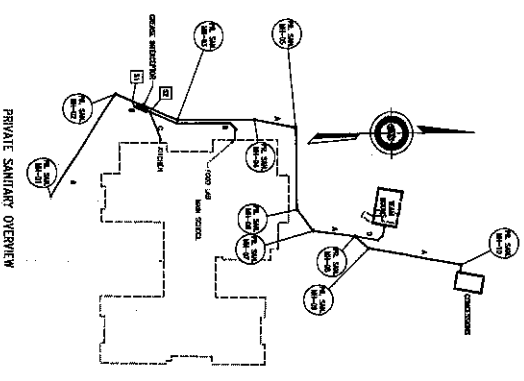


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GWS: 000000-00-10-2000 0000
GWS: 000000-00-10-2000 0000

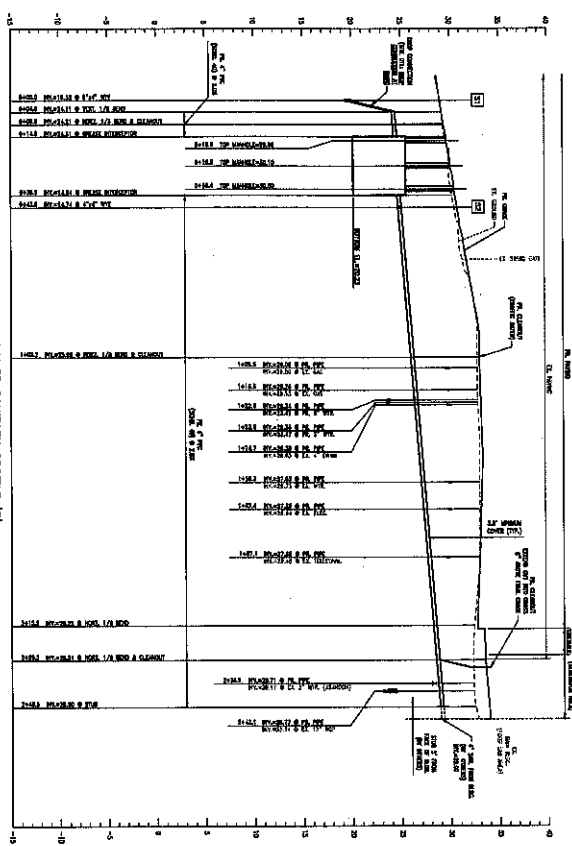
DATE: 05/17/2000
PROJECT NUMBER:
C-07



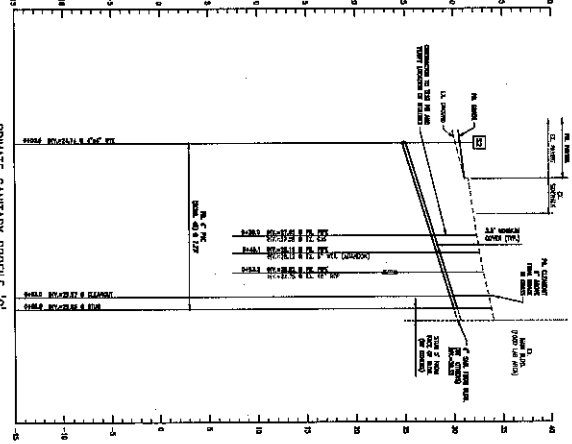
PRIVATE SANITARY PROFILE A
FROM CONCESSIONS BLDG. TO MH-01
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



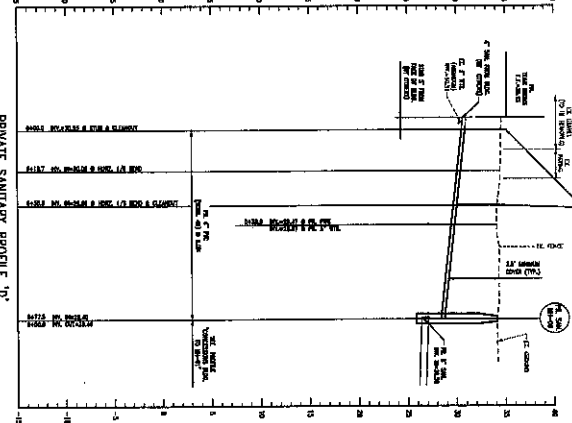
PRIVATE SANITARY OVERVIEW
SCALE: 1" = 100'



PRIVATE SANITARY PROFILE B
FROM MAIN SCHOOL TO FOOD LAB
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



PRIVATE SANITARY PROFILE C
FROM MAIN SCHOOL TO KITCHEN
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



PRIVATE SANITARY PROFILE D
FROM TEAM ROOMS BLDG. TO MH-08
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

MISS UTILITY LAW

- NOTES:
1. CONNECTION TO EXISTING UTILITY TO EXISTING LOCATION, SOME UTILITIES SHOWN ARE FROM RECORDS AND MAY NOT EXIST. ACTUAL CONDITIONS.
 2. IF AN EXISTING UTILITY IS NOTED TO BE ABANDONED (SHOWN IN DASHES), AND IS IN THE WAY OF CONSTRUCTION, THE CONTRACTOR MAY REMOVE THE EXISTING UTILITY AS NOTED.
 3. MINIMUM 12" CLAYPIPE, EXCEPT UTILITIES.
 4. MINIMUM 3/4" COVERAGE FOR ALL UTILITIES AND SANITARY PIPES.



GE. SINGH-06-14-2003 3182
CHIEF ENGINEER, GRS, INC.
DESIGNED BY: SINGH, S. & ASSOCIATES, INC.
CHECKED BY: SINGH, S. & ASSOCIATES, INC.
DATE: 06/11/2003

DATE: 06/11/2003
PROJECT NUMBER: C-08.1
SHEET: 1 OF 2

BCA
Bentley Campbell
ARCHITECTS, INC.
10000 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085
TEL: 410-438-1200
FAX: 410-438-1201
WWW.BCA-ARCHITECTS.COM

PROFESSIONAL CERTIFICATE
SITE UTILITY PROFILES 1 OF 3
I, SINGH, S. & ASSOCIATES, INC.
DO HEREBY CERTIFY THAT THE
DESIGN AND CONSTRUCTION OF THE
UTILITIES SHOWN ON THIS SHEET
WAS PREPARED BY ME OR UNDER
MY CLOSE PERSONAL SUPERVISION
AND THAT I AM A LICENSED PROFESSIONAL
ENGINEER IN THE STATE OF MARYLAND.

SHEET TITLE:
SITE UTILITY PROFILES 1 OF 3
OWNER/DEVELOPER:
HARFORD COUNTY
PUBLIC SCHOOLS
22200 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

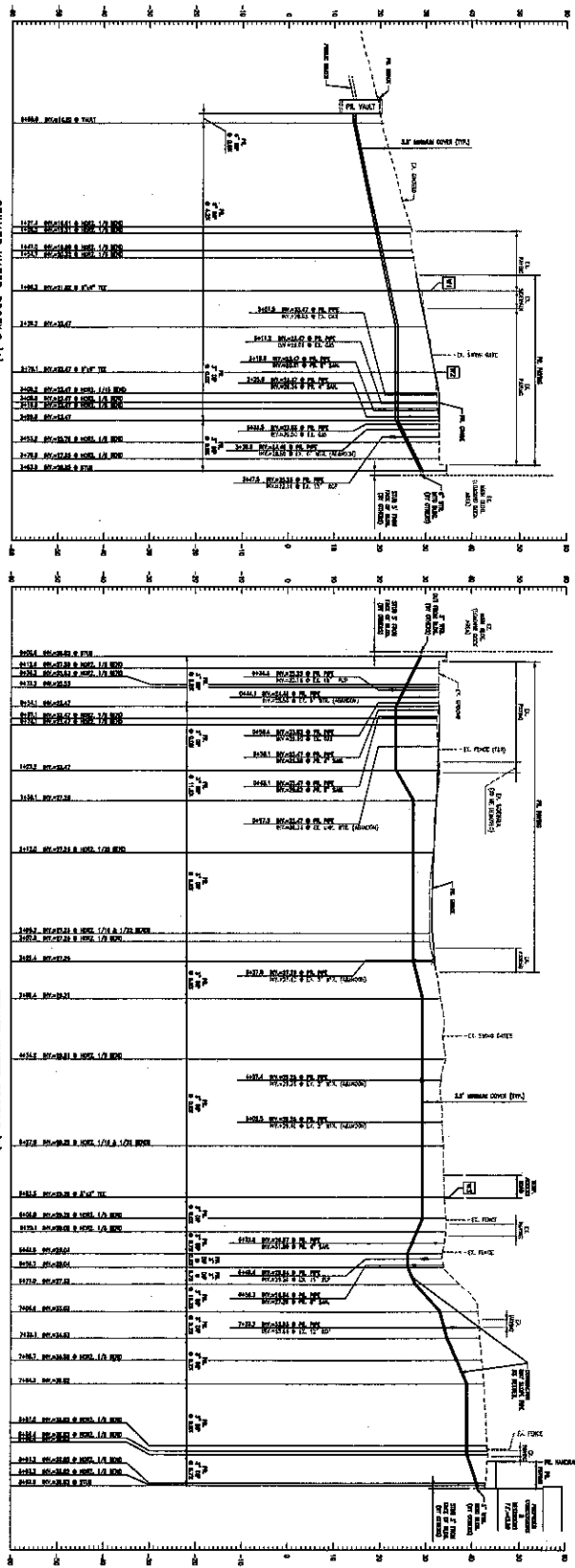


**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

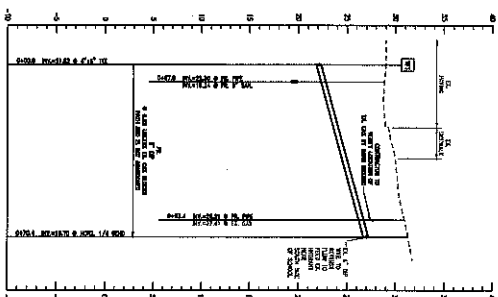
OPERATOR
PSC NO. 12-046,181P

ISSUE or REVISION:	
NO.	DATE
1	06/11/2003
2	06/11/2003
3	06/11/2003
4	06/11/2003
5	06/11/2003
6	06/11/2003
7	06/11/2003
8	06/11/2003
9	06/11/2003
10	06/11/2003

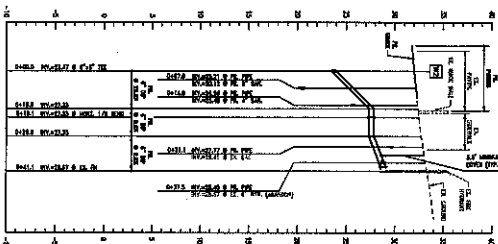


PRIVATE WATER PROFILE 'A'
FROM VAULT TO MAIN BLDG.
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

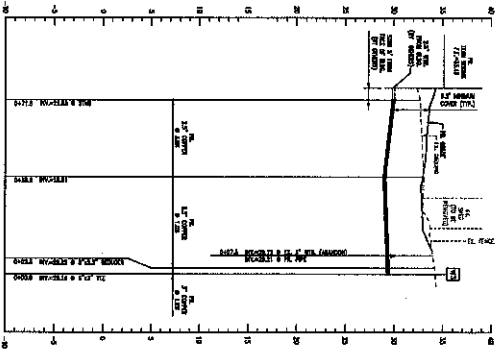
PRIVATE WATER PROFILE 'B'
FROM MAIN BLDG. TO CONCESSION BLDG.
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



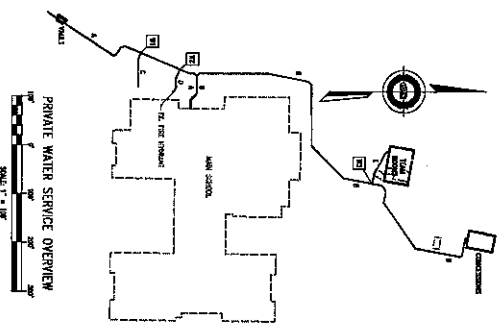
PRIVATE WATER PROFILE 'C'
FROM EX. FIRE-HYDRANT
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



PRIVATE WATER PROFILE 'D'
FROM TEAM ROOMS BLDG.
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



PRIVATE WATER PROFILE 'E'
FROM TEAM ROOMS BLDG.
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



MISS UTILITY LAW

- NOTES:
1. CONNECTION TO EXISTING UTILITY TO VERIFY LOCATION, DEPTH, AND SIZE OF EXISTING UTILITY.
 2. IF AN EXISTING UTILITY IS NOTED TO BE ABANDONED (MARKED BY 'X'), AND IS IN THE WAY OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE THE EXISTING UTILITY AS NOTED.
 3. MINIMUM 12" CL. SPACING BETWEEN UTILITY.
 4. MINIMUM 12" COVER FOR ALL WATER AND SANITARY PIPES.



C&S ENGINEERING & CONSTRUCTION, INC.
1000 W. 10TH STREET, SUITE 100
JOPPATOWNE, MD 21085
TEL: 410-438-1111
FAX: 410-438-1112
WWW.C&SENG.COM

DATE: 05/11/2010
DRAWN: JVS
CHECKED: JVS
PROJECT: C-08.2

BCA
BARRY CARROLL
ARCHITECTS, INC.
1000 W. 10TH STREET, SUITE 100
JOPPATOWNE, MD 21085
TEL: 410-438-1111
FAX: 410-438-1112
WWW.BCARCH.COM

PROFESSIONAL CERTIFICATION
I, the undersigned, being a duly licensed Professional Engineer in the State of Maryland, do hereby certify that I am the author of the foregoing and that the same is a true and correct copy of the original as the same was submitted to me for certification.

SITE IMPROVEMENTS
SITE UTILITY PROFILES 2 OF 3

SHEET TITLE:

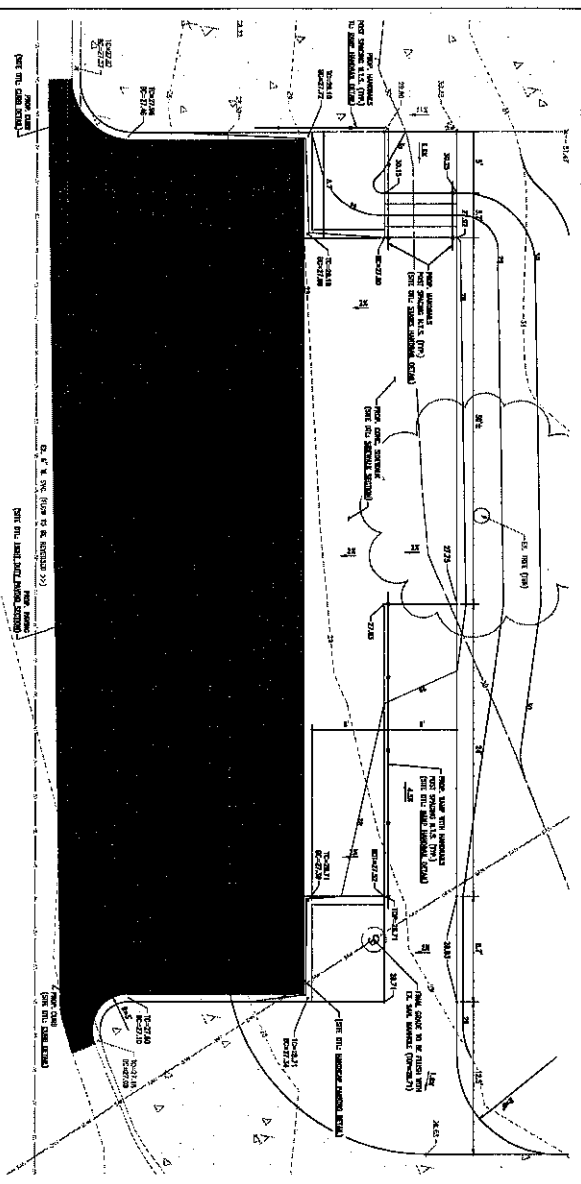
OWNER/DEVELOPER:
HARFORD COUNTY
PUBLIC SCHOOLS
222 ANN WYOMLAND 2050
JOPPATOWNE, MD 21085

JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION
555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

PSC NO. 12, 046, 181 P

JOPPATOWNE

ISSUE OF REVISION:		
NO.	DESCRIPTION	DATE
1	ISSUE FOR CONSTRUCTION	05/11/2010
2	REVISION NO. 2	05/11/2010



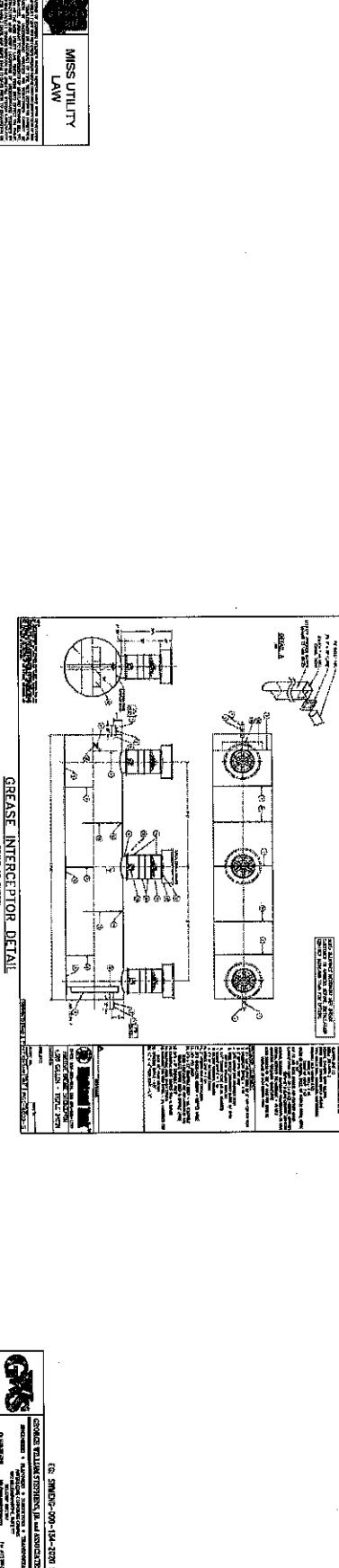
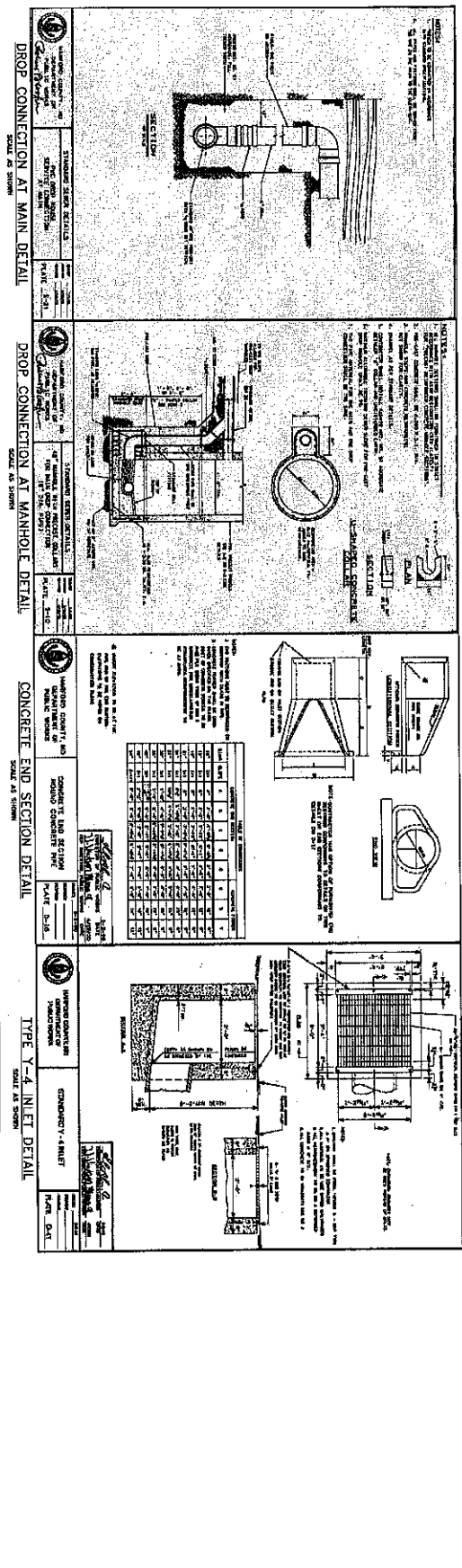
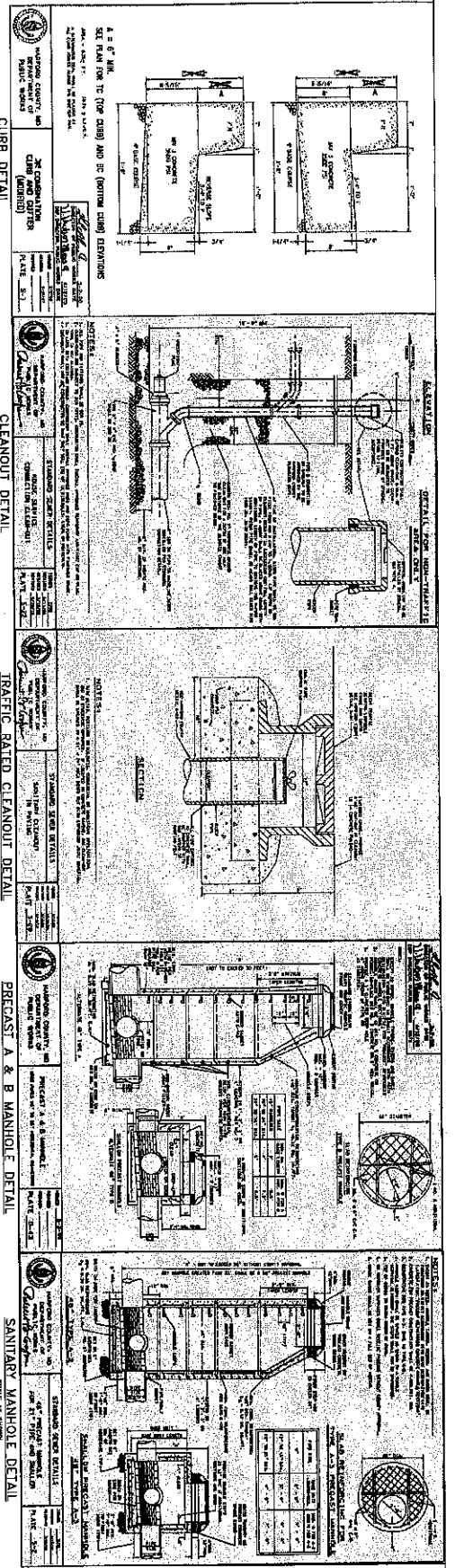


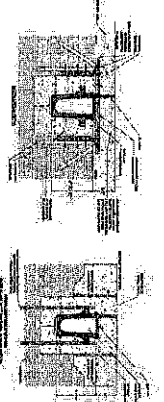
TABLE 1. Catchment Dimensions

Item	Unit	Value
Catchment Area	Sq. Ft.	1,200
Catchment Length	Feet	100
Catchment Width	Feet	12
Catchment Slope	Percent	1.0
Catchment Elevation	Feet	100

FIGURE 1. Concrete Equipment Dimensions



FIGURE 2. Dimensions of Channel and Box Top



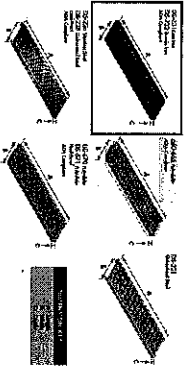
DURA SLOPE™

CATCH BASIN & CHANNEL ACCESSORIES

Item	Unit	Value
Catch Basin	Sq. Ft.	1,200
Channel	Feet	100
Accessories	Feet	12
Slope	Percent	1.0
Elevation	Feet	100

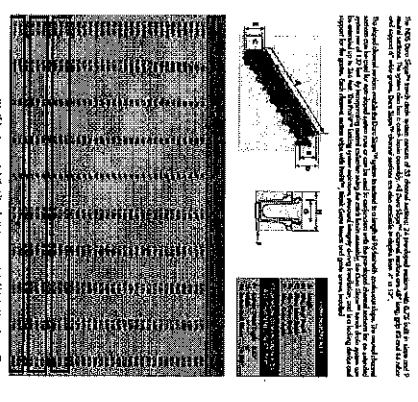
DURA SLOPE™

GRATING



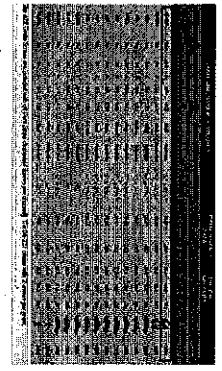
DURA SLOPE™

GENERAL ENGINEERING SPECIFICATIONS



TRENCH DRAIN SPECIFICATIONS

SCALE: AS SHOWN



ISSUE OF REVISION:

No.	Description	Date
1	Initial Revision	04/03/20
2	Revised for Review	04/03/20
3	Revised for Review	04/03/20



PSC NO. 12.04-6.18.P

JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION
 555 JOPPA FARM ROAD
 JOPPATOWNE, MARYLAND 21085



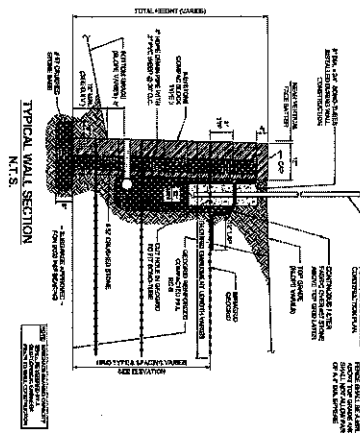
OWNER/RELEASER:
 HARFORD COUNTY
 PUBLIC SCHOOLS
 100 N. WILSON AVE.
 BALTIMORE, MD 21202

SHEET TITLE:
 SITE IMPROVEMENTS
 SITE DEMARSH/3

PROFESSIONAL SEAL/STAMP:
 I hereby certify that I am a duly licensed Professional Engineer in the State of Maryland, and that I am the author of the design shown on this drawing.

BCA
 Brent Campbell
 ARCHITECT, INC.
 100 N. WILSON AVE.
 BALTIMORE, MD 21202

DATE: 05/11/2020
PROJECT: JOPPATOWNE HIGH SCHOOL
PROJECT NO.: C-09.3
PROJECT LOCATION: 555 JOPPA FARM ROAD, JOPPATOWNE, MD 21085

[illegible]

HILLS-CARNES					
ENGINEERING ASSOCIATES					
10701 Laurel Road, Suite 200 Baltimore, Maryland 21286-4229 TEL: 410-588-9800					
RETAINING WALL PLAN AND CONSTRUCTION DETAILS					
JOPPATOWNE HS CONCESSION / RESTROOM BUILDING					
HARFORD COUNTY, MARYLAND					
DESCRIPTION	LOCATION	DATE	DWG NUMBER	DESIGNED BY	HM
			202124		
			SOURCE	DRAWN BY	NM
			AS SHOWN		1 of 2
DATE			APPROVED BY	WMC	SECRET
04/20/2020					

MISS UTILITY
LAW[illegible]

1. THE CONTRACTOR SHALL NOTIFY THE HARBOR COUNTY DEPARTMENT OF PUBLIC WORKS, BUREAU OF CONSTRUCTION MANAGEMENT, AT LEAST TWO (2) DAYS PRIOR TO STARTING CONSTRUCTION. PHONE (415) 659-4217, BY FAX (415) 679-8458.

2. CONSTRUCTION OF THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION, AND THE STANDARD SPECIFICATIONS FOR WATERWAYS AND MARINE WORKS AND WITH THE CONTRACT PLANS AND SPECIFICATIONS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HARBOR COUNTY STANDARD SPECIFICATIONS FOR CONSTRUCTION OF WATERWAYS AND MARINE WORKS. THE PROJECT SHALL BE LISTED IN THE APPROVED MATERIALS LIST AS DETERMINED IN THE RULES AND REGULATIONS OF THE DIVISION OF WATER AND SEWER.

AS-BUILT REVIEWED BY

[illegible]

I HEREBY CERTIFY THAT ANY AND ALL AS-BUILT INFORMATION IS SHOWN IN RED AND THE ORIGINAL DESIGN, WHICH IS SHOWN IN BLACK, HAS NOT CHANGED FROM THE ORIGINALLY APPROVED SET OF CONTRACT DRAWINGS.

[illegible]

SHEET NO.	SHEET TITLE
1	TRUCK SHEET
2	PROPOSED WATER PUMP

DEPARTMENT OF PUBLIC WORKS
JOSEPH J. SIEMEK, P.E.

DIRECTOR



**Know what's below.
Call before you dig.**

800-4-A-DIG
or 1-800-452-4246

NOTY DIRECT, POSITION OF WORK AND SOURCE

DATE _____

WATER CONTRACT _____

3

ENGINE
DECEASE WELSH ST
FLOORING
4000 WILLOW ST
MILWAUKEE, WI
(414) 267-2340

[illegible]

SCALE	DAT WRP IN	SHEET	JOB NO.
NO. DRAWING	FOR L&S Bldg. FLOOR PLAN	No. _____ OF _____	

PROFESSIONAL CERTIFICATE
 I certify that I have thoroughly prepared
 my oral that I am a duly licensed professional
 under the laws of the State of Maryland.

MISS UTILITY
LAW[illegible]

GEORGE WILLIAM STREIBS, JR. and ASSOCIATES, INC.
ENGINEERS & ARCHITECTS • 714-942-1111
35000 WILSON AVENUE, SUITE 100
IRVINE, CALIF. 92614

C-11

BCA

DALLA CALIPRE
ARCHITECTS, INC.
45021 Whittier Circle, Suite 270
Columbia, Maryland 21044

412 2ND, SUITE
ST. LOUIS, MO 63102
www.battle-angel.com

C-

JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085

PSC NO. 12.046.16LP

OFF-TONNE

[illegible]

	REFERENCE FOR BILLING	DATE OF
1	ADDENDUM NO. 2	05/17/2

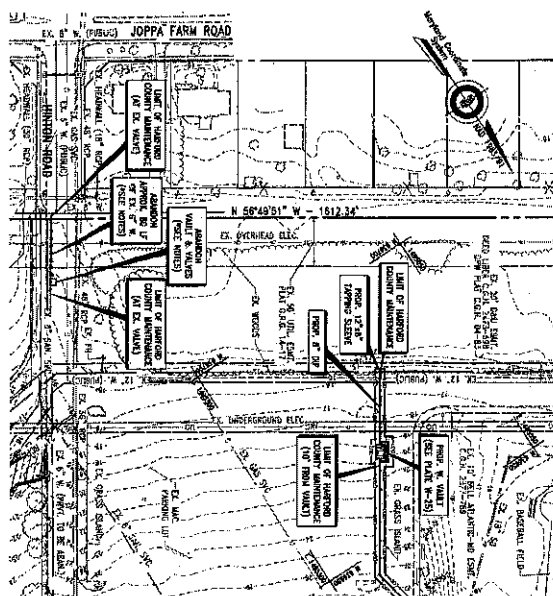
DATE	DESCRIPTION	AMOUNT
02/03/2024	CDP SUBMISSION	
	ETWA PERIOD	

ISSUE or REVISION:

DATE	WATER CONTRACT NO.
------	--------------------



SCALE 1 - 50



*** REMOVAL OR ABANDONMENT**
OF EXISTING UTILITIES 02050

WHERE INDICATED ON THE PLANS, OR DIRECTED BY THE CONTRACTOR, THE CONTRACTOR SHALL ABANDON EXISTING WATER MAINS, SEWER MAINS, GAS MAINS, AND OTHER UTILITIES IN THE SECTION OF WATER MAIN REMAINING IN SERVICE. SHALL BE LAYERS OR LINED AND SHAVED AND/OR REINFORCED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

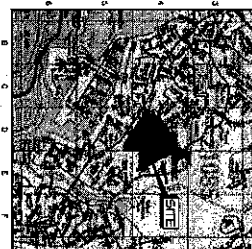
A. WHEN ABANDONING WATER MAINS 24 INCHES IN DIAMETER OR SMALLER, THE CONTRACTOR SHALL REMOVE THE ENTIRE LENGTH OF THE ABANDONED SECTIONS, ALL OTHER ENDS OF SUCH MAINS SHALL BE CUT OFF WITH A CUTTING TOOL, SUCH AS A POWER SAW, OR OTHER MEANS, TO LEAVE A FLARE OR CHAMFER ON EACH END OF THE ABANDONED SECTIONS. ALL OTHER ENDS OF SUCH MAINS SHALL BE CUT OFF WITH A CUTTING TOOL, SUCH AS A POWER SAW, OR OTHER MEANS, TO LEAVE A FLARE OR CHAMFER ON EACH END OF THE ABANDONED SECTIONS.

B. ABANDON WATER SERVICES BY EXPANDING THE CONNECTION OF THE SERVICE LINE FROM THE COMPRESSOR STOP, INSURING A FLARE OR CAP ON THE EXPOSED END OF THE MAINS, 24 INCHES OR SMALLER, AND BACKFILL EXCAVATION TO FINISHED GRADE. WHEN ABANDONING WATER MAINS 30 INCHES OR LARGER, THE CONTRACTOR SHALL REMOVE ALL MAINS EXCEPT THE SERVICE CATCHES, AND BACKFILL IN 12-INCHES OF FINISHED GRADE.

C. THE CONTRACTOR SHALL REMOVE ALL STRUCTURES TO A MINIMUM DEPTH OF THREE FEET WITHIN STRUTTED GROUND, AND SHALL BACKFILL EXCAVATION TO FINISHED GRADE TO PROVIDE DRAINAGE, AND BACKFILL THE STRUCTURES AS REQUIRED IN SECTION 02050.

F. EXISTING UTILITIES SHALL BE REMOVED TO THE DIVISION OF WATER AND SEWER MAINTENANCE CAPED AT 3111 MIDCLIFF PARK ROAD, ABANDONED, BACKFILLED.

AS-BUILT REVIEWED BY



PROFESSIONAL CERTIFICATION									
I HEREBY CERTIFY THAT THE ABOVE NAMED INDIVIDUAL IS A MEMBER OF THE NATIONAL ASSOCIATION OF PROFESSIONAL PERSONNEL AND HAS BEEN GRANTED THE STATUS OF MEMBER IN GOOD STANDING BY THE BOARD OF DIRECTORS OF THE NATIONAL ASSOCIATION OF PROFESSIONAL PERSONNEL.									
LICENSE No. 38839		EXPIRATION DATE 01/1/2025							
EMPLOYER COOPER HANCOCK & CO 1000 W. MAIN ST. ANN ARBOR MI 48106-1500 (419) 261-7193 FAX 979-7343									
COMPANY TYPE OTHER () EDUCATION () RESEARCH () SERVICE () OTHER ()		SPECIALTY CODE 0000		NAME NAME NAME		POSITION TITLE ADDRESS CITY STATE ZIP			
DATE MONTH YEAR		SIGNATURE NAME TITLE		SIGNATURE NAME TITLE		SIGNATURE NAME TITLE			
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OWNER/DEVELOPER
HARFORD COUNTY
PUBLIC SCHOOLS
102 SOUTH HICKORY AVENUE
DELAWARE, MARYLAND 20606

SHEET TITLE

PUBLIC WATER & SEWER
PUBLIC WATER PLAN

PROFESSIONAL CERTIFICATION:
I hereby certify that these documents were prepared or supervised by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Maryland.
My Exp. Date: 06/30/2009
Expire Date: 06/30/2009

JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085

OPPORTUNITIES
FOR
GROWTH

ISSUE or REVISION:	DATE:	DESCRIPTION:	NO.
	04/06/00	FINAL REVIEW	-
	04/06/00	RELEASE FOR BIDDING	
	04/06/00	ADDENDUM NO. 2	1



EG: SYMENG-000-134-2020 01/02

PROD. NUMBERS:	
GMS:	K743-6
HCA:	K1-584

C-12

BCA
Barita Campbell
ARCHITECTS, INC.
10201 Thompson Circle, Suite 270
Columbia, Maryland 21044
410.266.5000
www.bccampbell.com

DATE	DESCRIPTION	AMOUNT
	CASH ON HAND	1000000
	PAYROLL	500000
	REVENUE FROM SALES	750000
	EXPENSES	250000
	NET INCOME	100000
	DIVIDENDS PAID	50000
	BALANCE FWD.	100000
	TOTAL	2600000

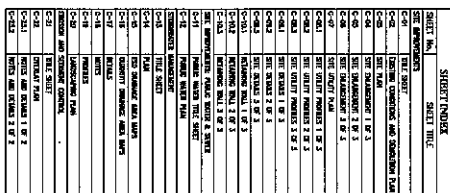
PSC NO. 12-046-18LP

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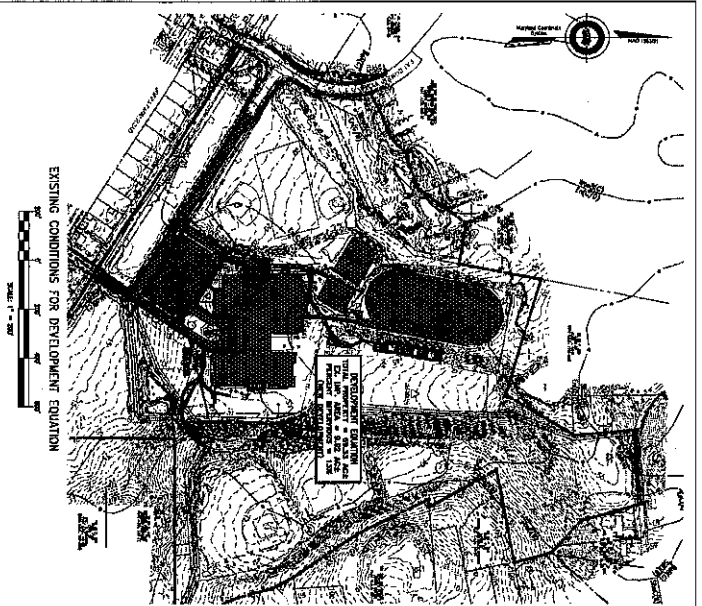
AREA SUMMARY TABLE			
UNIT	4th Qtr	5th Qtr	6th Qtr
REVENUE	100.00	100.00	100.00
EXPENSES	75.00	75.00	75.00
INVENTORY	NA	NA	NA
PROFIT	25.00	25.00	25.00

ESP SUMMARY TABLE			
DATE	REVENUE	EXPENSES	PROFIT
01-01-01	100.00	75.00	25.00
01-01-02	100.00	75.00	25.00
01-01-03	100.00	75.00	25.00
TOTAL	300.00	225.00	75.00

QUANTITY SUMMARY TABLE			
ITEM	STOCK	ORDERED	RECEIVED
ITEM #1	100	50	50
ITEM #2	200	100	100
ITEM #3	300	150	150
TOTAL	600	300	300

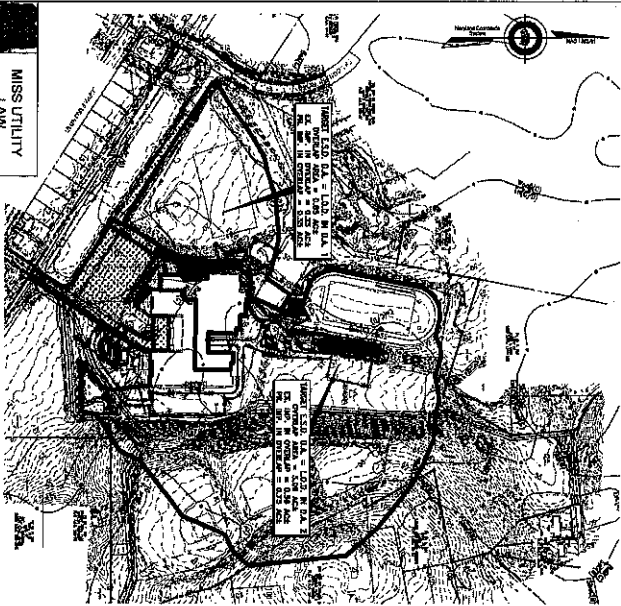
[illegible]

PROCESSED CERTIFICATION This label has been determined as processed and approved by the National Commission on Certification of Organic Products.	
Organic Product Name: Banana Campdell	
Product Number: 07-0004	
Processing Date: May 18, 2005	
Processing Location: Alameda, CA, U.S.A.	
Certification Authority: National Commission on Certification of Organic Products	
Website: www.nccorp.org	



EXISTING CONDITIONS FOR DEVELOPMENT EQUATION

SCALE: 1" = 40'



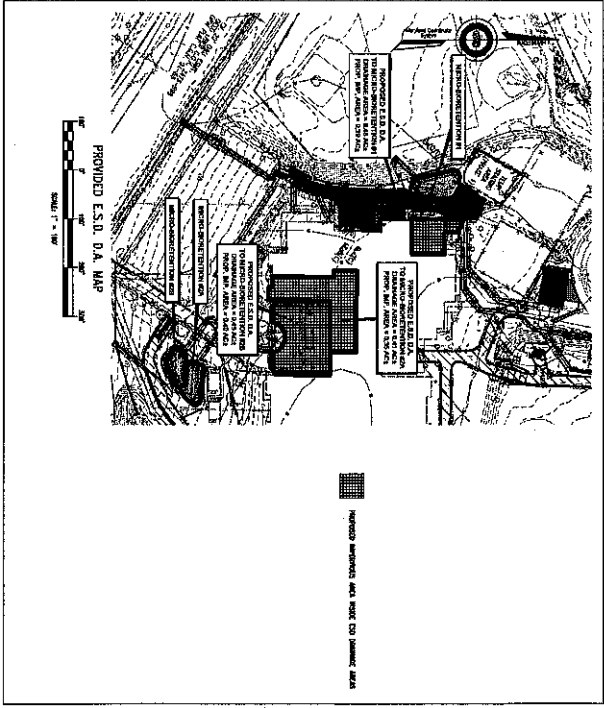
MISS UTILITY LAY

TARGET ESD, D.A. MAP

SCALE: 1" = 40'

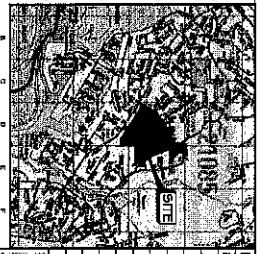
PROPOSED IMPERVIOUS AREA WITHIN LOT AND D.A. 1	
TYPE OF IMPERVIOUS AREA	AREA
ROOF	1,119.42
PAVEMENT	1,119.42
TOTAL	2,238.84

PROPOSED IMPERVIOUS AREA WITHIN LOT AND D.A. 1	
TYPE OF IMPERVIOUS AREA	AREA
ROOF	1,119.42
PAVEMENT	1,119.42
TOTAL	2,238.84



PROPOSED ESD, D.A. MAP

SCALE: 1" = 40'



ISSUE OF REVISION	
NO.	DESCRIPTION
1	ISSUED FOR REVIEW
2	ISSUED FOR REVIEW
3	ISSUED FOR REVIEW
4	ISSUED FOR REVIEW
5	ISSUED FOR REVIEW
6	ISSUED FOR REVIEW
7	ISSUED FOR REVIEW
8	ISSUED FOR REVIEW
9	ISSUED FOR REVIEW
10	ISSUED FOR REVIEW

JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

HARFORD COUNTY
PUBLIC SCHOOLS

STUDENT CENTER
100 SOUTH HICKORY AVENUE
JOPPATOWNE, MARYLAND 21085

STUDENT CENTER
100 SOUTH HICKORY AVENUE
JOPPATOWNE, MARYLAND 21085

PROFESSIONAL CERTIFICATE
FOR THE DESIGN OF A LIMITED RENOVATION
OF AN EXISTING BUILDING
FOR THE USE OF A SCHOOL
JOPPATOWNE, MARYLAND 21085

BCA
BUILDING CONSULTANTS ASSOCIATION

1001 TOWNE DRIVE, SUITE 200
JOPPATOWNE, MARYLAND 21085
(410) 261-1111

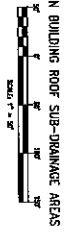
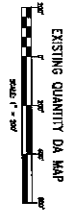
C-15



MD-SP-00-16-000-0000
STATE ARCHITECT
1001 TOWNE DRIVE, SUITE 200
JOPPATOWNE, MARYLAND 21085
(410) 261-1111



**MISS UTILITY
LAW**

PSC NO. 12.046.16LP

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085

HARFORD COUNTY
PUBLIC SCHOOLS

OWNER/DEVELOPER:
HARFORD COUNTY
PUBLIC SCHOOLS
102 SOUTH HICKORY AVENUE
BRL. AVE, MARYLAND 21010

PROFESSIONAL CERTIFICATION:
I 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. 70991 Expiration Date: July 31, 2022

BCA
Banta Campbell
ARCHITECTS, INC.

DATE: 05/11/2020

PROJ. NUMBERS:

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9-EM-6	SMS
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ONAS	10-10-0
HCAS	19-204

11-000000	11-000000
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PIPE CONDUITS
ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION.
REINFORCED CONCRETE PIPE
THE FOLLOWING CORRA SHALL APPLY FOR REMOVAL

[illegible]

**POINTS ARE SET
PLACED SO THAT**

4. BACKLINES SHALL CONTAIN TO SELECTIVE MATERIAL.

5. GROSS REELS (ANTI-STEP COLLARS, VOWERS, ETC.) SHALL BE AS SHOWN IN THE DRAWINGS.

NOCT BREATHER SUIT.

[illegible][illegible]

- [illegible]

1

Table 1. E. coli O157 Outbreaks in Humans, Animals, and Food, 1996-1999			
Human cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Animal cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Food cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Total cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Food cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Total cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Food cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Total cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Food cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Total cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Food cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Total cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Food cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Total cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome
1996	10	0	0
1997	10	0	0
1998	10	0	0
1999	10	0	0
Total	40	0	0

Food cases			
Year	Number of cases	Number of deaths	Number of cases with hemolytic uremic syndrome

EROSION AND SEDIMENT CONTROL

CONTACT
M. F. UGUR AND B. A. M.

[illegible]

INSTRUCTION

[illegible]

INSPECTION CRITERIA

1. **REPRODUCTION** WHICH ARE TO OCCUR AT THE FOLLOWING TIMES:
 - a. **SEEDS** (SEEDS OF SURVIVAL)
 - b. **SEEDS** (SEEDS OF SURVIVAL)
 - c. **SEEDS** (SEEDS OF SURVIVAL)
 - d. **SEEDS** (SEEDS OF SURVIVAL)
 - e. **SEEDS** (SEEDS OF SURVIVAL)
 - f. **SEEDS** (SEEDS OF SURVIVAL)
 - g. **SEEDS** (SEEDS OF SURVIVAL)
 - h. **SEEDS** (SEEDS OF SURVIVAL)
 - i. **SEEDS** (SEEDS OF SURVIVAL)
 - j. **SEEDS** (SEEDS OF SURVIVAL)
 - k. **SEEDS** (SEEDS OF SURVIVAL)
 - l. **SEEDS** (SEEDS OF SURVIVAL)
 - m. **SEEDS** (SEEDS OF SURVIVAL)
 - n. **SEEDS** (SEEDS OF SURVIVAL)
 - o. **SEEDS** (SEEDS OF SURVIVAL)
 - p. **SEEDS** (SEEDS OF SURVIVAL)
 - q. **SEEDS** (SEEDS OF SURVIVAL)
 - r. **SEEDS** (SEEDS OF SURVIVAL)
 - s. **SEEDS** (SEEDS OF SURVIVAL)
 - t. **SEEDS** (SEEDS OF SURVIVAL)
 - u. **SEEDS** (SEEDS OF SURVIVAL)
 - v. **SEEDS** (SEEDS OF SURVIVAL)
 - w. **SEEDS** (SEEDS OF SURVIVAL)
 - x. **SEEDS** (SEEDS OF SURVIVAL)
 - y. **SEEDS** (SEEDS OF SURVIVAL)
 - z. **SEEDS** (SEEDS OF SURVIVAL)

MAINTENANCE SCHED

[illegible]

- [illegible]

ISSUE or REVISION:		
NO.	DESCRIPTION	DATE
1	CU APPROVAL	08/20/20
2	FINAL REVIEW	08/20/20
3	RELEASE FOR BIDDING	08/20/20
4	ADDITION NO. 2	09/10/20

JOPPATOWNE
 PUBLIC SCHOOLS
 PSC NO. 12.046.1BLP

JOPPATOWNE HIGH SCHOOL
 LIMITED RENOVATION
 555 JOPPA FARM ROAD
 JOPPATOWNE, MARYLAND 21085

HARFORD COUNTY
 PUBLIC SCHOOLS
 100 SOUTH HICKORY AVENUE
 BEL AIR, MARYLAND 21035

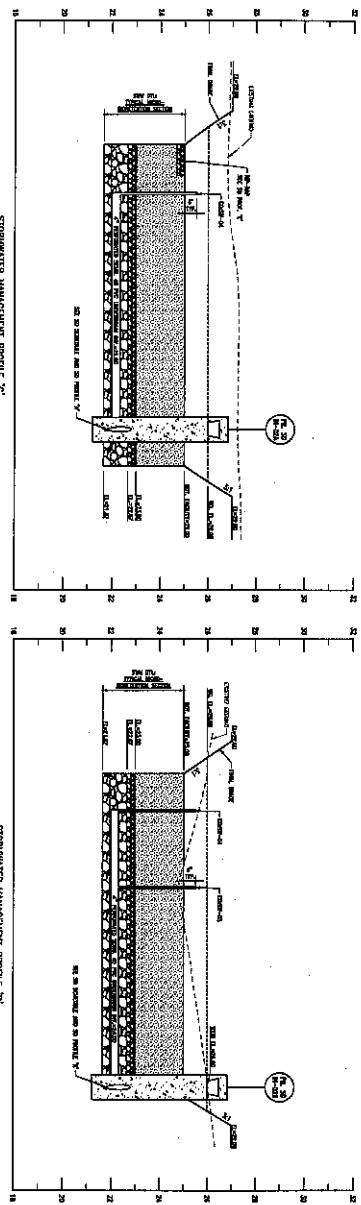
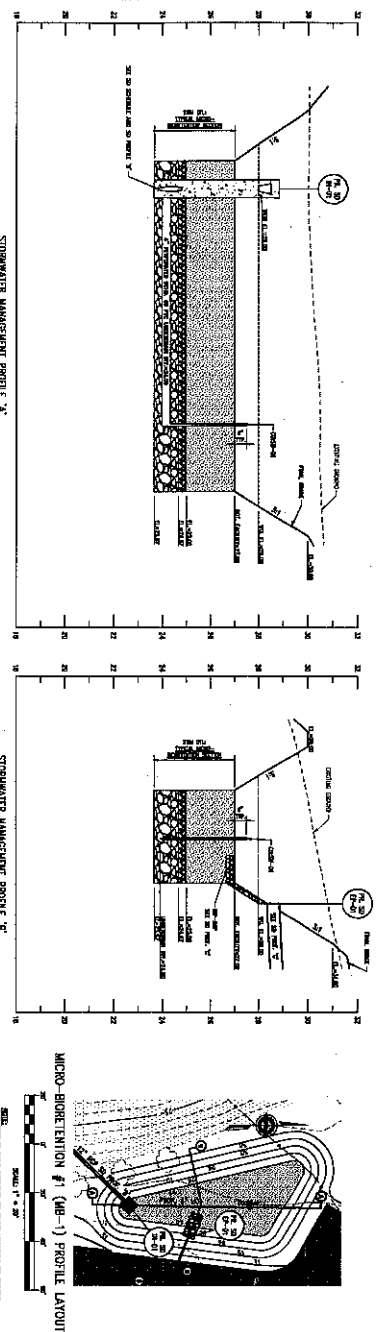
OWNER/DEVELOPER:
 HARFORD COUNTY
 PUBLIC SCHOOLS
 100 SOUTH HICKORY AVENUE
 BEL AIR, MARYLAND 21035

PROFESSIONAL CERTIFICATION:
 I, the undersigned, being a duly Licensed Professional Engineer, do hereby certify that this is a true and correct copy of the original design as submitted to and approved by the appropriate authority.

STORMWATER MANAGEMENT
 PROFILES

BCA
 Barry Campbell
 P.E.
 1000 W. JEFFERSON AVE.
 BALTIMORE, MD 21201
 410.526.1234
 barry@bcacorp.com

DATE: 05/17/2020
PROJECT NUMBER:
DATE: 05/17/2020
PROJECT NUMBER:
DATE: 05/17/2020
PROJECT NUMBER:



MISS UTILITY
LAW

CMS
 60 SHIMING 300-134-2003 81882
 CHENIE WILLIAMS/CHENIE, L. & ASSOCIATES, INC.
 1000 W. JEFFERSON AVE.
 BALTIMORE, MD 21201
 410.526.1234
 cheniewilliams@cmsinc.com

C-19

THEY HAVE TO BE USED FOR PEOPLE PROBLEMS

- LANDSCAPING**

STATISTICS

- [illegible]

AFTER THE REPLY

- [illegible]

CONDUCTED BY
RESEARCHER
DATE

3. **DISCUSSION:**
 - a. STRENGTH AND SCOPE OF CHALLENGE FOR COUNTRIES OF ALL CLIMATIC ZONES, IN TERMS OF:
 - i. ENERGY AND NEED FOR ENERGY
 - ii. WATER AND NEED FOR WATER
 - iii. FOOD AND NEED FOR FOOD
 - iv. LAND AND NEED FOR LAND
 - v. POPULATION AND NEED FOR POPULATION
 - vi. POLITICAL AND NEED FOR POLITICAL
 - vii. ECONOMIC AND NEED FOR ECONOMIC
 - viii. ENVIRONMENTAL AND NEED FOR ENVIRONMENTAL
 - ix. CULTURAL AND NEED FOR CULTURAL
 - x. SOCIAL AND NEED FOR SOCIAL
 - xi. SCIENTIFIC AND NEED FOR SCIENTIFIC
 - xii. TECHNOLOGICAL AND NEED FOR TECHNOLOGICAL
 - xiii. EDUCATIONAL AND NEED FOR EDUCATIONAL
 - xiv. HEALTH AND NEED FOR HEALTH
 - xv. OTHER AND NEED FOR OTHER
 - b. ANALYSIS OF THE CHALLENGE FOR COUNTRIES OF ALL CLIMATIC ZONES, IN TERMS OF:
 - i. ENERGY AND NEED FOR ENERGY
 - ii. WATER AND NEED FOR WATER
 - iii. FOOD AND NEED FOR FOOD
 - iv. LAND AND NEED FOR LAND
 - v. POPULATION AND NEED FOR POPULATION
 - vi. POLITICAL AND NEED FOR POLITICAL
 - vii. ECONOMIC AND NEED FOR ECONOMIC
 - viii. ENVIRONMENTAL AND NEED FOR ENVIRONMENTAL
 - ix. CULTURAL AND NEED FOR CULTURAL
 - x. SOCIAL AND NEED FOR SOCIAL
 - xi. SCIENTIFIC AND NEED FOR SCIENTIFIC
 - xii. TECHNOLOGICAL AND NEED FOR TECHNOLOGICAL
 - xiii. EDUCATIONAL AND NEED FOR EDUCATIONAL
 - xiv. HEALTH AND NEED FOR HEALTH
 - xv. OTHER AND NEED FOR OTHER

FOR FURTHER INFORMATION:

- [illegible]

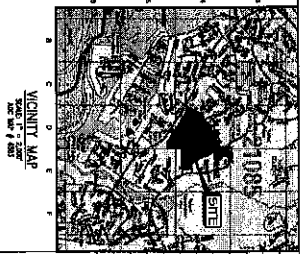
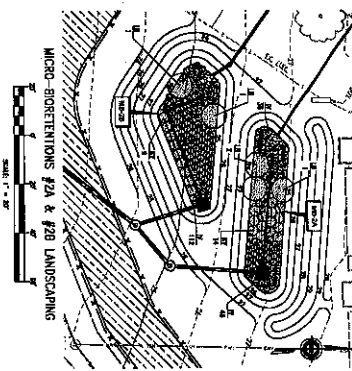
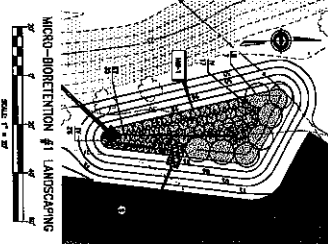
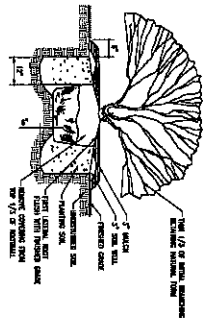
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PLANT SCHEDULE - MICHIO HOKKENTONEN #1									
KEY	TYPE	REMARKS	COMMON NAME	AVERAGE PLANT SPACING (METER WIDTH)	INVERTED PLANT SPACING (M)	QUANTITY	PLANT COVERAGE (% COVERAGE)		
1	GRASS	PERENNIAL GRASS		12.5 M	25	4000			
2	GRASS	PERENNIAL GRASS		12.5 M	25	4000			
3	GRASS	PERENNIAL GRASS		12.5 M	25	4000			
4	GRASS	PERENNIAL GRASS		12.5 M	25	4000			
5	GRASS	PERENNIAL GRASS		12.5 M	25	4000			
NOT ALL PLANTS IDENTICAL AND PLANT COVERAGE = 100% OF TOTAL AREA									
TOTAL PLANT COVERAGE REMAINS = 100% OF TOTAL AREA									

PLANT SCHEDULE: MICRO BIORETENTION #24									
KEY	TYPE	BIOLOGICAL NAME	COMMON NAME	REFERENCE PLANT SPECIES (AUTHOR, YEAR)	APPROXIMATE PLANT SPECIES NAME (A)	QUANTITY	PLANT CONTAINER (A X B X C)		
01	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
02	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
03	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
04	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
05	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
06	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
07	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
08	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
09	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
10	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
11	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
12	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
13	BASES	OSPREY/LEAF MIMICRA		0 L.	12 L	14	120 L		
END OF PLANTING SCHEDULE SHEET (INCLUDE PLANT CONTAINER #)									
TOTAL PLANT CONTAINER QUANTITY =									
TOTAL PLANT CONTAINER VOLUME (INCLUDE PLANT CONTAINER #)									
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PLANT SPECIES - MICROBIOREACTOR #8							
KEY	TYPE	GENETIC NAME	CULTURE NAME	APPROX PLANT STRENGTH (AVERAGE WEIGHT)	REYNOLDS PLANT STRENGTH (NO.)	QUANTITY (IN X QUANTITY)	PLANT COVERAGE
1	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
2	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
3	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
4	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
5	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
6	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
7	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
8	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
9	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
10	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
11	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
12	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
13	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
14	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
15	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
16	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
17	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
18	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
19	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
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21	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
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26	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0
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100	MASS	PROTECTOR MAZURA	VERNA STONE VALLEY	20 g.	12.5	15	150.0

5

[illegible]

ISSUE or REMISION	DATE
CO ASSIGNMENT	06/06/02
FINAL REVIEW	06/06/02
RELEASE FOR DEPORT	06/06/02
ADDITION NO. 2	06/06/02

JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085

PSC NO. 12.046.16LF



OWNER/DEVELOPER
HARFORD COUNTY
PUBLIC SCHOOLS
103 SOUTH HICKORY AVENUE
BEL. AIR, MARYLAND 21030

STORMWATER MANAGEMENT LANDSCAPING PLAN

PROFESSIONAL CERTIFICATION:
I certify that I have obtained my personal or
my firm's credit rating from a duly licensed professional rat-
ing agency and that I am a duly licensed professional rat-
ing agency.
Name of the Rating Agency: _____
Date: _____

BCA
Santa Campbell

ARCHITECTS, INC.
18221 Emerald Circle, Suite 200
Columbia, Maryland 21044
410-228-5008
www.architectsinc.com

GTW:	10103-6
BCA:	M-554

GMS

GEORGE WILLIAMS STEPHENS, JR. and ASSOCIATES, INC.
 10000 W. 10th Avenue, Suite 100, Denver, CO 80231
 (303) 751-2000
 FAX (303) 751-2001
 Telex 154200
 Cable GEOWILL

EROSION AND SEDIMENT CONTROL -
GENERAL NOTES

- [illegible]

DAILY STABILIZATION NOTE

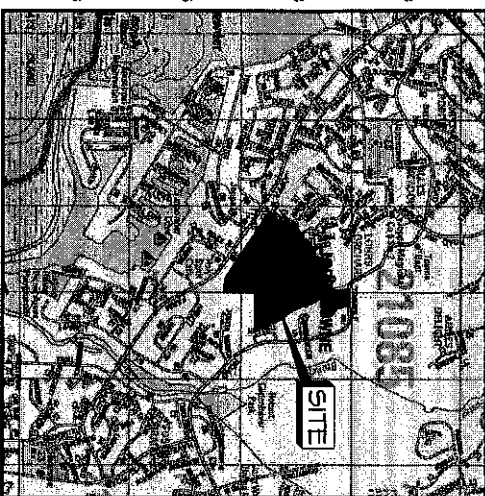
MISS UTILITY
LAW

NOTES:
1. DISCONTINUED UTILITIES WERE
MARKED BY RED UTILITY PINS TO INDICATE
CONFLICT. CONTRACTOR SHALL CALL
UTILITY AT 800-855-5889 FOR
CONSTRUCTION. CONTRACTOR SHALL BE
RESPONSIBLE TO TEST PIT AND VERIFY
ANY POTENTIAL CONFLICTS AS A RESULT
OF PROPOSED CHANGING AND PROPOSED
UTILITIES CROSSING ANY EXISTING
UTILITIES. ANY DISCREPANCY SHALL BE
REPORTED TO C.E. STEPHENS PRIOR TO
ANY OTHER WORK BEING STARTED.

**SITE IMPROVEMENTS FOR
JOPPATOWNE HIGH SCHOOL
555 JOPPA FARM ROAD
EROSION AND SEDIMENT CONTROL**

E.S.C. - SEQUENCE OF CONSTRUCTION

- [illegible]



VICINITY MAP

CALLIGRAPHIC INITIALS, SIZE, DISTANCE OF 25-250 MICRONS, POSITION, OR TEMPORARY SUBSTITUTION MUST BE COMPLETED WITHIN:

SITE ANALYSIS	
TOTAL SET AREA	28.33 AC.
TOTAL DISTURBED AREA (TOTAL FOR ALL PROJECTS/ACTS)	4.43 AC.
AREA TO BE PERMANENTLY ESTABLISHED	1.58 AC.
PERCENT TOTAL DISTURBED AREA	15.64%

[illegible]

ELEMENT & AREA	CU	FIL	(-) REQUIRED OR (+) EXCESS TONNES	
			1	2
SLABER 1 & 2 CORNER BALING	1	1,035.57	-1,035.57	
SLABER 1 & 2 INTERIOR BALING	1	277.67	-277.67	
TRAIL DRAINAGE RE. PAVEMENT		130.37	130.37	
ADJACENT SIDEWALK 1 & 27.75' (25%)		209.37		
ADJACENT SIDEWALK 1 & 27.75' (25%)		114.57		
ADJACENT SIDEWALK 1 & 27.75' (25%)		15.57		
SHOULDER FOR SIDEWALK ADJACENT			-73.57	
SHOULDER FOR SIDEWALK ADJACENT			14.57	
SUM OF QUANTITIES		5.57		

1. **NO CONSTRUCTION** INCREASES DUE TO INCREASES IN THE COST OF LAND AND UTILITIES.
2. **CONSTRUCTION** INCREASES DUE TO INCREASES IN THE COST OF LAND AND UTILITIES.
3. **CONSTRUCTION** INCREASES DUE TO INCREASES IN THE COST OF LAND AND UTILITIES.
4. **CONSTRUCTION** INCREASES DUE TO INCREASES IN THE COST OF LAND AND UTILITIES.
5. **CONSTRUCTION** INCREASES DUE TO INCREASES IN THE COST OF LAND AND UTILITIES.

SHEET No.	SHEET Title
1	WATER SUPPLY SYSTEM FOR SDO
2	GENERAL NOTES
3	PIPE SCHEDULE
4	VALVE SCHEDULE
5	PIPE MATERIALS
6	PIPE SCHEDULE
7	VALVE SCHEDULE
8	PIPE MATERIALS
9	PIPE SCHEDULE
10	VALVE SCHEDULE
11	PIPE MATERIALS
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97	VALVE SCHEDULE
98	PIPE MATERIALS
99	PIPE SCHEDULE
100	VALVE SCHEDULE

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Credits and Subtotal Credits
 Page # _____
 Recommended for Approval _____

 Assistant County Clerk

 Technical Commissioner

 Internal Staff Coordination Board

 Approval _____

 Internal Staff Coordination Board

HARFORD COUNTY ESC PLAN #:

[illegible]

LEONIDIA, CINCINNATI
I cordly bid this plan for Emden and Saldern Capital and
Shareholder management, "earnings a president and vice-presi-
dent and a director of the company, and a director of the com-
pany for my personal stock, and to the company and vice-presi-
dent and director of the company, and a director of the com-
pany for Emden and Saldern Capital, dated 1964.

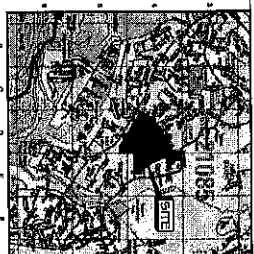
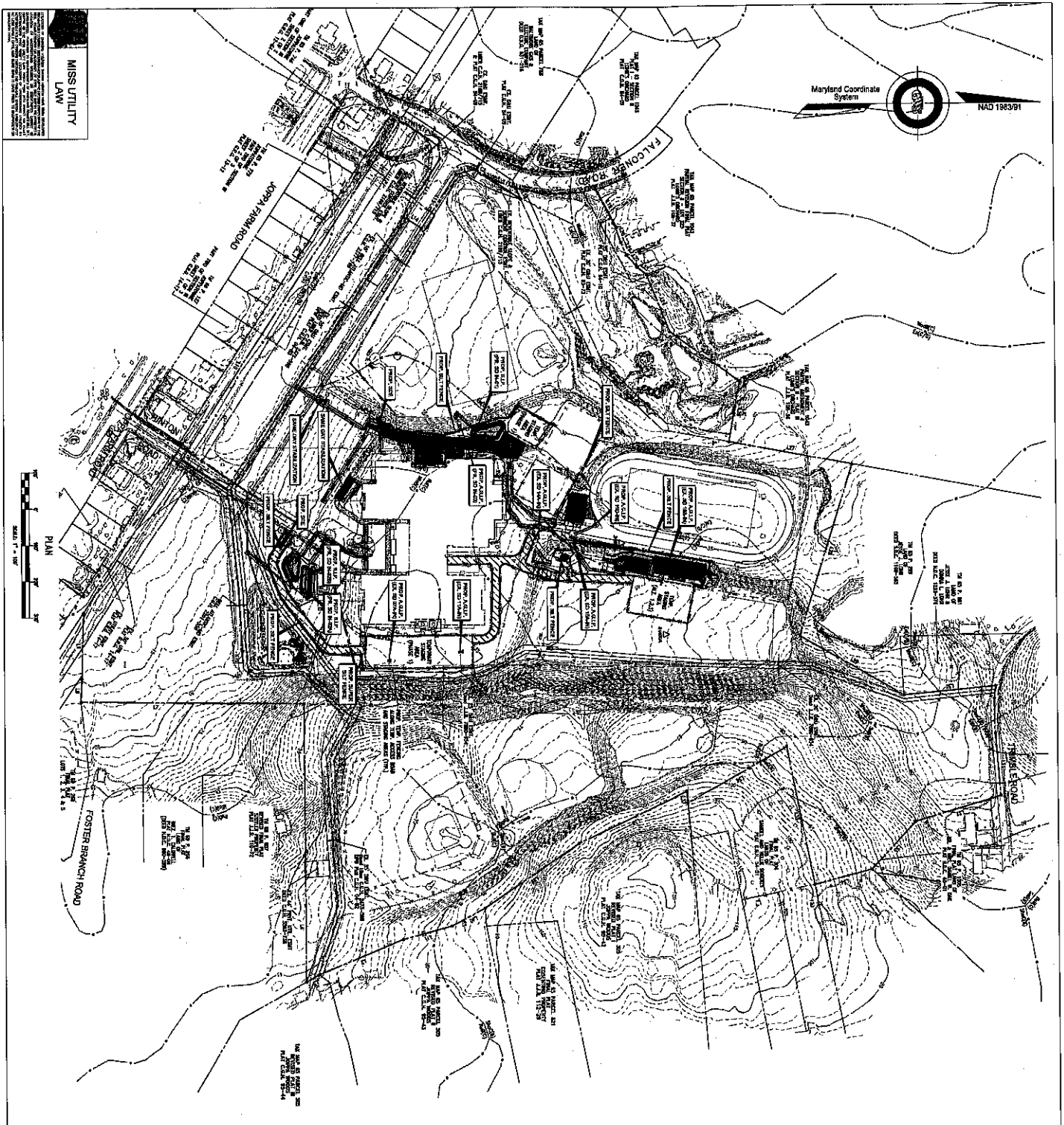
BCA

JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085

OPPATOWNE
HIDE SCULOCK
PSC NO. 12,046,16LP

ISSUE OF REMISION:		DATE
No.	DESCRIPTION	
-	CG SUBMISSION	02/07/2013
	FINAL REVIEW	04/08/2013
	RELEASE FOR BIDDING	04/11/2013
1	ADDITION NO. 2	05/01/2014



VICINITY MAP
Scale: 1" = 1/4 MI.
NAD 1983

ISSUE or REVISION:	
NO.	DESCRIPTION
1	2/2/2000
2	2/2/2000
3	2/2/2000
4	2/2/2000
5	2/2/2000
6	2/2/2000
7	2/2/2000
8	2/2/2000
9	2/2/2000
10	2/2/2000

JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

PSC NO. 12,046,164-P



OWNER: HARFORD COUNTY
PUBLIC SCHOOLS
100 SOUTH HICKORY AVENUE
P.O. BOX 10000
JOPPATOWNE, MD 21085

DESIGNER AND SEVERAL CONTROL
DISCUSSION

PROFESSIONAL CERTIFICATION
I, the undersigned, being a duly licensed Professional Engineer in the State of Maryland, do hereby certify that I am the author of the design and that the design complies with the requirements of the Maryland Engineering and Professional Surveying Act of 1991, as amended.

BCA
BRIAN CARROLL
1001 TOWNE CENTER DRIVE
JOPPATOWNE, MD 21085
410-221-1234

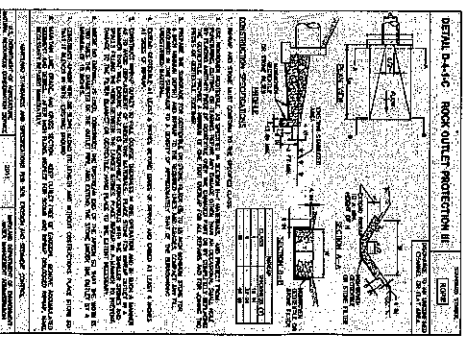
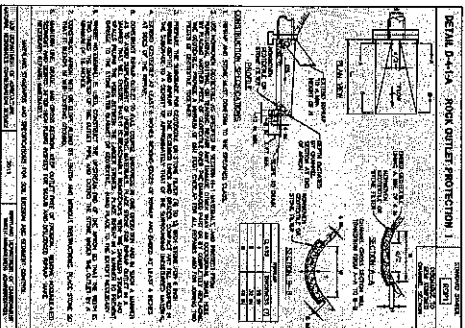
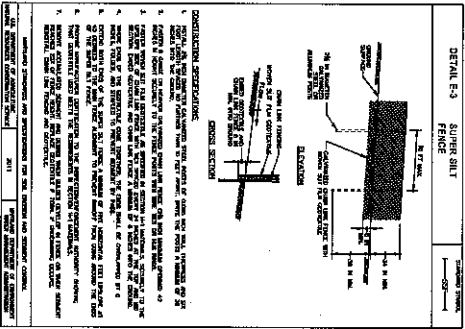
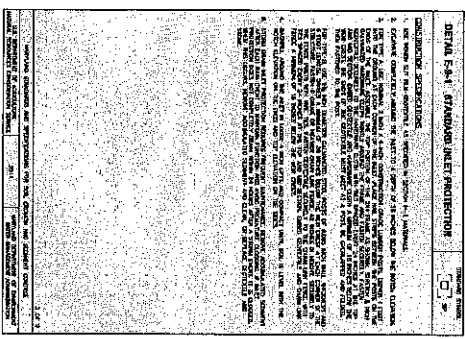
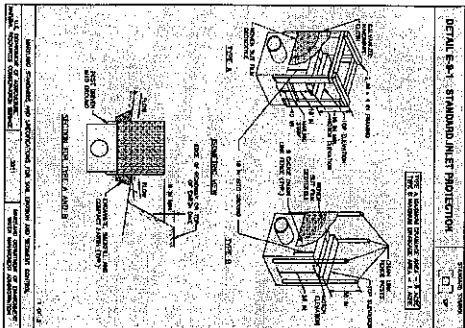
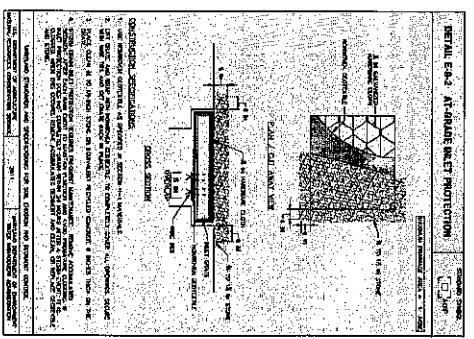
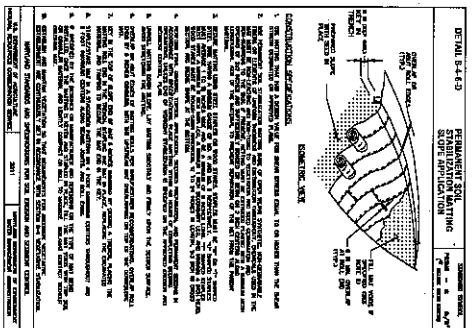
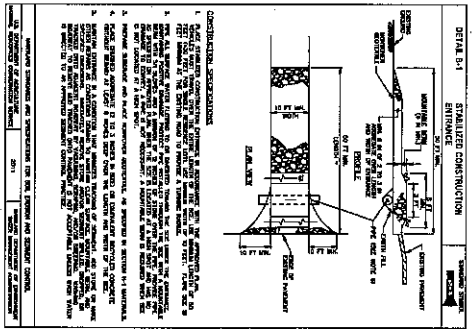
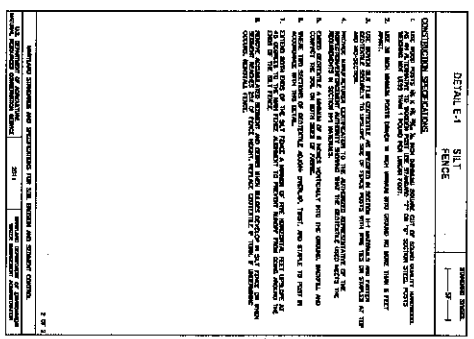
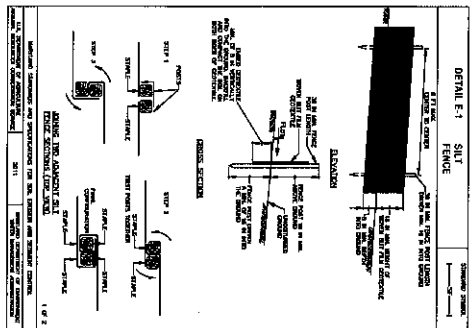
DATE: 05/11/2021

C-22



CG SYSTEMS, INC. 194-2000 81002
ENGINEERING & SURVEYING
1001 TOWNE CENTER DRIVE
JOPPATOWNE, MD 21085
410-221-1234

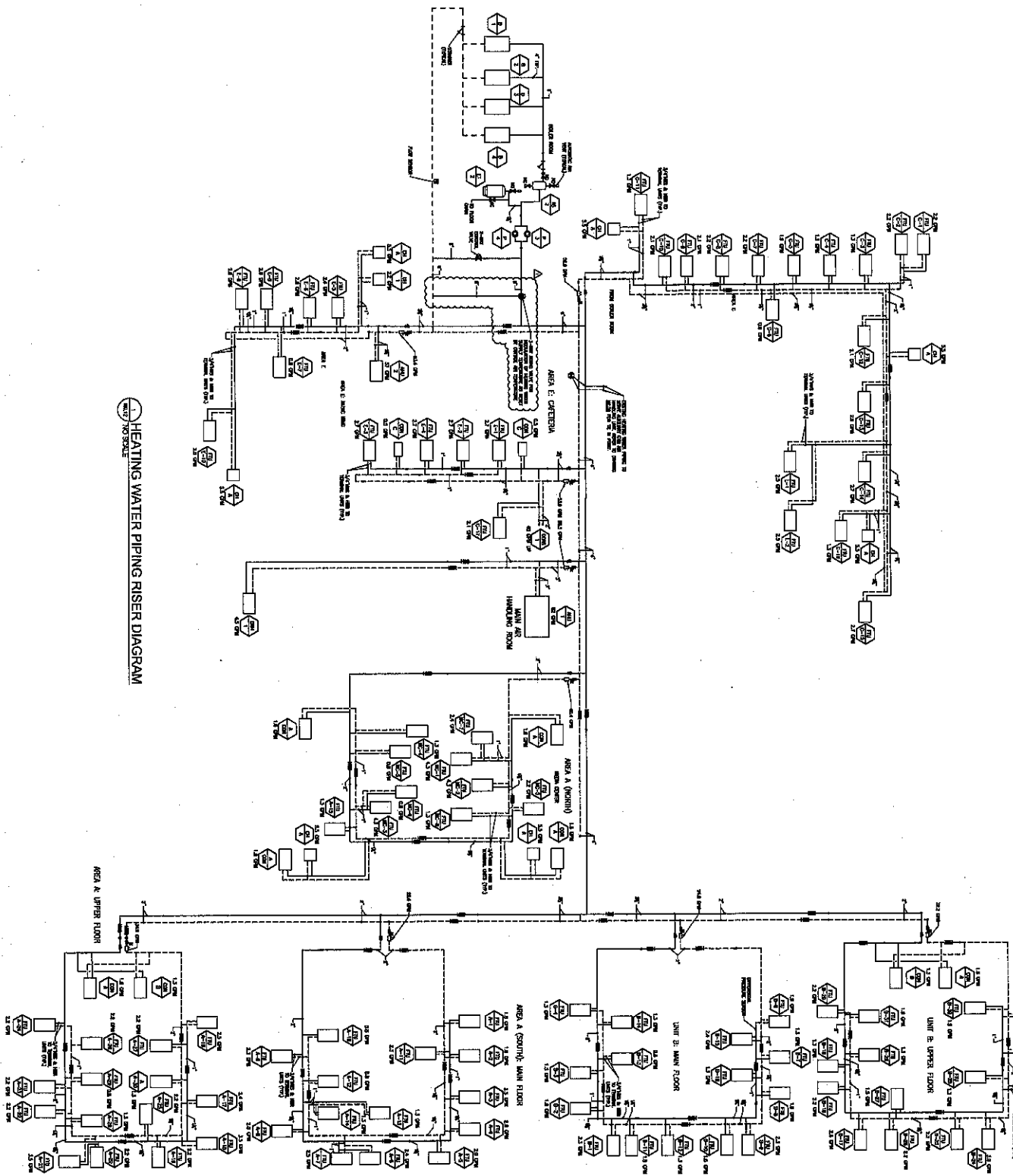
MISS UTILITY LAY



[illegible][illegible][illegible][illegible]

JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION		555 JOPPA FARM ROAD JOPPATOWNE, MARYLAND 21085	
OVERSIGHT/CLERK: HARFORD COUNTY PUBLIC SCHOOLS 100 W. WYOMING AVE REHOBOTH, MARYLAND 21088		OVERSIGHT/CLERK: HARFORD COUNTY PUBLIC SCHOOLS 100 W. WYOMING AVE REHOBOTH, MARYLAND 21088	
SHEET TITLE: Mechanical GENERAL NOTES & DESCRIPTION NOTES		SHEET TITLE: Mechanical GENERAL NOTES & DESCRIPTION NOTES	
SCALE: AS SHOWN		SCALE: AS SHOWN	
REVISIONS: 1. REVISION: 1.00 2. REVISION: 2.00 3. REVISION: 3.00 4. REVISION: 4.00 5. REVISION: 5.00 6. REVISION: 6.00 7. REVISION: 7.00 8. REVISION: 8.00 9. REVISION: 9.00 10. REVISION: 10.00 11. REVISION: 11.00 12. REVISION: 12.00 13. REVISION: 13.00 14. REVISION: 14.00 15. REVISION: 15.00 16. REVISION: 16.00 17. REVISION: 17.00 18. REVISION: 18.00 19. REVISION: 19.00 20. REVISION: 20.00 21. REVISION: 21.00 22. REVISION: 22.00 23. REVISION: 23.00 24. REVISION: 24.00 25. REVISION: 25.00 26. REVISION: 26.00 27. REVISION: 27.00 28. REVISION: 28.00 29. REVISION: 29.00 30. REVISION: 30.00 31. REVISION: 31.00 32. REVISION: 32.00 33. REVISION: 33.00 34. REVISION: 34.00 35. REVISION: 35.00 36. REVISION: 36.00 37. REVISION: 37.00 38. REVISION: 38.00 39. REVISION: 39.00 40. REVISION: 40.00 41. REVISION: 41.00 42. REVISION: 42.00 43. REVISION: 43.00 44. REVISION: 44.00 45. REVISION: 45.00 46. REVISION: 46.00 47. REVISION: 47.00 48. REVISION: 48.00 49. REVISION: 49.00 50. REVISION: 50.00 51. REVISION: 51.00 52. REVISION: 52.00 53. REVISION: 53.00 54. REVISION: 54.00 55. REVISION: 55.00 56. REVISION: 56.00 57. REVISION: 57.00 58. REVISION: 58.00 59. REVISION: 59.00 60. REVISION: 60.00 61. REVISION: 61.00 62. REVISION: 62.00 63. REVISION: 63.00 64. REVISION: 64.00 65. REVISION: 65.00 66. REVISION: 66.00 67. REVISION: 67.00 68. REVISION: 68.00 69. REVISION: 69.00 70. REVISION: 70.00 71. REVISION: 71.00 72. REVISION: 72.00 73. REVISION: 73.00 74. REVISION: 74.00 75. REVISION: 75.00 76. REVISION: 76.00 77. REVISION: 77.00 78. REVISION: 78.00 79. REVISION: 79.00 80. REVISION: 80.00 81. REVISION: 81.00 82. REVISION: 82.00 83. REVISION: 83.00 84. REVISION: 84.00 85. REVISION: 85.00 86. REVISION: 86.00 87. REVISION: 87.00 88. REVISION: 88.00 89. REVISION: 89.00 90. REVISION: 90.00 91. REVISION: 91.00 92. REVISION: 92.00 93. REVISION: 93.00 94. REVISION: 94.00 95. REVISION: 95.00 96. REVISION: 96.00 97. REVISION: 97.00 98. REVISION: 98.00 99. REVISION: 99.00 100. REVISION: 100.00		REVISIONS: 1. REVISION: 1.00 2. REVISION: 2.00 3. REVISION: 3.00 4. REVISION: 4.00 5. REVISION: 5.00 6. REVISION: 6.00 7. REVISION: 7.00 8. REVISION: 8.00 9. REVISION: 9.00 10. REVISION: 10.00 11. REVISION: 11.00 12. REVISION: 12.00 13. REVISION: 13.00 14. REVISION: 14.00 15. REVISION: 15.00 16. REVISION: 16.00 17. REVISION: 17.00 18. REVISION: 18.00 19. REVISION: 19.00 20. REVISION: 20.00 21. REVISION: 21.00 22. REVISION: 22.00 23. REVISION: 23.00 24. REVISION: 24.00 25. REVISION: 25.00 26. REVISION: 26.00 27. REVISION: 27.00 28. REVISION: 28.00 29. REVISION: 29.00 30. REVISION: 30.00 31. REVISION: 31.00 32. REVISION: 32.00 33. REVISION: 33.00 34. REVISION: 34.00 35. REVISION: 35.00 36. REVISION: 36.00 37. REVISION: 37.00 38. REVISION: 38.00 39. REVISION: 39.00 40. REVISION: 40.00 41. REVISION: 41.00 42. REVISION: 42.00 43. REVISION: 43.00 44. REVISION: 44.00 45. REVISION: 45.00 46. REVISION: 46.00 47. REVISION: 47.00 48. REVISION: 48.00 49. REVISION: 49.00 50. REVISION: 50.00 51. REVISION: 51.00 52. REVISION: 52.00 53. REVISION: 53.00 54. REVISION: 54.00 55. REVISION: 55.00 56. REVISION: 56.00 57. REVISION: 57.00 58. REVISION: 58.00 59. REVISION: 59.00 60. REVISION: 60.00 61. REVISION: 61.00 62. REVISION: 62.00 63. REVISION: 63.00 64. REVISION: 64.00 65. REVISION: 65.00 66. REVISION: 66.00 67. REVISION: 67.00 68. REVISION: 68.00 69. REVISION: 69.00 70. REVISION: 70.00 71. REVISION: 71.00 72. REVISION: 72.00 73. REVISION: 73.00 74. REVISION: 74.00 75. REVISION: 75.00 76. REVISION: 76.00 7	

HEATING WATER PIPING RISER DIAGRAM



GENERAL NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE AND THE MARYLAND MECHANICAL CODE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS AND WASTE MATERIALS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL AREAS TO ORIGINAL OR BETTER CONDITION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSURANCE AND BONDS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS AND WASTE MATERIALS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL AREAS TO ORIGINAL OR BETTER CONDITION.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSURANCE AND BONDS.

ISSUE OF REVISION:

NO.	DESCRIPTION	DATE
1	ISSUE OF REVISION	10/20/2020
2	ISSUE OF REVISION	10/20/2020
3	ISSUE OF REVISION	10/20/2020
4	ISSUE OF REVISION	10/20/2020
5	ISSUE OF REVISION	10/20/2020
6	ISSUE OF REVISION	10/20/2020
7	ISSUE OF REVISION	10/20/2020
8	ISSUE OF REVISION	10/20/2020
9	ISSUE OF REVISION	10/20/2020
10	ISSUE OF REVISION	10/20/2020

JOPPATOWNE
PSC NO. 12046.1B/P
BALAISON

JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION
555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

HANFORD COUNTY
PUBLIC SCHOOLS

HANFORD COUNTY
PUBLIC SCHOOLS
100 W. WASHINGTON STREET
HANFORD, MARYLAND 21076

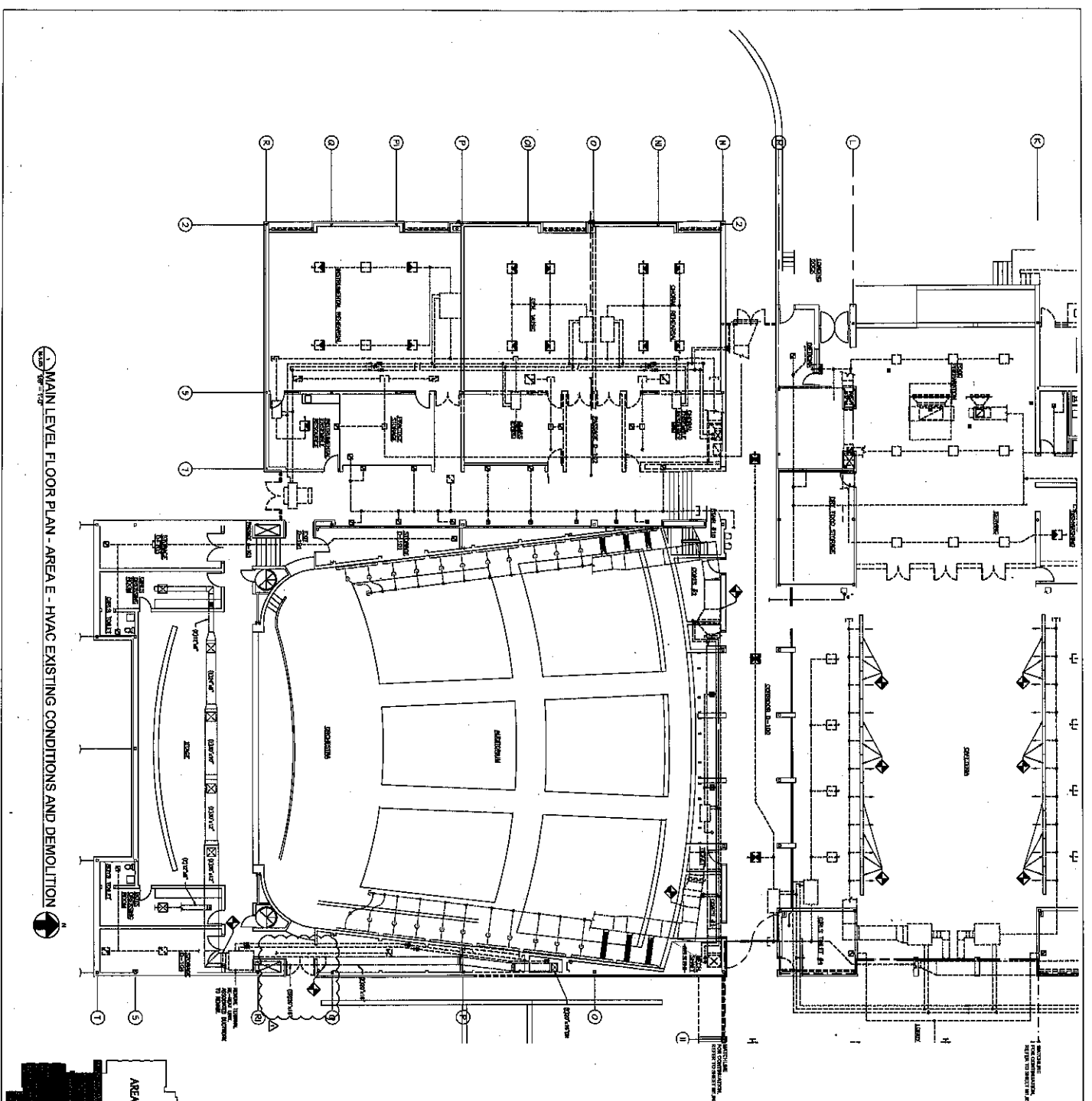
SCALE: AS SHOWN
NOT TO SCALE
ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE AND THE MARYLAND MECHANICAL CODE.

BCA
Boring Campbell
ARCHITECTS, INC.
100 W. WASHINGTON STREET
HANFORD, MARYLAND 21076
TEL: 410-326-1100
FAX: 410-326-1101
WWW.BORINGCAMPBELL.COM

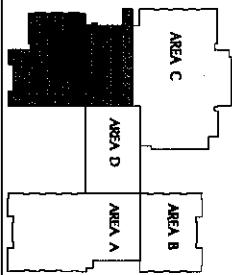
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PROJECT: MO12
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(FTU)

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MAIN LEVEL FLOOR PLAN - AREA E - HVAC EXISTING CONDITIONS AND DEMOLITION



ISSUE OF REVISION		
NO.	DESCRIPTION	DATE
1	ISSUE OF REVISION	08/20/20
2	ISSUE OF REVISION	08/20/20
3	ISSUE OF REVISION	08/20/20
4	ISSUE OF REVISION	08/20/20
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7	ISSUE OF REVISION	08/20/20
8	ISSUE OF REVISION	08/20/20
9	ISSUE OF REVISION	08/20/20
10	ISSUE OF REVISION	08/20/20

GENERAL NOTES:

- REFER TO DRAWING SHEET FOR SYMBOLS AND NOTATION.
- ALL EXISTING CONDITIONS ARE SHOWN AS NOTED ON THIS SHEET.
- ALL DEMOLITION WORK IS TO BE COMPLETED BY THE DATE NOTED ON THIS SHEET.
- ALL NEW WORK IS TO BE COMPLETED BY THE DATE NOTED ON THIS SHEET.
- ALL WORK IS TO BE COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS AND NOTES ON THIS SHEET.
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**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085



OWNER/CLIENT:
**HARFORD COUNTY
PUBLIC SCHOOLS**
200 NORTH WASHINGTON AVENUE
JOPPATOWNE, MD 21085

DESIGNER:
BCA
Bentley & Company, Inc.
1000 Joppa Farm Road
Joppatowne, MD 21085
(410) 238-1000

DATE: 08/20/2020

PROJECT: JOPPATOWNE HIGH SCHOOL RENOVATION

SCALE: AS SHOWN

MAIN LEVEL FLOOR PLAN - AREA E - HVAC EX. COND. & DEMOLITION

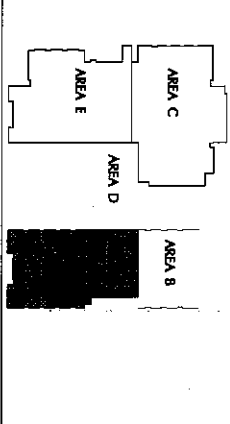
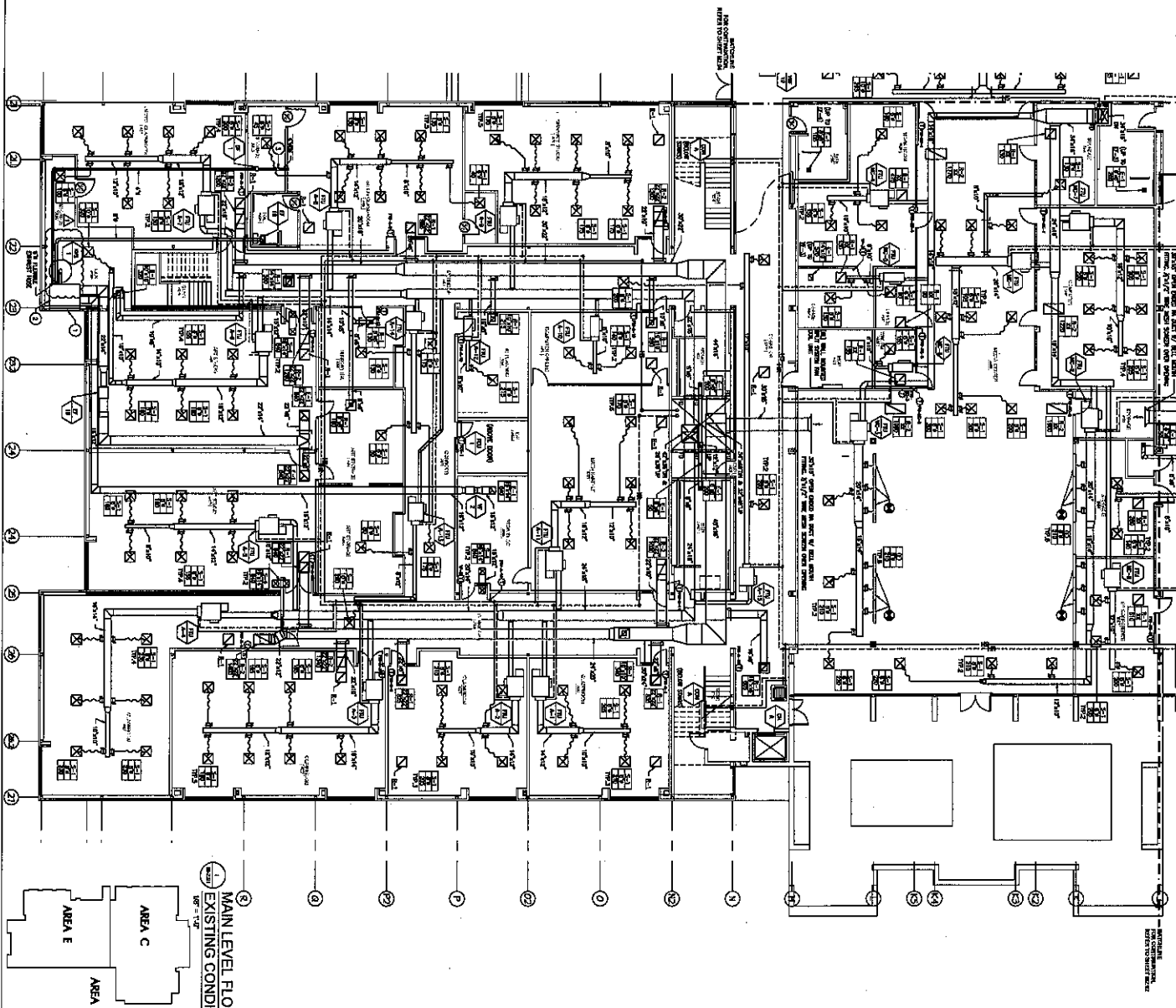
BCA
Bentley & Company, Inc.
1000 Joppa Farm Road
Joppatowne, MD 21085
(410) 238-1000

DATE: 08/20/2020

PROJECT: JOPPATOWNE HIGH SCHOOL RENOVATION

SCALE: AS SHOWN

MAIN LEVEL FLOOR PLAN - AREA E - HVAC EX. COND. & DEMOLITION



MAIN LEVEL FLOOR PLAN - AREA A - HVAC
EXISTING CONDITIONS AND NEW WORK

- GENERAL NOTES:**
1. SEE ALL DIMENSIONS ON LOCATIONS WITHIN THIS DRAWING.
 2. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 3. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
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BCA BUILDING CONSULTANTS ASSOCIATES 1001 North 2nd Street, Suite 200 Joppa, Maryland 21085 (410) 436-1234 www.bca-architects.com		DATE: 04/10/2020 PROJECT: JOPPATOWNE HIGH SCHOOL SCALE: AS SHOWN PROJECT: JOPPATOWNE HIGH SCHOOL SCALE: AS SHOWN		DATE: 04/10/2020 PROJECT: JOPPATOWNE HIGH SCHOOL SCALE: AS SHOWN PROJECT: JOPPATOWNE HIGH SCHOOL SCALE: AS SHOWN	
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JOPPATOWNE HIGH SCHOOL

LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

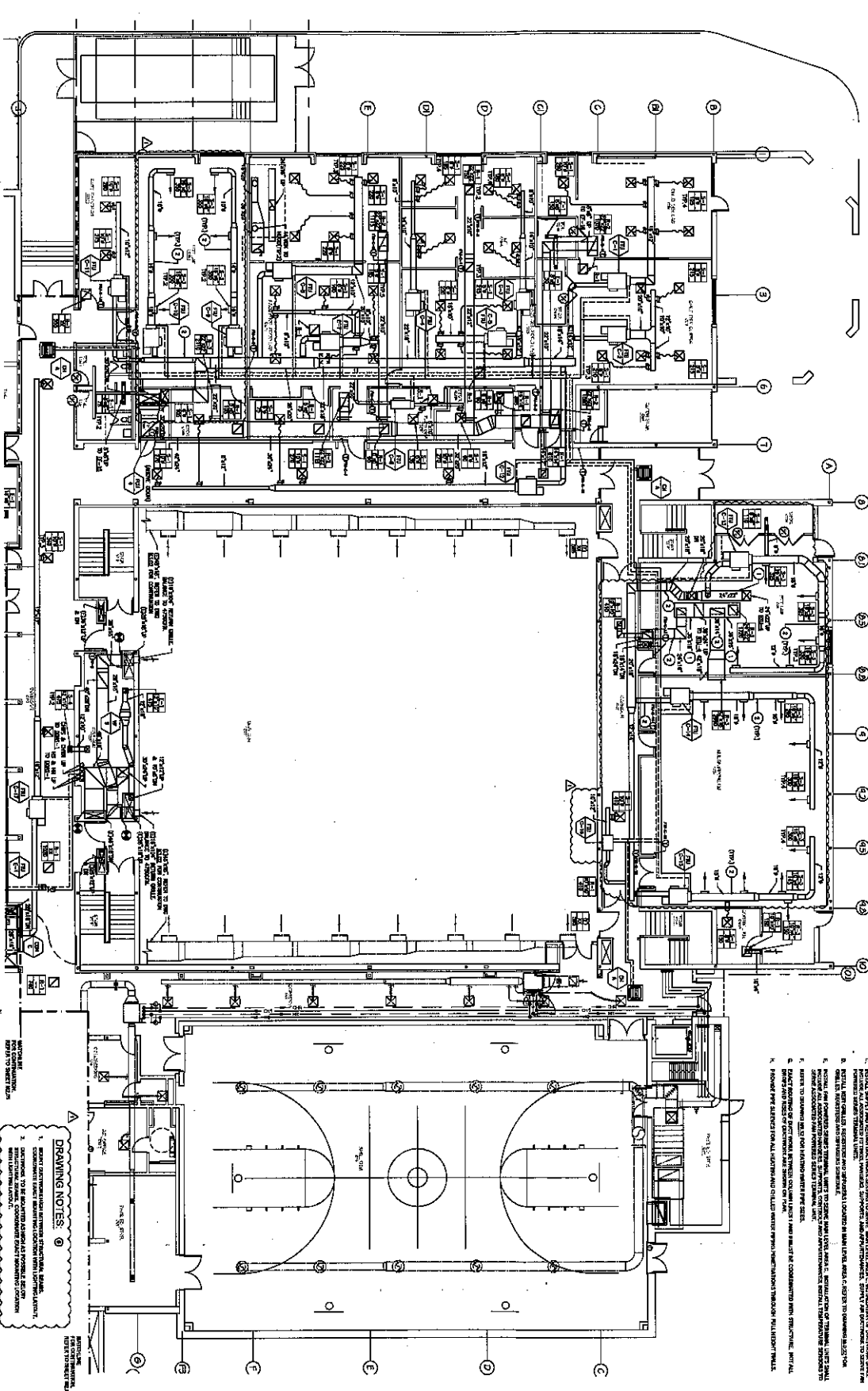
ISSUE OF REVISION

NO.	DESCRIPTION	DATE
1	CO SUBMISSION	04/10/20
2	FINAL REVIEW	04/10/20
3	RELEASE FOR BIDDING	04/10/20
4	ADDITION NO. 2	04/10/20

PSC NO. 12046, R1P

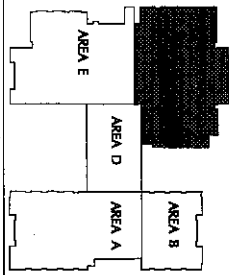
BALASIN

MAIN LEVEL FLOOR PLAN - AREA C - HVAC EXISTING CONDITIONS AND NEW WORK



- GENERAL NOTES:**
- NOTES TO DRAWING INDICATE THE EXISTING AND PROPOSED WORK.
 - ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE, THE MARYLAND MECHANICAL CODE, AND THE MARYLAND ELECTRICAL CODE.
 - ALL EXISTING WORK SHALL BE REMOVED AND REINSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE, THE MARYLAND MECHANICAL CODE, AND THE MARYLAND ELECTRICAL CODE.
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- DRAWING NOTES:**
- ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE, THE MARYLAND MECHANICAL CODE, AND THE MARYLAND ELECTRICAL CODE.
 - ALL EXISTING WORK SHALL BE REMOVED AND REINSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE, THE MARYLAND MECHANICAL CODE, AND THE MARYLAND ELECTRICAL CODE.
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 - ALL EXISTING WORK SHALL BE REMOVED AND REINSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE, THE MARYLAND MECHANICAL CODE, AND THE MARYLAND ELECTRICAL CODE.



**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

ISSUE or REVISION	
NO.	DESCRIPTION
1	ISSUED FOR BIDDING
2	REVISED FOR BIDDING
3	REVISED FOR BIDDING
4	REVISED FOR BIDDING
5	REVISED FOR BIDDING
6	REVISED FOR BIDDING
7	REVISED FOR BIDDING
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9	REVISED FOR BIDDING
10	REVISED FOR BIDDING

BCA

BRANDT CONSULTANTS
ARCHITECTS, INC.

1001 N. W. 10th Avenue
Fort Lauderdale, FL 33304

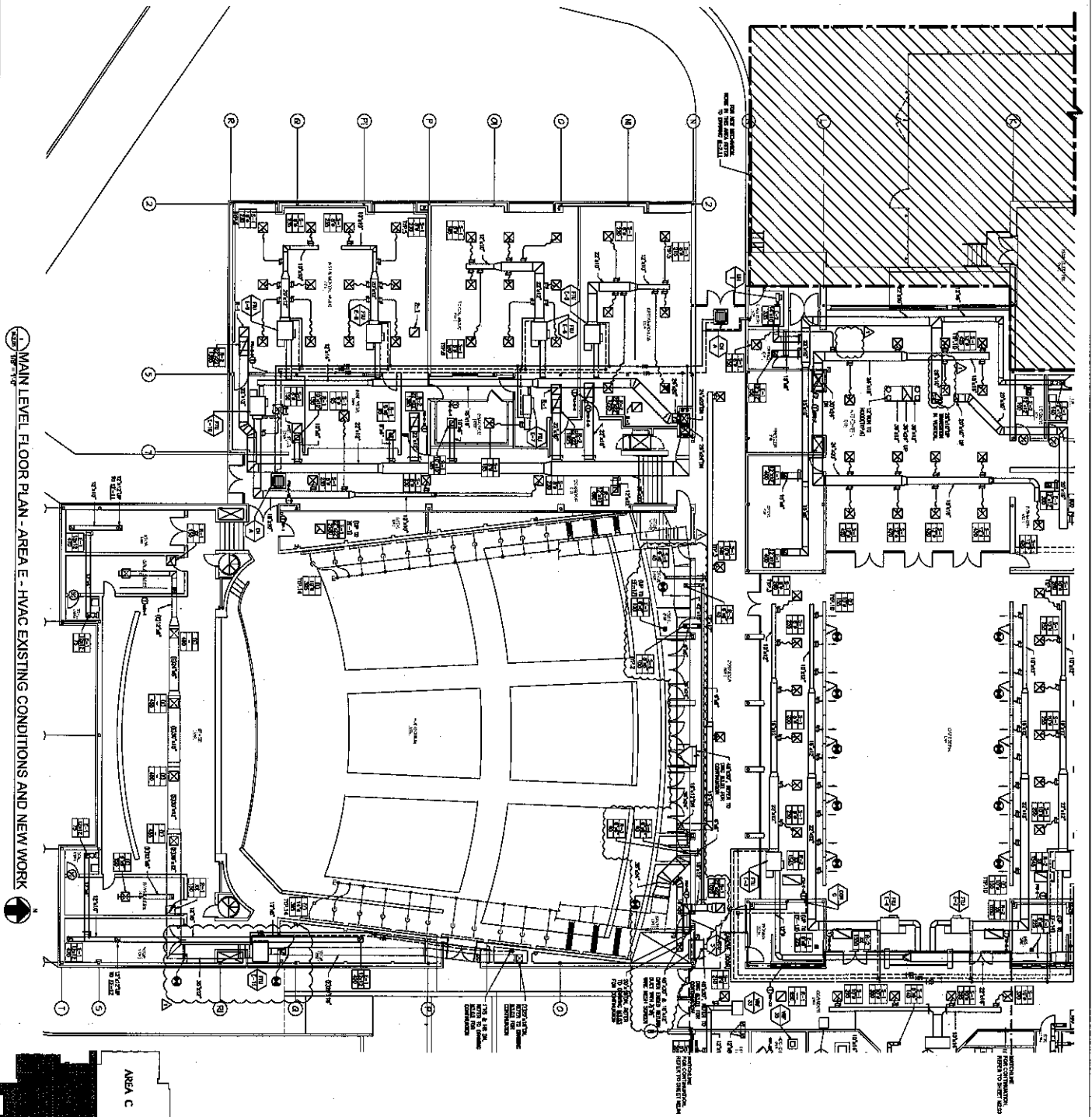
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PROJECT: JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

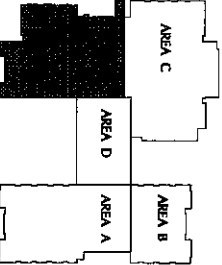
WORK: MAIN LEVEL FLOOR PLAN - AREA C - HVAC EXISTING CONDITIONS AND NEW WORK

SCALE: AS SHOWN

PROJECT NO. M203



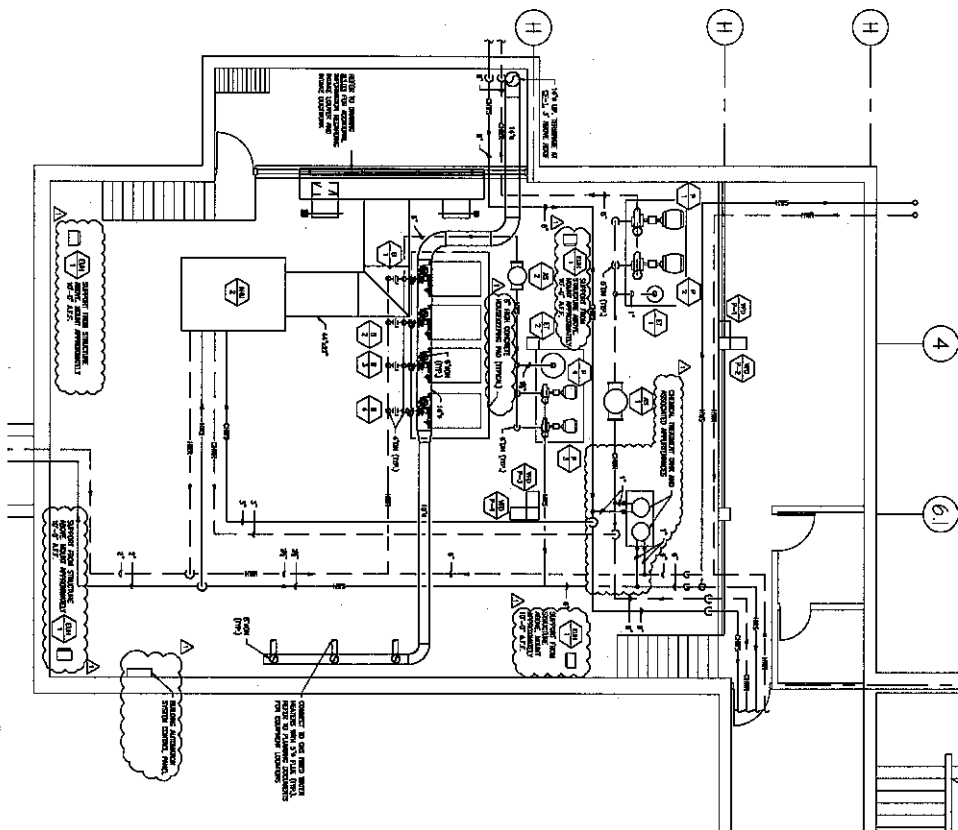
MAIN LEVEL FLOOR PLAN - AREA E - HVAC EXISTING CONDITIONS AND NEW WORK



- GENERAL NOTES:**
- REFER TO DRAWING SET FOR THE FOLLOWING NOTES AND ASSUMPTIONS:
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE AND THE MARYLAND ELECTRICAL CODE.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND MECHANICAL CODE AND THE MARYLAND PLUMBING CODE.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND FIRE ALARM AND SIGNALING CODE AND THE MARYLAND LIFE SAFETY CODE.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND ENVIRONMENTAL CODE AND THE MARYLAND HISTORIC PRESERVATION CODE.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND LANDSCAPE ARCHITECTURE CODE AND THE MARYLAND TRAFFIC ENGINEERING CODE.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND AERIAL PHOTOGRAPHY CODE AND THE MARYLAND AERIAL SURVEILLANCE CODE.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND AERIAL PHOTOGRAPHY CODE AND THE MARYLAND AERIAL SURVEILLANCE CODE.
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 - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND AERIAL PHOTOGRAPHY CODE AND THE MARYLAND AERIAL SURVEILLANCE CODE.

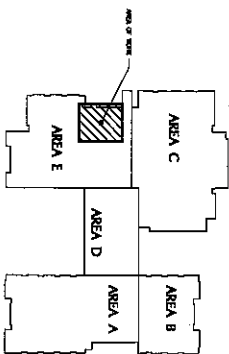
BCA BUILDING CONSULTANTS ASSOCIATES 1001 N. W. 10th Ave., Suite 100 Fort Lauderdale, FL 33304 (954) 574-1100 www.bcafl.com		ISSUE OF REVISION: <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>CD 04-05-01</td> <td>04/05/01</td> </tr> <tr> <td>2</td> <td>FINAL, REVISED</td> <td>04/05/01</td> </tr> <tr> <td>3</td> <td>REVISED FOR BUILDING</td> <td>04/05/01</td> </tr> <tr> <td>4</td> <td>ADDITIONAL NO. 2</td> <td>04/05/01</td> </tr> </table>		NO.	DESCRIPTION	DATE	1	CD 04-05-01	04/05/01	2	FINAL, REVISED	04/05/01	3	REVISED FOR BUILDING	04/05/01	4	ADDITIONAL NO. 2	04/05/01
NO.	DESCRIPTION	DATE																
1	CD 04-05-01	04/05/01																
2	FINAL, REVISED	04/05/01																
3	REVISED FOR BUILDING	04/05/01																
4	ADDITIONAL NO. 2	04/05/01																
DATE: 04/05/01 PROJ. NUMBER: M2.05 CON.: 10-10-01		JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION 555 JOPPA FARM ROAD JOPPATOWNE, MARYLAND 21085																
CONTRACTOR: HARBOR COUNTY PUBLIC SCHOOLS 100 SOUTH HARBOR AVENUE BALTIMORE, MARYLAND 21201		DESIGNER: BALAS 1001 N. W. 10th Ave., Suite 100 Fort Lauderdale, FL 33304 (954) 574-1100 www.bcafl.com																

1. BOILER ROOM PART PLAN - HVAC EXISTING CONDITIONS AND NEW WORK



GENERAL NOTES:

- ALL EXISTING MECHANICAL EQUIPMENT TO REMAIN SHALL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN THE SYSTEM IN GOOD WORKING ORDER.
- ALL NEW MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL MECHANICAL ASSOCIATION (NMA) AND ASHRAE.
- ALL NEW MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL MECHANICAL ASSOCIATION (NMA) AND ASHRAE.
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JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085



OWNER/DESIGNER:
HARFORD COUNTY
PUBLIC SCHOOLS
100 NORTH WASHINGTON AVENUE
JOPPATOWNE, MD 21085

DESIGNER:
BCA
Barbara Campbell
ARCHITECTS, INC.
100 NORTH WASHINGTON AVENUE
JOPPATOWNE, MD 21085

DATE: 04/27/2020

PROJECT NUMBER: M209

SCALE: AS SHOWN

REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	04/27/2020

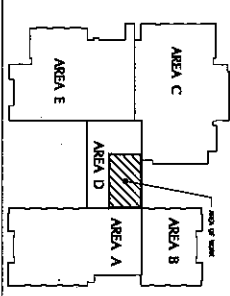
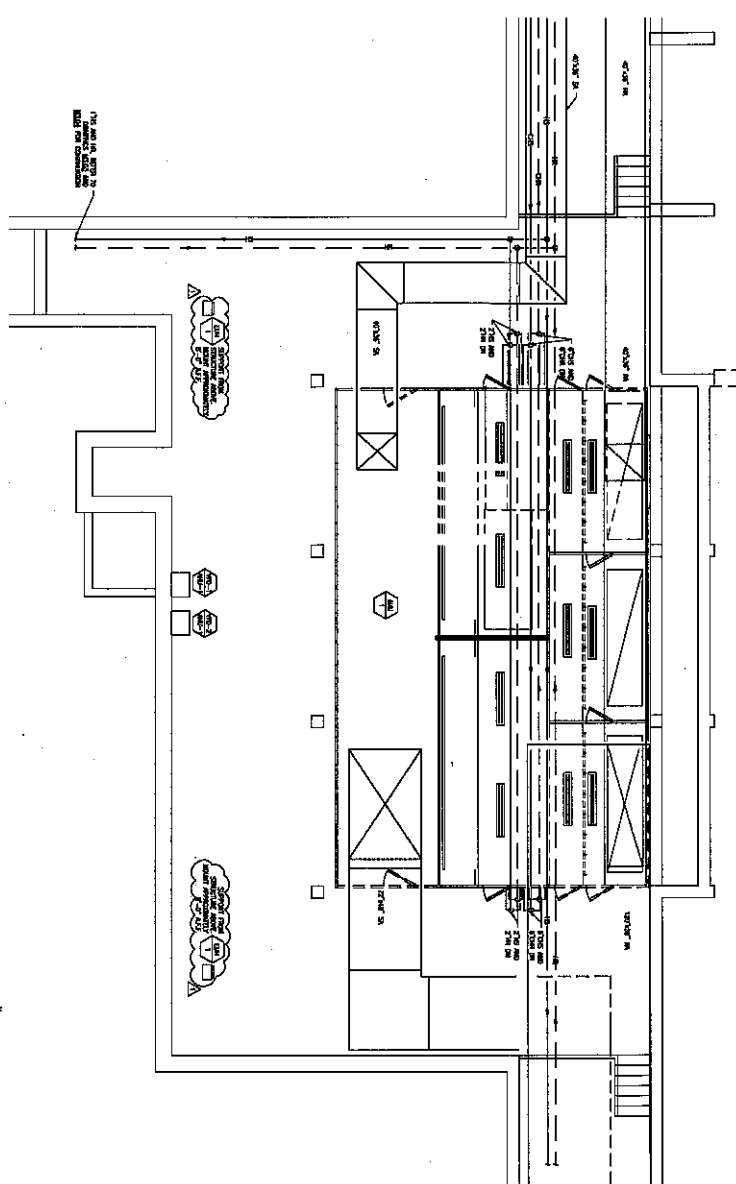
JOPPATOWNE
PSC NO. 12046.18P
BALA SWA
100 NORTH WASHINGTON AVENUE
JOPPATOWNE, MD 21085

NO.	DESCRIPTION	DATE
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2	ISSUED FOR PERMIT	04/27/2020
3	ISSUED FOR PERMIT	04/27/2020
4	ISSUED FOR PERMIT	04/27/2020
5	ISSUED FOR PERMIT	04/27/2020
6	ISSUED FOR PERMIT	04/27/2020
7	ISSUED FOR PERMIT	04/27/2020
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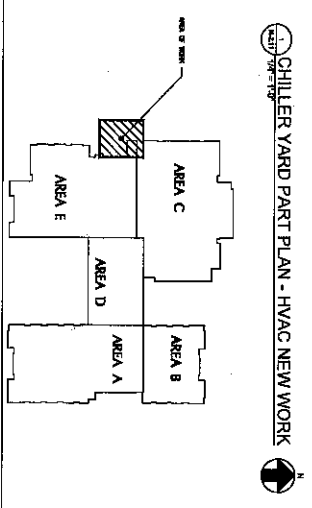
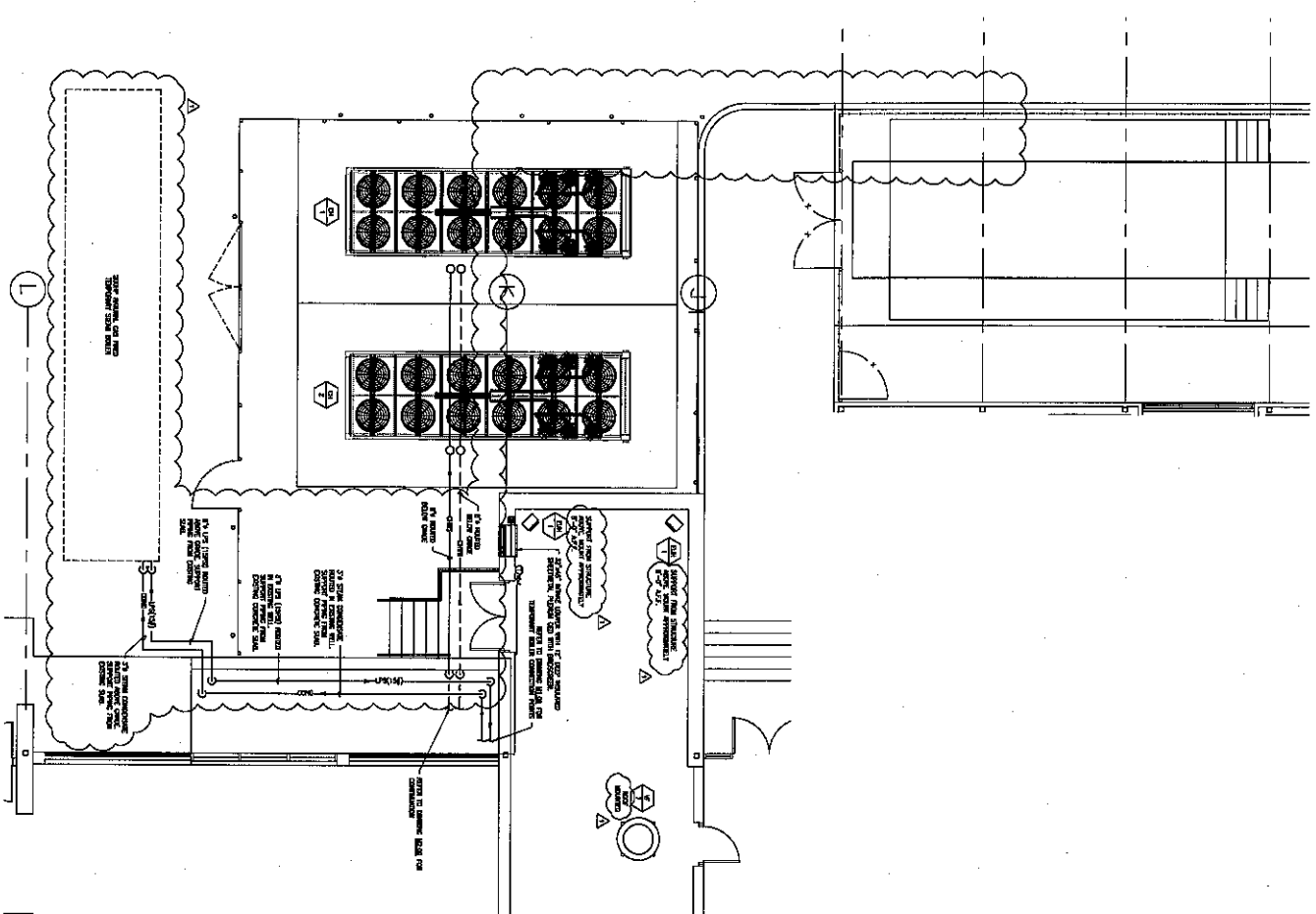
GENERAL NOTES:

- EXISTING CONDITIONS SHOWN UNLESS NOTED OTHERWISE.
- WORK TO BE DONE BY THE CONTRACTOR.
- WORK TO BE DONE BY THE OWNER.
- WORK TO BE DONE BY THE ARCHITECT.

1. MAIN AIR HANDLING UNIT ROOM PART PLAN - HVAC EXISTING CONDITIONS AND NEW WORK



ISSUE OF REVISION No. Description Date 1 CO SUBMISSION 04/20/20 2 FINAL REVIEW 04/20/20 3 RELEASE FOR BIDDING 04/20/20 4 APPROVAL NO. 2 04/20/20		JOPPATOWNE PUBLIC SCHOOLS PSC NO. 22046.1BLP BALAJI		JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION 555 JOPPA FARM ROAD JOPPATOWNE, MARYLAND 21085		HARBOR COUNTY PUBLIC SCHOOLS 100 SOUTH HARBOR AVENUE BALTIMORE, MD 21201		BCA BUILDING CONSULTANTS ASSOCIATES, INC. 11001 RINGBROOK ROAD, SUITE 200 JOPPATOWNE, MD 21085		MAIN AIR HANDLING UNIT ROOM PART PLAN - HVAC EXISTING CONDITIONS AND NEW WORK SCALE: AS SHOWN DATE: 04/20/20 PROJ. NUMBER: M2.10 DRAWN: JG CHECK: R-204	
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- GENERAL NOTES:**
- A. REFER TO DRAWING SHEET FOR ALL LOCATIONS.
 - B. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE (MBC) AND THE MARYLAND ELECTRICAL CODE (MEC).
 - C. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND MECHANICAL CODE (MMC) AND THE MARYLAND PLUMBING CODE (MPC).
 - D. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND GAS CODE (MGC) AND THE MARYLAND FIRE CODE (MFC).
 - E. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND ENVIRONMENTAL CODE (MEC) AND THE MARYLAND HEALTH CODE (MHC).
 - F. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND LANDSCAPE ARCHITECTURE CODE (MLAC) AND THE MARYLAND PAVING CODE (MPC).
 - G. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND TRAFFIC CODE (MTC) AND THE MARYLAND UTILITIES CODE (MUC).
 - H. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND WASTE MANAGEMENT CODE (MWMC) AND THE MARYLAND WATER SUPPLY CODE (MWSC).
 - I. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND AIR POLLUTION CONTROL CODE (MAPCC) AND THE MARYLAND SOIL CONSERVATION CODE (MSCC).
 - J. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND HISTORIC PRESERVATION CODE (MHPCC) AND THE MARYLAND MONUMENTS AND HISTORIC LANDMARKS CODE (MMHLCC).
 - K. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND ANTI-CORRUPTION CODE (MACC) AND THE MARYLAND CAMPAIGN FINANCE CODE (MCCFC).
 - L. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND ELECTIONS CODE (MEC) AND THE MARYLAND GOVERNMENT ETHICS CODE (MGC).
 - M. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND JUDICIAL BRANCH CODE (MJBCC) AND THE MARYLAND LEGISLATIVE BRANCH CODE (MLBCC).
 - N. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND EXECUTIVE BRANCH CODE (MEBC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).
 - O. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND LEGISLATIVE BRANCH CODE (MLBCC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).
 - P. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND EXECUTIVE BRANCH CODE (MEBC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).
 - Q. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND LEGISLATIVE BRANCH CODE (MLBCC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).
 - R. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND EXECUTIVE BRANCH CODE (MEBC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).
 - S. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND LEGISLATIVE BRANCH CODE (MLBCC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).
 - T. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND EXECUTIVE BRANCH CODE (MEBC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).
 - U. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND LEGISLATIVE BRANCH CODE (MLBCC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).
 - V. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND EXECUTIVE BRANCH CODE (MEBC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).
 - W. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND LEGISLATIVE BRANCH CODE (MLBCC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).
 - X. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND EXECUTIVE BRANCH CODE (MEBC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).
 - Y. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND LEGISLATIVE BRANCH CODE (MLBCC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).
 - Z. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND EXECUTIVE BRANCH CODE (MEBC) AND THE MARYLAND JUDICIAL BRANCH CODE (MJBCC).

BCA
BENNETT CONSULTANTS
ARCHITECTS, INC.
1001 TOWNE SQUARE, SUITE 100
JOPPATOWNE, MARYLAND 21085
(410) 251-1000
FAX: (410) 251-1001
WWW.BCA-ARCHITECTS.COM

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

DATE: 04/17/2023
PROJECT NO.: 21085
SHEET NO.: M2.11

GENERAL NOTES:
A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.

NO.	DESCRIPTION	DATE
1	CO SUBMISSION	02/02/00
2	FINAL REVIEW	04/02/00
3	ISSUED FOR BIDDING	04/02/00
4	ADDITION NO. 1	04/02/00
5	ADDITION NO. 2	04/02/00

JOPPATOWNE
PUBLIC SCHOOLS
PSC NO. 12046, T&P
BALAUS

JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

HARFORD COUNTY
PUBLIC SCHOOLS
JOPPATOWNE
JOPPATOWNE HIGH SCHOOL
122 SOUTH HANCOCK AVENUE
BAL. ANN. WENTLAND 21085

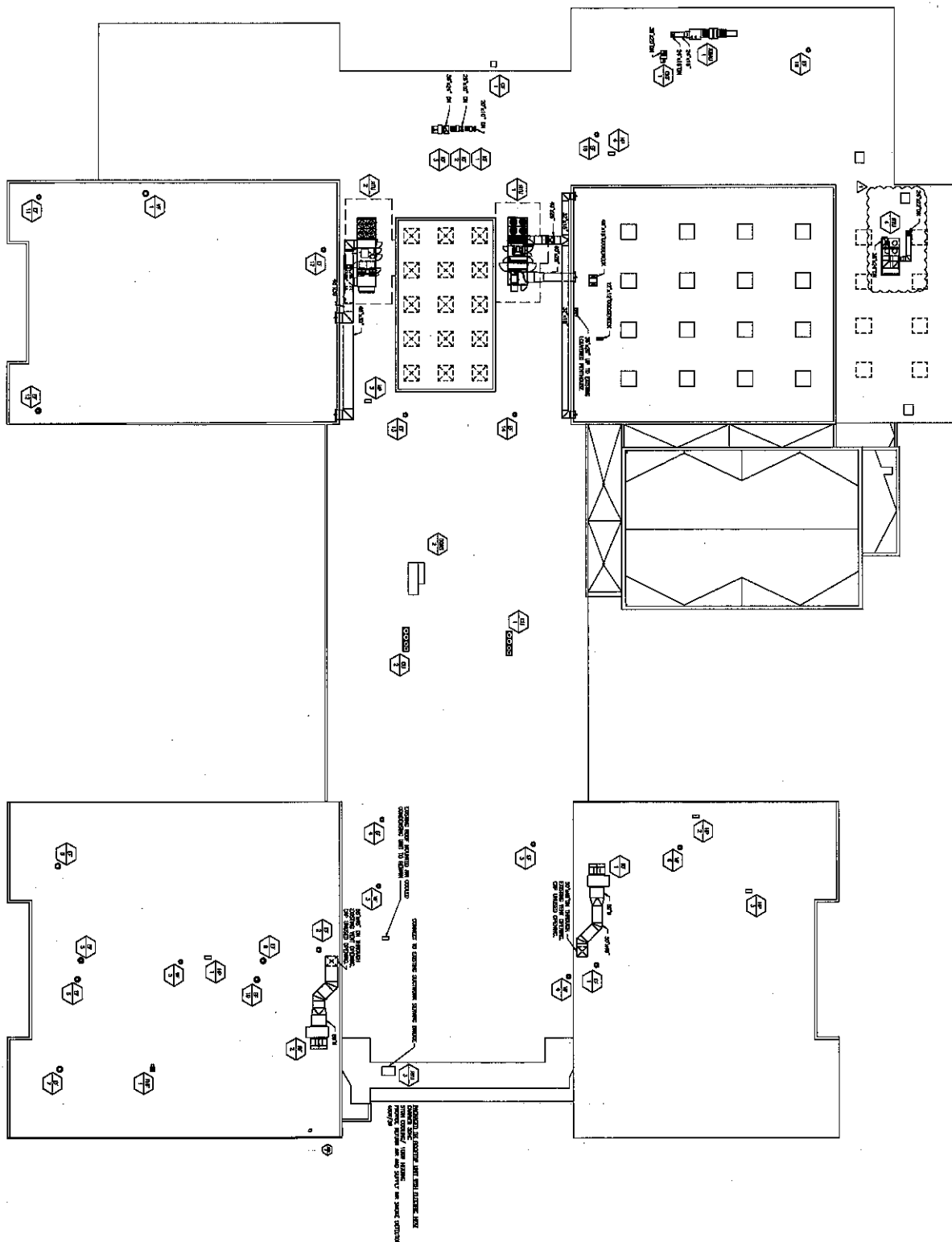
SHEET TITLE:
ROOF PLAN -
HVAC NEW WORK

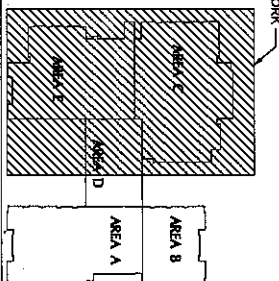
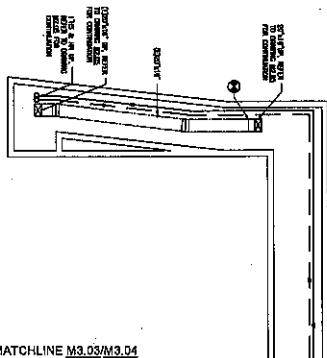
SCALE: AS SHOWN
PROFESSIONAL CERTIFICATION:
I, the undersigned, being a duly Licensed Professional Engineer in the State of Maryland, do hereby certify that I am the Designer of the above described project and that I am a duly Licensed Professional Engineer in the State of Maryland.

BCA
JAMES C. BROWN, P.E.
1001 E. Joppa Farm Road
Joppa, MD 21085
410-238-1000
www.bca-engineers.com

DATE: 04/12/00
PANEL NUMBER:
M-3.01

ROOF PLAN - HVAC NEW WORK





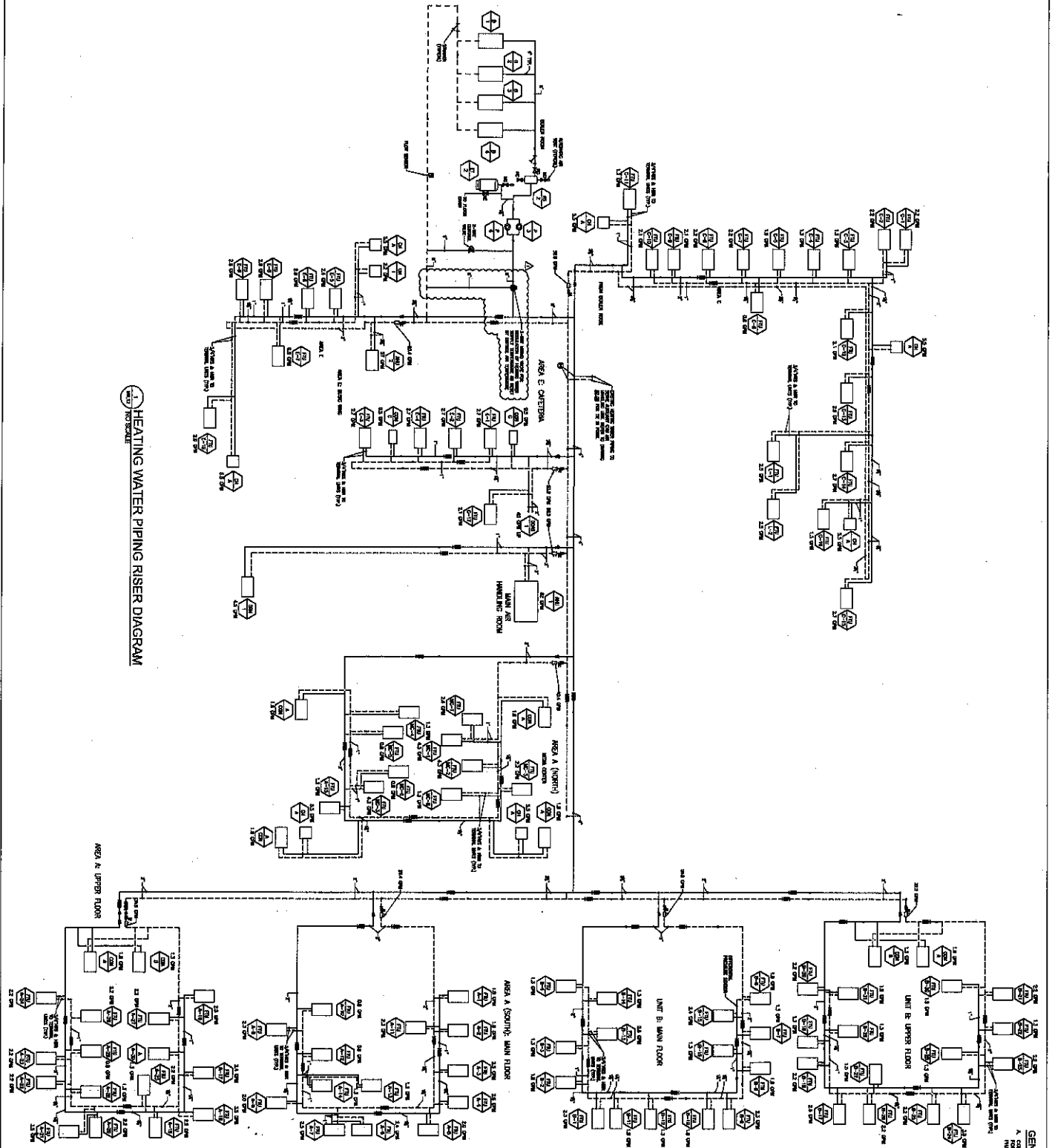
MATCHLINE M3.03/M3.04

INTERLOCK SECTION OPERATIONAL OPERATOR WITH
BOLLER OPERATIONS, PROVIDE 127/1127 WIRE BE-
SPECTION OPEN OPEN END DUCT.

DATE 04/17/2020	
PROJ NUMBER	
BUILDER	70-14-10
RCR	14-004

M-3.00

HEATING WATER PIPING RISER DIAGRAM



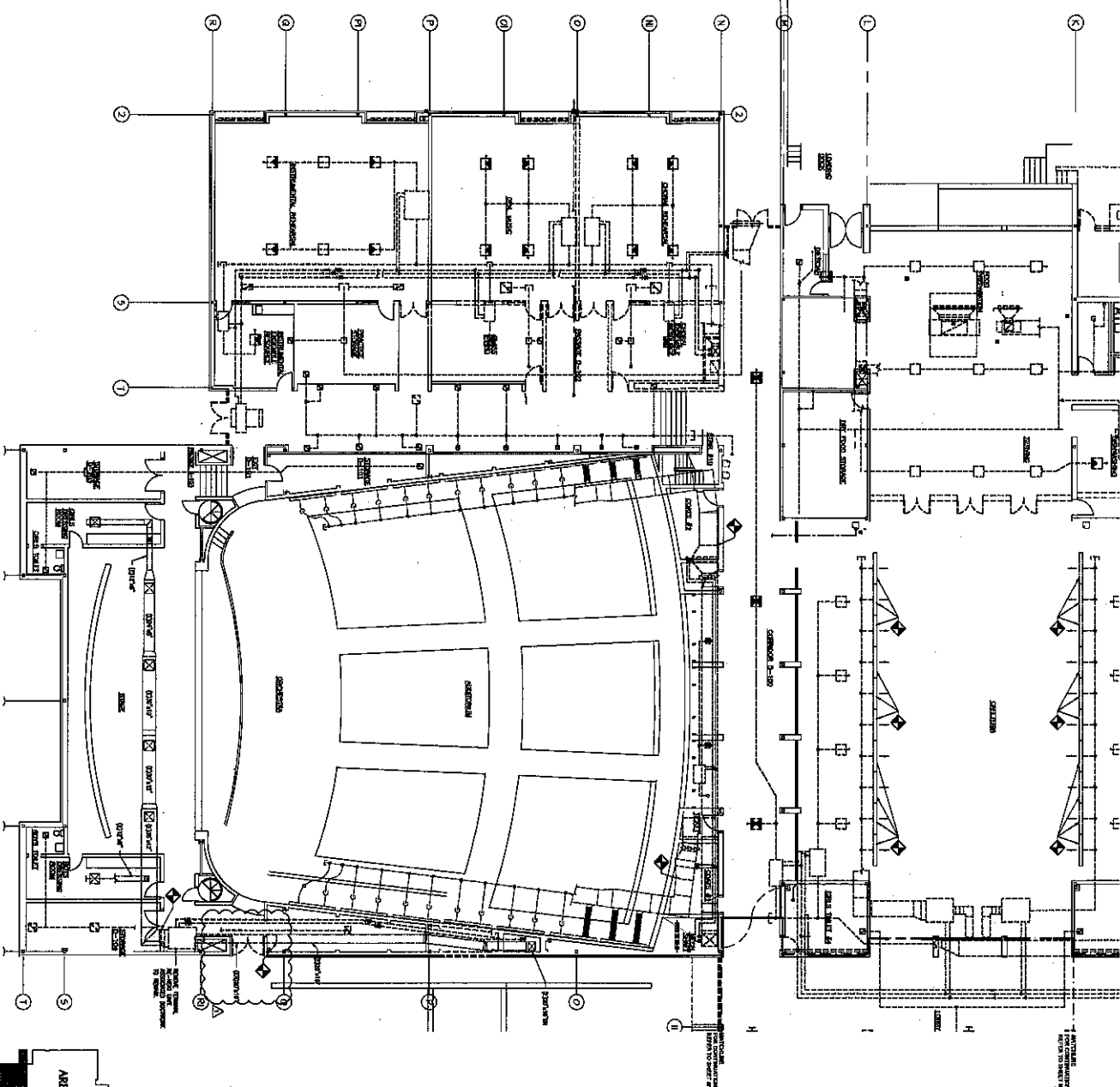
GENERAL NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 90A, 95A, AND 99A.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
4. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES.
5. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SAFETY BARRIERS AND WARNING SIGNS AT ALL TIMES.
6. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS OF ALL WORK DONE.
7. THE CONTRACTOR SHALL MAINTAIN ADEQUATE COMMUNICATION WITH THE PROJECT MANAGER AT ALL TIMES.
8. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS OF ALL MATERIALS AND LABOR USED.
9. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS OF ALL TESTS AND INSPECTIONS.
10. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORDS OF ALL CHANGES TO THE ORIGINAL DESIGN.

ISSUE OF REVISION		DATE	
NO. 1	REVISION	DATE	
NO. 2	REVISION	DATE	
NO. 3	REVISION	DATE	
NO. 4	REVISION	DATE	
NO. 5	REVISION	DATE	
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NO. 10	REVISION	DATE	

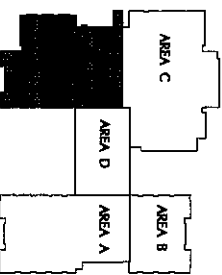
JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION	
555 JOPPA FARM ROAD JOPPATOWNE, MARYLAND 21085	

MARCOS COUNTY PUBLIC SCHOOLS	
JOPPATOWNE HIGH SCHOOL	
1000 JOPPA FARM ROAD JOPPATOWNE, MARYLAND 21085	

SCALE: AS SHOWN	
HEATING WATER PIPING RISER DIAGRAM	
DATE: 04/17/2020	
DRAWN BY: [Name]	
CHECKED BY: [Name]	
APPROVED BY: [Name]	
PROJECT NO.: [Number]	
SHEET NO.: [Number]	



MAIN LEVEL FLOOR PLAN - AREA E - HVAC EXISTING CONDITIONS AND DEMOLITION



GENERAL NOTES:

- ALL EXISTING CONDITIONS SHOWN ARE BASED ON FIELD SURVEY AND AS-BUILT RECORDS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION.
- ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH THE MARYLAND DEPARTMENT OF GENERAL SERVICES (DGS) GUIDELINES FOR THE DISPOSAL OF SCHOOL BUILDING MATERIALS.
- ALL NEW CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE AND ALL APPLICABLE ORDINANCES.
- ALL UTILITIES SHALL BE LOCATED AND DEPTH MARKED PRIOR TO CONSTRUCTION.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL SAFETY MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL MATERIALS SHALL BE STORED AND HANDLED IN ACCORDANCE WITH THE MARYLAND DEPARTMENT OF GENERAL SERVICES (DGS) GUIDELINES FOR THE DISPOSAL OF SCHOOL BUILDING MATERIALS.
- ALL MATERIALS SHALL BE STORED AND HANDLED IN ACCORDANCE WITH THE MARYLAND DEPARTMENT OF GENERAL SERVICES (DGS) GUIDELINES FOR THE DISPOSAL OF SCHOOL BUILDING MATERIALS.
- ALL MATERIALS SHALL BE STORED AND HANDLED IN ACCORDANCE WITH THE MARYLAND DEPARTMENT OF GENERAL SERVICES (DGS) GUIDELINES FOR THE DISPOSAL OF SCHOOL BUILDING MATERIALS.

ISSUE OF REVISION		DATE
NO.	DESCRIPTION	DATE
1	ISSUE OF REVISION	05/05/00
2	ISSUE OF REVISION	05/05/00
3	ISSUE OF REVISION	05/05/00
4	ISSUE OF REVISION	05/05/00
5	ISSUE OF REVISION	05/05/00
6	ISSUE OF REVISION	05/05/00
7	ISSUE OF REVISION	05/05/00
8	ISSUE OF REVISION	05/05/00
9	ISSUE OF REVISION	05/05/00
10	ISSUE OF REVISION	05/05/00

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085



**HARFORD COUNTY
PUBLIC SCHOOLS**

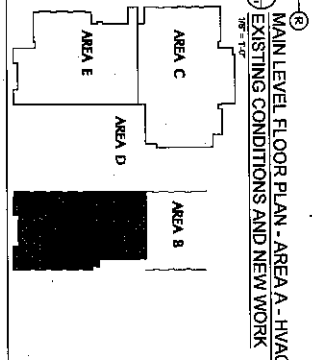
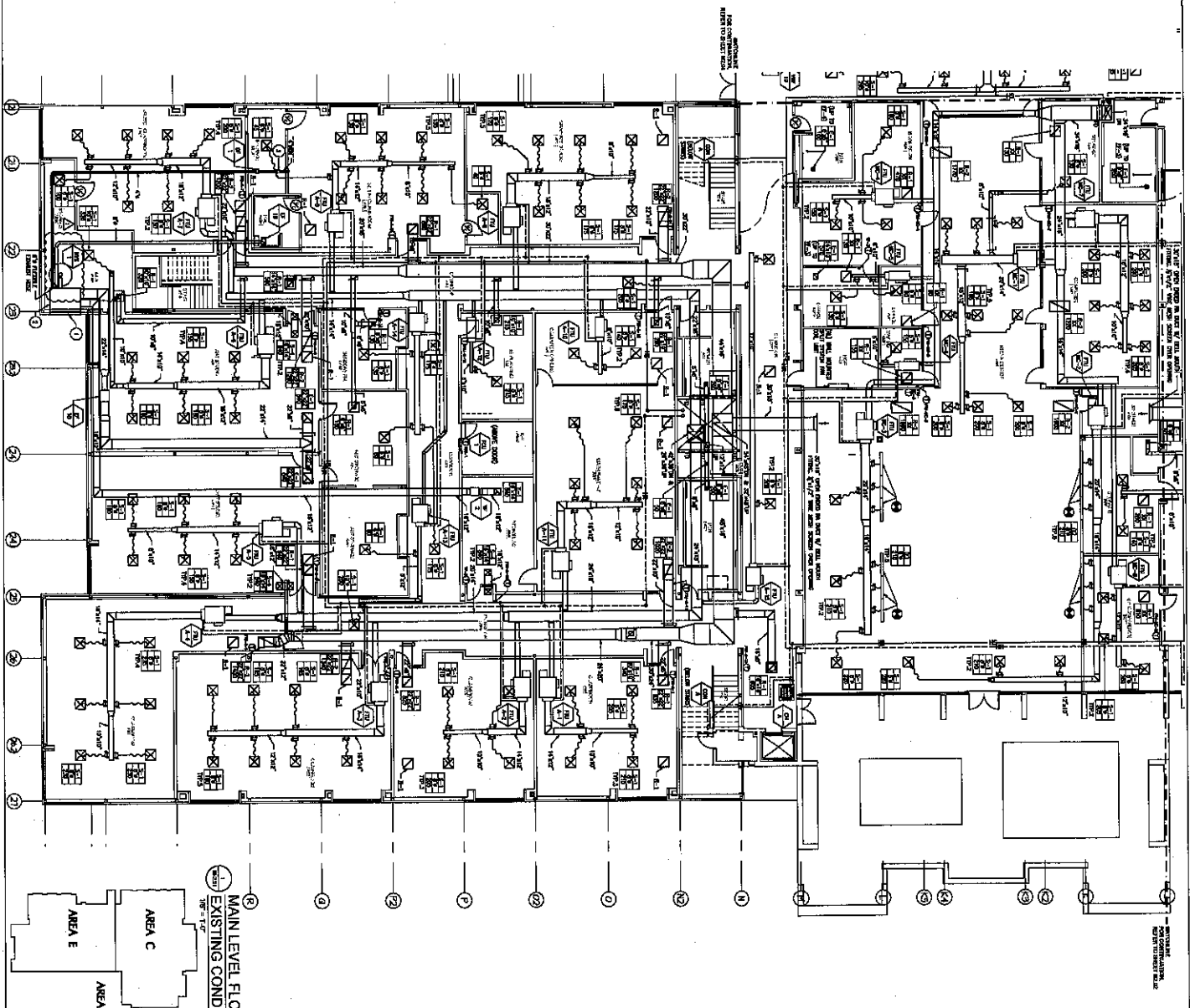
100 SOUTH HANCOCK AVENUE
BALTIMORE, MARYLAND 21206

PROJECT TITLE:
MAIN LEVEL FLOOR
PLAN - AREA E -
HVAC EXISTING
CONDITIONS
AND DEMOLITION

SCALE: AS SHOWN

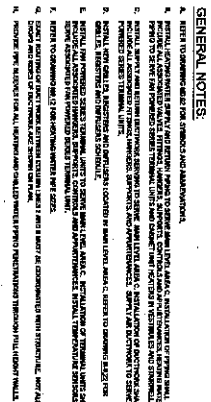
PREPARED BY:
BCA
10011 Harford Drive, Suite 200
Baltimore, MD 21206
Tel: 410.528.1000
Fax: 410.528.1001

BCA	
Baird Corporation	
10011 Harford Drive, Suite 200	
Baltimore, MD 21206	
Tel: 410.528.1000	
Fax: 410.528.1001	
DATE: 05-05-00	
PROJECT NUMBER: M105	
BY: [Signature]	
CHECKED: [Signature]	

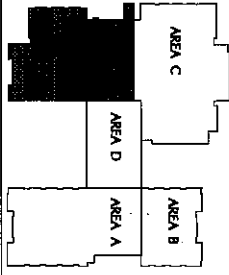
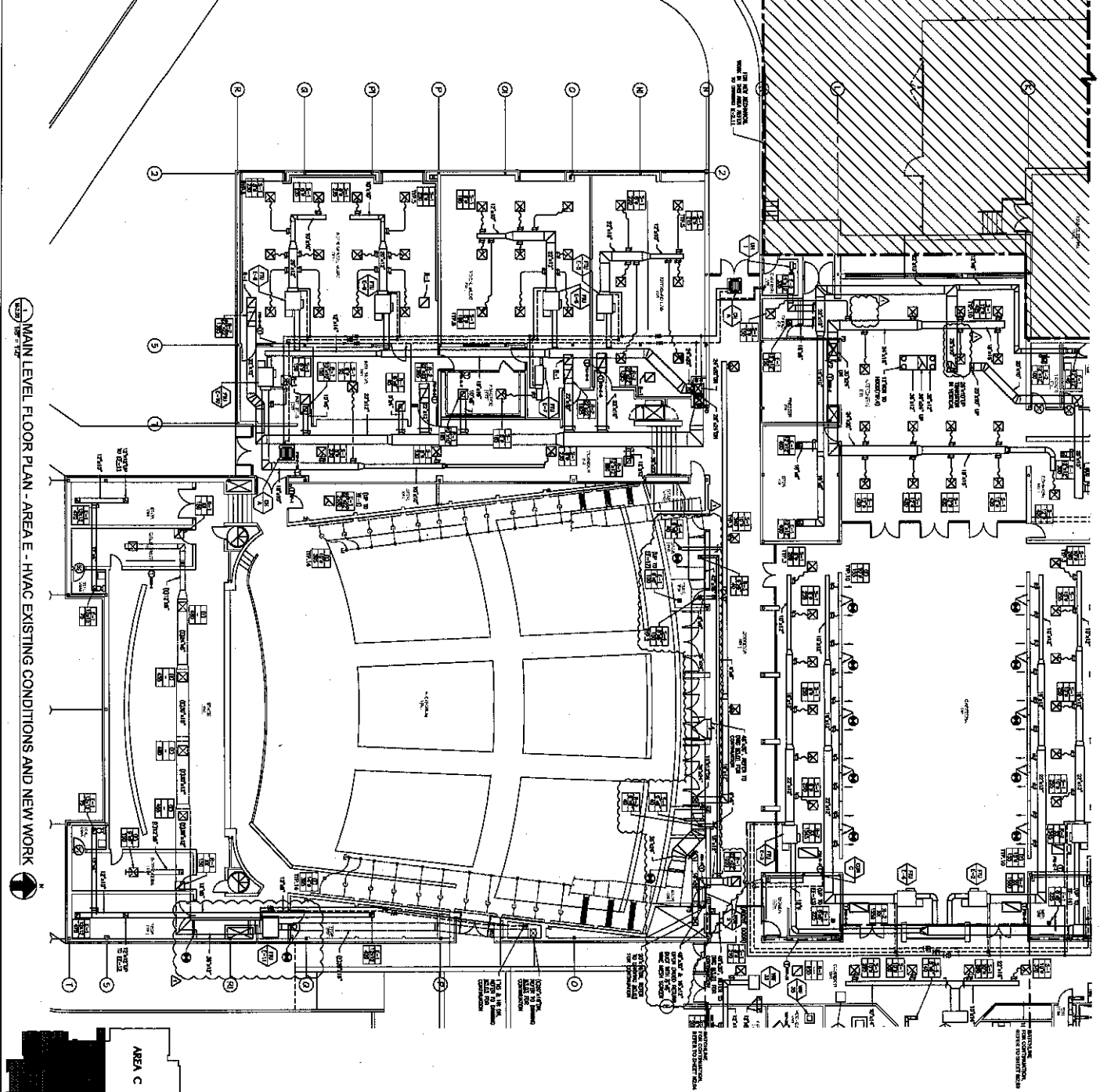


- GENERAL NOTES**
1. SEE ALL DIMENSIONS FOR NEW WORK.
 2. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE AND THE MARYLAND MECHANICAL CODE.
 3. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND ELECTRICAL CODE AND THE MARYLAND PLUMBING CODE.
 4. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND FIRE CODE AND THE MARYLAND SAFETY CODE.
 5. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND ENVIRONMENTAL CODE AND THE MARYLAND HISTORIC PRESERVATION CODE.
 6. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND LANDSCAPE ARCHITECTURE CODE AND THE MARYLAND TRAFFIC CODE.
 7. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND AIR POLLUTION CODE AND THE MARYLAND CLIMATE CHANGE CODE.
 8. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND WATER RESOURCES CODE AND THE MARYLAND WASTE MANAGEMENT CODE.
 9. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND ENERGY CODE AND THE MARYLAND SUSTAINABLE DEVELOPMENT CODE.
 10. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND TRANSPORTATION CODE AND THE MARYLAND INFRASTRUCTURE CODE.
- DRAWING NOTES**
1. SEE ALL DIMENSIONS FOR NEW WORK.
 2. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE AND THE MARYLAND MECHANICAL CODE.
 3. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND ELECTRICAL CODE AND THE MARYLAND PLUMBING CODE.
 4. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND FIRE CODE AND THE MARYLAND SAFETY CODE.
 5. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND ENVIRONMENTAL CODE AND THE MARYLAND HISTORIC PRESERVATION CODE.
 6. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND LANDSCAPE ARCHITECTURE CODE AND THE MARYLAND TRAFFIC CODE.
 7. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND AIR POLLUTION CODE AND THE MARYLAND CLIMATE CHANGE CODE.
 8. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND WATER RESOURCES CODE AND THE MARYLAND WASTE MANAGEMENT CODE.
 9. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND ENERGY CODE AND THE MARYLAND SUSTAINABLE DEVELOPMENT CODE.
 10. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND TRANSPORTATION CODE AND THE MARYLAND INFRASTRUCTURE CODE.

ISSUE OF REVISION NO. 1 DATE 02/20/2020 BY J. CAMPBELL FOR J. CAMPBELL		ISSUE OF REVISION NO. 2 DATE 02/20/2020 BY J. CAMPBELL FOR J. CAMPBELL	
DATE OF REVISION 02/20/2020		DATE OF REVISION 02/20/2020	
PROJECT NUMBER M201		PROJECT NUMBER M201	
PROJECT NAME JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION		PROJECT NAME JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION	
PROJECT ADDRESS 555 JOPPA FARM ROAD JOPPATOWNE, MARYLAND 21085		PROJECT ADDRESS 555 JOPPA FARM ROAD JOPPATOWNE, MARYLAND 21085	
PROJECT OWNER HARFORD COUNTY PUBLIC SCHOOLS		PROJECT OWNER HARFORD COUNTY PUBLIC SCHOOLS	
PROJECT ARCHITECT BACA Banta Campbell ARCHITECTS, INC.		PROJECT ARCHITECT BACA Banta Campbell ARCHITECTS, INC.	
PROJECT ENGINEER J. CAMPBELL		PROJECT ENGINEER J. CAMPBELL	



1. MAIN LEVEL FLOOR PLAN - AREA E - HVAC EXISTING CONDITIONS AND NEW WORK



- GENERAL NOTES:**
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE, MARYLAND ELECTRICAL CODE, AND MARYLAND MECHANICAL CODE.
 2. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE APPROVED BY THE ARCHITECT.
 3. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
 4. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED BUDGET.
 5. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED QUALITY STANDARDS.
 6. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED SAFETY STANDARDS.
 7. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED ENVIRONMENTAL STANDARDS.
 8. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED ACCESSIBILITY STANDARDS.
 9. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED HISTORIC PRESERVATION STANDARDS.
 10. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED ARCHITECTURAL STANDARDS.

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

NO.	DESCRIPTION	DATE
1	CO. SUBMISSION	06/20/20 </td
2	FINAL REVIEW	06/22/20
3	REVISED FOR BIDDING	06/23/20
4	ADDITIONAL NO. 2	06/24/20

**HARFORD COUNTY
PUBLIC SCHOOLS**

COMMERCIALS
HARFORD COUNTY
PUBLIC SCHOOLS
800 SOUTH HENRIKSON AVENUE
BALTIMORE, MARYLAND 21206

BCA

BALTIMORE COUNTY
ARCHITECTURAL
FIRM

1000 BALTIMORE AVENUE, SUITE 200
BALTIMORE, MARYLAND 21201
410.552.1234
www.bcaarchitect.com

DATE: 06/22/2020

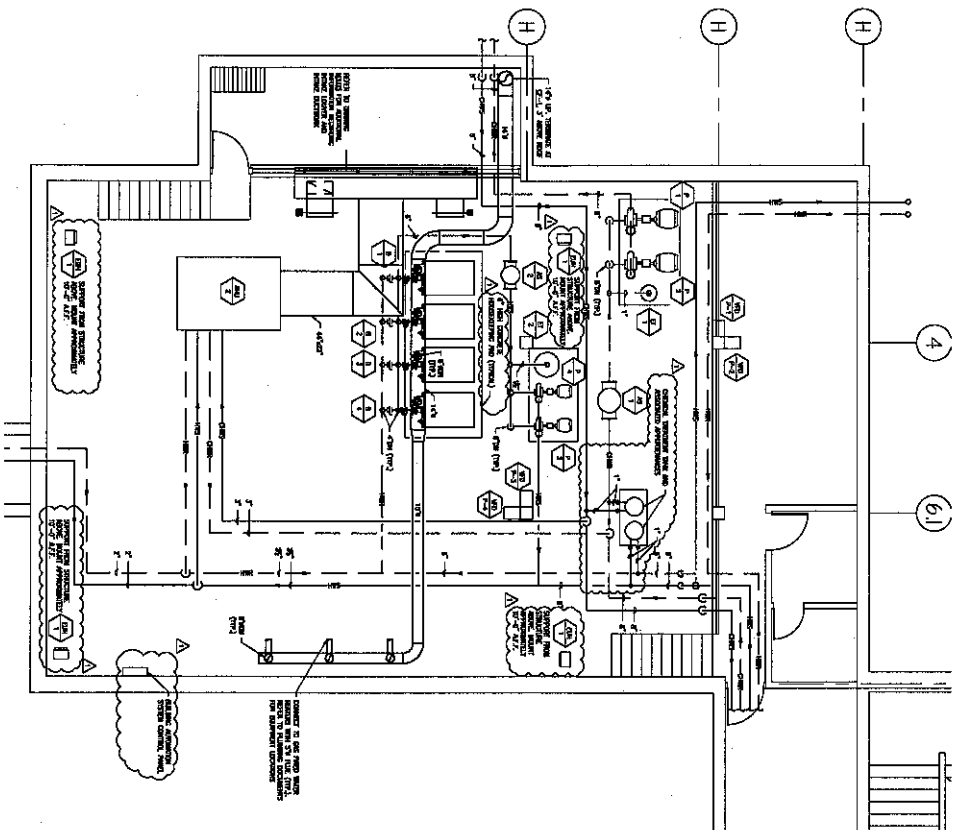
PROJECT NAME: JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

SCALE: AS SHOWN

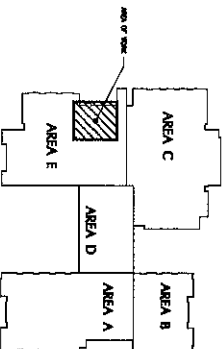
PROJECT TITLE: MAIN LEVEL FLOOR PLAN - AREA E - HVAC EX. COND. & NEW WORK

PROJECT NO.: M205

1.0 BOILER ROOM PART PLAN - HVAC EXISTING CONDITIONS AND NEW WORK



- GENERAL NOTES:**
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE AND ALL APPLICABLE LOCAL ORDINANCES.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
 3. ALL MATERIALS AND EQUIPMENT SHALL BE OF THE HIGHEST QUALITY AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES THAT MAY BE AFFECTED BY THE WORK.
 5. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE AGENCY.



NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	06/20/20
2	ISSUED FOR BIDDING	06/20/20
3	ISSUED FOR CONSTRUCTION	06/20/20
4	ISSUED FOR COMPLETION	06/20/20

JOPPATOWNE
PUBLIC SCHOOLS
PSC NO. 12.046 KLP
BALA/SEA

JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085



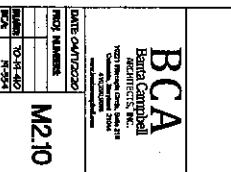
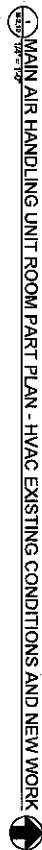
CONSULTANT:
HARFORD COUNTY
PUBLIC SCHOOLS
555 JOPPA FARM ROAD
JOPPATOWNE, MD 21085

SHEET TITLE:
BOILER ROOM PART
PLAN - HVAC EX-
ISTING AND NEW
WORK
SCALE: AS SHOWN

BCA
BUILDING CONSULTANTS
OF ANNE ARUNDEL COUNTY, INC.

DATE: 06/17/2020
NO.: M2.09

NO.	REVISION	DATE
1	ISSUED FOR PERMIT	06/20/20
2	ISSUED FOR BIDDING	06/20/20
3	ISSUED FOR CONSTRUCTION	06/20/20
4	ISSUED FOR COMPLETION	06/20/20



ISSUE OF REVISION:	
NO.	DATE
CD SUBMISSION	02/05/2020
FINAL REVIEW	04/02/2020
RELEASE FOR PRINTING	04/07/2020

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085



HARFORD COUNTY
PUBLIC SCHOOLS

OWNER/DEVELOPER:
HARTFORD COUNTY
PUBLIC SCHOOLS
102 SOUTH HICKORY AVENUE
BELL AIR, MARYLAND 21018

MAIN AIR HANDLING
UNIT ROOM PART
PLAN - HVAC EX.
COND. & NEW WORK
SCALE: AS SHOWN

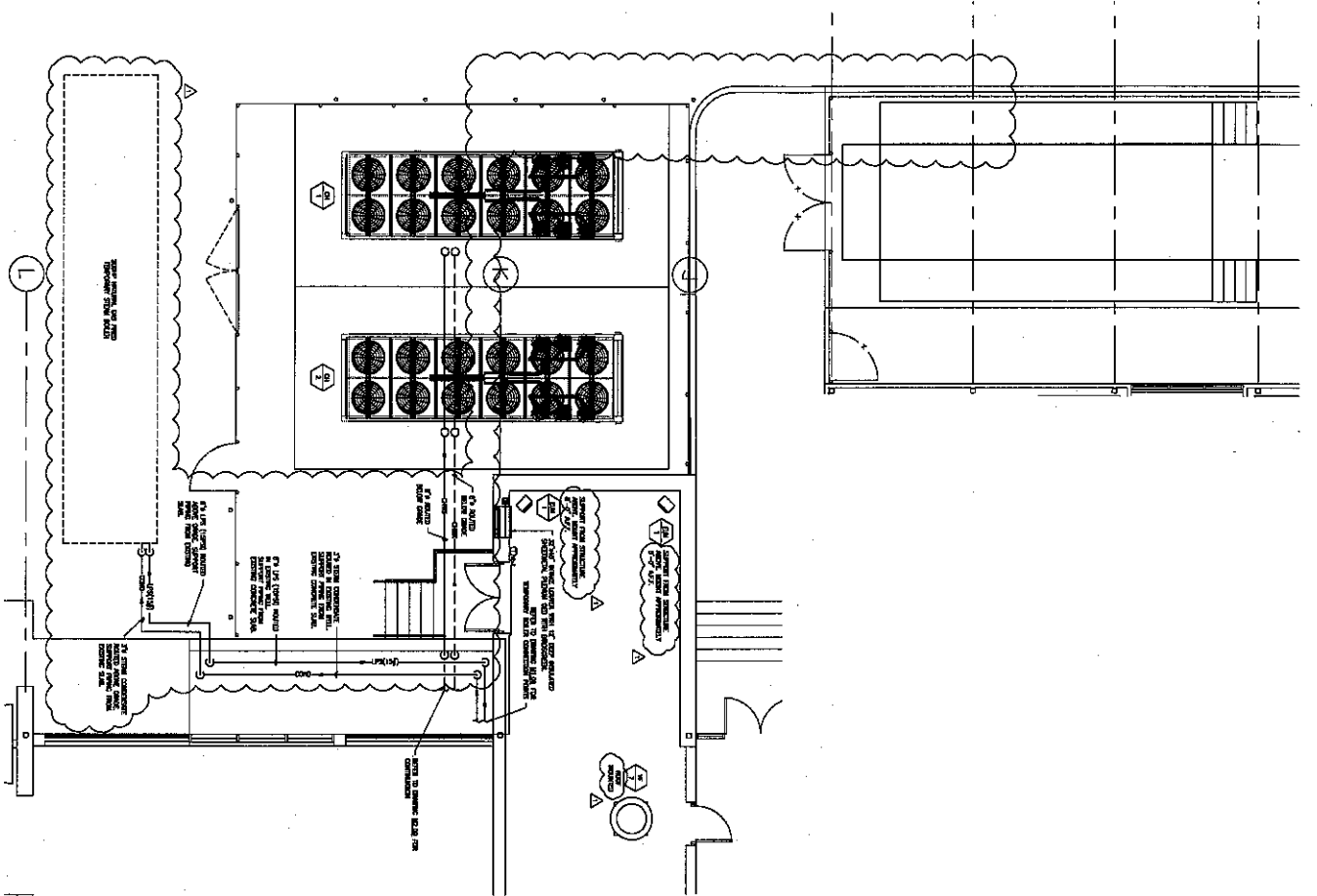
PROFESSIONAL CERTIFICATE
I hereby declare that the above is a true and correct copy of the original as shown to me and that I am not a duly licensed engineer under the laws of the State of Maryland. I signed this certificate on the _____ day of _____, 19____.
Name: _____ Title: _____

BCA
Barbara Campbell

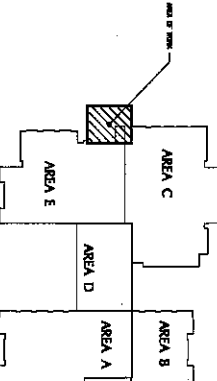
ARCHITECTS, INC.
70221 Princeton Circle, Suite 210
Columbia, Maryland 21046
410.234.0000
www.bucknagel.com

PROJ. NUMBER	

M2.10



CHILLER YARD PART PLAN - HVAC NEW WORK



- GENERAL NOTES:**
1. REFER TO SHEET 12046-100 FOR ALL NOTES.
 2. CONSTRUCTION BY THE OWNER IS THE RESPONSIBILITY OF THE OWNER.
 3. THE OWNER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE CHILLER YARD.
 4. THE OWNER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE CHILLER YARD.
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NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	04/20/20
2	ISSUED FOR PERMIT	04/20/20
3	ISSUED FOR PERMIT	04/20/20
4	ISSUED FOR PERMIT	04/20/20
5	ISSUED FOR PERMIT	04/20/20
6	ISSUED FOR PERMIT	04/20/20
7	ISSUED FOR PERMIT	04/20/20
8	ISSUED FOR PERMIT	04/20/20
9	ISSUED FOR PERMIT	04/20/20
10	ISSUED FOR PERMIT	04/20/20

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085



OWNER/CLIENT:
HARFORD COUNTY
PUBLIC SCHOOLS
555 JOPPA FARM ROAD
JOPPATOWNE, MD 21085

SHEET TITLE:
CHILLER YARD
PART PLAN - HVAC
NEW WORK

DATE: 04/20/20

BCA
Bentley Campbell
ARCHITECTS, INC.
1000 E. JEFFERSON STREET
JOPPATOWNE, MD 21085

DATE: 04/20/20

PROJECT NO.: M2.11

[illegible]

OPERATION THE

PSC NO. 12.046.16L

BALSA SWA
CONDOMINIUMS

6000 York Road, York, Ontario
Call: 416-490-1000
Fax: 416-490-1001
Tel: 416-490-1000
Fax: 416-490-1001

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HARTFORD COUNTY
PUBLIC SCHOOLS

01/06/2017 10:08:08

HARTFORD COUNTY
PUBLIC SCHOOLS

102 SOUTH HICKORY AVENUE
DELL AVE, HARTLAND 53030

SHEET TITLE
ROOF PLAN -

HVAC NEW YORK

SCALE AS SHOWN

PROFESSIONAL CERTIFICATION

THE JOURNAL OF THE

100

BCA

DLCA
Banta Campbell

ARCHITECTS, INC.
70271 Wrentham Drive, Suite 218
Columbia, Maryland 21044
(410) 326-0000

DATE QUANTIZED	www.burleson.org
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PROJ NUMBER	
M-301	

70-14-410	
70-14-410	
70-14-410	

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPTOWNE, MARYLAND 21085



HARRIS COUNTY
PUBLIC SCHOOLS

OWNER/DEVELOPER:
HARTFORD COUNTY
PUBLIC SCHOOLS
103 SOUTH HICKORY AVENUE
DELAIR, MARYLAND 21034

SCALE AS SHOWN

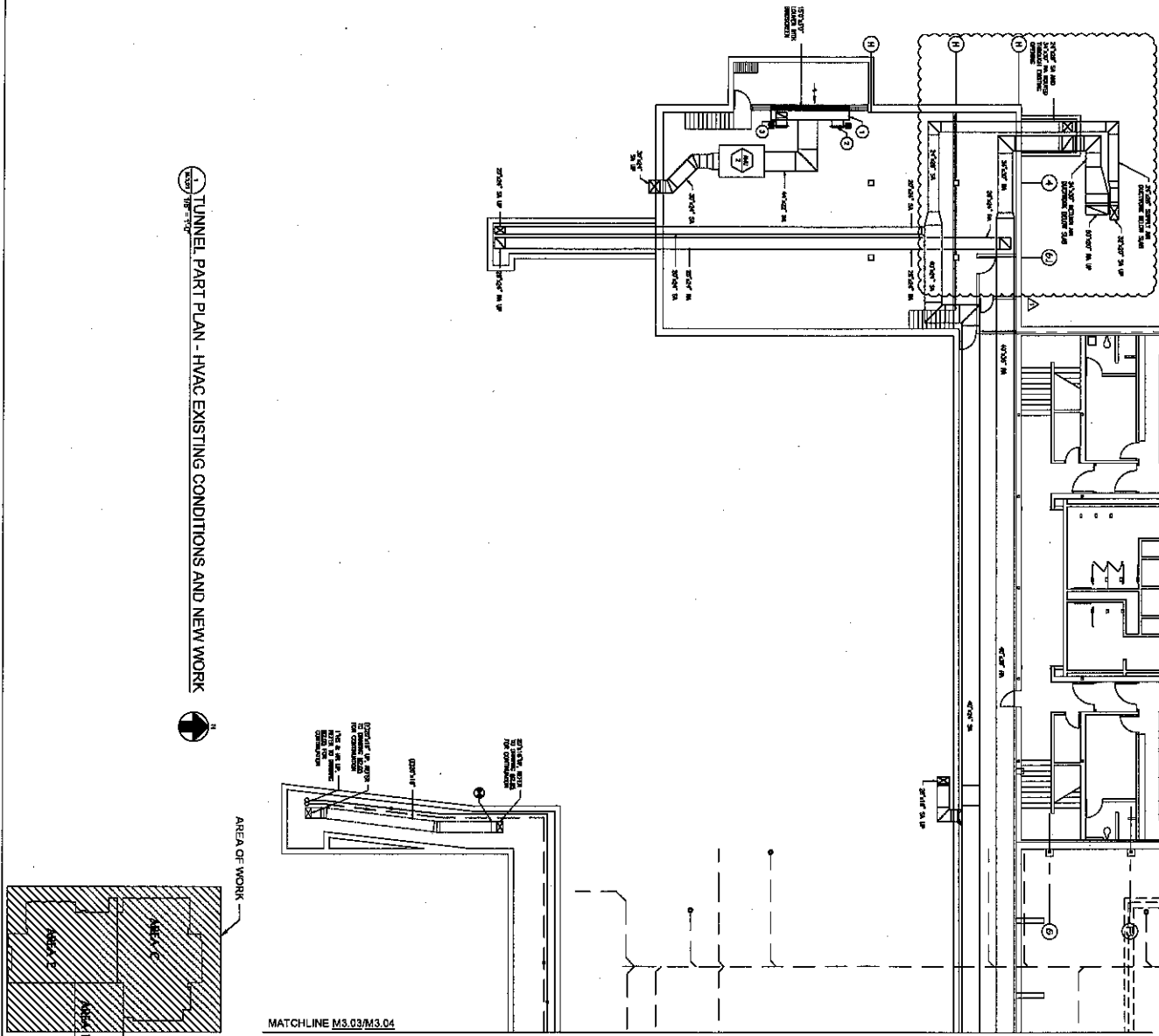
PROFESSIONAL CERTIFICATION

I hereby declare that these drawings were prepared or supervised by me and that I am a duly Licensed Professional Engineer in the State of New York. License No. 100863 Expires 12/31/2011

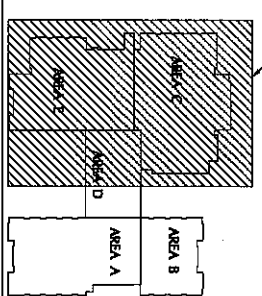
BCA	
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Banta Campbell
ARCHITECTS, INC.
7021 Westgate Circle, Suite 200
Columbia, Maryland 21046
410.727.0200
www.bantacampbell.com

		M-3.07
BASIS	TQ-R-AIO	
RUN	N-204	



TUNNEL PART PLAN - HVAC EXISTING CONDITIONS AND NEW WORK



- GENERAL NOTES:**
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE AND THE MARYLAND MECHANICAL CODE.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
 3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND STRUCTURES AT ALL TIMES.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES AND UTILITIES.
 5. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SAFETY MEASURES AT ALL TIMES.
- DRAWING NOTES:**
1. ALL DIMENSIONS ARE IN FEET AND INCHES.
 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND BUILDING CODE AND THE MARYLAND MECHANICAL CODE.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
 4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING UTILITIES AND STRUCTURES AT ALL TIMES.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES AND UTILITIES.
 6. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SAFETY MEASURES AT ALL TIMES.

ISSUE OF REVISION NO. DESCRIPTION DATE 1.0 SUBMISSION 02/20/20 2.0 FINAL REVIEW 04/20/20 3.0 PRELIMINARY FOR BIDDING 04/20/20 4.0 APPROVAL NO. 2 04/20/20		PROJECT INFORMATION PROJECT NO. 12046.18/P BALTIMORE JOPPTOWNE HIGH SCHOOL LIMITED RENOVATION 555 JOPPA FARM ROAD JOPPTOWNE, MARYLAND 21085		OWNER/CLIENT HARFORD COUNTY PUBLIC SCHOOLS 122 NORTH HANCOCK AVENUE BALTIMORE, MARYLAND 21201		DESIGNER BCA 14011 WOODBURN AVENUE, SUITE 200 BALTIMORE, MARYLAND 21206 410.526.0000 www.bcafirm.com		DATE OF DRAWING 04/20/20 PROJECT NUMBER M-303	
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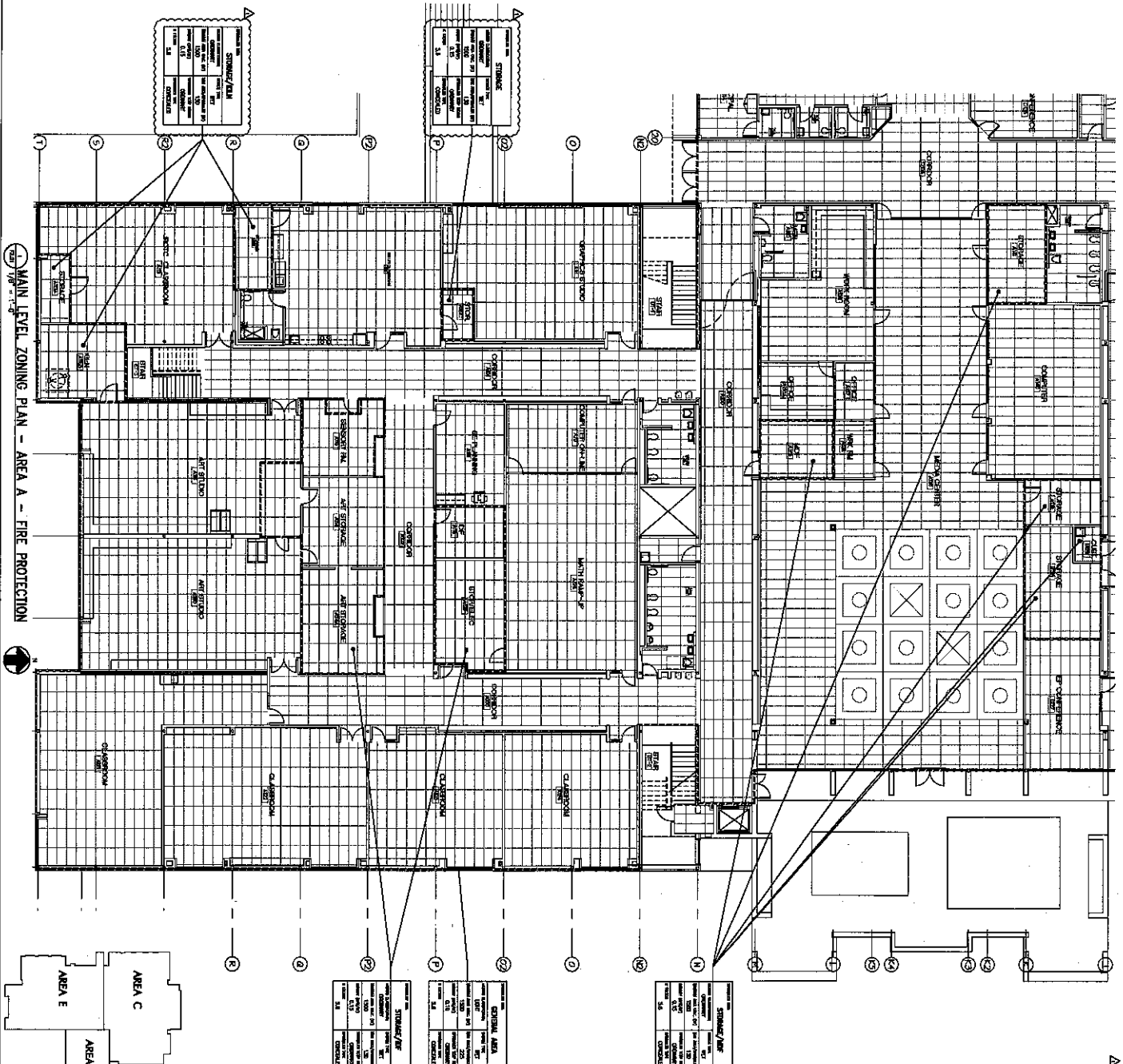
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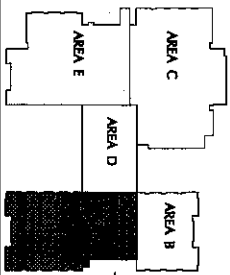
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- ② STAFFED ON STRUCTURE ABOVE
- ③ CONCRETE IN COLONG SPACE, BELOW FLOOR
- ④ STAFFED ON STRUCTURE, BELOW FLOOR
- ⑤ BELOW GROUND
- ⑥ ROCK OR WALL, BELOW CANTERS TOP
- ⑦ ABOVE FLOOR
- ⑧ MAIN TRENCHES OR RETURN RUN JOINT
- ⑨ CONCRETE BELOW WARED FLOOR

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F-152					



MAIN LEVEL ZONING PLAN - AREA A - FIRE PROTECTION



GENERAL NOTES	
1.	ALL DIMENSIONS SHOWN ARE IN FEET AND INCHES. DIMENSIONS SHALL BE GIVEN TO THE CENTER OF THE ROOM OR TO THE CENTER OF THE WALL, UNLESS OTHERWISE NOTED.
2.	ALL DIMENSIONS SHALL BE GIVEN TO THE CENTER OF THE ROOM OR TO THE CENTER OF THE WALL, UNLESS OTHERWISE NOTED.
3.	ALL DIMENSIONS SHALL BE GIVEN TO THE CENTER OF THE ROOM OR TO THE CENTER OF THE WALL, UNLESS OTHERWISE NOTED.
4.	ALL DIMENSIONS SHALL BE GIVEN TO THE CENTER OF THE ROOM OR TO THE CENTER OF THE WALL, UNLESS OTHERWISE NOTED.
5.	ALL DIMENSIONS SHALL BE GIVEN TO THE CENTER OF THE ROOM OR TO THE CENTER OF THE WALL, UNLESS OTHERWISE NOTED.

BCA
Baltimore County
Department of Planning
100 North Howard Avenue
Columbia, Maryland 21046
Tel: 410-326-7700
Fax: 410-326-7701

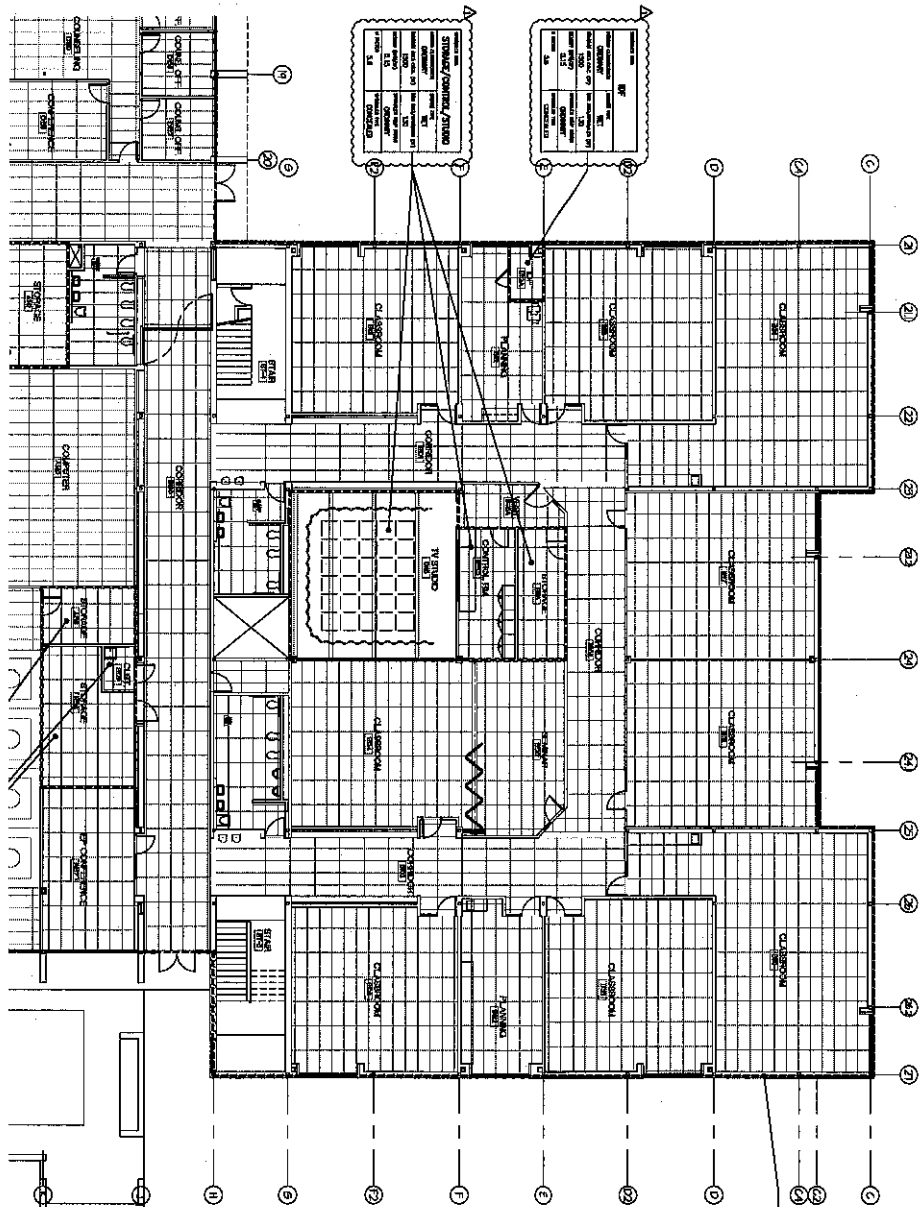
DATE: 01/20/2000
PROJECT: F201
SCALE: AS SHOWN

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

ISSUE OR REVISION

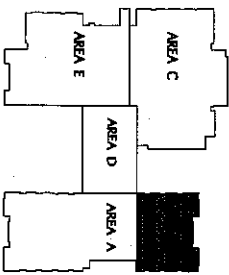
NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	01/20/2000
2	FINAL DESIGN	01/20/2000
3	REVISION FOR PERMIT	01/20/2000
4	REVISION FOR PERMIT	01/20/2000



1. MAIN LEVEL ZONING PLAN - AREA B - FIRE PROTECTION

GENERAL NOTES	
1.	NO EXISTING STRUCTURE SHALL BE DEMOLISHED UNLESS SPECIFICALLY NOTED OTHERWISE.
2.	ALL NEW CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE LATEST EDITION OF THE INTERNATIONAL FIRE CODE (IFC).
3.	ALL NEW CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE (IMC).
4.	ALL NEW CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING AND HEATING CODE (IPHC).
5.	ALL NEW CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL ELECTRICAL CODE (IEC).

GENERAL DATA	
DATE	10/1/2020
BY	J. SMITH
PROJECT NO.	12046.RLP
CLIENT	BALAI SPA
LOCATION	555 JOPPA FARM ROAD, JOPPATOWNE, MD 21085



JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085



OWNER/CLIENT:
HARFORD COUNTY
PUBLIC SCHOOLS
100 SOUTH HANCOCK AVENUE
JOPPATOWNE, MD 21085

SHEET TITLE:
MAIN LEVEL ZONING
PLAN - AREA B -
FIRE PROTECTION

SCALE: AS SHOWN
DATE: 10/1/2020
BY: J. SMITH

BCA

Benji Campbell
ARCHITECTS, INC.
1000 W. JOPPA FARM ROAD
JOPPATOWNE, MD 21085
410.221.1234

DATE: 10/1/2020
PROJECT NO.: F202
SHEET NO.: 10-1-10

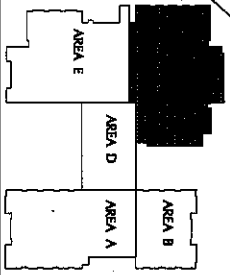
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4.	ISSUE OF REVISION
5.	ISSUE OF REVISION

STORAGE	AREA	NO.	QTY.	UNIT	REMARKS
1	STORAGE	1	1	1	1
2	STORAGE	2	2	2	2
3	STORAGE	3	3	3	3
4	STORAGE	4	4	4	4
5	STORAGE	5	5	5	5
6	STORAGE	6	6	6	6
7	STORAGE	7	7	7	7
8	STORAGE	8	8	8	8
9	STORAGE	9	9	9	9
10	STORAGE	10	10	10	10
11	STORAGE	11	11	11	11
12	STORAGE	12	12	12	12
13	STORAGE	13	13	13	13
14	STORAGE	14	14	14	14
15	STORAGE	15	15	15	15
16	STORAGE	16	16	16	16
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34	STORAGE	34	34	34	34
35	STORAGE	35	35	35	35
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37	STORAGE	37	37	37	37
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40	STORAGE	40	40	40	40
41	STORAGE	41	41	41	41
42	STORAGE	42	42	42	42
43	STORAGE	43	43	43	43
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45	STORAGE	45	45	45	45
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72	STORAGE	72	72	72	72
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96	STORAGE	96	96	96	96
97	STORAGE	97	97	97	97
98	STORAGE	98	98	98	98
99	STORAGE	99	99	99	99
100	STORAGE	100	100	100	100

MAIN LEVEL ZONING PLAN - AREA C - FIRE PROTECTION



STORAGE	AREA	NO.	QTY.	UNIT	REMARKS
1	STORAGE	1	1	1	1
2	STORAGE	2	2	2	2
3	STORAGE	3	3	3	3
4	STORAGE	4	4	4	4
5	STORAGE	5	5	5	5
6	STORAGE	6	6	6	6
7	STORAGE	7	7	7	7
8	STORAGE	8	8	8	8
9	STORAGE	9	9	9	9
10	STORAGE	10	10	10	10
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14	STORAGE	14	14	14	14
15	STORAGE	15	15	15	15
16	STORAGE	16	16	16	16
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88	STORAGE	88	88	88	88
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93	STORAGE	93	93	93	93
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96	STORAGE	96	96	96	96
97	STORAGE	97	97	97	97
98	STORAGE	98	98	98	98
99	STORAGE	99	99	99	99
100	STORAGE	100	100	100	100



GENERAL NOTES	
1.	SEE PROJECT DOCUMENTS FOR SPECIFIC NOTES, PERMITS, AND REGULATIONS.
2.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND THE INTERNATIONAL FIREMARTIN CODE (IFC).
3.	ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AND SHALL BE APPROVED BY THE LOCAL FIRE DEPARTMENT.
4.	ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
5.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND THE INTERNATIONAL FIREMARTIN CODE (IFC).

BCA
Bentley Systems, Inc.
1000 Technology Center Drive
Savannah, GA 31406
404.279.4000
www.bentley.com

**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

ISSUE OF REVISION

NO.	DESCRIPTION	DATE
1	ISSUE OF REVISION	02/20/20
2	FINAL REVISION	02/20/20
3	RELEASE FOR BIDDING	02/20/20
4	ADDITION NO. 2	02/20/20

DATE CHANGED: 02/20/20

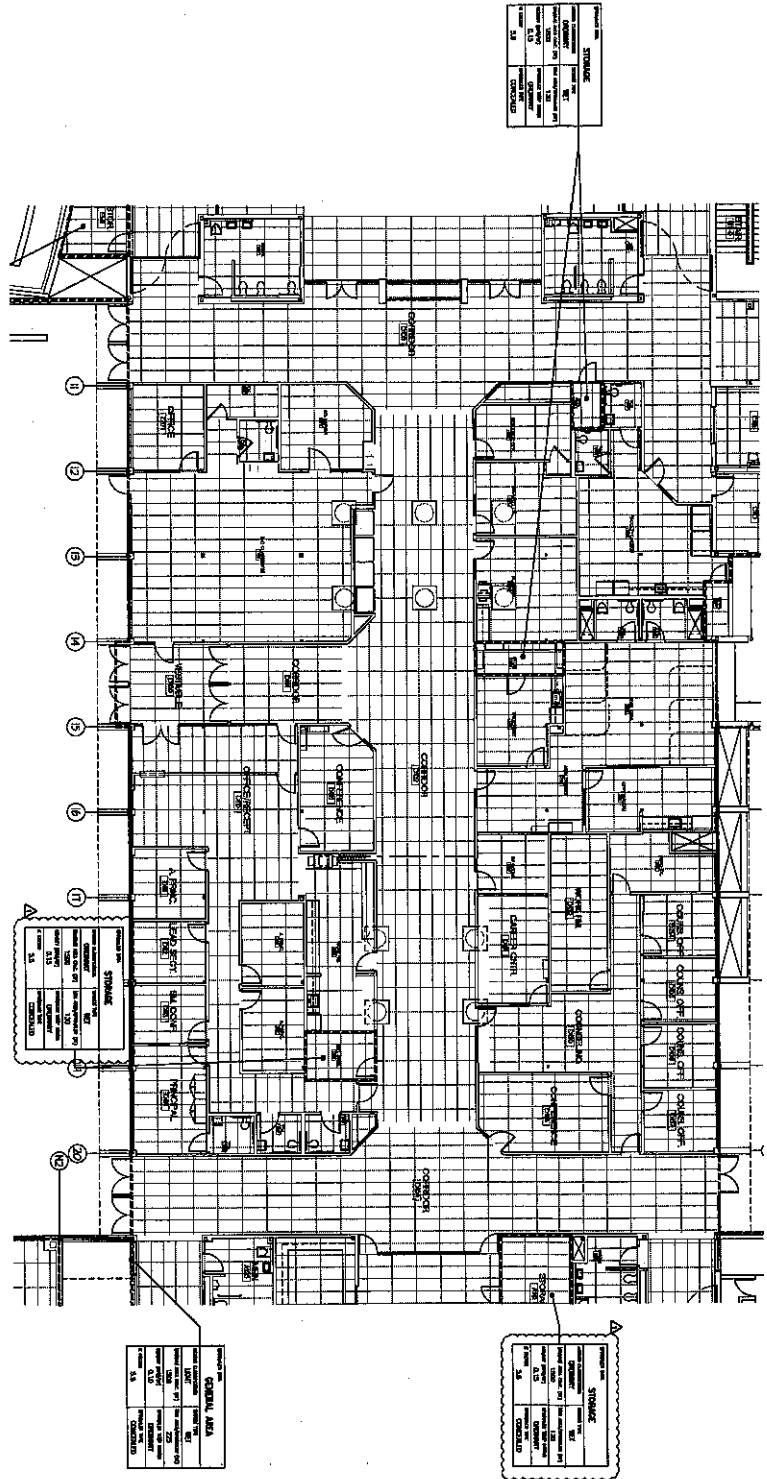
BY: F2.03

SCALE: AS SHOWN

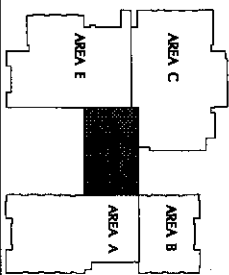
PROJECT: JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

DESIGNED BY: JOPPATOWNE HIGH SCHOOL

CHECKED BY: JOPPATOWNE HIGH SCHOOL

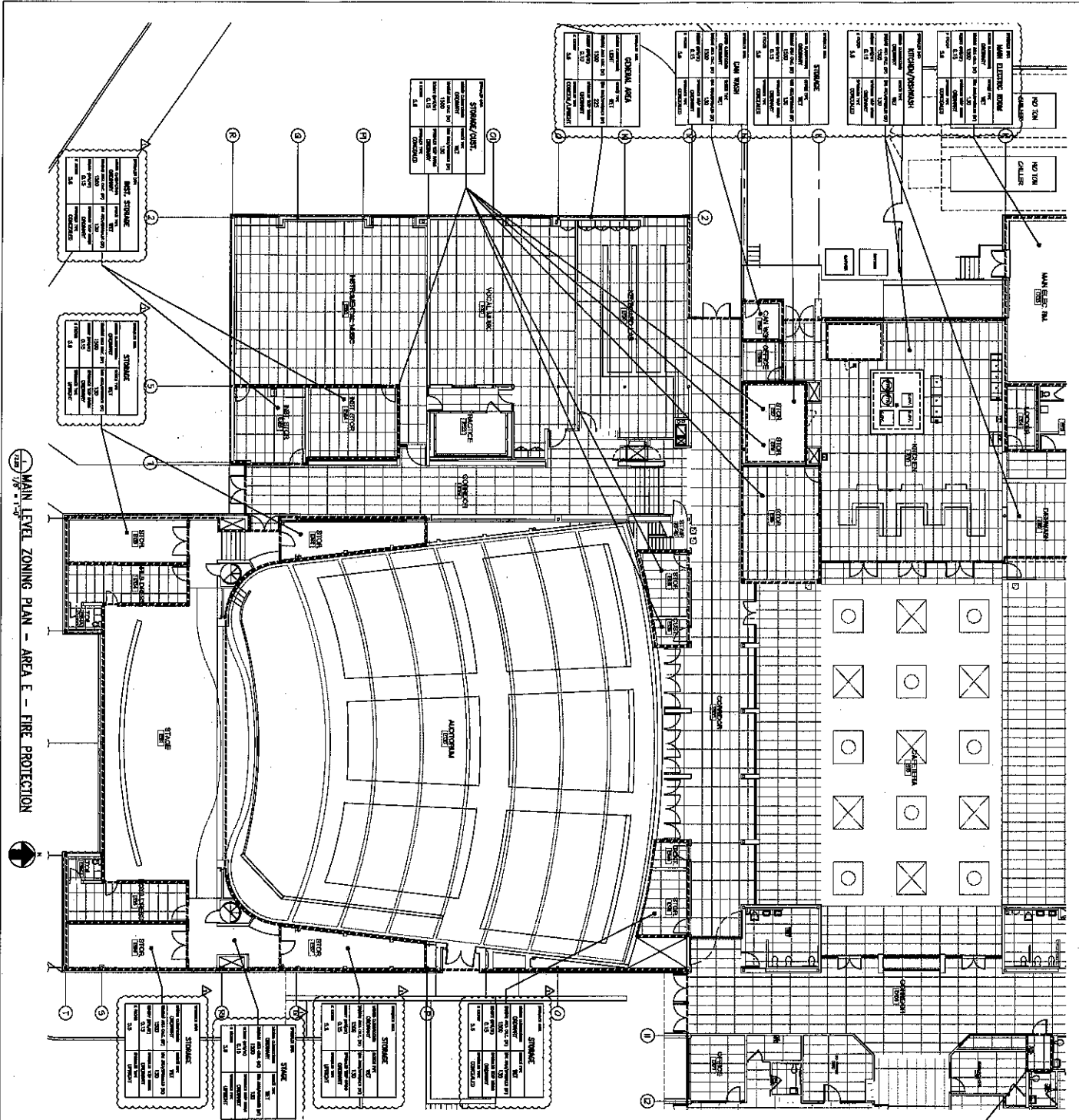


MAIN LEVEL ZONING PLAN - AREA D - FIRE PROTECTION

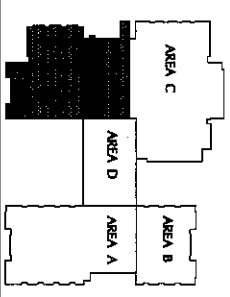


GENERAL NOTES	
1.	NO PORTION OF EXISTING OR NEW BUILDING SHALL BE USED FOR ANY OTHER PURPOSE THAN THAT FOR WHICH IT WAS DESIGNED.
2.	ALL NEW CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE LATEST EDITIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.
3.	ALL NEW CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN INSTITUTE OF ARCHITECTS (AIA) CODES.
4.	ALL NEW CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) CODES.
5.	ALL NEW CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN SOCIETY OF ELECTRICAL ENGINEERS (ASEE) CODES.

ISSUE or REVISION	
NO.	DATE
CO SUBMISSION	DRAFTED
FINAL REVIEW	OUTRATED
RELEASE FOR BIDDING	OUTRATED
ADDENDUM NO. 2	OUTRATED



MAIN LEVEL ZONING PLAN - AREA E - FIRE PROTECTION



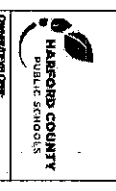
BCA
Barin Campbell
10000 Greenway Drive, Suite 200
Columbia, MD 21046
Tel: 410-326-1000
Fax: 410-326-1001

DATE: 04/17/2006
REV: 1
F205

CONTRACTOR:
HARFORD COUNTY
PUBLIC SCHOOLS
2000
2000

SHEET TITLE:
MAIN LEVEL ZONING
PLAN - AREA E -
FIRE PROTECTION

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



**JOPPATOWNE HIGH SCHOOL
LIMITED RENOVATION**

555 JOPPA FARM ROAD
JOPPATOWNE, MARYLAND 21085

JOPPATOWNE
PSC NO. 12046, R/P
BALA SPA

ISSUE OR REVISION	
NO.	DATE
1	04/17/2006
2	04/17/2006

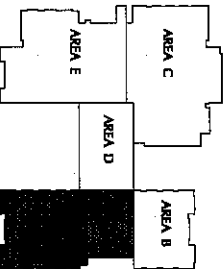
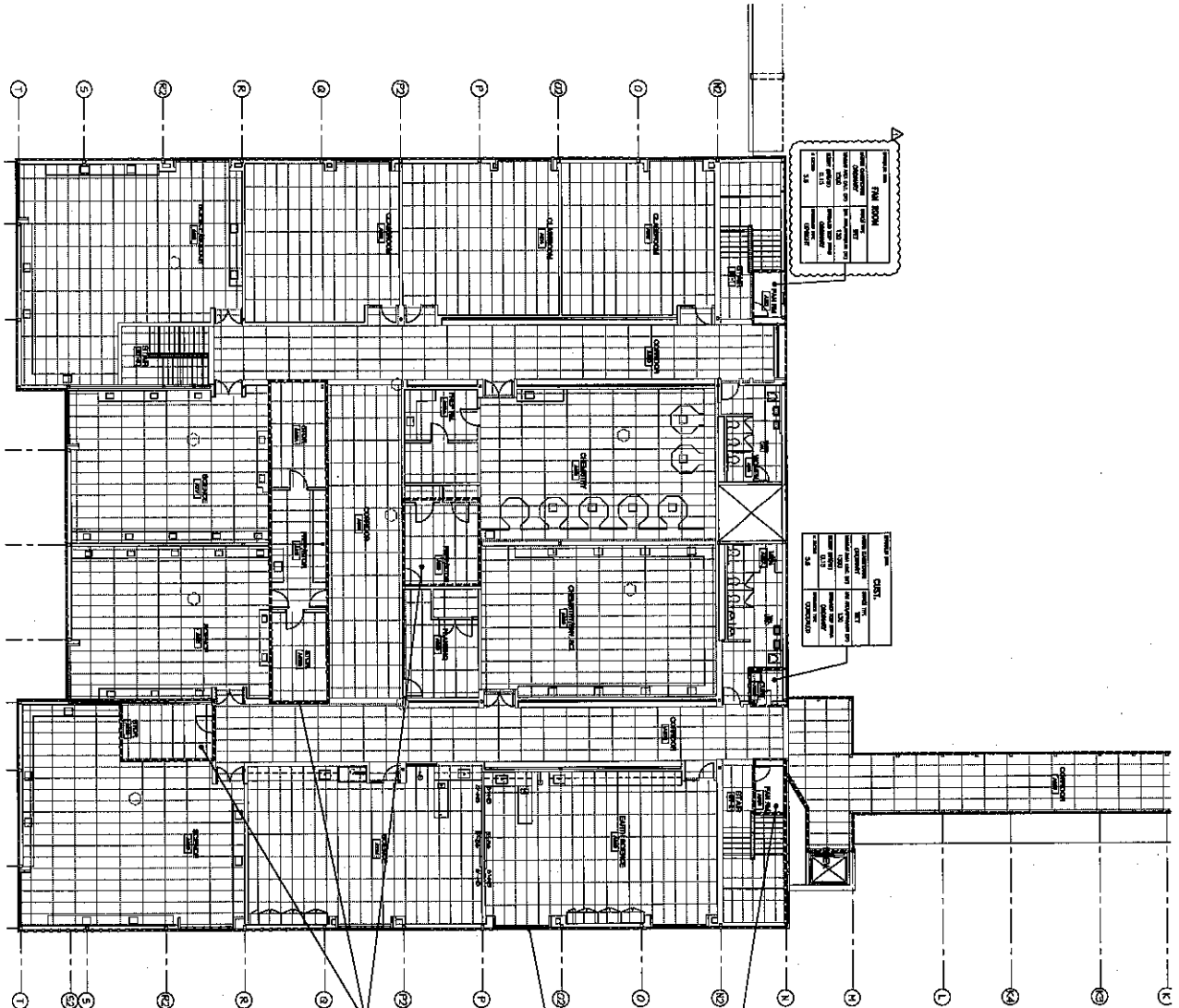
1. THE DESIGNER HAS REVIEWED THE PROJECT AND FOUND IT TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE JOPPATOWNE PSC NO. 12046, R/P. THE DESIGNER HAS REVIEWED THE PROJECT AND FOUND IT TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE JOPPATOWNE PSC NO. 12046, R/P.

GENERAL NOTES

1. THE DESIGNER HAS REVIEWED THE PROJECT AND FOUND IT TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE JOPPATOWNE PSC NO. 12046, R/P. THE DESIGNER HAS REVIEWED THE PROJECT AND FOUND IT TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE JOPPATOWNE PSC NO. 12046, R/P.

2. THE DESIGNER HAS REVIEWED THE PROJECT AND FOUND IT TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE JOPPATOWNE PSC NO. 12046, R/P. THE DESIGNER HAS REVIEWED THE PROJECT AND FOUND IT TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE JOPPATOWNE PSC NO. 12046, R/P.

UPPER LEVEL ZONING PLAN - AREA A - FIRE PROTECTION



GENERAL NOTES	
1.	THIS PLAN IS A PRELIMINARY DESIGN. IT IS NOT TO BE USED FOR CONSTRUCTION. THE FINAL DESIGN SHALL BE DETERMINED BY THE ARCHITECT AND THE FIRE DEPARTMENT.
2.	THE FIRE DEPARTMENT SHALL BE NOTIFIED OF ANY CHANGES TO THIS PLAN.
3.	THE FIRE DEPARTMENT SHALL BE NOTIFIED OF ANY CHANGES TO THIS PLAN.
4.	THE FIRE DEPARTMENT SHALL BE NOTIFIED OF ANY CHANGES TO THIS PLAN.

ISSUE OR REVISION	
NO.	DESCRIPTION
1	ISSUED FOR PERMITTING
2	ISSUED FOR PERMITTING
3	ISSUED FOR PERMITTING
4	ISSUED FOR PERMITTING

JOPPATOWNE
PSC NO. 12046.761P
BALASWA

JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION

555 JOPPA FARM ROAD
 JOPPATOWNE, MARYLAND 21085



HARFORD COUNTY
PUBLIC SCHOOLS
 100 SOUTH HIGGINS AVENUE
 BALTIMORE, MARYLAND 21206

UPPER LEVEL ZONING
FIRE PROTECTION
 SCALE: AS SHOWN
 PROJECT NO. 12046.761P
 DATE: 10/10/2012

BCA
 BUILDING CONSULTANTS ASSOCIATES, INC.
 10000 WOODBURN ROAD, SUITE 200
 WOODBURN, MARYLAND 21797
 (410) 230-0000

F206

GENERAL NOTES

1. THE ARCHITECT'S RESPONSIBILITY IS TO PROVIDE A DESIGN THAT COMPLIES WITH THE APPLICABLE CODES AND STANDARDS. THE ARCHITECT DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS.
2. THE ARCHITECT'S DESIGN IS BASED ON THE INFORMATION PROVIDED BY THE OWNER. THE ARCHITECT DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS.
3. THE ARCHITECT'S DESIGN IS BASED ON THE INFORMATION PROVIDED BY THE OWNER. THE ARCHITECT DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS.

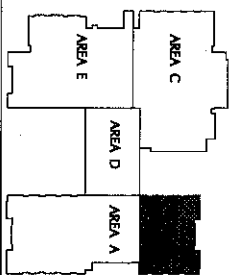
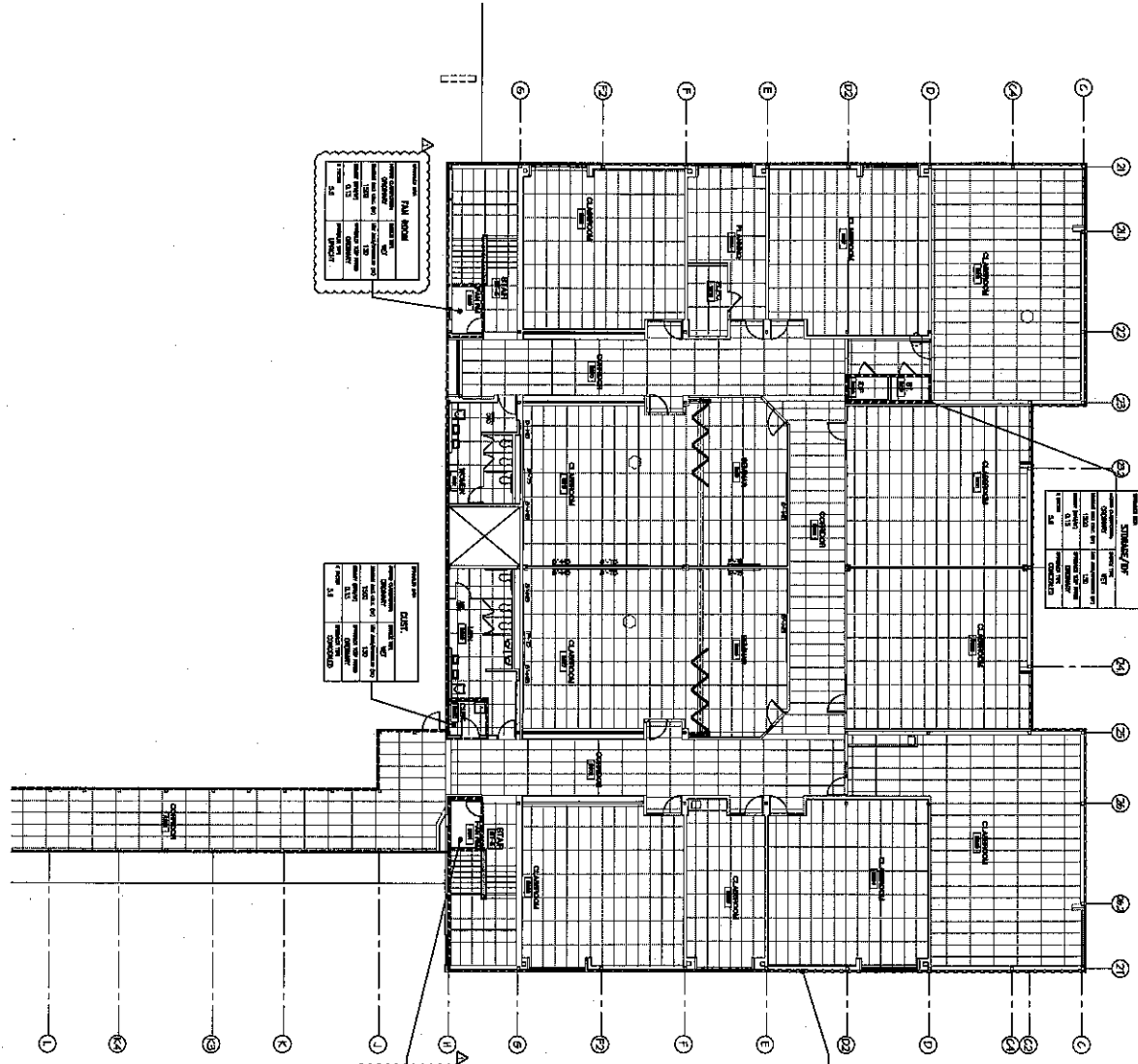
STAIRS	
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UPPER LEVEL ZONING PLAN - AREA B - FIRE PROTECTION



BCA Building Construction Associates, Inc. 10000 Joppa Farm Road Joppa, Maryland 21085 Phone: 410-436-1100 Fax: 410-436-1101 E-mail: bca@bca-inc.com		DATE 07/14/00 PROJECT F207 SCALE 1/8" = 1'-0"		CONTRACTOR HARBOR COUNTY PUBLIC SCHOOLS 100 SOUTH MICHIGAN AVENUE BALTIMORE, MD 21201		DESIGNER JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION 555 JOPPA FARM ROAD JOPPATOWNE, MARYLAND 21085		DATE 07/14/00 PROJECT F207 SCALE 1/8" = 1'-0"		CONTRACTOR HARBOR COUNTY PUBLIC SCHOOLS 100 SOUTH MICHIGAN AVENUE BALTIMORE, MD 21201		DESIGNER JOPPATOWNE HIGH SCHOOL LIMITED RENOVATION 555 JOPPA FARM ROAD JOPPATOWNE, MARYLAND 21085		DATE 07/14/00 PROJECT F207 SCALE 1/8" = 1'-0"	
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