

# NOTICE OF CHANGES, MODIFICATIONS, OR CLARIFICATIONS TO CONTRACT DOCUMENTS

The following changes, modifications, or clarifications are hereby incorporated and made an integral part of the Contract Documents. Unless clearly expressed otherwise by this Addendum, all terms and conditions defined in the original Contract Documents shall continue in full force and effect and shall have the same meaning in this Addendum.

- ITEM NO. 1: CHANGE TO KEY DATES None.
- ITEM NO. 2: REVISIONS TO BOOK 1 PBC INSTRUCTIONS TO BIDDERS None.

# ITEM NO. 3: REVISIONS TO BOOK 2 – PBC STANDARD TERMS AND CONDITIONS

**Change 1. REMOVE** Article 23 MBE/WBE Special Conditions, Section 23.012.b. in its entirety and **REPLACE WITH** "The contract specific goals for this project are 26% for MBE and 6% for WBE respectively'. (Page 127 of 163)

# CHANGES TO BUILDING RENOVATION (MCR)

# ITEM NO. 4: REVISIONS TO BOOK 3 – TECHNICAL SPECIFICATIONS – BUILDING RENOVATIONS (MCR)

- **Change 1.** The following Building Renovation Specifications are issued herewith:
  - a. **ISSUED** Section #23 09 21: Building Automation System Basic Materials and **REVISED** Section #00 01 10: Table of Contents.
- Change 2. The following Building Renovation Specifications are issued herewith:
  - a. **ISSUED** Section #09 67 25: Resinous Epoxy Flooring and **REVISED** Section #00 01 10: Table of Contents.
- **Change 3.** The following Building Renovation Specifications are revised and issued herewith: a. **REVISED** Section #26 43 00: Gutter Heat Tracing.

# ITEM NO. 5: REVISIONS TO DRAWINGS – BUILDING RENOVATIONS (MCR)

Change 1. The following Building Renovation Drawings are issued herewith, dated April 12, 2017:

- a. ISSUED Drawing No. M3.3, Mechanical Schedules.
- b. **ISSUED** Drawing No. M3.4, Mechanical Schedules.

- **Change 2.** The following Building Renovation Drawings are revised and issued herewith, dated April 12, 2017:
  - a. **REVISED** Drawing No. A4.0, ROOF DEMOLITION PLAN: Details 1 and 2 revised to clarify roof hatch types.
  - b. REVISED Drawing No. A5.1, BUILDING ELEVATIONS: Details revised to show all window types (for reference for manual shades, window trim refinishing, etc.). Existing window A/C unit removal / reinstallation scope also clarified.
  - c. **REVISED** Drawing No. A5.2, BUILDING ELEVATIONS: Details revised to show all window types (for reference). Existing window A/C unit removal / reinstallation scope also clarified.
  - d. **REVISED** Drawing No. A5.3, BUILDING ELEVATIONS: Details revised to show all window types (for reference). Existing window A/C unit removal / reinstallation scope also clarified.
  - e. **REVISED** Drawing No. A5.4, BUILDING ELEVATIONS: Details revised to show all window types (for reference).
  - f. **REVISED** Drawing No. A11.1, INTERIOR ELEVATIONS: Details revised to clarify interior trim painting / staining scope of work.
  - g. **REVISED** Drawing No. A11.2, INTERIOR ELEVATIONS: Details revised to clarify interior trim painting / staining scope of work, as well as scope of work in Classroom #209.
  - h. REVISED Drawing No. A11.3, INTERIOR ELEVATIONS: Details revised to clarify interior trim painting / staining scope of work, as well as TYPICAL WOOD TRIM FINISH NOTE describing typical wood trim finish conditions in corridors and rooms (unless noted otherwise).
  - i. **REVISED** Drawing No. A11.4, INTERIOR ELEVATIONS: Details revised to clarify interior trim painting / staining scope of work.
  - j. **REVISED** Drawing No. A11.5, INTERIOR ELEVATIONS: Details revised to clarify interior trim painting / staining scope of work, as well as scope of work in Classroom #428.
  - k. REVISED Drawing No. A11.6, INTERIOR ELEVATIONS: Details revised to clarify interior trim painting / staining scope of work. Also, detail 17 detail title "FLOOR DRAIN DETAIL AT CLAY TILE CONSTRUCTION" to be removed. Detail was relocated to 6/A12.2.
  - I. **REVISED** Drawing No. M0.0, MECHANICAL ABBREVIATIONS, SYMBOLS AND NOTES: Notes revised on general notes on steam traps, dampers, radiators, & insulations. Additionally, notes changed on general notes on controls.
  - m. REVISED Drawing No. M1.0, BASEMENT MECHANICAL REFERENCE PLAN: Changed duct run to Rooms 030A & 030B.
  - n. **REVISED** Drawing No. M1.2, SECOND FLOOR MECHANICAL REFERENCE PLAN: Changed ductwork in Room 200F from rectangular to round.
  - REVISED Drawing No. MD2.1, BASEMENT ENLARGED MECHANICAL DEMOLITION PLAN: Changed Notes 2 & 10.
  - p. **REVISED** Drawing No. MD2.2, BASEMENT ENLARGED MECHANICAL DEMOLITION PLANS: Changed Notes 3, 4A, & 14.
  - q. **REVISED** Drawing No. MD2.3, BASEMENT ENLARGED MECHANICAL DEMOLITION PLANS: Changed Notes 3, 4A, & 14.
  - r. **REVISED** Drawing No. M2.1, BASEMENT ENLARGED MECHANICAL PLAN: Changed Notes 2 & 9.
  - s. **REVISED** Drawing No. M2.2, BASEMENT ENLARGED MECHANICAL PLANS: Changes in Notes 2, 7, & 8.
  - t. **REVISED** Drawing No. M2.3, ENLARGED MECHANICAL PLANS: Added removal of existing fan in Room 100I and added grille type in Room 100E.
  - u. **REVISED** Drawing No. M3.1, MECHANICAL SCHEDULES: Changed Fans EF-6 & EF-7 locations in Fan Schedule.
  - v. **REVISED** Drawing No. M4.1, MECHANICAL DETAILS: Condensate Tank System detail 6 revised.
  - w. **REVISED** Drawing No. M4.2, STEAM BOILER SYSTEM SYMBOLS: Sheet title revised and boiler riser added.

- x. **REVISED** Drawing No. P3.2, PLUMBING PIPING RISER DIAGRAMS: Detail 1 Plumbing Piping Riser Diagrams modified.
- y. **REVISED** Drawing No. E0.0, ELECTRICAL SYMBOLS LIST: Added symbols.
- z. **REVISED** Drawing No. E0.1, ELECTRICAL SYMBOLS LIST: Revised DEMO note # 5.
- aa. **REVISED** Drawing No. E1.0, BASEMENT FLOOR ELECTRICAL PLAN: Added and revised notes. Revised location of public address system head end equipment.
- bb. **REVISED** Drawing No. E1.1, FIRST FLOOR ELECTRICAL PLAN: Added and revised notes.
- cc. REVISED Drawing No. E1.2, SECOND FLOOR ELECTRICAL PLAN: Revised notes.
- dd. **REVISED** Drawing No. E1.3, THIRD FLOOR ELECTRICAL PLAN: Revised notes.
- ee. **REVISED** Drawing No. E1.4, FOURTH FLOOR ELECTRICAL PLAN: Revised notes.
- ff. **REVISED** Drawing No. E1.5, ROOF PLAN NEW EQUIPMENT LAYOUT: Revised notes. Added Heat Trace Notes.
- gg. REVISED Drawing No. E2.1, ENLARGED PLANS LIGHTING: Revised switches.
- hh. **REVISED** Drawing No. E2.4, ENLARGED PLANS POWER AND LOW VOLTAGE: Added circuit numbers for equipment.
- ii. **REVISED** Drawing No. E3.1, ELECTRICAL SINGLE LINE DIAGRAM: Revised Single Line Diagram.
- jj. **REVISED** Drawing No. E4.1, ELECTRICAL LIGHTING FIXTURE SCHEDULE: Revised Lighting Fixture Schedule.
- kk. **REVISED** Drawing No. E4.3, PANEL SCHEDULES: Revised Panel Board loading.
- II. **REVISED** Drawing No. E4.4, PANEL SCHEDULES: Revised Panel Board loading. Added circuits for motorized shades. Added circuits for heat tracing.

mm. REVISED Drawing No. ED1.5, ROOF ELECTRICAL DEMOLITION PLAN: Revised Notes.

- nn. **REVISED** Drawing No. ED2.1, ENLARGED BASEMENT FLOOR ELECTRICAL DEMOLITION PLAN: Revised Notes.
- oo. **REVISED** Drawing No. ED2.3, ENLARGED SECOND FLOOR ELECTRICAL DEMOLITION PLAN: Added notes.
- pp. **REVISED** Drawing No. ED2.4, ENLARGED THIRD FLOOR ELECTRICAL DEMOLITION PLAN: Added notes.
- **Change 3.** The following Building Renovation Drawings are to be revised as follows:
  - a. **REVISED** Drawing No. T1.0, TITLE SHEET: Revise Code Matrix, line 303 Remarks to "Partially Sprinklered".
  - b. REVISED Drawing No. T1.1, SHEET INDEX, ABBREVIATIONS AND PROJECT INFO., to be revised as follows: Add drawing sheets M3.3 and M3.4, both titled "MECHANICAL SCHEDULES". Sheet M4.2 title is to be changed to "STEAM BOILER SYSTEM SYMBOLS".
  - c. REVISED Drawing No. T2.0, GENERAL NOTES AND BASEMENT EGRESS PLAN: Delete 'as part of base scope' text in GENERAL WINDOW REPLACEMENT NOTE #1. Additionally, add note #13 to the GENERAL NOTES: "Contractor to protect any existing sprinkler heads during entirety of construction duration. Contractor will be required to replace any inoperable sprinkler heads make inoperable during construction activities."
  - d. REVISED Drawing No. A1.1, FIRST FLOOR DEMOLITION REFERENCE PLAN to be revised as follows: Add additional note "PATCH / INFILL PLASTER DUE TO DAMAGE THIS AREA" to note regarding removal of the 5'-0"x10'-0" wall-mounted mural in Corridor #100J.
  - e. REVISED Drawing No. A1.3, THIRD FLOOR DEMOLITION REFERENCE PLAN: Detail 4 "SECTION DETAIL AT GYMNASIUM DUCTWORK" to be eliminated in its entirety (gymnasium ductwork revised to round ductwork instead of rectangular – see revised mechanical drawings).
  - f. REVISED Drawing No. A8.13, ENLARGED FLOOR PLANS: Delete reference to "Alternate #1" at detail titles – typ. of details 1, 2 & 3.

- g. REVISED Drawing No. A11.9, INTERIOR ELEVATIONS: Graphic depiction of ductwork in gymnasium at details 1, 2, 3 & 4 to show round duct instead of rectangular duct. Eliminate references to ductwork cap detail 4/A1.3.
- h. REVISED Drawing No. A13.3, WINDOW SCHEDULE: Delete reference to Alternate #4 at window schedule note revise second sentence of note at top of Window Schedule from ". . . See sheet T1.2 for Alternate #4 window replacement scope of work." to ", as well as window guard scope of work." Also, at GENERAL WINDOW NOTES revise note #4 to indicate perforated security '. . .panels at all basement and first floor windows. . .' See exterior elevations sheets A5.x series. Additionally, note #6 to be changed to the following: "Remove existing manual window shades and provide new manual window shades at all windows that are identified to be replaced in the exterior elevations sheets A5.x series and at all windows in classrooms and office areas where work is scheduled to occur as part of this project. See A8.x series sheets for classrooms and offices where work is to occur. Provide motorized window shades where indicated." Further, delete note #9 in its entirety; there is no art glass in scope of work for this project.
- REVISED Drawing Sheets A6.0 through A6.4: Revise Corridor Key Note #C14 to read "Not used". "Corridor Key Note #C10 height of lockers to be changed to 72" instead of 60". On details 1/A6.2, 2/A6.2, 1/A6.3, 2/A6.3 remove keynote target #C14 at locker type D.

# CHANGES TO SITE DEVELOPMENT (SIT)

# ITEM NO. 6: REVISIONS TO BOOK 3 – TECHNICAL SPECIFICATIONS – SITE DEVELOPMENT(SIT)

Change 1. The following Site Development Specifications are issued herewith:
a. ISSUED Section #11 68 00: Playground Equipment and Structures and REVISED Section #00 01 10: Table of Contents.

# ITEM NO. 7: REVISIONS TO DRAWINGS – SITE DEVELOPMENT (SIT)

- **Change 1.** The following Site Development Drawings are revised and issued herewith, dated April 12, 2017
  - a. **REVISED** Drawing No. C2.0, Demolition Plan. Note 3 revised.
  - b. **REVISED** Drawing No. C3.0, Site Plan. Detail 2/C7.7 removed.
  - c. REVISED Drawing No. C3.1, Enlarged Site Plan. Detail 5/C3.1 revised.
  - d. **REVISED** Drawing No. C7.4, Details. Detail 6/C7.4 removed.
  - e. REVISED Drawing No. C7.7, Details. Details 2/C7.7, 3/C7.7, and 4/C7.7 removed.

# **REQUESTS FOR INFORMATION**

# ITEM NO. 8: REQUESTS FOR INFORMATION RFI-1.

- **Question:** I noticed that Lake View High School will be having a renovation project coming up. Maybe you can assist or direct me. Will this project require moving services? Ace Relocation has been working with schools in assisting inventory and diagram classrooms, relocate items to another location or gym, then reset the furniture after the renovation project has been completed. We would love the opportunity to be considered if this or other projects require commercial moving services.
- **Response:** The successful General Contractor will be responsible for any/all moving and relocation work, in accordance with the Contract Documents (plans and specifications). Copies of the Contract Documents may be found on the designated printer's online platform at <a href="https://www/bhfxplanroom.com/">https://www/bhfxplanroom.com/</a>.

RFI-2.	
Question:	Are the only people welcome to bid on the prequalified list? If so, how can I become prequalified for future projects
Response:	Correct, only firms previously prequalified by the PBC may submit a bid as a General Contractor (GCs) on this Project. You can find the list of prequalified GCs here: <u>http://www.pbcchicago.com/content/working/opening_display.asp?BID_ID=486</u> . There are currently no opportunities open to become prequalified. However, as new opportunities become available, they will be submitted via PBC Alerts. Please be sure to sign up for the Alerts at <u>http://www.pbcchicago.com/content/working/pbc_sub_contractor_alerts.asp</u> .
RFI-3. Question: Response:	I saw this particular project online and noted that a play-lot is included in the scope of work. Can you please tell me if any rubber playground surfacing is needed? Our company, No Fault Sport Group, would work as a subcontractor to provide any poured-in-place rubber surfacing, rubber safety tiles or rubber mulch (bonded or loose-fill), so that is our interest. Proposed play-lot to have a unitary synthetic poured rubber seamless surface (Styrene-
	butadiene rubber). Refer to Issue For Bid Sheet C7.3, details 6/C7.3 and 7/C7.3, as well as, specifications Section 321816.
RFI-4.	
Question: Response:	Where do we access plans and specs for this project? Plans and specifications for the above-referenced project may be found on the designated printer's online planroom for this Project at <u>https://www.bhfxplanroom.com/</u> .
RFI-5. Question:	How does a General Contractor or Masonry Restoration firm become pregualified for PBC
Response:	projects. Any help you can give will be greatly appreciated. I signed us up for PBC alerts. Firms become prequalified as a PBC General Contractor by responding to the PBC's Request for Qualifications (RFQ). PBC typically evaluates firms on the following: demonstrated breadth and depth of firm project experience; experience of personnel; financial capability; bonding capacity; and licensing. The best way to learn about upcoming opportunities to become prequalified as a General Contractor with PBC is to monitor the PBC Alerts—the PBC's email notification system. At this time, PBC does not prequalify specific trades—only General Contractors.
RFI-6. Statement:	We are an irrigation company and received an invitation to bid on Lake View High School, 4015 N. Ashland Ave, Contract C1583. We cannot seem to access the plans, and I was just wondering if you knew whether or not this project called for irrigation as part of its exterior improvements. I would appreciate it if you could let me know.
Response:	The project includes a proposed 1" copper water line to be connected to watermain with hose bibs and drinking fountain installation along N. Greenview Ave. Refer to Issue For Bid Sheet C5.0 Utility Plan.
RFI-7.	
Statement: Response:	I recently came across this request for bids: Lake View High School Renovation; I am hoping you can email me a copy of any specifications and/or documents associated with this bid. If it can't be emailed, please let me know. Please do not send them if a fee is required. Documents are available at BHFX (https://www.bhfxplanroom.com/public.php) and there is a
	cost associated.
RFI-8.	
Statement: Response:	Another day/time that subcontractors can visit the site is needed - preferably later this week. PBC held a Site Visit on Friday, April 14, 2017. Additionally, PBC conducted a second Site Visit on Tuesday, April 18th between 6:30am and 7:30am.

RFI-9. Statement:	An indication of which trim is to be painted and which is to be stripped/stained/varnished is
Response:	needed. Please refer to Sheets A11.1 through A11.6 of this Addendum No. 01.
RFI-10. Statement:	An indication of where multiple layers of flooring/carpeting exists that is to be removed. As in the case of the Library where carpet tile covers asbestos tile – both must be removed. Also, confirm that the removal of the carpet tile is not hazardous because of its contact with the asbestos tile.
Response:	All flooring materials (carpet, floor tile, mastics, underlayment) shall be removed down to substrate. In the case of the Library, all flooring materials (carpet, floor tile, mastics, underlayment) shall be considered and removed as asbestos containing material. Please refer to Book 3 Volume II of IV, environmental scope sheet number 88 of 162.
RFI-11.	
Question:	Please provide more information on asphalt flooring in corridors to be removed. I'm not familiar with this type of material being used as a floor finish. Is it sheet material or like shingles? How many layers exist? What gives it the glossy finish? Does it contain asbestos?
Response:	From visual inspection, it appears that the black flooring in the corridors may either be large format asphalt tile or asphalt sheet material. The floors are likely buffed with a black wax, which gives it a glossy appearance. The black flooring in the corridors was previously sampled and is NON-ACM. Please refer to Issue For Bid specifications Book 3, Volume II of IV.
RFI-12.	
Statement:	Please provide available time and date to inspect: roof, parapet walls; copping and other related masonry not visible from ground level.
Response:	Refer to RFI-8 Response above.
RFI-13. Question:	We are a first time bidding GC on Lake View High School Renovation project 05095 and have questions regarding the OCDM: 1) Are there license fees or any other use-related fees relating to using the system and 2) Is there a reference source that we could look up that
Response:	explains how to use the system. 1) There are no fees to General Contractors (or subcontactors) associated with the usage of the PBC's Online Construction Documentation Management System (OCDM). 2) After award, the successful General Contractor will be required to attend training (at no cost); associated manuals, regarding the usage of the system, will be issued during the training.
RFI-14.	
Statements:	Regarding Site Demolition - Drawing No. C2.0: Will the Decorative Benches be removed and disposed of or removed and salvaged?
Response:	Existing precast benches, and tables w/benches, to be removed and salvaged. Refer to Sheet C2.0 Demolition Plan, Note 3 of this Addendum No. 01.

# List of Attachments and Drawings:

(Available at BHFX, LLC online plan room: http://www.bhfxplanroom.com/)

This Addendum includes the following attached Documents related to Building Renovations (MCR):

- 1. Specification section #00 01 10: "TABLE OF CONTENTS"
- 2. Specification Section #23 09 21: "BUILDING AUTOMATION SYSTEM BASIC MATERIALS".
- 3. Specification Section #09 67 25: "RESINOUS EXPOXY FLOORING"
- 4. Specification section #26 43 00: "GUTTER HEAT TRACING".

This Addendum includes the following attached Drawings related to Building Renovations (MCR):

- 1. Drawing No. A4.0, "ROOF DEMOLITION PLAN", dated 4/12/2017.
- 2. Drawing No. A5.1, "BUILDING ELEVATIONS", dated 4/12/2017.
- 3. Drawing No. A5.2, "BUILDING ELEVATIONS", dated 4/12/2017.
- 4. Drawing No. A5.3, "BUILDING ELEVATIONS", dated 4/12/2017.
- 5. Drawing No. A5.4, "BUILDING ELEVATIONS", dated 4/12/2017.
- 6. Drawing No. A11.1, "INTERIOR ELEVATIONS", dated 4/12/2017.
- 7. Drawing No. A11.2, "INTERIOR ELEVATIONS", dated 4/12/2017.
- 8. Drawing No. A11.3, "INTERIOR ELEVATIONS", dated 4/12/2017.
- 9. Drawing No. A11.4, "INTERIOR ELEVATIONS", dated 4/12/2017.
- 10. Drawing No. A11.5, "INTERIOR ELEVATIONS", dated 4/12/2017.
- 11. Drawing No. A11.6, "INTERIOR ELEVATIONS", dated 4/12/2017.
- 12. Drawing No. M0.0, "MECHANICAL ABBREVIATIONS, SYMBOLS AND NOTES", dated 4/12/2017.
- 13. Drawing No. M1.0, "BASEMENT MECHANICAL REFERENCE PLAN", dated 4/12/2017.
- 14. Drawing No. M1.2, "SECOND FLOOR MECHANICAL REFERENCE PLAN", dated 4/12/2017.
- 15. Drawing No. MD2.1, "BASEMENT ENLARGED MECHANICAL DEMOLITION PLAN", dated 4/12/2017.
- 16. Drawing No. MD2.2, "BASEMENT ENLARGED MECHANICAL DEMOLITION PLANS", dated 4/12/2017.
- 17. Drawing No. MD2.3, "BASEMENT ENLARGED MECHANICAL DEMOLITION PLANS", dated 4/12/2017.
- 18. Drawing No. M2.1, "BASEMENT ENLARGED MECHANICAL PLAN", dated 4/12/2017.
- 19. Drawing No. M2.2, "BASEMENT ENLARGED MECHANICAL PLANS", dated 4/12/2017.
- 20. Drawing No. M2.3, "ENLARGED MECHANICAL PLANS", dated 4/12/2017.
- 21. Drawing No. M3.1, "MECHANICAL SCHEDULES", dated 4/12/2017.
- 22. Drawing No. M3.3, "MECHANICAL SCHEDULES", dated 4/12/2017.
- 23. Drawing No. M3.4, "MECHANICAL SCHEDULES", dated 4/12/2017.
- 24. Drawing No. M4.1, "MECHANICAL DETAILS", dated 4/12/2017.
- 25. Drawing No. M4.2, "STEAM BOILER SYSTEM SYMBOLS", dated 4/12/2017.
- 26. Drawing No. P3.2, "PLUMBING PIPING RISER DIAGRAMS", dated 4/12/2017.
- 27. Drawing No. E0.0, "ELECTRICAL SYMBOLS LIST", dated 4/12/2017.
- 28. Drawing No. E0.1, "ELECTRICAL SYMBOLS LIST", dated 4/12/2017.
- 29. Drawing No. E1.0, "BASEMENT FLOOR ELECTRICAL PLAN", dated 4/12/2017.
- 30. Drawing No. E1.1, "FIRST FLOOR ELECTRICAL PLAN", dated 4/12/2017.
- 31. Drawing No. E1.2, "SECOND FLOOR ELECTRICAL PLAN", dated 4/12/2017.
- 32. Drawing No. E1.3, "THIRD FLOOR ELECTRICAL PLAN", dated 4/12/2017.
- 33. Drawing No. E1.4, "FOURTH FLOOR ELECTRICAL PLAN", dated 4/12/2017.
- 34. Drawing No. E1.5, "ROOF PLAN NEW EQUIPMENT LAYOUT", dated 4/12/2017.
- 35. Drawing No. E2.1, "ENLARGED PLANS LIGHTING", dated 4/12/2017.
- 36. Drawing No. E2.4, "ENLARGED PLANS POWER AND LOW VOLTAGE", dated 4/12/2017.
- 37. Drawing No. E3.1, "ELECTRICAL SINGLE LINE DIAGRAM", dated 4/12/2017.
- 38. Drawing No. E4.1, "ELECTRICAL LIGHTING FIXTURE SCHEDULE", dated 4/12/2017.
- 39. Drawing No. E4.3, "PANEL SCHEDULES", dated 4/12/2017.
- 40. Drawing No. E4.4, "PANEL SCHEDULES", dated 4/12/2017.
- 41. Drawing No. ED1.5, "ROOF ELECTRICAL DEMOLITION PLAN", dated 4/12/2017.
- 42. Drawing No. ED2.1, "ENLARGED BASEMENT FLOOR ELECTRICAL DEMOLITION PLAN", dated 4/12/2017.
- 43. Drawing No. ED2.3, "ENLARGED SECOND FLOOR ELECTRICAL DEMOLITION PLAN", dated 4/12/2017.
- 44. Drawing No. ED2.4, "ENLARGED THIRD FLOOR ELECTRICAL DEMOLITION PLAN", dated 4/12/2017.

This Addendum includes the following attached Documents related to **Site Development (SIT)**:

- 1. Specification section #00 01 10: "TABLE OF CONTENTS"
- 2. Specification Section #11 68 00: "PLAYGROUND EQUIPMENT AND STRUCTURES".

This Addendum includes the following attached Drawings related to Site Development (SIT):

- 1. Drawing No. C2.0, Demolition Plan, dated 4/12/2017
- 2. Drawing No. C3.0, Site Plan, dated 4/12/2017
- 3. Drawing No. C3.1, Enlarged Site Plan, dated 4/12/2017
- 4. Drawing No. C7.4, Details, dated 4/12/2017
- 5. Drawing No. C7.7, Details, dated 4/12/2017

# END OF ADDENDUM NO. 01

#### **SECTION 00 01 10**

#### **TABLE OF CONTENTS**

#### **INTRODUCTORY INFORMATION**

Section Number	Section Title	CPS Control Rev.
00 00 00	PBC Project Manual Cover Page	PBC 01_01/01/14
00 01 10	Table of Contents	PBC 01_01/01/17
00 01 11	Info Available to Bidders – Reports	PBC 01_04/01/15

# **SPECIFICATIONS GROUP**

# GENERAL REQUIREMENTS SUBGROUP

#### **DIVISION 01 – GENERAL REQUIREMENTS**

Section Number	Section Title	CPS Control Rev.
01 14 10	Pre-Construction Mockup	PBC 01_07/31/10
01 14 11	Construction Operations and Site Utilization Plan	PBC 01_08/15/14
01 35 59	Indoor Air Quality Requirements	PBC 04_02/08/13
01 50 03	Temporary Facilities and Controls (for renovation projects)	03_07/20/09
01 50 10	Commission Representative Field Office	PBC 03_11/24/09
01 57 15	Integrated Pest Management	PBC 01_09/11/11
01 70 71	Final Cleaning - Schools	PBC 01_10/20/10
01 73 10	Cutting and Patching	PBC 03_07/20/09
01 79 00	Demonstration and Training	03_07/20/09

# FACILITY CONSTRUCTION SUBGROUP

# **DIVISION 02 – EXISTING CONDITIONS**

Section Number	Section Title	CPS Control Rev.
02 41 19	Selective Demolition (W/ Environmental)	PBC 01_07/31/15
DIVISION 03 -	CONCRETE	
Section Number	Section Title	CPS Control Rev.
03 01 30	Maintenance of Cast-In-Place Concrete	01_02/28/06
03 30 53	Miscellaneous Cast-In-Place Concrete	02_08/20/07
DIVISION 04 -	MASONRY	
Section Number	Section Title	CPS Control Rev.
04 01 20	Maintenance of Unit Masonry	01_02/28/06
04 20 00	Unit Masonry	04_04/02/10

04 20 00	Unit Masonry
04 22 00	Concrete Unit Masonry

# **DIVISION 05 – METALS**

Section Number	Section Title	CPS Control Rev.
05 12 00	Structural Steel Framing	02_04/10/08
05 40 00	Cold-Formed Metal Framing	02_04/10/08
05 50 00	Metal Fabrications	04_03/22/13

Lake View HS: Interior & Exterior Renovations 00 01 10 - 1 2016-46211-MCR

TABLE OF CONTENTS

04\_10/24/08

# **DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES**

Section Number	Section Title	CPS Control Rev.
06 10 53	Miscellaneous Rough Carpentry	03_04/10/08
06 40 23	Interior Architectural Woodwork	03_04/10/08

# **DIVISION 07 – THERMAL AND MOISTURE PROTECTION**

Section Number	Section Title	CPS Control Rev.
07 01 50.23	Roof Removal	02_10/30/07
07 01 50.61	Roof Deck Repair	01_02/28/06
07 01 50.62	Structural Clay Tile Roof Deck Repair	01_02/28/06
07 01 50.65	Roof Patching	03_10/30/07
07 01 60	Maintenance of Flashing and Sheet Metal	02_10/30/07
07 31 13	Asphalt Shingles	02_10/30/07
07 52 00	Modified Bituminous Membrane Roofing	04_11/08/10
07 61 00	Sheet Metal Roofing	04_04/10/08
07 62 00	Sheet Metal Flashing and Trim	04_01/21/10
07 72 00	Roof Accessories	02_08/20/07
07 84 13	Penetration Firestopping	03_04/10/08
07 92 00	Joint Sealants	03_04/10/08

# **DIVISION 08 – OPENINGS**

Section Number	Section Title	CPS Control Rev.
08 11 13	Hollow Metal Doors and Frames	03_04/10/08
08 11 14	Hollow Metal Frames	03_04/10/08
08 14 16	Flush Wood Doors	03_04/10/08
08 31 13	Access Doors and Frames	02_08/20/07
08 51 13	Aluminum Windows	04_01/16/14
08 56 56	Window Guards – Interior	02_10/31/06
08 56 57	Window Guards – Exterior	02_01/05/07
08 71 00	Door Hardware	04_04/10/09
08 71 00.1	Door Hardware (Appendix "A")	

#### **DIVISION 09 – FINISHES**

Section Number	Section Title	CPS Control Rev.
09 01 22	Plaster Patching	02_08/20/07
09 01 24	Plaster Renovation	01_02/28/06
09 01 33	Tiling Restoration	01_02/28/06
09 01 53	Acoustical Ceiling Restoration	01_02/28/06
09 21 16	Gypsum Board Assemblies	03_04/10/08
09 30 00	Tiling	03_04/10/08
09 51 13	Acoustical Panel Ceilings	03_01/13/14
09 64 29	Wood Strip and Plank Flooring	01_02/28/06
09 64 66	Wood Athletic Flooring	03_04/10/08
09 65 13	Resilient Base and Accessories	03_04/10/08
09 65 19	Resilient Tile Flooring	04_01/27/11
09 67 25	Resinous Epoxy Flooring	02_08/22/07
09 68 16	Sheet Carpeting	03_04/10/08
09 77 23	Fabric-Wrapped Panels	02_08/20/07
09 91 00	Painting	02_01/16/14
09 91 03	Renovation Painting – Surface Preparation	01_02/28/06
09 91 05	Renovation Painting	01_02/28/06
09 97 23	Concrete Floor Coatings	03_04/10/08
ako View US. Inter	ion & Extension Deposystions 00.01.10.2	TADI E OF CONTENTS

Lake View HS: Interior & Exterior Renovations 00 01 10 - 2 2016-46211-MCR

TABLE OF CONTENTS

# **DIVISION 10 – SPECIALTIES**

Section Number	Section Title	CPS Control Rev.
10 11 00	Visual Display Units	02_04/10/08
10 11 03	Chalkboard to Markerboard Conversion	01_04/15/11
10 14 03	Interior Signage	02_08/20/07
10 21 13	Toilet Compartments	02_04/10/08
10 28 13	Toilet Accessories	03_01/27/11
10 44 00	Fire Protection Specialties	02_08/20/07
10 44 03	Installation of Fire Extinguishers and Cabinets	01_02/28/06
10 51 14	Metal Lockers – High Schools	03_04/10/08

# **DIVISION 11 – EQUIPMENT**

Section Number	Section Title	CPS Control Rev.
11 52 13	Projection Screens	02_08/20/07
11 66 23.02	Gymnasium Equipment – High Schools	02_08/20/07

# **DIVISION 12 – FURNISHINGS**

Section Number	Section Title	CPS Control Rev.
12 24 13	Roller Window Shades – Manual	03_08/22/07
12 24 14	Roller Window Shades – Motorized	02_08/20/07
12 32 00	Manufactured Wood Casework	03_04/10/08
12 48 13	Entrance Floor Mats	02_08/20/07

# FACILITY SERVICES SUBGROUP

# **DIVISION 22 – PLUMBING**

Section Number	Section Title	CPS Control Rev.
22 05 53	Identification for Plumbing Piping and Equipment	02_05/10/13
22 07 00	Plumbing Insulation	04_05/22/08
22 11 16	Domestic Water Piping	01_02/28/06
22 11 19	Domestic Water Piping Specialties	01_02/28/06
22 13 16	Sanitary Waste and Vent Piping	01_02/28/06
22 13 29	Sanitary Sewage Pumps	01_02/28/06
22 14 13	Facility Storm Drainage Piping	01_02/28/06
22 14 23	Drainage Piping Specialties	01_02/28/06
22 40 00	Plumbing Fixtures	02_02/06/09

# DIVISION 23 – HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

Section Number	Section Title	CPS Control Rev.
23 01 30.51	HVAC Air-Distribution System Cleaning	02_11/08/10
23 01 51	Steam and Hot Water Boiler Renovation	01_03/18/11
23 05 03	General Provisions for HVAC Work	01_02/28/06
23 05 05	Basic HVAC Materials and Methods	03_08/20/10
23 05 13	Common Motor Requirements for HVAC Equipment	01_02/28/06
23 05 19	Meters and Gauges for HVAC Piping	03_08/20/10
23 05 23	General-Duty Valves for HVAC Piping	01_02/28/06
23 05 29	Hangers and Supports for Piping and Equipment	01_02/28/06
23 05 53	Identification for HVAC Piping and Equipment	02_05/10/13
23 05 93	Testing, Adjusting, and Balancing for HVAC	03_03/18/11
23 07 00	HVAC Insulation	07_05/31/13
23 09 21	<b>Building Automation System-Basic Materials</b>	06_04/27/10
Lake View HS: In 2016-46211-MCR	terior & Exterior Renovations 00 01 10 - 3	TABLE OF CONTENTS

23 22 13	Steam and Condensate Heating Piping	01_02/28/06
23 31 13	Metal Ducts	03_08/20/10
23 33 00	Air Duct Accessories	02_12/06/09
23 34 23	HVAC Power Ventilators	01_02/28/06
23 36 00	Air Terminal Units	02_12/03/09
23 41 13	Panel Air Filters	02_05/22/08
23 53 13	Boiler Feedwater Pumps	02_05/22/08
23 82 16	Air Coils	02_05/22/08

# **DIVISION 26 – ELECTRICAL**

Section Number	Section Title	CPS Control Rev.
26 05 03	General Requirements for Electrical Systems	01_02/28/06
26 05 05	Basic Electrical Materials and Methods	03_07/23/14
26 05 11	Conductors and Cables for Electrical Systems	02_07/23/14
26 05 26	Grounding and Bonding for Electrical Systems	02_03/30/06
26 05 29	Hangers and Supports for Electrical Systems	01_02/28/06
26 05 33	Raceways and Boxes for Electrical Systems	03_04/13/09
26 05 53	Identification for Electrical Systems	02_03/30/06
26 08 13	Testing of Electrical Systems	01_02/28/06
26 09 23	Lighting Control Devices	01_02/28/06
26 24 16	Panelboards	02_02/28/06
26 27 26	Wiring Devices	02_12/04/08
26 28 13	Fuses	01_02/28/06
26 28 16	Enclosed Switches and Circuit Breakers	01_02/28/06
26 29 13	Enclosed Controllers	01_02/28/06
26 51 00	Interior Lighting	02_02/26/14
26 56 00	Exterior Lighting	02_02/26/14
26 43 00	Gutter Heat Tracing	

# **DIVISION 27 – COMMUNICATIONS**

Section Number	Section Title	CPS Control Rev.
27 51 16	Public Address Systems	01_02/28/06

# SITE AND INFRASTRUCTURE SUBGROUP

# **DIVISION 31 – EARTHWORK**

Section Number	Section Title	CPS Control Rev.
31 23 23.43	Structural Foamboard Fill	
DIVISION 33 –	UTILITIES	

Section Number	Section Title	CPS Control Rev.
33 51 13	Natural Gas Piping	07_12/09/11

# END OF TABLE OF CONTENTS

Lake View HS: Interior & Exterior Renovations 2016-46211-MCR

00 01 10 - 4

TABLE OF CONTENTS

# SECTION 23 09 21

# BUILDING AUTOMATION SYSTEM (BAS) - BASIC MATERIALS, INTERFACE DEVICES, AND SENSORS

# PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes the following:
  - 1. Pneumatic Tubing.
  - 2. Wiring.
  - 3. Control Valves and Actuators.
  - 4. Control Dampers and Actuators.
  - 5. Field Panels.
  - 6. Sensors.
  - 7. Pneumatic Control Components (Gauges, switches, relays, etc.).
  - 8. Electric Control Components (Switches, EP Valves, Thermostats, Relays, Smoke Detectors, etc.).
  - 9. Transducers.
  - 10. Nameplates.
  - 11. Testing Equipment.

# 1.2 DESCRIPTION OF WORK

- A. Refer to Division 23 Section "Building Automation System (BAS)" for general requirements.
- B. Refer to other Division 23 Sections for installation of instrument wells, valve bodies, and dampers in mechanical systems; not work of this Section.
- C. Provide the following electrical work as work of this Section, complying with requirements of Division 26 Sections:
  - 1. Control wiring between field-installed controls, indicating devices, and unit control panels.
  - 2. Interlock wiring between electrically interlocked devices, sensors, and between a hand or auto position of motor starters as indicated for all mechanical and controls.
  - 3. Wiring associated with indicating and alarm panels (remote alarm panels) and connections to their associated field devices.
  - 4. All other necessary wiring for fully complete and functional control system as specified.
  - 5. Power wiring from spare circuits in electrical panels to Digital Control System Field Panels.

# 1.3 WORK BY OTHERS

A. Control Valves furnished under this Section shall be installed under the applicable piping Section under the direction of the Digital Control System Contractor who will be fully responsible for the proper operation of the valve.

Lake View HS: Interior & Exterior Renovations 23 09 21 – 1 2016-46211-MCR

- B. Control Dampers furnished under this Section shall be installed under the applicable air distribution or air handling equipment Section under the direction of the Digital Control System Contractor who will be fully responsible for the proper operation of the damper
- C. Water Pressure Taps, Thermal Wells, Flow Switches, Flow Meters, etc. that will have wet surfaces, shall be installed under the applicable piping Section under the direction of the Digital Control System Contractor who will be fully responsible for the proper installation and application.
- D. Controlled Equipment Power Wiring shall be furnished and installed under Division 26. Where control involves 120V control devices controlling 120V equipment, Division 26 Contractor shall extend power wiring to the equipment. Digital Control System Contractor shall extend it from the equipment to the control device.

# PART 2 - PRODUCTS

# 2.1 MATERIALS AND EQUIPMENT

- A. General: Provide electronic control products in sizes and capacities indicated, consisting of valves, dampers, thermostats, clocks, controllers, sensors, and other components as required for complete installation. Except as otherwise indicated, provide manufacturer's standard materials and components as published in their product information; designed and constructed as recommended by manufacturer, and as required for application indicated.
- B. Instrument Pipe and Tube
  - 1. Hydronic and Instruments
    - a. Connection to Main Piping: Provide <sup>1</sup>/<sub>2</sub> inch minimum size threadolet, <sup>1</sup>/<sub>2</sub>" x 2 inch brass nipple, and <sup>1</sup>/<sub>2</sub>" ball valve for connection to welded steel piping. Provide tee fitting for other types of piping.
    - b. Remote Instruments: Adapt from ball valve to specified tubing and extend to remote instruments. Provide a union or otherwise removable fitting at ball valve so that connection to main can be cleaned with straight rod. Where manifolds with test ports are not provided for instrument, provide tees with <sup>1</sup>/<sub>4</sub>" FPT branch with plug for use as test port. Adapt from tubing size to instrument connection.
    - c. Line Mounted Instruments: Extend rigid piping from ball valve to instrument. Do not use close or running thread nipples. Adapt from ball valve outlet to instrument connection size. Provide a plugged tee if pipe makes 90 degree bend at outlet of valve to allow cleaning of connection to main with straight rod without removing instrument.
    - d. Instrument Tubing: Seamless copper tubing, Type K or L, ASTM B 88; with castbronze solder joint fittings, ANSI B1.18; or wrought-copper solder-joint fittings, ANSI B16.22; or brass compression-type fittings. Solder shall be 95/5 tin antimony, or other suitable lead free composition solder. Tubing OD size shall be not less than the larger of <sup>1</sup>/<sub>4</sub>" or the instrument connection size.
    - e. Rigid Piping for Line Mounted Instruments: Schedule 40 threaded brass, with threaded brass fittings.
  - 2. Low Pressure Air Instrument Sensing Lines

Lake View HS:	Interior & Exterior Renovations	23 09 21 - 2
2016-46211-MC	R	

- a. Connections: Use suitable bulkhead type fitting and static sensing tip for static pressure connections. Adapt tubing to instrument connection.
- b. Tubing: Virgin polyethylene non-metallic tubing type FR, ASTM D 2737, and with flame-retardant harness for multiple tubing. Use compression or push-on brass fittings.
- C. Communication Wiring: All wiring shall be in accordance with National Electrical Codes and Division 26 of this specification.
  - 1. Contractor shall supply all communication wiring between Building Controllers (BC), Routers, Gateways, Advanced Application Controllers (AAC), Application Specific Controllers (ASC) and local and remote peripherals (e.g., operator workstations, printers, and modems).
  - 2. Local Supervisory LAN: For any portions of this network required under this Section of the specification, contractor shall use Fiber or Category 5 of standard TIA/EIA 68 (10BaseT). Network shall be run with no splices and separate from any wiring over thirty (30) volts.
  - 3. Primary and Secondary Controller LANs: Communication wiring shall be individually 100% shielded pairs per manufacturers recommendations for distances installed, with overall PVC cover, Class 2, plenum-rated run with no splices and separate from any wiring over thirty (30) volts. Shield shall be terminated and wiring shall be grounded as recommended by BC manufacturer.
- D. Signal Wiring: Contractor shall run all signal wiring in accordance with National Electric Codes and Division 26 of this Specification.
  - 1. Signal wiring to all field devices, including, but not limited to, all sensors, transducers, transmitters, switches, etc. shall be twisted, 100% shielded pair, minimum 18-gauge wire, with PVC cover. Signal wiring shall be run with no splices and separate from any wiring above thirty (30) volts.
  - 2. Signal wiring shield shall be grounded at controller end only unless otherwise recommended by the controller manufacturer.
- E. Low Voltage Analog Output Wiring: Contractor shall run all low voltage control wiring in accordance with National Electric Codes and Division 26 of this Specification.
  - 1. Low voltage control wiring shall be minimum 16-gauge, twisted pair, 100% shielded, with PVC cover, Class 2 plenum-rated. Low voltage control wiring shall be run with no splices separate from any wiring above thirty (30) volts.
- F. Control Panels: Provide control panels with suitable brackets for wall mounting for each control system. Locate panel adjacent to systems served.
  - 1. Fabricate panels of 16-gage furniture-grade steel, or 6063-T5 extruded aluminum alloy, totally enclosed on four sides, with hinged door and keyed lock, with manufacturer's standard shop- painted finish and color.
  - 2. Provide UL-listed cabinets for use with line voltage devices.
  - 3. All gauges and control components shall be identified by means of nameplates.
  - 4. All control tubing and wiring shall be run neatly and orderly in open slot wiring duct with cover.

Lake View HS: Interior & Exterior Renovations 23 09 21 – 3 2016-46211-MCR

5. Complete wiring and tubing termination drawings shall be mounted in or adjacent to panel.

# 2.2 CONTROL VALVES

- A. General: Provide factory fabricated control valves of type, body material and pressure class indicated. Where type or body material is not indicated, provide selection as determined by manufacturer for installation requirements and pressure class, based on maximum pressure and temperature in piping system. Provide valve size in accordance with scheduled or specified maximum pressure drop across control valve. Control valves shall be equipped with heavy-duty actuators, and with proper close-off rating for each individual application. Minimum close-off rating shall be as scheduled and adequate for each application, and shall generally be considered at dead head rating of the pump.
- B. Plug-Type Globe Pattern for Water Service:
  - 1. Valve Sizing: Where not specifically indicated on the control drawings, modulating valves shall be sized for maximum full flow pressure drop between 50% and 100% of the branch circuit it is controlling unless scheduled otherwise. Two-position valves shall be same size as connecting piping.
  - 2. Single Seated (Two-way) Valves: Valves shall have equal-percentage characteristic for typical heat exchanger service and linear characteristic for building loop connections to campus systems unless otherwise scheduled on the drawings. Valves shall have cage-type trim, providing seating and guiding surfaces for plug on 'top-and-bottom' guided plugs.
  - 3. Double Seated (Three-way) Valves: Valves shall have linear characteristic. Valves shall be balanced-plug type, with cage-type trim providing seating and guiding surfaces on 'top-and-bottom' guided plugs.
  - 4. Temperature Rating: 25°F minimum, 250°F maximum
  - 5. Body: Bronze, screwed, 250 psi maximum working pressure for 1/2" to 2"; Cast Iron, flanged, 125 psi maximum working pressure for 2-1/2" and larger.
  - 6. Valve Trim: Bronze; Stem: Polished stainless steel.
  - 7. Packing: Spring Loaded Teflon or Synthetic Elastomer U-cups, self-adjusting.
  - 8. Plug: Brass, bronze or stainless steel, Seat: Brass
  - 9. Disc: Replaceable Composition or Stainless Steel Filled PTFE.
  - 10. Ambient Operating Temperature Limits: -10 to 150°F
  - 11. Acceptable Manufacturers: Subject to compliance with requirements approved manufacturers are as follows:
    - a. Johnson Controls
    - b. Invensys
    - c. Warren
    - d. Delta
    - e. Belimo
- C. Plug-Type Globe Pattern for Steam Service:
  - 1. Valve Sizing: Where valve size is not specifically indicated on the drawings, size modulating valves for applications of 15 psig or less for 80% of inlet gage pressure unless scheduled otherwise. Modulating valves for applications of greater than 15 psig

Lake View HS: Interior & Exterior Renovations 23 09 21 – 4 2016-46211-MCR

shall be sized for 42% of inlet absolute pressure unless scheduled otherwise. Twoposition valves shall be same size as connecting piping.

- 2. Characteristics: Modified equal-percentage characteristics. Cage-type trim, providing seating and guiding surfaces for plug on "top and bottom" guided plugs.
  - a. Working Temperature: 250°F minimum for saturated steam applications of 15 psig or less; 366°F minimum for saturated steam applications of greater than 15 psig up to 150 psig.
- 3. Body: Bronze, screwed, 250 psig steam working pressure for 1/2" to 2"; Cast Iron, flanged, 100 psig steam working pressure for 2-1/2" and larger for applications of 50 psig or less.
- 4. Valve Trim, Plug, Seat and Stem: Polished stainless steel.
- 5. Packing: Spring Loaded Teflon.
- 6. Disc: Replaceable Composition or Stainless Steel Filled PTFE.
- 7. Acceptable Manufacturers: Subject to compliance with requirements approved manufacturers are as follows:
  - a. Johnson Controls
  - b. Invensys
  - c. Warren
  - d. Delta
  - e. Belimo
- D. Butterfly Type: Valve will be sized for 50 to 100% of branch pressure drop. For valves sized at 3way less than 90 degree position for pressure drop are to have the linkage for full closed when the open port is at the design point.
  - 1. Body: Extended neck epoxy coated cast or ductile iron with full lug pattern, ANSI Class 125 or 250 bolt pattern to match specified flanges.
  - 2. Seat: EPDM, except in loop bypass applications where seat shall be metal to metal
  - 3. Disc: Bronze or stainless steel, pinned or mechanically locked to shaft
  - 4. Bearings: Bronze or stainless steel
  - 5. Shaft: 416 stainless steel
  - 6. Cold Service Pressure: 175 psi
  - 7. Close Off: Bubble-tight shutoff to 150 psi
  - 8. Operation: Valve and actuator operation shall be smooth both seating and unseating. Should more that 2 psi deadband be required to seat/unseat the valve, valve shall be replaced at no cost to the Government.
  - 9. Acceptable Manufacturers: Subject to compliance with requirements approved manufacturers are as follows:
    - a. Jamesbury WS815
    - b. Bray Series 31
    - c. Belimo
- E. Ball Type: Valve will be sized for 50 to 100% of branch pressure drop.
  - 1. Body: Brass or bronze; one-, two-, or three-piece design; threaded ends.
  - 2. Seat: Reinforced Teflon
  - 3. Ball: Stainless steel.

Lake View HS: Interior & Exterior Renovations 23 09 21 – 5 2016-46211-MCR

- 4. Port: Standard or 'V' style.
- 5. Stem: Stainless steel, blow-out proof design, extended to match thickness of insulation.
- 6. Cold Service Pressure: 600 psi WOG
- 7. Steam working Pressure: 150 psi
- 8. Acceptable Manufacturers: Subject to compliance with requirements approved manufacturers are as follows:
  - a. Belimo
  - b. Jamesbury
  - c. Delta
- F. Segmented or Characterized Ball Type
  - 1. Body: Carbon Steel (ASTM 216), one-piece design with wafer style ends.
  - 2. Seat: Reinforced Teflon (PTFE).
  - 3. Ball: Stainless steel ASTM A351
  - 4. Port: Segmented design with equal-percentage characteristic.
  - 5. Stem: Stainless steel.
  - 6. Cold Service Pressure: 200 psi WOG
  - 7. Cavitation Trim: Provide cavitation trim where indicated and/or required, designed to eliminate cavitation and noise while maintaining an equal percentage characteristic. Trim shall be a series of plates with orifices to break the pressure drop into multi-stages.
  - 8. Acceptable Manufacturers: Subject to compliance with requirements approved manufacturers are as follows:
    - a. Jamesbury R-Series
    - b. Fisher
    - c. Belimo

# 2.3 CONTROL DAMPERS

- A. General: Provide factory fabricated automatic control dampers of sizes, velocity and pressure classes as required for smooth, stable, and controllable air flow. Provide parallel or opposed blade dampers as recommended by manufacturers sizing techniques. Provide parallel blade dampers for dampers providing two-position control (for multi zone dampers a parallel blade application with lower torque requirements should be submitted as an alternate). For dampers located near fan outlets, provide dampers rated for fan outlet velocity and close-off pressure, and recommended by damper manufacturer for fan discharge damper service.
- B. For zone dampers and other applications with duct or opening areas less that 5 square feet that do not provide isolation to out doors and function in a general isolation and modulating control service in rectangular ducts at velocities not greater than 1500 fpm , differential pressure not greater than 2.5" w.c.:
  - 1. Performance: Test in accordance with AMCA 500.
  - 2. Frames: Galvanized steel, 16-gauge minimum thickness, welded or riveted with corner reinforcement.
  - 3. Blades: Stainless steel in lab exhausts and galvanized steel elsewhere, maximum blade size 8 inches wide by 48 inches long, attached to minimum 1/2 inch shafts with set screws, 16 gauge minimum thickness.
  - 4. Blade Seals: Synthetic elastomer, mechanically attached, field replaceable.

Lake View HS: In	nterior & Exterior Renovations	23 09 21 - 6
2016-46211-MCR		

- 5. Jamb Seals: None.
- Shaft Bearings: Oil impregnated sintered bronze, graphite impregnated nylon sleeve or 6. other molded synthetic sleeve, with thrust washers at bearings.
- 7. Linkage: Concealed in frame if parallel.
- Linkage Bearings: Oil impregnated sintered bronze or graphite impregnated nylon. 8.
- Leakage: Less than one percent based on approach velocity of 1500 ft./min. and 1 inch 9. wg.
- 10. Maximum Pressure Differential: 2.5 inches wg.
- 11. Temperature Limits: -40 to 200 °F.
- Where two dampers are to be mechanically interlocked such as a face and bypass 12. arrangement, the manufacturer will provide required torque values for the combined damper assembly.
- 13. Acceptable Manufacturers: Subject to compliance with requirements approved manufacturers are as follows:
  - Johnson Controls D-1100 a.
  - b. Ruskin CD36
  - Vent Products 5800 c.
- C. For applications with duct or opening areas greater than 5 square feet that do not provide isolation to out doors and function in a general isolation and modulating control service in rectangular ducts at velocities exceeding 1500 fpm, differential pressure greater than 2.5" w.c.:
  - 1. Performance: Test in accordance with AMCA 500.
  - Frames: Galvanized steel, 16-gauge minimum thickness, welded or riveted with corner 2. reinforcement.
  - 3. Blades: Galvanized steel or extruded aluminum hollow airfoil shape, maximum blade size 8 inches wide by 48 inches long, attached to minimum 1/2 inch shafts, 14 gauge minimum extrusion thickness.
  - Blade Seals: Synthetic elastomeric, mechanically attached, field replaceable. 4.
  - Jamb Seals: Stainless steel. 5.
  - Shaft Bearings: Oil impregnated sintered bronze sleeve, graphite impregnated nylon 6. sleeve, molded synthetic sleeve, or stainless steel sleeve, with thrust washers at bearings.
  - Linkage: Concealed in frame if parallel. 7.
  - Linkage Bearings: Oil impregnated sintered bronze or graphite impregnated nylon. 8.
  - Leakage: Less than 0.1 percent based on approach velocity of 4000 ft./min. and 1 inch 9. wg..
  - 10. Maximum Pressure Differential: 6 inches wg.
  - 11. Temperature Limits: -40 to 200 °F.
  - Where opening size is larger than 48 inches wide, or 72 inches high, provide dampers in 12. multiple sections, with appropriately intermediate frames, and jackshafts. For multiple dampers driven by a jackshaft the shaft will rigid in torsion and driven by at least two actuators located at either end of the shaft.
  - Acceptable Manufacturers: 13. Subject to compliance with requirements approved manufacturers are as follows:
    - **TAMCO 1000** a.
    - Ruskin CD60 b.
    - **CESCO** Products AGA or AGB c.

Lake View HS: Interior & Exterior Renovations 2016-46211-MCR

 $23\ 09\ 21 - 7$ 

- D. For all outside air intake or exhaust control dampers that provide isolation to out doors or otherwise need to provide thermal isolation:
  - 1. Performance: Test in accordance with AMCA 500.
  - 2. Frames: Galvanized steel, 16-gauge minimum thickness, welded or riveted with corner reinforcement.
  - 3. Blades: Extruded aluminum hollow airfoil shape, maximum blade size 8 inches wide by 48 inches long, attached to minimum 1/2 inch shafts, 14 gauge minimum extrusion thickness.
  - 4. Blade Seals: Synthetic elastomeric, mechanically attached, field replaceable.
  - 5. Jamb Seals: Non-metallic seal.
  - 6. Shaft Bearings: Oil impregnated sintered bronze sleeve, graphite impregnated nylon sleeve, molded synthetic sleeve, or stainless steel sleeve, with thrust washers at bearings.
  - 7. Linkage: Concealed in frame if parallel.
  - 8. Linkage Bearings: Oil impregnated sintered bronze or graphite impregnated nylon.
  - 9. Leakage: Less than 0.1 percent based on approach velocity of 4000 ft./min. and 1 inch wg. .
  - 10. Maximum Pressure Differential: 6 inches wg.
  - 11. Temperature Limits: -40 to 200 °F.
  - 12. Where opening size is larger than 48 inches wide, or 72 inches high, provide dampers in multiple sections, with appropriately intermediate frames, and jackshafts. For multiple dampers driven by a jackshaft the shaft will rigid in torsion and driven by at least two actuators located at either end of the shaft.
  - 13. Acceptable Manufacturers: Subject to compliance with requirements approved manufacturers are as follows:
    - a. TAMCO 9000
    - b. Ruskin CDTI50
  - 14. For general isolation and modulating control service in round ducts up to 40 inches in size at velocities not greater than 2500 fpm, differential pressure not greater than 4" w.c.:
  - 15. Performance: Test in accordance with AMCA 500.
  - 16. Frames: rolled 12 gauge steel strip for sizes 6 inch and smaller, rolled 14 gauge steel channel for larger sizes, galvanized or aluminum finish.
  - 17. Blades: Steel construction, 12 gauge minimum thickness for dampers less than 18 inches in size, 10 gauge minimum thickness for larger dampers.
  - 18. Blade Seals: Full circumference neoprene.
  - 19. Shaft: <sup>1</sup>/<sub>2</sub> inch diameter zinc or cadmium plated steel.
  - 20. Shaft Bearings: Oil impregnated sintered bronze or stainless steel, pressed into frame, with thrust washers at bearings.
  - 21. Leakage: Less than 0.2 percent based on approach velocity of 4000 ft./min. and 1 inch wg. differential pressure.
  - 22. Maximum Pressure Differential: 4 inches wg.
  - 23. Temperature Limits: -40 to 300 °F.
- E. For general isolation and modulating control service in round ducts up to 60 inches in size at velocities not greater than 4000 fpm (20.3 m/s), differential pressure not greater than 6" w.c. (1492 Pa):
  - 1. Performance: Test in accordance with AMCA 500.

Lake View HS: Interior & Exterior Renovations 23 09 21 – 8 2016-46211-MCR

- 2. Frames: rolled 10-gauge steel channel for sizes 48 inch and smaller, rolled 3/16 inch thick steel channel for larger sizes, galvanized or aluminum finish.
- 3. Blades: Steel construction, 10-gauge minimum thickness for dampers not greater than 48 inches in size, <sup>1</sup>/<sub>4</sub> inch minimum thickness for larger dampers.
- 4. Blade stops:  $\frac{1}{2}$  inch x  $\frac{1}{4}$  inch full circumference steel bar.
- 5. Blade Seals: Full circumference neoprene.
- 6. Shaft: zinc or cadmium plated steel, angle reinforcing as necessary.
- 7. Shaft Bearings: Oil impregnated sintered bronze or stainless steel, pressed into frame, with thrust washers at bearings.
- 8. Leakage: Less than 0.4 percent based on approach velocity of 4000 ft./min. and 1 inch wg. differential pressure.
- 9. Maximum Pressure Differential: 6 inches wg.
- 10. Temperature Limits: -40 to 250 °F.

# 2.4 ACTUATORS

- A. General: Size actuators and linkages to operate their appropriate dampers or valves with sufficient reserve torque or force to provide smooth modulating action or 2-position action as specified. Select spring-return actuators with manual override to provide positive shut-off of devices as they are applied.
- B. Damper Actuators
  - 1. Ambient Operating Temperature Limits: -10 to 122°F
  - 2. Two Position Electric Actuators: Line voltage with spring return
  - 3. Electronic Actuators: Provide actuators with spring return for two-position (24v), 0-5 Vdc, 0-10 Vdc, 2-10Vdc, 4-20 mA, as required. Actuators shall travel full stroke in less than 90 seconds, unless prior approval is obtained. Actuators shall be designed for a minimum of 60,000 full cycles at full torque and be UL 873 listed. Provide stroke indicator. Actuators shall have positive positioning circuit. Where two actuators are required in parallel, or in sequence, provide an auxiliary actuator driver. Actuators shall have current limiting motor protection. Actuators shall have manual override . Modulating actuators for valves shall have minimum rangeability of 40 to 1.
    - a. Close-Off Pressure: Provide the minimum torque required, and spring return for fail positioning (unless otherwise specifically indicated) sized for required close-off pressure. Required close-off rating of air damper applications shall be shutoff pressure of associated fan, plus 10 percent. When shutoff does not apply the actuator will be sized based on the manufactures required torque plus 30%.
    - b. Acceptable Manufacturers: Subject to compliance with requirements approved manufacturers are as follows:
      - 1) Belimo
      - 2) Delta
      - 3) Invensys
- C. Quarter-Turn Actuators (for ball and butterfly valves):
  - 1. Electric

Lake View HS: Interior & Exterior Renovations23 092016-46211-MCR23

- a. Motor: Suitable for 120 or 240 Volt single-phase power supply. Insulation shall be NEMA Class F or better. Motor shall be rated for 100 percent duty cycle. Motors shall have inherent overload protection.
- b. Gear Train. Motor output shall be directed to a self locking gear drive mechanism. Gears shall be rated for torque input exceeding motor locked rotor torque.
- c. Wiring: Power and control wiring shall be wired to a terminal strip in the actuator enclosure
- d. Failsafe Positioning: Actuators shall be spring return type for failsafe positioning.
- e. Enclosure: Actuator enclosure shall be NEMA-4 rated, and shall have a minimum of two threaded conduit entries. Provide an enclosure heater for actuators located outside of buildings.
- f. Limit Switches: Travel limit switches shall be UL and CSA approved. Switches shall limit actuator in both open and closed positions.
- g. Mechanical Travel Stops: The actuator shall include mechanical travel stops of stainless steel construction to limit actuator to specific degrees of rotation.
- h. Manual Override: Actuators shall have manual actuator override to allow operation of the valve when power is off. For valves 4 inches and smaller the override may be a removable wrench or lever or geared handwheel type. For larger valves, the override shall be a fixed geared handwheel type. An automatic power cut-off switch shall be provided to disconnect power from the motor when the handwheel is engaged for manual operation.
- i. Valve Position Indicator: A valve position indicator with arrow and open and closed position marks shall be provided to indicate valve position.
- j. Torque Limit Switches: Provide torque limit switches to interrupt motor power when torque limit is exceeded in either direction of rotation.
- k. Position Controller: For valves used for modulating control, provide an electronic positioner capable of accepting 4-20 mA, 0-10 Vdc, 2-10 Vdc, and 135 Ohm potentiometer.
- 1. Ambient Conditions: Actuator shall be designed for operation from -10 to 150 °F ambient temperature with 0 to 100 percent relative humidity.

# 2.5 GENERAL FIELD DEVICES

- A. Provide field devices for input and output of digital (binary) and analog signals into controllers (BCs, AACs, ASCs). Provide signal conditioning for all field devices as recommended by field device manufacturers, and as required for proper operation in the system.
- B. It shall be the Contractor's responsibility to assure that all field devices are compatible with controller hardware and software.
- C. Field devices specified herein are generally 'two-wire' type transmitters, with power for the device to be supplied from the respective controller. If the controller provided is not equipped to provide this power, or is not designed to work with 'two-wire' type transmitters, or if field device is to serve as input to more than one controller, or where the length of wire to the controller will unacceptably affect the accuracy, the Contractor shall provide 'four-wire' type equal transmitter and necessary regulated DC power supply or 120 VAC power supply, as required.
- D. For field devices specified hereinafter that require signal conditioners, signal boosters, signal repeaters, or other devices for proper interface to controllers, Contractor shall furnish and install

Lake View HS: Interior & Exterior Renovations 23 09 21 – 10 2016-46211-MCR

proper device, including 120V power as required. Such devices shall have accuracy equal to, or better than, the accuracy listed for respective field devices.

E. Accuracy: As stated in this Section, accuracy shall include combined effects of nonlinearity, non-repeatability and hysteresis.

# 2.6 TEMPERATURE SENSORS (TS)

- A. Sensor range: When matched with A/D converter of BC, AAC/ASC, or Smart Sensor (SS), sensor range shall provide a resolution of no worse than 0.3°F (unless noted otherwise). Where thermistors are used, the stability shall be better than 0.25°F over 5 years.
- B. Matched Sensors: The following applications shall require matched sensors:
  - 1. Building Loop Connections: Provide matched loop and building supply sensors where control sequence requires controlling to a temperature rise (differential).
  - 2. Hydronic Temperature Difference Calculations: Provide matched supply and return temperature sensors where the pair is used for calculating temperature difference for use in load calculations or sequencing such as across chillers and plants.
  - 3. Air Handling Unit Sequencing: Provide matched pair for the cooling and heating coil leaving sensors where the sequence includes calculating an offset from the supply air setpoint to maintain a leaving heating coil temperature.
- C. Room Temperature Sensor: Shall be a stainless steel wall plate sensor. An electronic thermostat with manual override will be provided in the principal and main office areas and in select administrative areas as approved by CPS. Provide ¼" medical grade closed cell foam insulating material. The following sensing elements are acceptable:
  - 1. Sensing element shall be platinum RTD, thermistor, or integrated circuit, +/- 0.3°F accuracy at calibration point.
- D. Single-Point Duct Temperature Sensor: Shall consist of sensing element, junction box for wiring connections and gasket to prevent air leakage or vibration noise. Temperature range as required for resolution indicated in paragraph A. Sensor probe shall be 316 stainless steel.
  - 1. Sensing element shall be platinum RTD, thermistor, or integrated circuit, +/- 0.3°F accuracy at calibration point
- E. Averaging Duct Temperature Sensor: Shall consist of an averaging element, junction box for wiring connections and gasket to prevent air leakage. Provide sensor lengths and quantities to result in one lineal foot of sensing element for each three square feet of cooling coil/duct face area. Temperature range as required for resolution indicated in paragraph A.
  - 1. Sensing element shall be platinum RTD, or thermistor, +/- 0.3°F accuracy at calibration point.
- F. Liquid immersion temperature sensor shall include thermowell, sensor and connection head for wiring connections. Provide thermally conductive paste in well to ensure good contact with the well. Temperature range shall be as required for resolution of 0.15°F.

- 1. Sensing element (chilled water/glycol systems) shall be platinum RTD +/- 0.2°F accuracy at calibration point. Temperature range shall be as required for resolution of 0.15°F.
- 2. Sensing element (other systems) shall be platinum RTD, thermistor, or integrated circuit, +/- 0.4°F accuracy at calibration point. Temperature range shall be as required for resolution of 0.3°F.
- G. Pipe Surface-Mount Temperature Sensor: Sensor are only for use in applications specifically identified on the drawings. Normally only used on condensate return piping for steam systems. Shall include metal junction box and clamps and shall be suitable for sensing pipe surface temperature and installation under insulation. Provide thermally conductive paste at pipe contact point. Temperature range shall be as required for resolution indicated in paragraph A.
  - 1. Sensing element shall be platinum RTD, thermistor, or integrated circuit, +/- 0.4°F accuracy at calibration point.
- H. Outside air sensors shall consist of a sensor, an aspirated enclosure, utility box, and watertight gasket to prevent water seepage. Temperature range shall be as required for resolution indicated in Paragraph A
  - 1. Sensing element shall be platinum RTD, thermistor, or integrated circuit, +/- 0.4°F accuracy at calibration point.
  - 2. Acceptable Manufacturers: Kele A21 or equal

# 2.7 TEMPERATURE TRANSMITTERS

A. Where required by Controller, or where wiring runs are over 50 feet, sensors as specified above may be matched with transmitters outputting 4-20 mA linearly across the specified temperature range. Transmitters shall have zero and span adjustments, an accuracy of 0.1°F when applied to the sensor range.

# 2.8 PRESSURE AND DIFFERENTIAL PRESSURE TRANSMITTERS (DP)

- A. General Purpose Water: Two-wire transmitter, 4-20 mA output with zero and span adjustments. Plus or minus 0.5% overall accuracy, 450 psig maximum static pressure rating, 200 psid maximum overpressure rating for 6 through 60 psid range, 450 psid for 100 through 300 psid range.
  - 1. Acceptable units shall be Kele & Associates Model 360 C
- B. Liquid, Steam and Gas:
  - 1. General: Two-wire smart DP cell type transmitter, 4-20 mA or 1-5 Vdc user-selectable linear or square root output, adjustable span and zero, stainless steel wetted parts.
  - 2. Environmental limits: -40 to 250 °F, 0 to 100% RH..
  - 3. Accuracy: less than 0.1 percent of span.
  - 4. Output Damping: Time constant user selectable from 0 to 36 seconds.
  - 5. Vibration Effect: Less than  $\pm 0.1\%$  of upper range limit from 15 to 2000 Hz in any axis relative to pipe mounted process conditions.
  - 6. Electrical Enclosure: NEMA-4, -4X, -7, -9.
  - 7. Approvals: FM, CSA.

Lake View HS: Interior & Exterior Renovations 23 09 21 – 12 2016-46211-MCR

- 8. Acceptable Manufacturers: Rosemount Inc. 3051 Series, Foxboro, Johnson-Yokagawa, Setra, or Mamac.
- C. General Purpose Low Pressure Air: Generally for use in static measurement of duct pressure or constant volume air velocity pressure measurement where the range is applicable.
  - 1. General: Loop powered two-wire differential capacitance cell-type transmitter.
  - 2. Output: two wire 4-20 mA output with zero adjustment.
  - 3. Overall Accuracy: Plus or minus 1% of reading.
  - 4. Minimum Range: 0.1 in. w.c.
  - 5. Maximum Range: 10 inches w.c.
  - 6. Housing: Polymer housing suitable for surface mounting.
  - 7. Acceptable Manufacturers: Modus T30.
  - 8. Static Sensing Element: Pitot-type static pressure sensing tips similar to Dwyer model A-301 and connecting tubing.
  - 9. Range: Select for specified setpoint to be between 25% and 75% full-scale.
- D. General Purpose Low Pressure/Low Differential Air: Generally for use in static measurement of space pressure or constant volume air velocity pressure measurement where the range is applicable.
  - 1. General: Loop powered, two-wire differential capacitance cell type transmitter.
  - 2. Output: Two-wire 4-20 mA output with zero adjustment.
  - 3. Overall Accuracy: Plus or minus 1% of reading.
  - 4. Minimum Range: 0 in. w.c.
  - 5. Maximum Range: 0.1, 0.25, or 0.5 inches w.c.
  - 6. Housing: Polymer housing suitable for surface mounting.
  - 7. Acceptable Manufacturers: Modus T30 or Setra.
  - 8. Static Sensing Element: Pitot-type static pressure sensing tips similar to Dwyer model A-301 and connecting tubing.
  - 9. Range: Select for specified setpoint to be between 25% and 75% full-scale.
- E. Velocity Pressure: Generally for use in air velocity pressure measurement where the range is applicable.
  - 1. General: Loop powered two-wire differential capacitance cell type transmitter.
  - 2. Output: Two-wire, 4-20 mA output with zero adjustment.
  - 3. Overall Accuracy: Plus or minus 0.25%
  - 4. Minimum Range: 0 in. w.c.
  - 5. Maximum Range: 1 inch w.c.
  - 6. Housing: Polymer housing suitable for surface mounting.
  - 7. Acceptable Manufacturers: Setra 264 with optional FS accuracy above or equal. .
  - 8. Range: Select for minimum range that will accept the maximum velocity pressure expected.

# 2.9 VALVE BYPASS FOR DIFFERENTIAL PRESSURE SENSORS

A. Provide a five valve bypass kit for protection of DP sensors where the static on the pipe can cause on over pressure when connected to one port with the other at atmospheric pressure. Kit shall include high and low pressure isolation valves, high and low pressure vent valves, and a bypass valve contained in a NEMA-1 enclosure.

Lake View HS: Interior & Exterior Renovations 23 09 21 – 13 2016-46211-MCR

#### 2.10 DIFFERENTIAL PRESSURE SWITCHES (DPS)

- A. General Service Air: Diaphragm with adjustable setpoint and differential and snap acting form C contacts rated for the application. Provide manufacturer's recommended static pressure sensing tips and connecting tubing
- B. General Service Water: Diaphragm with adjustable setpoint, 2 psig or adjustable differential, and snap-acting Form C contacts rated for the application. 60 psid minimum pressure differential range. 0°F to 160°F operating temperature range.

# 2.11 PRESSURE SWITCHES (PS)

- A. Diaphragm or bourdon tube with adjustable setpoint and differential and snap-acting Form C contacts rated for the application. Pressure switches shall be capable of withstanding 150% of rated pressure.
- B. Acceptable Manufacturers: Square D, ITT Neo-Dyn, ASCO, Penn, Honeywell, and Johnson Controls.

# 2.12 TRANSDUCERS

- A. Standard Capacity Electronic-to-Pneumatic (E-P) Transducers: E-P transducers shall be Voltage-to-Pneumatic (V-P) type, Current-to-Pneumatic (I-P) type,:
  - 1. Electrical Power Supply: 24 Vac or 24 Vdc.
  - 2. Pneumatic Air Supply: 30 psig (2.07 bar) maximum.
  - 3. Air Capacity: 1100 scim @ 20 psig (300 cm<sup>3</sup>/sec @ 1.4 bar).
  - 4. Air Consumption: Zero at steady state.
  - 5. Output Span: 0-20 psig (0-1.4 bar).
  - 6. Input: 4-20 mA, 0-5 Vdc, 1-5 Vdc, 0-10 Vdc, 2-10 Vdc, 0-15 Vdc, or 3-15 Vdc input.
  - 7. Enclosure: Polymer designed for surface or panel mount.
  - 8. Air Connections:  $\frac{1}{4}$ " (6.35 mm) barbed.
  - 9. Failure Mode on Power Loss: Non-failsafe transducers shall have no output air loss. Failsafe transducers shall exhaust output upon power loss.
  - 10. Acceptable Manufacturers: RE Technologies Model UCP-522.
- B. Binary to Analog Transducers or Tri-State-to-Voltage or -Current:
  - 1. Adjustable zero and span.
  - 2. Failure Mode on Power Loss: Shall be provided with memory feature to allow the transducer to return to last value on power failure.
  - 3. Accuracy:  $\pm 1\%$  of span
  - 4. Output Span: 4-20 mA, 0-5 Vdc, 1-5 Vdc, 0-10Vdc, 2-10Vdc, 0-15Vdc, 3-15Vdc
  - 5. Input: 4-20 mA, pulse width modulated or tri-state input.
  - 6. Tri-state Input Time Base: Dip switch selectable.
  - 7. Enclosure: Polymer designed for surface or panel mount.
  - 8. Failure Mode on Power Loss: Non-failsafe transducers shall have no output air loss. Failsafe transducers shall exhaust output upon power loss.
  - 9. Acceptable Manufacturers: RE Technologies Model PWA Series.
- C. Electronic-to Electronic (Voltage or Current to Current or Voltage):

Lake View HS: Interior & Exterior Renovations	23 09 21 - 14
2016-46211-MCR	

- 1. Adjustable zero and span.
- 2. Failure Mode on Power Loss: Memory feature to allow the transducer to return to last value on power failure.
- 3. Accuracy:  $\pm 1\%$  of span.
- 4. Output Span: 4-20 mA, 0-5 Vdc, 1-5 Vdc, 0-10 Vdc, 2-10 Vdc, 0-15 Vdc, 3-15 Vdc.
- 5. Input: 0-20 Vdc, 0-20 ma, 0-10 kOhm.
- 6. Enclosure: Polymer enclosure designed for surface or panel mount.
- 7. Acceptable Manufacturers: RE Technologies Model PWA Series.

#### 2.13 CO<sub>2</sub> SENSORS/TRANSMITTERS (CARBON DIOXIDE)

- A. CO<sub>2</sub> sensors shall use silicon based, diffusion aspirated, infrared single beam, dual-wavelength sensor.
- B. Range: 0-2000 ppm
- C. Accuracy: ±36ppm at 800 ppm and 68°F.
- D. Stability: 5% over 5 years.
- E. Output: 4-20 mA, 0-10 Vdc or relay.
- F. Mounting: Duct as indicated
- G. Acceptable Manufacturer: Vaisala, Inc. GMD20 (duct) or GMW20 (wall), MSA, Inc, Kele 8000 series.

#### 2.14 CO SENSORS/TRANSMITTERS (CARBON MONOXIDE)

- A. CO sensors shall use electrochemical sensor.
- B. Accuracy: 3% at 0-250 ppm
- C. Display & Horn: Progressive or digital display and audible alarm, 65dBA @ 3'.
- D. Output: 4-20 mA, 0-10 Vdc .
- E. Mounting: Wall mounted between 3' and 5' above the floor in the boiler room.
- F. Acceptable Manufacturer: Kele GMT-CO-S1A, MSA, Inc.

#### 2.15 PNEUMATIC CONTROL COMPONENTS

- A. Analog Pressure Gauges: Gauges shall be pneumatic type, minimum 1-1/2" in (38 mm) diameter, with white face and black numerals. Surface-mounted gauges shall have chrome plated trim and be a minimum of 2-1/2" in (64 mm) diameter.
- B. Pneumatic Actuated Pressure Switches (PE) (for 30 psig max pressure control systems): Pressure ranges and sensitivity of PEs shall match control system sequence of operation. Switch operation shall be externally adjustable over the operating pressure range (nominal 0-20 psig, 0 to 138 KPa). PE switches shall be SPDT type, rated for the particular application, and

Lake View HS: Interior & Exterior Renovations 23 09 21 – 15 2016-46211-MCR

shall be UL listed. PE shall be as manufactured by Penn. Substitutions shall be allowed as per Division 01.

C. Pilot Positioners: Operating span adjustment range is from 3 to 13 psi (21 to 91 kPa). Positioner shall be furnished with a mounting bracket for attachment directly to the actuator.

# 2.16 ELECTRIC CONTROL COMPONENTS

- A. Limit Switches (LS): Limit switches shall be UL listed, SPDT or DPDT type, with adjustable trim arm. Limit switches shall be as manufactured by Square D, Allen Bradley.
- B. Electric Solenoid-Operated Pneumatic Valves (EP): EP valves shall be rated for a minimum of 1.5 times their maximum operating static and differential pressure.. Valves shall be ported 2-way, 3-way, or 4-way and shall be normally closed or open as required by the application. EPs shall be sized for minimum pressure drop, and shall be UL and CSA listed. Furnish and install gauges on all inputs of EPs. Furnish an adjustable air pressure regulator on input side of solenoid valves serving actuators operating at greater than 30 psig.
  - 1. Coil Enclosure: Indoors shall be NEMA-1, Outdoors and NEMA-3, 4, 7, 9.
  - 2. Fluid Temperature Rating: Valves for compressed air and cold water service shall have 150 °F (66 °C) minimum rating. Valves for hot water or steam service shall have fluid temperature rating higher than the maximum expected fluid temperature.
  - 3. Acceptable Manufacturers: EP valves shall be as manufactured by ASCO or Parker.
  - 4. Coil Rating: EP valves shall have appropriate voltage coil rated for the application (i.e., 24 VAC, 120 VAC, 24 VDC, etc.).
- C. Low Temperature Detector ('Freezestat') (FZ): Low temperature detector shall consist of a 'cold spot' element which responds only to the lowest temperature along any one foot of entire element, minimum bulb size of 1/8" x 20', junction box for wiring connections and gasket to prevent air leakage or vibration noise, DPST ( 4 wire, 2 circuit) with manual reset. Temperature range 15 to 55°F, factory set at 38°F.
- D. High Temperature Detectors ('Firestat') (FS): High temperature detector shall consist of 3-pole contacts, a single point sensor, junction box for wiring connections and gasket to prevent air leakage of vibration noise, triple-pole, with manual reset. Temperature range 25 to 215°F.
- E. Surface-Mounted Thermostat: Surface-mounted thermostat shall consist of SPDT contacts, operating temperature range of 50 to 150°F, and a minimum 10°F fixed setpoint differential.
- F. Low Voltage Wall Thermostat: Wall-mounted thermostat shall consist of SPDT sealed mercury contacts, operating temperature range of 50 to 90°F, switch rating of 24 Vac (30 Vac max.), and both manual and automatic fan operation in both the heat and cool modes.
- G. Control Relays: All control relays shall be UL listed, with contacts rated for the application, and mounted in minimum NEMA-1 enclosure for indoor locations, NEMA-4 for outdoor locations.
  - 1. Control relays for use on electrical systems of 120 volts or less shall have, as a minimum, the following:
    - a. AC coil pull-in voltage range of +10%, -15% or nominal voltage.

Lake View HS: Interior & Exterior Renovations 23 09 21 – 16 2016-46211-MCR

- b. Coil sealed volt-amperes (VA) not greater than four (4) VA.
- c. Silver cadmium Form C (SPDT) contacts in a dustproof enclosure, with 8 or 11 pin type plug.
- d. Pilot light indication of power-to-coil and coil retainer clips.
- e. Coil rated for 50 and 60 Hz service.
- f. Acceptable Manufacturers: Relays shall be Potter Brumfield, Model KRPA.
- 2. Relays used for across-the-line control (start/stop) of 120V motors, 1/4 HP, and 1/3 HP, shall be rated to break minimum 10 Amps inductive load. Relays shall be IDEC.
- 3. Relays used for stop/start control shall have low voltage coils (30 VAC or less), and shall be provided with transient and surge suppression devices at the controller interface.
- H. General Purpose Power Contactors: NEMA ICS 2, AC general-purpose magnetic contactor. ANSI/NEMA ICS 6, NEMA type 1enclosure. Manufacturer shall be Square 'D', Cutler-Hammer or Westinghouse.
- I. Control Transformers: Furnish and install control transformers as required. Control transformers shall be machine tool type, and shall be US and CSA listed. Primary and secondary sides shall be fused in accordance with the NEC. Transformer shall be proper size for application, and mounted in minimum NEMA-1 enclosure.
  - 1. Transformers shall be manufactured by Westinghouse, Square 'D', or Jefferson.
- J. Time Delay Relays (TDR): TDRs shall be capable of on or off delayed functions, with adjustable timing periods, and cycle timing light. Contacts shall be rated for the application with a minimum of two (2) sets of Form C contacts, enclosed in a dustproof enclosure.
  - 1. TDRs shall have silver cadmium contacts with a minimum life span rating of one million operations. TDRs shall have solid state, plug-in type coils with transient suppression devices.
  - 2. TDRs shall be UL and CSA listed, Crouzet type.
- K. Electric Push Button Switch: Switch shall be momentary contact, oil tight, push button, with number of N.O. and/or N.C. contacts as required. Contacts shall be snap-action type, and rated for minimum 120 Vac operation. Switch shall be 800T type, as manufactured by Allen Bradley.
- L. Pilot Light: Panel-mounted pilot light shall be NEMA ICS 2 oil tight, transformer type, with screw terminals, push-to-test unit, LED type, rated for 120 VAC. Unit shall be 800T type, as manufactured by Allen-Bradley.
- M. Alarm Horn: Panel-mounted audible alarm horn shall be continuous tone, 120 Vac Sonalert solid-state electronic signal, as manufactured by Mallory.
- N. Electric Selector Switch (SS): Switch shall be maintained contact, NEMA ICS 2, oil-tight selector switch with contact arrangement, as required. Contacts shall be rated for minimum 120 Vac operation. Switch shall be 800T type, as manufactured by Allen-Bradley.

# 2.17 DUCT SMOKE DETECTOR

A. Photoelectric detector with sampling tube that spans the entire width of duct. .

Lake View HS: Interior & Exterior Renovations 23 09 21 – 17 2016-46211-MCR

- B. Velocity Rating : 100 to 4000 fpm or 500 to 4000fpm depending on the minimum velocity in the duct. Provide the 100 to 4000 fpm detector if the min duct velocity is below 550 fpm.
- C. Output Contact: Alarm, two sets form "C" rated at 10amps 115V resistive. One set of alarm contacts for BAS monitoring and fan shutdown. Trouble, one set of contacts.
- D. Temperature & RH limits: 32 to 120°F and 10 to 85% relative humidity.
- E. Acceptable Manufacturer:
  - 1. Invensys FIREX model 2650
  - 2. Sensor Systems DH100ACDCLP
  - 3. Air Products and Controls SL-2000

# 2.18 NAMEPLATES

- A. Provide engraved phenolic or micarta nameplates for all equipment, components, and field devices furnished. Nameplates shall be 1/8 thick, black, with white center core, and shall be minimum 1" x 3", with minimum 1/4" high block lettering. Nameplates for devices smaller than 1" x 3" shall be attached to adjacent surface.
- B. Each nameplate shall identify the function for each device.

#### 2.19 TESTING EQUIPMENT

A. Contractor shall test and calibrate all signaling circuits of all field devices to ascertain that required digital and accurate analog signals are transmitted, received, and displayed at system operator terminals, and make all repairs and recalibrations required to complete test. Contractor shall be responsible for test equipment required to perform these tests and calibrations. Test equipment used for testing and calibration of field devices shall be at least twice as accurate as respective field device (e.g., if field device is +/-0.5% accurate, test equipment shall be +/-0.25% accurate over same range).

# **PART 3 - EXECUTION**

# 3.1 INSPECTION

A. Examine areas and conditions under which control systems are to be installed. Do not proceed with work until unsatisfactory conditions have been corrected in manner acceptable to Contractor.

# 3.2 INSTALLATION OF CONTROL SYSTEMS

- A. General: Install systems and materials in accordance with manufacturer's instructions, roughing-in drawings and details shown on drawings. Install electrical components and use electrical products complying with requirements of National Electric Code and all local codes.
- B. Main Control Air Piping: All main air piping between the compressors and the control panels shall be copper, run per ASTM B88

Lake View HS: Interior & Exterior Renovations 23 09 21 – 18 2016-46211-MCR

- C. Branch Control Air Piping: Accessible tubing is defined as that tubing run in mechanical equipment rooms; inside mechanical equipment enclosures, such as heating and cooling units, instrument panels; across roofs, in pipe chases, etc. Inaccessible tubing is defined as that tubing run in concrete slabs; furred walls; or ceilings with no access.
  - 1. Provide copper tubing with maximum unsupported length of 3'-0", for accessible tubing run exposed to view. Polyethylene tubing may be used in lieu of above, when run within adequately supported, rigid enclosure, such as metallic raceways, or EMT. Terminal single-line connections less than 18 in length may be copper tubing, or polyethylene tubing run inside flexible steel protection. Accessible tubing run in concealed locations, such as pipe chases, suspended ceilings with easy access, etc. may be copper or polyethylene bundled and sheathed tubing.
  - 2. Provide copper or polyethylene tubing for inaccessible tubing, other than in concrete pour. If polyethylene tubing is used, install in EMT or vinyl-jacketed polyethylene tubing.
  - 3. Polyethylene piping may be used above suspended ceiling without conduit provided it is run in a neat and orderly fashion, bundled where applicable, and completely suspended (strapped to rigid elements or routed through wiring rings) away from areas of normal access. Tubing shall not be laid on the ceiling or duct.
  - 4. Pressure test control air piping at 30 psi (207 kPa) for 24 hours. Test fails if more than 2 psi loss occurs.
  - 5. Fasten flexible connections bridging cabinets and doors, neatly along hinge side, and protect against abrasion. Tie and support tubing neatly.
  - 6. Number-code or color-code tubing, except local individual room control tubing, for future identification and servicing of control system. Code shall be as indicated on approved installation drawings.
- D. Control Wiring: The term "control wiring" is defined to include providing of wire, conduit and miscellaneous materials as required for mounting and connection of electric control devices.
  - 1. Wiring System: Install complete wiring system for electric control systems. Install all control wiring external to panels in electric metallic tubing or raceway. On Renovation projects, wiring in finished areas shall be routed in wire mold. The routing of wiring in finished areas must be specifically approved by the AOR/EOR. Installation of wiring shall generally follow building lines. Install in accordance with National Electrical Code and Division 26 of this Specification. Fasten flexible conductors bridging cabinets and doors, neatly along hinge side, and protect against abrasion. Tie and support conductors neatly.
  - 2. Control Wiring Conductors: Install control wiring conductors, without splices between terminal points, color-coded. Install in neat workmanlike manner, securely fastened. Install in accordance with National Electrical Code and Division 26 of this Specification.
  - 3. Communication wiring, signal wiring and low voltage control wiring shall be installed separate from any wiring over thirty (30) volts. Signal wiring shield shall be grounded at controller end only, unless otherwise recommended by the controller manufacturer.
  - 4. All WAN and LAN Communication wiring shield shall be terminated as recommended by controller manufacturer. All WAN and LAN Communication wiring shall be labeled with a network number, device ID at each termination and shall correspond with the WAN and LAN system architecture and floor plan submittals. All WAN and LAN cabling shall comply with applicable Division 26 requirements.

- 5. Number-code or color-code conductors appropriately for future identification and servicing of control system. Code shall be as indicated on approved installation drawings.
- E. Control Valves: Install so that actuators, wiring, and tubing connections are accessible for maintenance. Where possible, install with valve stem axis vertical, with operator side up. Where vertical stem position is not possible, or would result in poor access, valves may be installed with stem horizontal. Do not install valves with stem below horizontal, or down.
- F. Freezestats: Install freezestats in a serpentine fashion where shown on drawing. Provide one foot of element for each square foot of coil face area. The length of element not just down stream of the coil will not be included in the coverage calculation. Where coil face area exceeds required length of element, provide multiple devices, wired in parallel for normally open close on trip application, wired in series for normally closed, open on trip application. Adequately support with coil clips such that sensor is not in direct contact with equipment. Coordinate the location of the switch such that it is normally accessible.
- G. Averaging Temperature Sensors: Cover no more than three square feet per linear foot of sensor length except where indicated. Generally the sensor will be located where flow is sufficiently homogeneous/adequately mixed, consult AE for requirements.
- H. Differential Pressure Transmitters: Provide valve bypass arrangement to protect against over pressure damaging the transmitter.
- I. Flow Switches: Where possible, install in a straight run of pipe at least 15 diameters in length to minimize false indications.
- J. Current Switches for Motor Status Monitoring: Adjust so that setpoint is below minimum operating current and above motor no load current.
- K. Cutting and Patching Insulation: Repair insulation to maintain integrity of insulation and vapor barrier jacket. Use hydraulic insulating cement to fill voids and finish with material matching or compatible with adjacent jacket material.

# **END OF SECTION**

# SECTION 09 67 25

# **RESINOUS EPOXY FLOORING**

# PART 1 - GENERAL

# 1.1 SUMMARY

A. Section includes epoxy flooring in Kitchen, Kitchen Storage and Kitchen Office as indicated and as specified.

#### 1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's technical information and installation instructions for each type of special flooring and accessory items. Include certification indicating compliance of materials with requirements.
- B. Shop Drawings: Submit detailed shop drawings showing edge, joint, and penetration details, details for treatment of cracks, and overall plan layout.
- C. Submit the following samples for approval before commencing operations or ordering construction materials:
  - 1. Epoxy Flooring: Three samples of each finish and color combination, 12" x 12" each.
  - 2. Stop Strips: Three inch lengths of each type of strip.
- D. Maintenance Literature: Written recommended maintenance procedures.

#### 1.3 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer shall have produced the types of flooring systems required for not less than 10 years, with not less than 5 similar projects that have been in successful use for not less than 5 years. Manufacturer shall have the capacity to produce the quantities required without causing delays.
  - 1. Single Source Responsibility: Obtain primary flooring materials including primers, resins, hardening agents, finish or sealing coats from a single manufacturer with not less than 5 years of successful experience in supplying principal materials for work of type required. Provide secondary materials only of type and from source recommended by manufacturer of primary materials.
- B. Installer Qualifications: Minimum of 5 years experience installing plastic matrix or epoxy flooring on comparable projects. All work shall be performed by an installer trained, approved and authorized (in writing) by the epoxy flooring manufacturer, and has had experience in the actual application of the specified material.

# 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Materials shall be delivered to the job in original containers or bundles with seals unbroken and labels intact, and stored in a place protected from damage, moisture, and exposure to the elements.
- B. In the event of damage, immediately make all repairs and replacements necessary to the satisfaction of the Architect and at no additional cost to the Owner.

#### 1.5 PROJECT CONDITIONS

A. In cold weather, the building shall be heated during the installation of epoxy flooring to maintain a uniform temperature in the range of 55 deg F to 75 deg F. Ventilation shall also be provided. Do not apply flooring when subfloor or air temperature is below 55 deg F.

# PART 2 - PRODUCTS

# 2.1 MANUFACTURERS

- A. Manufacturer: Subject to compliance with requirements provide one of the following:
  - 1. Crossfield Products; Dex-o tex; Cheminert K.
  - 2. HB Fuller; Tech Products Epoxy Flooring.
  - 3. General Polymers; TPM 115 U-4.
  - 4. Stonhard; Stonclad, Stonkote GS4.
  - 5. Selby/Ucrete; Selbaclad 415.

#### 2.2 MATERIALS

- A. Flooring shall be epoxy flooring consisting of a 100% solids pigmented epoxy resin base and epoxy curing agent:
- B. Matrix color shall be as selected by Architect.
- C. Acceptable aggregates shall be granite, traprock, or silica quartz in special sizes. Marble dust or Pool mix shall not be used as a filler.
- D. Primer for concrete subfloor shall be as recommended by the epoxy flooring manufacturer, twopart epoxy primer.

#### 2.3 ACCESSORIES

- A. Sealants: As recommended by flooring manufacturer for type of service and joint condition indicated.
- B. Stop and Divider Strips: Strips shall be stainless steel and shall be installed in accordance with instructions supplied by the manufacturer of epoxy flooring.

# PART 3 - EXECUTION

#### 3.1 INSPECTION

- A. Examine the areas and conditions under which flooring is be applied. Do not proceed with the work until unsatisfactory conditions have been corrected.
- B. Starting of work will be construed as acceptance of the surfaces within any particular area.

#### 3.2 PREPARATION

- A. Surfaces which are to be covered with epoxy flooring shall be clean and dry, reasonably smooth and free from loose and foreign materials, and any holes and cracks in subfloor shall be pointed flush in accordance with epoxy flooring manufacturer's instructions.
- B. Before applying flooring, concrete subfloor shall be swept to remove all loose materials, dirt and dust. Prepare concrete by mechanical means including use of a scabbler, scarifier or shot blast machine for removal of bond inhibiting materials such as curing compounds or laitance.
- C. Method of application and quantities of materials shall be in strict accordance with the instructions of the manufacturer whose materials are used, by an applicator certified by such manufacturer and under his supervision.
- D. Prime concrete surfaces in accordance with epoxy flooring manufacturer's recommendations:
  - 1. Mix and apply primer over properly prepared substrate with strict adherence to manufacturer's installation procedures and coverage rates.
  - 2. Coordinate timing of primer application with application of troweled mortar to ensure optimum adhesion between resinous flooring materials and substrate.
- E. Carefully mix and prepare materials for flooring systems in compliance with manufacturer's instructions.
- F. Perform bond tests for epoxy flooring in accordance with manufacturer's instruction and record results. Do not install flooring until adequate bond has been demonstrated.

# 3.3 INSTALLATION

- A. Install stop strips at doorways and at top of wall be in accordance with instructions supplied by the manufacturer of epoxy flooring.
- B. Provide divider strips at cove base set in epoxy flooring, parallel to all cove base sections. Extend divider strips on the floor into adjacent cove base. Provide or extend divider strip through internal corners of floor.
- C. Set stop strips and divider strips straight, true, without kinks or distortions, fitted tightly and square at all intersections.
- D. Epoxy flooring shall be installed at a minimum thickness of 3/16 inch in strict accordance with the manufacturer's application directions.

- E. Form wall base with cove base at floor of 1/4 inch radius and square top neatly metered at corners, and with intersections with floor straight and flush. Finish shall match floor. Wall base shall be 6" high.
- F. The finished surfaces shall be smooth and uniform in texture and appearance, the same color and texture as approved samples, and free of pitting, bubbles, trowel marks, separation between adjacent floor mix by the Architect, shall be repaired or replaced to the Architect's satisfaction at no additional cost to the Owner.

# 3.4 PROTECTION OF EPOXY FLOORING

- A. Close areas to traffic during installation of epoxy flooring.
- B. Cure resinous flooring in compliance with manufacturer's directions, taking care to prevent contamination during stages of application and prior to completion of curing.
- C. Clean flooring after installation and finishing operations are completed, complying with manufacturer's instructions.
- D. Cover floor with heavy reinforced Kraft paper after epoxy flooring has cured sufficiently and maintain in position.
- E. Clean flooring as recommended by manufacturer when building is ready for occupancy.

# **END OF SECTION**
#### SECTION 26 43 00

#### **GUTTER HEAT TRACING**

#### PART 1 - GENERAL

#### 1.1 SUMMARY

A. A.This Section includes a UL Listed, CSA Certified and FM Approved roof and gutter de-icing heat-tracing system consisting of self-regulating heating cable, connection kits and electronic controller. A. System for roof and gutter de-icing with ambient and moisture sensing control, monitoring, integrated ground- fault circuit protection and Building Management System (BMS) communication capabilities.

#### 1.2 SUBMITTALS

- A. Product Data
  - 1. Heating cable data sheet
  - 2. UL, CSA, FM approval certificates for roof and gutter de-icing
  - 3. Roof and gutter de-icing design guide
  - 4. System installation and operation manual
  - 5. System installation details
  - 6. Connection kits and accessories data sheet
  - 7. Controller/Power Panel data sheet
  - 8. Controller/Power Panel wiring diagram

#### 1.3 QUALITY ASSURANCE

- A. Manufacturers' Qualifications
  - 1. Manufacturer to show minimum of thirty (30) years experience in manufacturing electric self- regulating heating cables.
  - 2. Manufacturer will be ISO-9001 registered.
  - 3. Manufacturer to provide products consistent with IEEE 515.1 and CSA 22.2 No 130-03 requirements.
- B. Installer Qualifications
  - 1. System installer shall have complete understanding of product and product literature from manufacturer or authorized representative prior to installation. Electrical connections shall be performed by a licensed electrician.
- C. Regulatory Requirements and Approvals
  - 1. The system (heating cable, connection kits, and controller) shall be UL Listed, CSA Certified and FM Approved for roof and gutter de-icing

D. Electrical Components, Devices, and Accessories: Listed and labelled as defined in Chicago Electrical Code, Article 100, by a Nationally Recognized Testing Laboratory (NRTL), and marked for intended use.

#### 1.4 DELIVERY, STORAGE AND HANDLING

- A. General Requirements: Deliver, store and handle products to prevent their deterioration or damage due to moisture, temperature changes, contaminates or other causes.
- B. Delivery and Acceptance Requirements: Deliver products to site in original, unopened containers or packages with intact and legible manufacturers' labels identifying the following:
  - 1. Product and Manufacturer
  - 2. Length/Quantity
  - 3. Lot Number
  - 4. Installation and Operation Manual
  - 5. MSDS (if applicable)
- C. Storage and Handling Requirements
  - 1. Store the heating cable in a clean, dry location with a temperature range 0oF (-18oC) to 140oF (60oC).
  - 2. Protect the heating cable from mechanical damage.

#### 1.5 WARRANTY

- A. Extended Warranty
  - 1. Manufacturer shall provide ten (10) year limited warranty for GM-1XT OR GM-2XT heating cables and components. Provide one (1) year warranty for all heat trace controllers.
  - 2. Contractor shall submit to owner results of installation tests required by the manufacturer.

#### PART 2 - PRODUCTS

#### 2.1 APPROVED MANUFACTURERS

- A. Contract Documents are based on manufacturer and products named below to establish a standard of quality.
- B. Basis of Design
  - 1. Basis of Design Product Selections
    - a. Manufacturer
      - 1) Manufacturers shall have more than thirty (30) years' experience with manufacture & installation self-regulating heating cables.
      - 2) Manufacturer shall provide UL, CSA, FM approval certificates for roof and gutter de-icing

- b. Roof and Gutter De-icing System
  - 1) Raychem IceStop self-regulating heating cable with fluoropolymer (-XT) outer jacket
  - 2) Raychem FTC connection kits and accessories
  - 3) DigiTrace SMPG1 control panel
  - 4) DigiTrace ProtoNode multi-protocol device server

#### 2.2 PRODUCTS, GENERAL

- A. Single Source Responsibility: Furnish heat tracing system for roof and gutter de-icing from a single manufacturer.
- B. The system (heating cable, connection kits, and controller) shall be UL Listed, CSA Certified and FM Approved for roof and gutter de-icing. No parts of the system may be substituted or exchanged.

#### 2.3 PRODUCTS

- A. Self-Regulating Heating Cable
  - 1. The heating cable shall consist of a continuous core of conductive polymer that is radiation cross- linked, extruded between two (2) 16 AWG nickel-plated copper bus wires that varies its power output in response to temperature changes.
  - 2. The heating cable shall have a modified polyolefin inner jacket and a tinned-copper braid to provide a ground path and enhance the cables ruggedness.
  - 3. The heating cable shall have a fluoropolymer (XT) outer jacket for enhanced mechanical and chemical protection.
  - 4. The heating cable shall have an inherently UV-resistant outer jacket (fluoropolymer).
  - 5. The heating cable shall have a self-regulating factor of at least 75 percent. The self-regulating factor is defined as the percent reduction of the heating cable power output going from a  $0^{\circ}$ F to  $80^{\circ}$ F roof temperature.
  - 6. The heating cable shall operate on line voltages of 120, 208, 240 OR 277 volts without the use of transformers.
  - 7. The heating cable power output shall be 12 W/ft at 32°F in ice or snow.
  - 8. The heating cable shall be part of a UL Listed, CSA Certified and FM Approved system.
  - 9. The outer jacket of the heating cable shall have the following markings:
    - a. Heating cable model number
    - b. Agency listings
    - c. Meter mark
    - d. Lot/Batch ID
- B. Heating Cable Connection Kits
  - 1. Manufacturer shall provide power connection, splice/tee and end seal kits compatible with selected heating cable.
  - 2. Installation shall not require the installing contractor to cut into the heating-cable core to expose the bus wires.
  - 3. Connection kits shall be rated NEMA 4X to prevent water ingress and corrosion. All components shall be UV stabilized.

- 4. Connection kits shall be UL Listed, CSA Certified and FM Approved.
- C. Heating Cable Installation Accessories
  - 1. Roof clips Used to secure heating cables to roofs and gutters. The clips may be attached with mechanical fasteners (screws or nails) on shake roofs or using adhesive on metal, slate or composite roofing.
  - 2. Downspout Hangers Used to provide mechanical protection and strain relief to the heating cable as it goes over sharp edges and to hold the heating cable in place at the top of downspouts.
- D. Control Methodology
  - 1. Group Control
    - a. Heating cable manufacturer shall provide a group snow/ice melting controller with built-in GFPD compatible with selected heating cable.
    - b. Group snow/ice melting controller shall have an integrated 30-mA ground-fault circuit breaker.
    - c. Group snow/ice melting controller shall have 18 ground-fault circuit breakers rated up to 30 A.
    - d. Group snow/ice melting controller shall have a main circuit breaker.
    - e. Group snow/ice melting controller shall be capable of operating with supply voltage of 208 V.
    - f. Group snow/ice melting controller shall be capable of supporting up to six (6) aerial or gutter mounted temperature/moisture sensors.
    - g. Group snow/ice melting controller enclosure shall be NEMA 3R.
    - h. Group snow/ice melting controller shall have an adjustable hold-on timer (0 10 hours).
    - i. Group snow/ice melting controller shall have an integrated high-limit temperature sensor.
    - j. Electronic snow/ice melting controller shall have contacts to interface with an Energy Management Computer (EMC).
    - k. Digital controller shall have c-UL-us approvals

#### 2.4 SYSTEM LISTING

- A. The system (heating cable, connection kits, and controller) shall be UL Listed, CSA Certified and FM Approved for roof and gutter de-icing.
- B. The roof and gutter de-icing system shall have a design, installation and operating manual.

#### PART 3 - EXECUTION

- 3.1 INSTALLERS
  - A. Acceptable Installers
    - 1. Subject to compliance with requirements of Contract Documents, installer shall be familiar with installing heat-trace cable and equipment.

Lake View HS: Interior & Exterior Renovations 26 43 00 - 4 2016-46211-MCR

GUTTER HEAT TRACING

#### 3.2 INSTALLATION

- A. Comply with manufacturer's recommendations.
- B. Install and secure the heating cable in accordance with and Operation Manual.
- C. Install electric heating cable according to the drawings and the manufacturer's instructions. The installer shall be responsible for providing a complete functional system, installed in accordance with applicable national and local requirements.
- D. Provide ambient and moisture sensor for each controller.
- E. Provide heat tracing in gutters as shown on plans. Provide heat tracing 15" above gutter on roof. Provide heat tracing in downspouts, length per manufacturer's recommendations.
- F. Grounding of controller shall be equipment according to Section 26 05 26 "Grounding and Bonding for Electrical Systems."
- G. Connection of all electrical wiring shall be according to Section 26 05 11 "Conductors and Cables for Electrical Systems."
- 3.3 FIELD QUALITY CONTROL
  - A. Start-up of system shall be performed by factory technician or factory representative per the owner's requirements.
  - B. Field Testing and Inspections
    - 1. The system shall be commissioned in accordance to the Manufacturer's Installation and Operation manual.
    - 2. The heating cable circuit integrity shall be tested using a 2500 Vdc megohimmeter at the following intervals below. Minimum acceptable insulation resistance shall be 1000 megohims or greater.
      - a. Before installing the heating cable
      - b. After heating cable has been installed onto the pipe
      - c. After installing connection kits
      - d. After the thermal insulation is installed onto the pipe
      - e. Prior to initial start-up (commissioning)
      - f. As part of the regular system maintenance
    - 3. The technician shall verify that the snow/icing melting controller and control parameters are set to the application requirements.
    - 4. The technician shall verify that the snow/icing melting controller and alarm contacts are corrected and connected properly.
    - 5. All commissioning results will be recorded and presented to the owner.

#### 3.4 MAINTENANCE

- A. Maintenance Service
  - 1. Comply with manufacturer's recommendations for Installation and Operation Manual.

Lake View HS: Interior & Exterior Renovations26 43 00 - 52016-46211-MCR

GUTTER HEAT TRACING

#### **END OF SECTION**



Date of Issue: April 19, 2017 PBC: Lake View High School Renovation Project\_C1583 - Addendum No. 1

# LOCATIONS AND QUANTITIES IN THE FIELD. ELEVATIONS AND SHALL BE CONSIDERED PART OF SAME SCOPE. 8. WASH AND SCRUB ALL MASONRY AND STONE FACADE SURFACES AFTER TUCKPOINTING WORK IS COMPLETE 3. EXISTING MECHANICAL EQUIPMENT, CURBS, EXHAUST FANS, VENTS, ETC. ARE TO REMAIN UNLESS NOTED OTHERWISE. SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ANY EXISTING SYSTEMS. 12. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ROOF TOP EQUIPMENT, CURB EXTENSIONS, EQUIPMENT CONNECTIONS, ETC. TO BE REMOVED AND REPLACED. MOUNTED AIR CONDITIONING UNITS. 16. REFER TO A42 FOR TYPICAL ROOFING ASSEMBLY DETAILS. RAIN LINE RODDING NOTES PHASE 1: BY GENERAL CONTRACTOR - PRIOR TO START OF WORK PHASE 2: BY GENERAL CONTRACTOR - AFTER COMPLETION OF CONSTRUCTION WORK, PRIOR TO SUBSTANTIAL COMPLETION FUNCTIONAL AND OPERATIONAL AND WAS NOT DAMAGED DURING CONSTRUCTION. ROOF KEY NOTES REFER TO TYPICAL SHINGLE DETAILS ON A4.4 COPING AS NOTED ABOVE. PROVIDE TWO STAINLESS STEEL PINS PER COPING PIECE. (*[[]]*) <u>888888</u> MASONRY BELOW DRIP EDGE. SUPPORT LADDER CONSTRUCTION. GUTTERS IN THE FIELD. ACCESSORIES AND PIPING TO TIE INTO ROOF CONSTRUCTION AND EXISTING DRAIN LINE. REPLACE COPPER SUMP, SCUPPER, FLASHING AND DOWNSPOUT. REBUILD MASONRY SCUPPER OPENING. APPROX. 1'-@" X 2'-@" SHOWN DASHED, CONTRACTOR TO VERIFY FULL EXTENT OF WORK AREA.

## SENERAL ROOF NOTES

N THE FIELD.

1. CONTRACTOR 15 RESPONSIBLE FOR CONFIRMING EXISTING CONDITIONS. THIS INCLUDES, BUT 15 NOT LIMITED TO, ROOF PENETRATION TYPES AND QUANTITIES, DIMENSIONS, ROOF DRAINAGE, ETC. DRAWINGS ARE DIAGRAMMATIC. DIMENSIONS SHOWN ON DRAWINGS ARE BASED UPON ARCHIVAL DRAWINGS AND MAY VARY

2. GRIND AND TUCKPOINT ALL EXTERIOR MASONRY FACADES INCLUDING EXPOSED ROOF SIDE FACES OF PARAPET WALLS TO REMAIN, 100% OF BUILDING. ALL GRINDING AND TUCKPOINTING WORK TO FOLLOW CONTRACT DOCUMENT REQUIREMENTS. PROVIDE TOOLED CONCAVE JOINT REFER TO BUILDING ELEVATIONS FOR ADDITIONAL INFORMATION FOR WORK RELATED TO COPINGS AND MASONRY WALL WORK TO BE COORDINATED WITH ROOF RELATED WORK. 4. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL DOUNSPOUTS, AND SCUPPERS TO PROPERLY PERFORM MASONRY REPAIR AND TUCKPOINTING WORK. THE DRAWINGS ARE FOR REFERENCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTE ALL DOWNSPOUT LOCATIONS ON THE BUILDING PRIOR TO SUBMITTING.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURFACE MOUNTED EQUIPMENT AND UTILITIES THAT REMAIN IN PLACE AROUND AREAS OF WORK INCLUDING BUT NOT LIMITED TO ELECTRICAL CABLES, LIGHTING, EQUIPMENT SUPPORT STRUCTURES AND WINDOW MOUNTED AIR CONDITIONING UNITS. 6. DIMENSIONS, QUANTITIES AND NUMERIC NOTATIONS INDICATE APPROXIMATE VALUES/QUANTITIES OF REQUIRED WORK FOR BIDDING PURPOSES. CONTRACTOR SHALL VERIFY EXACT

1. NOT ALL ELEVATIONS ARE SHOWN BUT ALL MASONRY WORK IDENTIFIED IN THESE DRAWINGS SHALL INCLUDE ASSOCIATED CORNERS AND RETURNS ADJACENT TO WALLS SHOWN ON THE

10. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS NOT TO DISPUPT EXISTING BUILDING SYSTEMS WHICH MAY BE AFFECTED BY THE WORK. CONTRACTOR 11. CONTRACTOR SHALL PROCEED WITH CARE IN REMOVING THE EXISTING ROOF. CONTRACTOR ASSUMES RESPONSIBILITY FOR MAINTAINING INTEGRITY OF EXISTING ROOF DECK. ANY REPAIRS TO DAMAGED DECK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3. REFER TO ELEVATION DRAWINGS FOR MASONRY REPAIR AND TUCKPOINTING WORK THAT IS TO BE COORDINATED WITH ROOF WORK. 14. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A WEATHERTIGHT BARRIER DURING CONSTRUCTION ACTIVITIES AND PROTECTING ALL EXISTING SURFACE MOUNTED EQUIPMENT AND UTILITIES THAT REMAIN IN PLACE AROUND AREAS OF WORK INCLUDING BUT NOT LIMITED TO ELECTRICAL CABLES, LIGHTING, EQUIPMENT SUPPORT STRUCTURES AND WINDOW

15. REPAIR, REPLACEMENT & PATCHING WORK RELATED TO THE ROOFS SHALL PROVIDE POSITIVE SLOPE DRAINAGE TO DRAINS, SCUPPERS AND/OR GUTTERS.

ROD AND TELEVISE ALL ROOF DRAINS AND HARDPIPED DRAIN LINES THAT ARE CONNECTED TO DOUNSPOUTS, FROM DRAIN SYSTEM OPENING AT ROOF LEVEL AND AT HARDPIPE CONNECTIONS FOR DOWNSPOUTS, TO CONNECTION TO MUNICIPAL SEWER. THIS SHALL BE COMPLETED IN TWO (2) PHASES AS FOLLOWS:

ALL PIPES SHALL BE INSPECTED WITH A CAMERA FOR SIGNS OF BLOCKAGE, DETERIORATION, OR CRACKS PER CITY OF CHICAGO GUIDELINES, WITH THE INTENT BEING TO UNCOVER ANY ADDITIONAL PROBLEMS BEFORE CONSTRUCTION BEGINS AND TO VERIFY AFTER CONSTRUCTION THAT THE STORM SYSTEM IS FULLY

> DEMOLISH BALLASTED, BUILT UP ROOF SYSTEM IN THEIR ENTIRETY DOWN TO ROOF DECK (APPROX. 38,015 S.F. - V.I.F.). REPAIR / REPLACE EXIST. DECK AS REQ'D. DUE TO DAMAGE. PROVIDE ROOFING SYSTEM OVER EXISTING DECK AS FOLLOWS: 4.4"

> POLYISO INSULATION, 5/8" GYP. COVERBOARD, MODIFIED BITUMEN ROOFING SYSTEM. PROVIDE ALL SHEET METAL DETAILS INCLUDING COPPER COPINGS, SCUPPERS, GUTTERS AND DOWNSPOUTS, ETC. COORDINATE WITH MASONRY WORK ON ELEVATIONS. DEMOLISH FLAT SEAM COPPER ROOF SYSTEM IN THEIR ENTIRETY DOWN TO ROOF DECK (APPROX. 8,765 S.F. - V.I.F.). REPAIR / REPLACE EXIST. DECK AS REQ'D. DUE TO DAMAGE. PROVIDE ROOFING SYSTEM OVER EXISTING DECK AS FOLLOWS: 4.4" POLYISO INSULATION, 5/8" GYP. COVERBOARD, MODIFIED BITUMEN ROOFING SYSTEM. PROVIDE ALL SHEET METAL DETAILS INCLUDING COPPER COPINGS, SCUPPERS, GUTTERS AND DOWNSPOUTS, ETC. COORDINATE WITH MASONRY WORK ON ELEVATIONS. DEMOLISH EXISTING ASPHALT SHINGLE ROOFING SYSTEM AND ACCESSORIES IN THEIR ENTIRETY DOWN TO ROOF DECK, (APPROX. 25,200 SF) PROVIDE ROOF SYSTEM OVER EXISTING DECK AS FOLLOWS: LAMINATED ASPHALT ARCHITECTURAL SHINGLES OVER ICE AND WATER SHIELD AND UNDERLAYMENT. PROVIDE ALL SHEET METAL DETAILS INCLUDING INLAID COPPER GUTTER SYSTEM, COPINGS, SCUPPERS AND DOWNSPOUTS, ETC. COORDINATE WITH MASONRY WORK ON ELEVATIONS.

> DEMOLISH CAPPED OPENING DOWN TO BELOW EXIST. ROOF DECK AS REQ'D. TO ACCOMMODATE PROPOSED SCOPE OF WORK. PROVIDE STEEL FRAMING, METAL DECK AND ROOFING SYSTEM, SLOPED TO MATCH ADJACENT ROOF LEVEL. COORDINATE WITH ROOFING SYSTEM WORK. REFER TO DETAIL 5/A4.2 AND STRUCTURAL DRAWINGS.

> REMOVE ENTIRE PARAPET WALL DOWN TO ROOF DECK AND REMOVE VENEER WYTHE TO CORNICE. PROVIDE MULTI-WYTHE MASONRY PARAPET WALL AND STONE COPING. MATCH HEIGHT OF ORIGINAL PARAPET WALL. TOOTH-IN MASONRY WYTHES TO ADJACENT MASONRY WALL. PROVIDE FLASHING/COUNTERFLASHING SYSTEMS, COORDINATE WITH ROOF REPLACEMENT WORK ON A4.0 AND MASONRY WORK ON ELEVATIONS FOR FULL EXTENT OF WORK.

> REMOVE AND RESET EXISTING STONE COPING ON A FULL BED OF MORTAR WITH CONTINUOUS STAINLESS STEEL THROUGH-WALL FLASHING, PROVIDE FULL HEAD JOINTS RAKED BACK AND PROVIDE SEALANT, PROVIDE TWO STAINLESS STEEL PINS PER COPING PIECE. PROVIDE FOR REPAIR OR REPLACEMENT OF DAMAGED STONE COPING AS FOLLOWS: REPAIR: PROVIDE FOR 150 LF OF REPAIR OF DAMAGED STONE COPING, EXACT LOCATIONS TO BE DETERMINED IN THE FIELD. LOCALLY PATCH AND EPOXY REPAIR EXISTING STONE COPING. ROUT AND EPOXY INJECT CRACKED STONE COPING. SET

> REPLACE: PROVIDE FOR 150 LF OF REPLACEMENT OF DAMAGED STONE COPING, EXACT LOCATIONS TO BE DETERMINED IN THE FIELD. MATCH THICKNESS, PROFILE AND COLOR OF EXISTING COPING . SET COPING AS NOTED ABOVE.

REMOVE AND REPLACE COPPER COPING INCLUDING ASSOCIATED BRACKETS. REPLACE WITH COPPER ASSEMBLIES THAT MATCH PROFILE OF ORIGINAL COMPONENTS. PROVIDE COMPATIBLE SEALANT FOR ALL JOINTS. PROVIDE FOR APPROX. 300 LF OF WOOD BLOCKING TO REPLACED TO SUPPORT NEW ASSEMBLIES. LOCATIONS TO BE VERIFIED IN THE FIELD.

CLAY TILE COPING TO BE REPLACED WITH STONE COPING. REMOVE EXISTING CLAY TILE COPING AND PROVIDE STONE COPING THAT (R8) MATCHES DIMENSIONS, STYLE AND PROFILE OF TYPICAL STONE COPING UNIT. STONE COPINGS TO BE SET ON A FULL BED OF MORTAR WITH CONTINUOUS STAINLESS STEEL THROUGH-WALL FLASHING. PROVIDE FULL HEAD JOINTS RAKED BACK AND PROVIDE SEALANT.

> DEMOLISH AND REPLACE EXISTING STONE BALUSTRADE. PROVIDE STONE BALLUSTRADE TO MATCH PROFILE, DIMENSIONS AND FINISH OF EXISTING BALLUSTRADES. STONE BALLUSTRADES TO BE SET ON A FULL BED OF MORTAR WITH CONTINUOUS STAINLESS STEEL THROUGH-WALL FLASHING. PROVIDE FULL HEAD JOINTS RAKED BACK AND PROVIDE SEALANT. PROVIDE STAINLESS STEEL ANCHORS TO EXISTING MASONRY WALL BELOW. COORDINATE WITH COPPER CORNICE AND ROOFING REPLACEMENT.

LOCALLY DEMOLISH 3 COURSES OF MASONRY, 2 WYTHES DEEP, ABOVE EXPOSED STEEL BEAM (FULL WIDTH OF WI2 BEAM. APPROX. 24'-0" AT EA.). SCRAPE, PRIME AND PAINT ALL EXPOSED SURFACES OF STEEL BEAM USING TYPICAL EXTERIOR STEEL COATING SYSTEM. PROVIDE MULTI-WYTHE MASONRY INFILL TO REPLACE MASONRY REMOVED FOR ACCESS TO BEAM AND TIE INTO EXISTING MASONRY WITH STAINLESS STEEL TIES. PROVIDE FLASHING WITH END DAMS, DRIP EDGE AND CELL VENTS AT MASONRY/BEAM INTERFACE. PROVIDE PRE-FINISHED METAL COVER OVER FACE OF BEAM AND FLASH INTO

REPLACE COPPER SCUPPER, FLASHING AND DOWNSPOUT AND REBUILD ARCHED MASONRY SCUPPER OPENING. APPROX. 1'-0" × 2'-0" R11) OPENING AT PARAPET WITH STAINLESS STEEL SUPPORT ANGLES (1 PER WYTHE, 3 WYTHES TOTAL) COORDINATE WITH PARAPET WALL REBUILDING WORK, SCUPPER/DOWNSPOUT REPLACEMENT AND ROOFING SYSTEM WORK.

EXIST. LIGHT FIXTURES TO BE REMOVED, SALVAGED AND TURNED OVER TO OWNER - STORE IN LOCATION AS DIRECTED BY OWNER. DEMO. EXISTING WIRING, CONDUIT, J BOXES, ETC. BACK TO PANEL. REPLACE WITH CPS STANDARD ROOF MOUNTED SECURITY LIGHTING ON NEW 12 ROOF CURB WITH NEW CONDUIT AND WIRING. RUN FROM PANEL THROUGH ATTIC AND EXTEND THROUGH ROOF AT EACH FIXTURE LOCATION. PROVIDE 1" EXTERIOR GRADE CONDUITS, J-BOXES AND ALL NECESSARY MOUNTING BRACKETS FOR A COMPLETE INSTALLATION. REFER TO TYP. LIGHT MOUNTING DETAIL, ROOF PLANS AND ELECTRICAL DRAWINGS FOR ADD'L. REQ'S.

REMOVE EXISTING ROOF HATCH AND PROVIDE 36"x36" PREFINISHED METAL ROOF HATCH ON ROOF CURB WITH LADDER, APPROX. 12'-0" (1) vertical. Increase roof opening size to accomodate proposed hatch assembly. Provide blocking and framing to

REMOVE EXISTING LADDER AND PROVIDE 10'-0" HIGH WALL MOUNTED SAFETY LADDER WITH FALL PROTECTION CAGE, PAINTED TO MATCH (14) EXIST. PAINTED STEEL - PROVIDE TYPICAL EXTERIOR COATING SYSTEM FOR LADDER.

REMOVE AND REPLACE ALL COPPER CORNICES AND COPPER ORNAMENTAL MEDALLIONS AT ALL DENTALS (TYPE 'A' AND 'B') INCLUDING ASSOCIATED BRACKETS, REPLACE WITH COPPER ASSEMBLIES THAT MATCH PROFILE OF ORIGINAL COMPONENTS, PROVIDE COMPATIBLE SEALANT FOR ALL JOINTS. PROVIDE FOR APPROX. 400 LF OF WOOD BLOCKING TO BE REPLACED TO SUPPORT NEW ASSEMBLIES. LOCATIONS TO BE VERIFIED IN THE FIELD. SHOWN DASHED. MEDALLIONS/DENTALS ARE SPACED AT APPROX. 30" O.C. ALONG ENTIRE CORNICE LINE, SOLDER AROUND ENTIRE PERIMETER OF MEDALLSIONS, REFER TO DETAILS ON A4.3 & A4.6 FOR ADDITIONAL INFORMATION. REMOVE AND REPLACE ALL EXISTING COPPER SCUPPERS, DOWNSPOUTS AND GUTTERS INCLUDING ASSOCIATED BRACKETS AND SUPPORTS, LO SHOWN DASHED, TYPICAL. DOWNSPOUTS SHALL BE INSTALLED TO PROVIDE A COMPLETE DRAINAGE SYSTEM EITHER BY EXTENDING TO ROOF DRAINAGE SYSTEM BELOW WITH SPLASH PAD OR BY DIRECTLY CONNECTING INTO MUNICIPAL STORM WATER SYSTEM AT EXISTING STORM WATER LINES, TO MATCH PREVIOUS SYSTEM INTENT. COORDINATE WITH ROOF REPLACEMENT WORK NOTED IN KEYNOTES RI, R2 AND R3 AND WITH MAGONRY WORK. DRAWINGS ARE FOR REFERENCE. VERIFY EXACT LOCATIONS FOR ALL SCUPPERS, DOWNSPOUTS AND

(1) REMOVE EXIST. ROOF DRAIN ASSEMBLY IN ITS ENTIRETY AND PROVIDE ROOF DRAIN ASSEMBLY (8", V.I.F.) W/ ALL RELATED

), REPAIR DAMAGED ROOF DECK SYSTEM IN AREA OUTLINED. APPROX, AREA AND ROOF TYPE NOTED AT KEYNOTE ON DRAWINGS.  $^{9}$  CONTRACTOR TO VERIFY EXACT AREA AND TYPE OF ROOF DECK SYSTEM. REPAIR / REPLACE SYSTEM AS REQ'D DUE TO DAMAGE. REMOVE AND REPLACE ALL DOWNSPOUTS AND ASSOCIATED BRACKETS, REPLACE WITH COPPER DOWNSPOUT ASSEMBLIES THAT MATCH SIZE AND 19 profile of original components. Provide compatible sealant for all joints. Locations to be verified in the field. Shown dashed, TYPICAL. COORDINATE WITH WORK IDENTIFIED ON ROOF DRAWINGS AND WITH TUCKPOINT WORK INDICATED AT WALLS BEHIND DOWNSPOUTS.

(2) REMOVE AND REPLACE PIPE PENETRATION FLASHING ASSEMBLY IN COORDINATION WITH ROOF REPAIR/PATCH WORK. REFER TO DETAILS

22) OPENING AT PARAPET WITH STAINLESS STEEL SUPPORT ANGLES (1 PER WYTHE, 3 WYTHES TOTAL) FLASH NEW ROOF MEMBRANE PATCH UNDER EXISTING ROOF SYSTEM AND RETURN UP WALLS TO REGLET AND COUNTERFLASHING TO MAINTAIN POSITIVE DRAINAGE. COORDINATE WITH PARAPET WALL REBUILDING WORK, DOUNGPOUT REPLACEMENT AND EXISTING ROOFING SYSTEM. APPROX. AREA

PROVIDE THREE ROWS OF COPPER SNOW GUARDS, STAGGERED AT 24" O.C., MAX, WHERE INDICATED BY DASHED LINE ON ROOF &22 PLAN. ZALESKI MODEL \*4 COPPER SNOW GUARD OR APPROVED EQUIVALENT, UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.



A4.0



ROUT AND EPOXY REPAIR STONE CRACKS AND HOLES. FINISH STONE REPAIR WORK TO MATCH FINISH AND COLOR OF

NEW WALL TO ADJACENT MASONRY WALL. PROVIDE NEW FLASHING/COUNTERFLASHING SYSTEM, COORDINATE WITH ROOF AREAS OF NEW PARAPET WORK TO MAINTAIN WATERTIGHT CONSTRUCTION. REFER TO ROOF DRAWINGS FOR ADDITIONAL

NEW BRICK AND MORTAR TO MATCH EXISTING. PROVIDE STAINLESS STEEL TIES TO BACK-UP STRUCTURE. APPROX. SF

CLAY TILE COPING TO BE REPLACED WITH STONE COPING - REFER TO ROOF PLANS FOR COMPLETE DESCRIPTION OF

STONE COPING TO BE SALVAGED, CLEANED AND REINSTALLED. PROVIDE NEW STONE COPING IN SAME SIZE, SHAPE, PROFILE, COLOR AND TEXTURE WHERE EXISTING CANNOT BE SALVAGED - ASSUME 10% STONE REPLACEMENT. REFER

REMOVE EXISTING METAL WIRE SCREEN AND PATCH FRAME. PROVIDE CPS STANDARD PERFORATED METAL SECURITY PANEL, COORDINATE SIZES OF OPENINGS WITH WINDOW SCHEDULE. FINISH TO BE WHITE. FOR WINDOWS THAT HAVE AC





Page 45 of 103



## MASONRY REPAIR GENERAL NOTES

1. GRIND AND TUCKPOINT ALL EXTERIOR MASONRY FACADES INCLUDING MASONRY HEADERS, JAMBS & SILLS AND ROOF SIDE FACES OF PARAPET WALLS TO REMAIN, 100% OF BUILDING. ALL GRINDING AND TUCKPOINTING WORK TO FOLLOW CONTRACT DOCUMENT REQUIREMENTS. PROVIDE TOOLED CONCAVE JOINT 2. GRIND AND TUCKPOINT ALL EXTERIOR STONE ELEMENTS ON THE FACADES INCLUDING CORNICES, HEADERS, JAMBS, SILLS, AND ACCENT PIECES, 100% OF BUILDING FACADE. ALL GRINDING AND TUCKPOINTING WORK TO FOLLOW CONTRACT DOCUMENT REQUIREMENTS, PROVIDE TOOLED CONCAVE JOINT. 3. REFER TO ROOF PLANS FOR ADDITIONAL INFORMATION FOR WORK RELATED TO COPINGS AND MASONRY PARAPET WALLS. 4. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL DOUNSPOUTS TO PROPERLY PERFORM MAGONRY REPAIR AND TUCKPOINTING WORK. THE DRAWINGS ARE FOR REFERENCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTE ALL DOWNSPOUT LOCATIONS

ON THE BUILDING PRIOR TO SUBMITTING BID. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURFACE MOUNTED EQUIPMENT AND UTILITIES THAT REMAIN IN PLACE AROUND AREAS OF WORK INCLUDING BUT NOT LIMITED TO ELECTRICAL CABLES, LIGHTING, EQUIPMENT SUPPORT STRUCTURES AND WINDOW MOUNTED AIR

6. DIMENSIONS AND NUMERIC NOTATIONS NEXT TO KEYNOTE INDICATES APPROXIMATE SF. OF REQUIRED WORK FOR BIDDING PURPOSES. CONTRACTOR

SHALL VERIFY EXACT LOCATION AND SF. IN THE FIELD. 1. NOT ALL ELEVATIONS ARE SHOWN BUT ALL MASONRY WORK IDENTIFIED IN THESE DRAWINGS SHALL INCLUDE ASSOCIATED CORNERS AND RETURNS ADJACENT TO WALLS SHOWN ON THE ELEVATIONS AND SHALL BE CONSIDERED PART OF SAME SCOPE.

8. WASH ALL MASONRY AND STONE FACADE SURFACES AFTER TUCKPOINTING WORK IS COMPLETE

3. PROVIDE FOR 150 LF. OF STEEL LINTEL REPLACEMENT, EXACT LENGTHS TO BE VERIFIED IN THE FIELD. COORDINATE WITH KEYNOTE MR-2. REPLACE REVEALED LINTELS THAT SHOW MORE THAN 25% SECTION LOSS W/ GALVANIZED STEEL LINTEL. REBUILD OPENING PER KEYNOTE MR-2. SEE DETAIL 13/A12.4 10. PROVIDE FOR 100 SF. OF STONE HEADER PATCHING / EPOXY REPAIR. EXACT LOCATIONS TO BE DETERMINED IN THE FIELD. COORDINATE WITH KEYNOTE MR-4. REBUILD HEADER PER KEYNOTE MR-4

II. PROVIDE FOR APPROX. 200 S.F. OF STONE HEADER REPLACEMENT. EXACT LOCATIONS TO BE DETERMINED IN THE FIELD. PROFILE OF STONE HEADER TO MATCH EXISTING. COORDINATE WITH KEYNOTE MR-4. REBUILD HEADER PER KEYNOTE MR-4 12. REMOVE AND REPLACE PERIMETER SEALANT AT ALL WINDOWS, 100% REPLACEMENT, FOLLOWING SEALANT MANUFACTURER'S

RECOMMENDATIONS. DRAWINGS ARE FOR REFERENCE ONLY, NOT ALL WINDOWS ARE SHOWN ON ELEVATION DRAWINGS. CONTRACTOR TO VERIFY ALL WINDOW LOCATIONS. 13. ALL NEW MASONRY TO BE TOOTHED INTO EXISTING, TYPICAL

## MASONRY REPAIR KEY NOTES

REMOVE EXISTING LIGHT FIXTURE AND BRACKETS IN ITS ENTIRETY. PATCH EXPOSED MASONRY SURFACES. REFER  $\langle g_R \rangle$  to roof plans and electrical drawings for removal and new exterior lighting work information.

LOCALLY REMOVE EXTERIOR MASONRY AT BRICK WINDOW HEAD TO EXPOSE LINTEL. SCRAPE AND PAINT EXPOSED STEEL LINTELS WITH ANTI-RUST COATING. REFER TO TYP. EXTERIOR COATING SYSTEM NOTE ON SHEET A5.4. REBUILD 1ASONRY WALL WITH SALVAGED OR MATCHING BRICK AND MORTAR AND PROVIDE STAINLESS STEEL TIES TO BACKUP STRUCTURE. PROVIDE NEW FLASHING, TERMINATION BAR, DRIP EDGE, END DAMS AND CELL VENT WEEPS. APPROX. LOCATIONS HATCHED ON DRAWINGS. REFER TO DETAIL 10/A12.4 FOR TYPICAL REPAIR WORK. COORDINATE WITH GENERAL MAGONRY NOTE \*9 FOR LINTEL REPLACEMENT SCOPE.

LOCALLY DEMOLISH AND REBUILD DAMAGED MASONRY TO 2 WYTHES DEPTH. NEW BRICK AND MORTAR TO MATCH EXISTING. PROVIDE STAINLESS STEEL TIES TO BACK-UP STRUCTURE. APPROX. SF OF AREA SHOWN ON DRAWINGS.

REMOVE AND SALVAGE HUNG STONE AT WINDOW HEAD. DEMO MASONRY ABOVE STONE HEADER TO EXPOSE LINTEL. REPLACE EXISTING ANGLE SUPPORTING WINDOW FRAME HEAD WITH GALVANIZED STEEL LINTEL TO PROVIDE BEARING FOR WINDOW AND MATCH ELEVATION OF TOP OF EXISTING WINDOW HEAD. PROVIDE NEW FLASHING, TERMINATION BAR, DRIP EDGE, END DAMS AND CELL VENT WEEPS AT LINTEL. REBUILD MASONRY WITH SALVAGED OR MATCHING MATERIAL AND REINSTALL STONE HEADER. SAWCUT STONE HEADER AS NECESSARY TO FIT INTO NEW LINTEL. PROVIDE STAINLESS STEEL TIES TO BACKUP STRUCTURE AND MORTAR ALL JOINTS. CAREFULLY REMOVE AND SALVAGE WINDOW FOR REINSTALLATION OR FULLY REPLACE IF NOTED AS SUCH ON ELEVATIONS. REINSTALL/INSTALL WINDOW IN COMPLETED OPENING AND CAULK ALL JOINTS. COORDINATE WITH GENERAL MASONRY NOTES #10 AND #11 FOR STONE HEADER REPAIR AND REPLACEMENT SCOPES. REFER TO DETAIL 1/AI2.4

LOCALLY REMOVE INFILL MASONRY. REBUILD WALL WITH CMU BACKUP AND MASONRY FACE BRICK TOOTHED INTO AND LAID FLUGH WITH ADJACENT MAGONRY. PROVIDE STAINLESS STEEL MAGONRY TIES TO BACK UP.

LOCALLY REMOVE ALL LOOSE CONCRETE. SCRAPE, PRIME AND PAINT ALL EXPOSED STEEL REINFORCEMENT WITH ANTI-CORROGION BONDING AGENT. PROVIDE ADDITIONAL REINFORCEMENT AS REQUIRED. PATCH SPALLED CONCRETE ACCORDING TO PATCH MATERIAL MANUFACTURER'S REPAIR INSTRUCTIONS. ROUT AND EPOXY REPAIR CONCRETE CRACKS, FINISH CONCRETE REPAIR WORK TO MATCH FINISH AND COLOR OF EXISTING CONCRETE SURFACES. ROUT AND EPOXY REPAIR STONE CRACKS AND HOLES. FINISH STONE REPAIR WORK TO MATCH FINISH AND COLOR OF EXISTING STONE SURFACES.

SALVAGE COPPER CORNICES INCLUDING ASSOCIATED BRACKETS. REINSTALL CORNICES AT COMPLETION OF MASONRY WORK. REPLACE ALL WOOD BLOCKING WITH TREATED WOOD BLOCKING TO SUPPORT REINSTALLED CORNICES AND PROVIDE COMPATIBLE SEALANT AT ALL JOINTS. EXACT LOCATION AND DIMENSIONS TO BE VERIFIED IN THE FIELD. CONTRACTOR TO PROVIDE ALLOWANCE TO REPLACE 30% OF COPPER CORNICE WITH NEW COPPER CORNICE ASSEMBLY IN MATCHING PROFILES AND GAUGE. SHOWN DASHED, TYP.

CAREFULLY REMOVE ENTIRE PARAPET WALL DOWN TO ROOF DECK AND REMOVE VENEER WITHE TO CORNICE. PROVIDE NEW MASONRY PARAPET WALL AND STONE COPING. MATCH HEIGHT OF ORIGINAL PARAPET WALL. KEY-IN NEW WALL TO ADJACENT MASONRY WALL. PROVIDE NEW FLASHING/COUNTERFLASHING SYSTEM, COORDINATE WITH ROOF REPLACEMENT WORK AND MAGONRY WORK. REPAIR/PATCH EXISTING ROOF SYSTEMS TO REMAIN AS NECESSARY AT AREAS OF NEW PARAPET WORK TO MAINTAIN WATERTIGHT CONSTRUCTION. REFER TO ROOF DRAWINGS FOR ADDITIONAL RAIN BASIN AND SCUPPER REPLACEMENT WORK RELATED TO THIS PARAPET WALL REBUILD.

REMOVE AND REPLACE ALL METAL GUTTERS, DOWNSPOUTS AND ASSOCIATED BRACKETS. REPLACE WITH COPPER ASSEMBLIES THAT MATCH PROFILE OF ORIGINAL COMPONENTS. PROVIDE COMPATIBLE SEALANT FOR ALL JOINTS. PROVIDE FOR THE REPLACEMENT OF APPROX. 400 LF OF TREATED WOOD BLOCKING TO SUPPORT NEW ASSEMBLIES. LOCATIONS TO BE VERIFIED IN THE FIELD. SHOWN DASHED, TYPICAL

SALVAGE COPPER COPING INCLUDING ASSOCIATED BRACKETS. REINSTALL COPING AT COMPLETION OF WALL AND ROOF WORK. REPLACE ALL WOOD BLOCKING WITH TREATED WOOD BLOCKING TO SUPPORT REINSTALLED COPING AND PROVIDE COMPATIBLE SEALANT AT ALL JOINTS. EXACT LOCATION AND DIMENSIONS TO BE VERIFIED IN THE FIELD. CONTRACTOR TO PROVIDE ALLOWANCE TO REPLACE 30% OF COPPER COPING WITH NEW COPPER COPING ASSEMBLY IN MATCHING PROFILE AND GAUGE. SHOWN DASHED, TYP.

SALVAGE STONE HEADER PIECES AT DOORWAY OPENING. LOCALLY DEMOLISH EXTERIOR MASONRY TO EXPOSE LINTEL. REMOVE EXISTING LINTEL AND REPLACE WITH GALVANIZED STEEL LINTEL ASSEMBLY. REBUILD MASONRY WALL WITH SALVAGED OR MATCHING BRICK AND MORTAR, REINSTALL SALVAGED STONE AND PROVIDE STAINLESS STEEL TIES TO BACKUP STRUCTURE. PROVIDE NEW FLASHING, TERMINATION BAR, DRIP EDGE, END DAMS AND CELL VENT WEEPS. PATCH AND EPOXY REPAIR STONE HEADER PIECES. REFER TO DETAIL 12/A12.4

LOCALLY DEMOLISH AND REBUILD DAMAGED MASONRY TO I WYTHE DEPTH ON THE INSIDE FACE OF PARAPET WALL. NEW BRICK AND MORTAR TO MATCH EXISTING. PROVIDE STAINLESS STEEL TIES TO BACK-UP STRUCTURE. APPROX. SF OF AREA SHOWN ON DRAWINGS.

CLAY TILE COPING TO BE REPLACED WITH STONE COPING - REFER TO ROOF PLANS FOR COMPLETE DESCRIPTION OF WORK.

STONE COPING TO BE SALVAGED, CLEANED AND REINSTALLED. PROVIDE NEW STONE COPING IN SAME SIZE, SHAPE, PROFILE, COLOR AND TEXTURE WHERE EXISTING CANNOT BE SALVAGED - ASSUME 10% STONE REPLACEMENT. REFER TO ROOF PLANS FOR COMPLETE DESCRIPTION OF WORK.

C DEMOLISH AND REPLACE EXISTING STONE BALUSTRADE. COORDINATE WITH COPPER CORNICE AND ROOFING MR17 REPLACEMENT - REFER TO ROOF PLANS FOR COMPLETE DESCRIPTION OF WORK.

 $\gtrsim$  REBUILD MASONRY SCUPPER OPENING. COORDINATE WITH PARAPET WALL REBUILDING WORK - REFER TO ROOF

# MR18 PLANS FOR COMPLETE DESCRIPTION OF WORK.

REMOVE LADDER AND PATCH WALL. PROVIDE NEW SAFETY LADDER, REFER TO ROOF HATCH DETAILS FOR

REMOVE AND REPLACE STONE BANDING. MATCH DIMENSIONS, PROFILE AND COLOR OF EXISTING STONE. POINT ALL JOINTS.

REMOVE EXISTING METAL WIRE SCREEN AND PATCH FRAME. PROVIDE CPS STANDARD PERFORATED METAL SECURITY PANEL, COORDINATE SIZES OF OPENINGS WITH WINDOW SCHEDULE. FINISH TO BE WHITE. FOR WINDOWS THAT HAVE AC UNITS, CUT THE NEW SECURITY PANEL TO FIT AROUND UNIT.

DEMOLISH EXISTING FENCE AND PICTH POCKETS AS PART OF ROOF DEMOLITION. REPLACE WITH SIMILAR 6'-O", 2 RAIL MR2 fence system with posts in pitch pocket assembly. Provide 45 degree lateral cross bracing of entire STRUCTURE TO MATCH EXISTING FENCING SUPPORT. COORDINATE WITH ROOF WORK.

MR2)3 RE-SET CAST IRON DRAIN LINE LATERAL RUN AT FIRST FIRST FLOOR TO CREATE POSITIVE SLOPE FOR DRAINAGE

REPLACE EXISTING WINDOW, SHOWN DASHED. SEE BUILDING ELEVATIONS FOR SPECIFIC NUMBER OF REPLACEMENT. NUMBER - IN HEXAGON REFERS TO WINDOW MARK IN WINDOW SCHEDULE, WHERE THERE IS A WINDOW AC UNIT LOCATED IN A WINDOW TO BE REPLACED, SALVAGE THE AC UNIT AND PROVIDE NEW AC UNIT SUPPORT FRAME AND INSULATED PANEL IN NEW WINDOW FRAME TO REINSTALL AC UNIT IN SAME LOCATION. PROVIDE STANDARD CPS METAL SECURITY PANEL, COORDINATE SIZES OF OPENINGS WITH WINDOW SCHEDULE.

FINISH TO BE WHITEFOR WINDOWS THAT HAVE AC UNITS, CUT THE NEW SECURITY PANEL TO FIT AROUND UNIT.



DRAWING NO.







### MASONRY REPAIR GENERAL NOTES

1. GRIND AND TUCKPOINT ALL EXTERIOR MASONRY FACADES INCLUDING MASONRY HEADERS, JAMBS & SILLS AND ROOF SIDE FACES OF PARAPET WALLS TO REMAIN, 100% OF BUILDING. ALL GRINDING AND TUCKPOINTING WORK TO FOLLOW CONTRACT DOCUMENT REQUIREMENTS. PROVIDE TOOLED CONCAVE JOINT 2. GRIND AND TUCKPOINT ALL EXTERIOR STONE ELEMENTS ON THE FACADES INCLUDING CORNICES, HEADERS, JAMBS, SILLS, AND ACCENT PIECES, 100% OF BUILDING FACADE, ALL GRINDING AND TUCKPOINTING WORK TO FOLLOW CONTRACT DOCUMENT REQUIREMENTS, PROVIDE TOOLED CONCAVE JOINT, 3. REFER TO ROOF PLANS FOR ADDITIONAL INFORMATION FOR WORK RELATED TO COPINGS AND MASONRY PARAPET WALLS. 4. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL DOUNSPOUTS TO PROPERLY PERFORM MAGONRY REPAIR AND TUCKPOINTING WORK. THE DRAWINGS ARE FOR REFERENCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTE ALL DOWNSPOUT LOCATIONS

ON THE BUILDING PRIOR TO SUBMITTING BID. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURFACE MOUNTED EQUIPMENT AND UTILITIES THAT REMAIN IN PLACE AROUND AREAS OF WORK INCLUDING BUT NOT LIMITED TO ELECTRICAL CABLES, LIGHTING, EQUIPMENT SUPPORT STRUCTURES AND WINDOW MOUNTED AIR

6. DIMENSIONS AND NUMERIC NOTATIONS NEXT TO KEYNOTE INDICATES APPROXIMATE SF. OF REQUIRED WORK FOR BIDDING PURPOSES. CONTRACTOR

SHALL VERIFY EXACT LOCATION AND SF. IN THE FIELD. 1. NOT ALL ELEVATIONS ARE SHOWN BUT ALL MASONRY WORK IDENTIFIED IN THESE DRAWINGS SHALL INCLUDE ASSOCIATED CORNERS AND RETURNS ADJACENT TO WALLS SHOWN ON THE ELEVATIONS AND SHALL BE CONSIDERED PART OF SAME SCOPE.

8. WASH ALL MASONRY AND STONE FACADE SURFACES AFTER TUCKPOINTING WORK IS COMPLETE

3. PROVIDE FOR 150 LF. OF STEEL LINTEL REPLACEMENT, EXACT LENGTHS TO BE VERIFIED IN THE FIELD. COORDINATE WITH KEYNOTE MR-2. REPLACE REVEALED LINTELS THAT SHOW MORE THAN 25% SECTION LOSS W/ GALVANIZED STEEL LINTEL. REBUILD OPENING PER KEYNOTE MR-2. SEE DETAIL 13/A12.4 10. PROVIDE FOR 100 SF. OF STONE HEADER PATCHING / EPOXY REPAIR. EXACT LOCATIONS TO BE DETERMINED IN THE FIELD. COORDINATE WITH KEYNOTE MR-4. REBUILD HEADER PER KEYNOTE MR-4

IL PROVIDE FOR APPROX. 200 S.F. OF STONE HEADER REPLACEMENT. EXACT LOCATIONS TO BE DETERMINED IN THE FIELD. PROFILE OF STONE HEADER TO MATCH EXISTING. COORDINATE WITH KEYNOTE MR-4. REBUILD HEADER PER KEYNOTE MR-4 2. REMOVE AND REPLACE PERIMETER SEALANT AT ALL WINDOWS, 100% REPLACEMENT, FOLLOWING SEALANT MANUFACTURER'S

RECOMMENDATIONS. DRAWINGS ARE FOR REFERENCE ONLY, NOT ALL WINDOWS ARE SHOWN ON ELEVATION DRAWINGS. CONTRACTOR TO VERIFY ALL WINDOW LOCATIONS. 13. ALL NEW MASONRY TO BE TOOTHED INTO EXISTING, TYPICAL

## MASONRY REPAIR KEY NOTES

REMOVE EXISTING LIGHT FIXTURE AND BRACKETS IN ITS ENTIRETY. PATCH EXPOSED MASONRY SURFACES. REFER  $\{M_{R}\}$  TO ROOF PLANS AND ELECTRICAL DRAWINGS FOR REMOVAL AND NEW EXTERIOR LIGHTING WORK INFORMATION.

LOCALLY REMOVE EXTERIOR MASONRY AT BRICK WINDOW HEAD TO EXPOSE LINTEL. SCRAPE AND PAINT EXPOSED STEEL LINTELS WITH ANTI-RUST COATING. REFER TO TYP. EXTERIOR COATING SYSTEM NOTE ON SHEET A5.4. REBUILD MASONRY WALL WITH SALVAGED OR MATCHING BRICK AND MORTAR AND PROVIDE STAINLESS STEEL TIES TO BACKUP STRUCTURE. PROVIDE NEW FLASHING, TERMINATION BAR, DRIP EDGE, END DAMS AND CELL VENT WEEPS. APPROX. LOCATIONS HATCHED ON DRAWINGS. REFER TO DETAIL 10/A12.4 FOR TYPICAL REPAIR WORK. COORDINATE WITH GENERAL MASONRY NOTE \*9 FOR LINTEL REPLACEMENT SCOPE.

LOCALLY DEMOLISH AND REBUILD DAMAGED MASONRY TO 2 WYTHES DEPTH. NEW BRICK AND MORTAR TO MATCH EXISTING. PROVIDE STAINLESS STEEL TIES TO BACK-UP STRUCTURE. APPROX. SF OF AREA SHOWN ON DRAWINGS.

REMOVE AND SALVAGE HUNG STONE AT WINDOW HEAD. DEMO MASONRY ABOVE STONE HEADER TO EXPOSE LINTEL. REPLACE EXISTING ANGLE SUPPORTING WINDOW FRAME HEAD WITH GALVANIZED STEEL LINTEL TO PROVIDE BEARING FOR WINDOW AND MATCH ELEVATION OF TOP OF EXISTING WINDOW HEAD. PROVIDE NEW FLASHING, TERMINATION BAR, DRIP EDGE, END DAMS AND CELL VENT WEEPS AT LINTEL. REBUILD MASONRY WITH SALVAGED OR MATCHING MATERIAL AND REINSTALL STONE HEADER. SAWCUT STONE HEADER AS NECESSARY TO FIT INTO NEW LINTEL. PROVIDE STAINLESS STEEL TIES TO BACKUP STRUCTURE AND MORTAR ALL JOINTS. CAREFULLY REMOVE AND SALVAGE WINDOW FOR REINSTALLATION OR FULLY REPLACE IF NOTED AS SUCH ON ELEVATIONS. REINSTALL/INSTALL WINDOW IN COMPLETED OPENING AND CAULK ALL JOINTS. COORDINATE WITH GENERAL MASONRY NOTES #10 AND #11 FOR STONE HEADER REPAIR AND REPLACEMENT SCOPES. REFER TO DETAIL 1/AI2.4

LOCALLY REMOVE INFILL MASONRY. REBUILD WALL WITH CMU BACKUP AND MASONRY FACE BRICK TOOTHED INTO AND LAID FLUSH WITH ADJACENT MASONRY. PROVIDE STAINLESS STEEL MASONRY TIES TO BACK UP.

LOCALLY REMOVE ALL LOOSE CONCRETE. SCRAPE, PRIME AND PAINT ALL EXPOSED STEEL REINFORCEMENT WITH ANTI-CORROGION BONDING AGENT. PROVIDE ADDITIONAL REINFORCEMENT AS REQUIRED. PATCH SPALLED CONCRETE ACCORDING TO PATCH MATERIAL MANUFACTURER'S REPAIR INSTRUCTIONS. ROUT AND EPOXY REPAIR CONCRETE CRACKS. FINISH CONCRETE REPAIR WORK TO MATCH FINISH AND COLOR OF EXISTING CONCRETE SURFACES. ROUT AND EPOXY REPAIR STONE CRACKS AND HOLES. FINISH STONE REPAIR WORK TO MATCH FINISH AND COLOR OF EXISTING STONE SURFACES.

SALVAGE COPPER CORNICES INCLUDING ASSOCIATED BRACKETS. REINSTALL CORNICES AT COMPLETION OF MASONRY WORK. REPLACE ALL WOOD BLOCKING WITH TREATED WOOD BLOCKING TO SUPPORT REINSTALLED CORNICES AND PROVIDE COMPATIBLE SEALANT AT ALL JOINTS. EXACT LOCATION AND DIMENSIONS TO BE VERIFIED IN THE FIELD. CONTRACTOR TO PROVIDE ALLOWANCE TO REPLACE 30% OF COPPER CORNICE WITH NEW COPPER CORNICE ASSEMBLY IN MATCHING PROFILES AND GAUGE. SHOWN DASHED, TYP.

CAREFULLY REMOVE ENTIRE PARAPET WALL DOWN TO ROOF DECK AND REMOVE VENEER WITHE TO CORNICE. PROVIDE NEW MASONRY PARAPET WALL AND STONE COPING. MATCH HEIGHT OF ORIGINAL PARAPET WALL. KEY-IN NEW WALL TO ADJACENT MASONRY WALL. PROVIDE NEW FLASHING/COUNTERFLASHING SYSTEM, COORDINATE WITH ROOF REPLACEMENT WORK AND MAGONRY WORK. REPAIR/PATCH EXISTING ROOF SYSTEMS TO REMAIN AS NECESSARY AT AREAS OF NEW PARAPET WORK TO MAINTAIN WATERTIGHT CONSTRUCTION. REFER TO ROOF DRAWINGS FOR ADDITIONAL RAIN BASIN AND SCUPPER REPLACEMENT WORK RELATED TO THIS PARAPET WALL REBUILD.

REMOVE AND REPLACE ALL METAL GUTTERS, DOUNSPOUTS AND ASSOCIATED BRACKETS. REPLACE WITH COPPER ASSEMBLIES THAT MATCH PROFILE OF ORIGINAL COMPONENTS. PROVIDE COMPATIBLE SEALANT FOR ALL JOINTS. PROVIDE FOR THE REPLACEMENT OF APPROX. 400 LF OF TREATED WOOD BLOCKING TO SUPPORT NEW ASSEMBLIES. LOCATIONS TO BE VERIFIED IN THE FIELD. SHOWN DASHED, TYPICAL

SALVAGE COPPER COPING INCLUDING ASSOCIATED BRACKETS. REINSTALL COPING AT COMPLETION OF WALL AND ROOF WORK. REPLACE ALL WOOD BLOCKING WITH TREATED WOOD BLOCKING TO SUPPORT REINSTALLED COPING AND PROVIDE COMPATIBLE SEALANT AT ALL JOINTS. EXACT LOCATION AND DIMENSIONS TO BE VERIFIED IN THE FIELD. CONTRACTOR TO PROVIDE ALLOWANCE TO REPLACE 30% OF COPPER COPING WITH NEW COPPER COPING ASSEMBLY IN MATCHING PROFILE AND GAUGE. SHOWN DASHED, TYP.

SALVAGE STONE HEADER PIECES AT DOORWAY OPENING. LOCALLY DEMOLISH EXTERIOR MASONRY TO EXPOSE LINTEL. REMOVE EXISTING LINTEL AND REPLACE WITH GALVANIZED STEEL LINTEL ASSEMBLY. REBUILD MASONRY WALL WITH SALVAGED OR MATCHING BRICK AND MORTAR, REINSTALL SALVAGED STONE AND PROVIDE STAINLESS STEEL TIES TO BACKUP STRUCTURE. PROVIDE NEW FLASHING, TERMINATION BAR, DRIP EDGE, END DAMS AND CELL VENT WEEPS. PATCH AND EPOXY REPAIR STONE HEADER PIECES. REFER TO DETAIL 12/A12.4

LOCALLY DEMOLISH AND REBUILD DAMAGED MASONRY TO I WYTHE DEPTH ON THE INSIDE FACE OF PARAPET WALL. NEW BRICK AND MORTAR TO MATCH EXISTING. PROVIDE STAINLESS STEEL TIES TO BACK-UP STRUCTURE. APPROX. SF OF AREA SHOWN ON DRAWINGS.

CLAY TILE COPING TO BE REPLACED WITH STONE COPING - REFER TO ROOF PLANS FOR COMPLETE DESCRIPTION OF 🕺 WORK.

STONE COPING TO BE SALVAGED, CLEANED AND REINSTALLED. PROVIDE NEW STONE COPING IN SAME SIZE, SHAPE, PROFILE, COLOR AND TEXTURE WHERE EXISTING CANNOT BE SALVAGED - ASSUME 10% STONE REPLACEMENT. REFER TO ROOF PLANS FOR COMPLETE DESCRIPTION OF WORK.

DEMOLISH AND REPLACE EXISTING STONE BALUSTRADE. COORDINATE WITH COPPER CORNICE AND ROOFING MR17 REPLACEMENT - REFER TO ROOF PLANS FOR COMPLETE DESCRIPTION OF WORK.

 $_{
m imes}$  REBUILD MASONRY SCUPPER OPENING. COORDINATE WITH PARAPET WALL REBUILDING WORK - REFER TO ROOF

# MR18 PLANS FOR COMPLETE DESCRIPTION OF WORK.

REMOVE LADDER AND PATCH WALL. PROVIDE NEW SAFETY LADDER, REFER TO ROOF HATCH DETAILS FOR ADDITIONAL INFORMATION.

REMOVE AND REPLACE STONE BANDING. MATCH DIMENSIONS, PROFILE AND COLOR OF EXISTING STONE. POINT ALL JOINTS.

REMOVE EXISTING METAL WIRE SCREEN AND PATCH FRAME. PROVIDE CPS STANDARD PERFORATED METAL SECURITY PANEL, COORDINATE SIZES OF OPENINGS WITH WINDOW SCHEDULE. FINISH TO BE WHITE. FOR WINDOWS THAT HAVE AC UNITS, CUT THE NEW SECURITY PANEL TO FIT AROUND UNIT.

DEMOLISH EXISTING FENCE AND PICTH POCKETS AS PART OF ROOF DEMOLITION. REPLACE WITH SIMILAR 6'-O", 2 RAIL MR2 fence system with posts in pitch pocket assembly. Provide 45 degree lateral cross bracing of entire STRUCTURE TO MATCH EXISTING FENCING SUPPORT. COORDINATE WITH ROOF WORK.

MR2)3 RE-SET CAST IRON DRAIN LINE LATERAL RUN AT FIRST FIRST FLOOR TO CREATE POSITIVE SLOPE FOR DRAINAGE

REPLACE EXISTING WINDOW, SHOWN DASHED. SEE BUILDING ELEVATIONS FOR SPECIFIC NUMBER OF REPLACEMENT. NUMBER IN HEXAGON REFERS TO WINDOW MARK IN WINDOW SCHEDULE, WHERE THERE IS A WINDOW AC UNIT LOCATED IN A WINDOW TO BE REPLACED, SALVAGE THE AC UNIT AND PROVIDE NEW AC UNIT SUPPORT FRAME AND INSULATED PANEL IN NEW WINDOW FRAME TO REINSTALL AC UNIT IN SAME LOCATION. PROVIDE STANDARD CPS METAL SECURITY PANEL, COORDINATE SIZES OF OPENINGS WITH WINDOW SCHEDULE.

FINISH TO BE WHITEFOR WINDOWS THAT HAVE AC UNITS, CUT THE NEW SECURITY PANEL TO FIT AROUND UNIT.





![](_page_48_Figure_0.jpeg)

Date of Issue: April 19, 2017 PBC: Lake View High School Renovation Project. C1583 - Addendum No

PBC: Lake View High School Renovation Project\_C1583 - Addendum No. 1

![](_page_49_Figure_0.jpeg)

Date of Issue: April 19, 2017 PBC: Lake View High School Renovation Project\_C1583 - Addendum No. 1

![](_page_50_Figure_0.jpeg)

Date of Issue: April 19, 2017 PBC: Lake View High School Renovation Project\_C1583 - Addendum No. 1

![](_page_51_Figure_0.jpeg)

![](_page_52_Figure_0.jpeg)

## TOILET DEMOLITION KEY NOTES

DEMOLISH PLUMB. FIXTURES INCLUDING WATER CLOSETS AND LAVS, ALL EXISTING STALL PARTITIONS, FLOOR DRAIN AND ACCESSORIES, SHOWN DASHED - COORDINATE W/ PLUMBING DUGS.

REMOVE EXISTING FIXED ENTRY SCREEN DOORS, FRAME/ AND TRANSOM

DEMOLISH EXISTING TILES ON THE WALL UP TO WOOD TRIM. DEMOLISH WE TRIM. PREP FOR NEW INSTALLATIONS, ALL WALLS.

DEMOLISH EXISTING FLOORING AND SUBFLOOR CAREFULLY PROTECT EXISTING WOOD BASE AND SALVAGE QUARTER ROUND SHOE FOR REINSTALLATION. DEMOLISH VINYL BASE, IF PRESENT

REMOVE AND CAREFULLY SALVAGE EXISTING FIXTURES TO ACCESS THE FLOOR FOR REQUIRED SCOPE OF WORK. DEMOLISH SHELVING & TRIM/ PATCH & PREP EXPOSED PLASTER SURFACE

> DEMOLISH EXISTING CERAMIC TILE FLOORING & CERAMIC BASE IN ITS

REPLACE TOP AND BASE SASH OF WINDOW W/ INSULATED PANEL CUT TO FIT  $ensuremath{\mathcal{V}}$  Around New Exhaust Fan. Coordinate W/ Mechanical Dwgs. Demolish

SALVAGE MIRROR AND PATCH PLASTER WALL WHERE MIRROR IS REMOVED,  $\mathbb{C}^{1}$  MAKE FLUSH W/ ADJACENT WALL SURFACE AND PREP. FOR NEW FINISH. , DEMOLIGH EXIST. ELECT. HEATER AND PATCH & PREP PLASTER WALL -

DEMOLISH ALL PLUMBING FIXTURES, BRACKETS, HARDWARE, ETC. IN ROOM BACK TO WALL OR FLOOR, CAP PLUMB. PIPING INSIDE WALL / BELOW FLOOR AS REQ'D. - SEE PLUMB. DRWG'S. AND SPEC'S. FOR ADD'L. REQ'S. PROVIDE WALL / FLOOR INFILL AS REQ'D. TO MATCH SURROUNDING CONSTRUCTION AND

#### WALL LEGEND - CONSTRUCTION

EXISTING CONSTRUCTION TO REMAIN

---- EXISTING CONSTRUCTION TO BE

ALL DIMENSIONS / ELEVATIONS INDICATED THIS SHEET ARE FOR REFERENCE AND ARE TO BE VERIFIED IN FIELD.

> WHERE EXISTING SURFACE CONDUIT FOR REGULAR AND/OR LOW VOLTAGE WIRING CROSSES AREAS WHERE PLASTER REMOVAL PATCHING OR DRYWALL ENCAPSULATION ARE INDICATED TO OCCUR THE CONTRACTOR SHALL PROVIDE THE FOLLOWING: REMOVE EXIST. "WIREMOLD" SERIES RACEWAY, WIRING, ETC. THIS WALL AS REQ'D. TO ACCOMMODATE PLASTER PATCHING AND/OR DRYWALL ENCAPSULATION SCOPE OF WORK. TEMP

TERMINATE CIRCUITING AND PREP. FOR PROPOSED CONNECTIONS AS REQ'D. 2. PROVIDE 'WIREMOLD' SERIES #1000 OR \*4000 (MATCH WIREMOLD SERIES REMOVED) RACEWAY, WIRING, ETC. THIS WALL TO REPLACE REMOVED RACEWAY

WIRING, ETC. TO MATCH CONFIGURATION OF EXIST. RE-CONNECT TO BRANCH CIRCUITING AS REQUIRED.

SEE ENLARGED PLANS FOR COMPLETE

ALL DIMENSIONS / ELEVATIONS INDICATED THIS SHEET ARE FOR REFERENCE AND

## DEMOLITION KEY NOTES:

SELECTIVELY DEMOLISH AREA OF DAMAGED EXIST. PLASTER > FINISH @ WALL DOWN TO SOUND PLASTER BASE COAT AS REQ'D. TO ACCOMMODATE PLASTER PATCHING. AT 5% OF AREA INDICATED, WHERE PLASTER BASE COAT & METAL LATH CANNOT BE SALVAGED, SELECTIVELY DEMO. EXIST. PLASTER 4 EXIST. MTL. LATH DOWN TO SUBSTRATE, OUT TO SOUND PLASTER. SEE TARGET FOR APPROX. SF. EXIST. WALL MTD. DUCTWORK & PIPING, THIS AREA, TO BE DETACHED FROM WALL, BUT TO REMAIN IN PLACE IN ORDER TO ACCOM WORK. CONTRACTOR TO PROTECT & SUPPORT THESE ELEMENTS AS REQ'D DURING WORK. EXIST. WD. TRIM / BUILT-IN CHALK / TACK BD., THIS AREA, TO BE REMOVED & SALVAGED FOR RE-INSTALL. EXIST. WALL MTD. ELEC. CONDUIT / RACEWAY 4 ASSOC. WIRING, THIS AREA, TO BE REMOVED BACK TO NEAREST JUNCTION BOX. SEE INT. ELEVS. FOR ADD. INFO.

SELECTIVELY DEMOLISH AREA OF DAMAGED EXIST. PLASTER FINISH @ CEILING DOWN TO SOUND PLASTER BASE COAT AS REQ'D. TO ACCOM. PLASTER PATCHING. AT 5% OF AREA INDICATED, WHERE PLASTER BASE COAT & METAL LATH CANNOT BE SALVAGED, SELECTIVELY DEMO. EXIST. PLASTER & EXIST. MTL. LATH, DOWN TO SUBSTRATE, OUT TO SOUND PLASTER. SEE TARGET FOR APPROX. SF. EXIST. WALL MTD. DUCTWORK & PIPING, THIS AREA, TO BE DETACHED FROM WALL, BUT TO REMAIN IN PLACE IN ORDER TO ACCOM. WORK. CONTRACTOR TO PROTECT & SUPPORT THESE ELEMENTS AS REQ'D DURING WORK. EXIST. WD. TRIM, THIS AREA, TO BE REMOVED & SALVAGED FOR RE-INSTALL. EXIST. WALL MTD. ELEC. CONDUIT / RACEWAY & ASSOC. WIRING, THIS AREA, TO BE REMOVED BACK TO NEAREST JUNCTION BOX. SEE INT. ELEVS. FOR ADD, INFO.

TEMPORARILY RELOCATE ALL FURNITURE, EQUIPMENT, BOOKSHELVES AND THEIR CONTENTS FROM ROOM, SECURELY STORE IN AN AREA AWAY FROM CONSTRUCTION.

EXIST. LOCKERS, RELATED TRIM, FILLER PANELS AND SURROUNDS TO BE REMOVED IN THEIR ENTIRETY

#### SELECTIVELY DEMOLISH AREA OF DAMAGED EXIST. PLASTER CEILING > PER KEYNOTE 'D2' SPECIFICATIONS. PROVIDE PLASTER FINISH COAT AT THIS LOCATION PER KEYNOTE 'AII' SPECIFICATION ON A9X SHEETS. SEE TARGET FOR APPROX. QUANTITY

SELECTIVELY DEMOLISH AREA OF DAMAGED EXIST. PLASTER WALL PER KEYNOTE 'DI' SPECIFICATIONS. PROVIDE PLASTER FINISH COAT AT THIS LOCATION PER KEYNOTE 'AIØ' SPECIFICATION ON A9.X SHEETS. SEE TARGET FOR APPROX. QUANTITY

CEMOLISH EXISTING DOOR, FRAME AND HARDWARE IN ENTIRETY. REMOVE 2'-0"x4'-0" ACOUSTIC CEILING TILES IN THIS

 $\Rightarrow$  ROOM ENTIRELY. GRID, FIXTURES AND GRILLES TO REMAIN IN PLACE. EXIST. 2'-@"x4'-@" SUSP. A.C.T. CEILING TILES AND GRID

- TO BE TEMP. REMOVED THIS AREA AS REQ'D. TO 9) ACCOMMODATE PROPOSED SCOPE OF WORK, AND SALVAGED FOR REINSTALLATION - REMOVE GRID AND TILES AS NECESSARY BACK TO NEAREST CONT. SPLINE. REFER TO REFL. CL'G. PLANS FOR ADD'L. REQ'S.
- REMOVE EXIST. QUARTER ROUND SHOE OR EXIST. VINYL BASE WHERE PRESENT (EXIST WD. BASE TO REMAIN), THIS ROOM IN ITS ENTIRETY. REFER TO ROOM FINISH SCHEDULE FOR NEW FINISHED FLOOR WHERE SCOPE OF WORK INCLUDES PROVIDING NEW VCT FLOOR FIN OVER EXIST. VCT, PREPARE EXIST. FLOOR BY PROVIDING A MIN. OF 10 SF OF SELF LEVELING FLOOR PATCH TO RECEIVE NEW ENCAPSULATING UNDERLAYMENT. WHERE SCOPE OF WORK INCLUDES REFINISHING EXIST. WOOD FLOOR, PREPARE EXIST. WOOD
- WOOD FLOOR IS ALREADY THE VISIBLE FINISH FLOOR SYSTEM. SCRAPE PORTION OF PAINTED WOOD TRIM WHERE ightarrow paint is peeling, and sand smooth, this LOCATION. SEE TARGET FOR APPROX. QUANTITY.

FLOOR FOR REFINISHING, TYP. IN ROOMS WHERE EXISTING

WORK AT EXISTING, <u>PREVIOUSLY STAINED</u> WOOD WINDOW TRIM, PICTURE RAIL TRIM, DOOR TRIM, DOOR AND TACKBOARD/CHALKBOARD TRIM, WALL BASE, THIS ROOM IN THEIR ENTIRETY: • REMOVE ALL BRACKETS, SCREWS, STAPLES, TAPE,

STRIP TRIM FINISH, IN ITS ENTIRETY, W/ CHEMICAL OR
SOLVENT STRIPPER APPROPRIATE TO EXIST. FINISH.
SEE INT. ELEVS. FOR TYPICAL CONFIGURATION

WORK AT EXISTING, PREVIOUSLY STAINED WOOD STORAGE D13 CABINET:

REMOVE ALL BRACKETS, NAILS, SCREWS, STAPLES, TAPE • STRIP FINISH @ ALL EXPOSED SURFACES, INCLUDING INSIDE

FACE OF SHELVING UNIT, W/ CHEMICAL OR SOLVENT STRIPPER APPROPRIATE TO EXIST. FINISH. . SEE All3 FOR CONFIGURATION & ADDITIONAL INFORMATION. REMOVE AND REPLACE SECTION OF DAMAGED TRIM. SEE Y TARGET FOR QUANTITY.

DEMOLISH EXISTING LIGHT FIXTURES INCLUDING WIRING BACK TO NEAREST JUNCTION BOX AND CAP. DEMOLISH ALL RELATED CONDUIT AND JUNCTION BOXES. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL REQ'S.

REFER TO KEYNOTE "DIØ" ABOVE.

DEMOLISH EXISTING SOFFIT, REPAIR WALL AND CEILING. PREP AND PAINT CEILING.

DEMOLISH EXISTING GLAZED TILE HALF WALL AND PREP TO MAKE Y NEW FLOORING FLUSH

DEMOLISH AND CAP EXISTING FIXTURE. REFER TO PLUMBING DRAWINGS. PATCH PLASTER WALL WHERE FIXTURE WAS REMOVED

 $_{\star}$  patch and paint existing 12" imes 12" adhered tile ceiling, |FINTIRE CEILING. PATCH AND PAINT EXISTING 12" X 12" ADHERED WALL TILE, IN

THIS ROOM ENTIRELY DEMOLISH EXISTING FLOORING AND SUBFLOOR / SUBSTRATE DOWN TO

STRUCTURAL DECK / CONC. SLAB, AREA SHOUN HATCHED LIKE THIS, THIS DETAIL. REMOVE EXIST. QUARTER ROUND SHOE / 2" TALL WD.  $\mathbb{Q}^{2}$ ? Base or exist. Vintl base where present (exist wd. base  $\sim$ TALLER THAN 2" TO REMAIN). REFER TO AGX SERIES SHEETS, ROOM FINISH SCHEDULE FOR FINISH FLOORING MATERIAL AND DETAILS FOR ADD'L. REQ'S.

SCARIFY EXIST. CONC. REMOVE BASE WHERE PRESENT (EXIST WD. BASE TO REMAIN), THIS AREA IN ITS ENTIRETY SHOWN HATCHED LIKE THIS, THIS (2) DETAIL. AT AREAS OF DAMAGED CONC. SLAB, REMOVE SECTION OF SF. NOTED ON KEYNOTE TAG TO MIN. 1/2" DEPTH OR AS REQ'D. TO REACH SOUND CONC. PROVIDE "MAPE!" "ULTRA-TOP PC PATCHING INFILL AS

REQ'D. DUE TO EXTENTS OF DEMO. SEE VAPOR BARRIER NOTE ON ALL SELECTIVELY DEMOLISH EXISTING CONC. SLAB / TERRAZZO FLOORING (2) DOWN TO DEPTH AS REQ'D. TO ACCOMMODATE PROPOSED SCOPE OF WORK: DETECTABLE WARNING STRIP AT TOP OF STAIRS, TYP.

TEMP. REMOVE EXIST. RADIATOR AND METAL RADIATOR CABINET. TEMP. CAP PIPING IN FLOOR AS REQ'D. SALVAGE RADIATOR /  $\mathbb{Q}^{29}$  radiator cabinet and reinstall following floor replacement WORK - TYP. OF "X" RADIATOR / RADIATOR CABINETS THIS AREA:

"R-I", QUANTITY INDICATED AT KEYNOTE TAG TEMP. REMOVE EXIST. LADDER CAGE, CAST IRON LADDER AND BRACKETS AND SALVAGE FOR REINSTALLATION. PATCH / INFILL PLASTER AS REQ'D. DUE TO DAMAGE. REINSTALL LADDER AND MESH

CAGE FOLLOWING FLOORING INSTALLATION, MECH, ANCHOR TO WALL AND FLOOR. SAND WOOD FRAME AND HATCH AT CEILING AND PAINT IN THEIR ENTIRETY. PAINT PLASTER CEILING SCUTTLE IN ITS ENTIRETY

REMOVE EXIST. METAL LOCKERS WITH INTEGRAL METAL CURBS THIS AREA. TURN OVER TO OWNER AND STORE IN LOCATION AS DIRECTED  $^{\prime\prime}$  BY OWNER. SEE KEYNOTE TAG FOR QUANTITY.

DEMOLISH EXISTING 12" X 12" ADHERED TILE CEILING \$ 8" TILE ARCHES DUE TO ROOF VENT PENETRATION.

DEMOLISH EXISTING WALL IN ITS ENTIRETY AT EXTENTS NDICATED, AND AS REQ'D. TO ACCOMMODATE PROPOSED SCOPE OF WORK. RE-ROUTE EXIST. CONDUIT / WIRING AND

RELOCATE DEVICES AS NECESSARY. PROVIDE STEEL LINTELS AT MASONRY WALLS WHERE REQUIRED - SEE STRUCTURAL DRAWINGS FOR ADD'L. REQ'S.

REMOVE EXISTING CARPET FLOORING, CARPET PAD, NAILERS, א ETC. IN THEIR ENTIRETY TO DECK BELOW, CAREFULLY SALVAGE EXISTING WOOD SHOE AND BASE FOR REINSTALLATION. RUBBER BASE IF PRESENT SHALL BE DEMOLISHED. TO DEMOLISH EXISTING WINDOW SHADES, HARDWARE IN THEIR

Y ENTIRETY - PATCH / INFILL DAMAGED SURFACES AS REQ'D.

![](_page_52_Picture_64.jpeg)

A11.6

![](_page_53_Figure_0.jpeg)

### Date of Issue: April 19, 2017

PBC: Lake View High School Renovation Project\_C1583 - Addendum No. 1

# MECHANICAL COORDINATION NOTES

MECHANICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:

- . INDICATE THE PROPOSED LOCATIONS OF PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS. INCLUDE THE FOLLOWING:
- A. DUCTWORK MAINS AND BRANCHES, SIZE AND LOCATION, FOR BOTH EXTERIOR AND INTERIOR; LOCATIONS OF DAMPERS AND OTHER CONTROL DEVICES; FILTERS, BOXES, AND TERMINAL UNITS REQUIRING PERIODIC MAINTENANCE OR REPAIR.
- B. MAINS AND BRANCHES OF ALL PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE. INDICATE ACTUAL INVERTS AND HORIZONTAL LOCATIONS OF UNDERGROUND PIPING.
- C. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
- D. CLEARANCES FOR INSTALLING AND MAINTAINING INSULATION.
- E. CLEARANCES FOR SERVING AND MAINTAINING EQUIPMENT, INCLUDING TUBE REMOVAL, FILTER REMOVAL, ETC.
- F. EQUIPMENT CONNECTIONS AND SUPPORT DETAILS.
- G. EXTERIOR WALL AND FOUNDATION PENETRATIONS.
- H. FIRE-RATED WALL AND FLOOR PENETRATIONS.
- I. SIZES AND LOCATION OF REQUIRED CONCRETE PADS AND BASES.
- J. VALVE STEM MOVEMENT.
- K. INDICATE LOCATION OF ALL EQUIPMENT, DUCTWORK, PIPING, ETC., WITH DIMENSIONS FROM PROMINENT BUILDING LINES; AND ELEVATIONS ABOVE CORRESPONDING FLOORS, ROOFS OR GRADE AS APPLICABLE.
- 2. INDICATE SCHEDULING, SEQUENCING, MOVEMENT, AND POSITIONING OF LARGE EQUIPMENT INTO THE BUILDING DURING CONSTRUCTION.
- 3. PREPARE FLOOR PLANS, ELEVATIONS, AND DETAILS TO INDICATE PENETRATIONS IN FLOORS, WALLS, AND CEILINGS AND THEIR RELATIONSHIP TO OTHER PENETRATIONS AND INSTALLATIONS.
- 4. PREPARE REFLECTED CEILING PLANS TO COORDINATE AND INTEGRATE INSTALLATIONS, DUCTWORK, LIGHT FIXTURES, PIPING, AND OTHER CEILING-MOUNTED ITEMS. DIMENSION ALL ITEMS FROM PROMINENT BUILDING LINES.
- 5. SUBMIT ALL COORDINATION DRAWINGS AND/OR SHOP DRAWINGS PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION OF ANY EQUIPMENT. ANY WORK STARTED OR EQUIPMENT PURCHASED PRIOR TO THE REVIEW OF SUBMITTED DRAWINGS BY THE ARCHITECT/ENGINEER IS DONE AT THE CONTRACTOR'S RISK. THE OFFENDING CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR ALL CHANGES, MODIFICATIONS, AND/OR EXTRA SERVICES REQUIRED RESULTING FROM THE IMPROPER COORDINATION AND/OR IMPROPER SUBMITTAL PROCESS.
- 6. ENCIRCLE OR BUBBLE ANY REVISIONS MADE ON DRAWINGS BEING SUBMITTED MORE THAN ONE TIME. INDICATE ALL REVISIONS OR CHANGES MADE SUBSEQUENT TO THE PREVIOUS SUBMITTAL REVIEWED BY THE ARCHITECT/ENGINEER.

GENERAL NOTES ON STEAM TRAPS, DAMPERS, RADIATORS, & INSULATIONS

- 1. TAG AND TEST ALL STEAM TRAPS. PROVIDE ALLOWANCE TO REPLACE 40 TRAPS ON A TOTAL OF APPROXIMATELY 150. REPLACEMENT SHALL INCLUDE ISOLATION VALVES, BYPASS, AND STRAINER.
- 2. ALL EXISTING DAMPERS (RETURN, BYPASS, OUTDOOR) SHALL BE CLEANED AND DEGREASED, SHAFTS AND LINKAGES LUBRICATED AND ADJUSTED. STRAIGHTEN BLADES AS REQUIRED AND EXERCISE DAMPERS TO OPERATE FROM FULL OPEN TO FULL CLOSE WITHOUT BINDING.
- INSTALL TEMPERATURE STAND—ALONE CONTROL VALVES. UNIONS. AND ISOLATION VALVES ON RADIATORS WITHOUT CONTROLS. PROVIDE ALLOWANCE TO INSTALL 60 CONTROL VALVES CORRIDORS AND CLASSROOMS INCLUDING THOSE SHOWN ON M1.1 THRU M1.3.
- 4. PROVIDE INSULATIONS ON PIPES WITH DAMAGED INSULATIONS. PROVIDE ALLOWANCE TO REPLACE 400 LF OF 6" STEAM AND CONDENSATE LINES. PROVIDE SHOP DRAWINGS INDICATING WHICH PIPES WILL BE PROVIDED WITH NEW INSULATION.  $\land$

# SHEET INDEX

M0.0	MECHANICAL ABBREVIATIONS, SYMBOLS, AND NOTES
M1.0	BASEMENT MECHANICAL REFERENCE PLAN
M1.1	FIRST FLOOR MECHANICAL REFERENCE PLAN
M1.2	SECOND FLOOR MECHANICAL REFERENCE PLANS
M1.3	THIRD FLOOR MECHANICAL DEMOLITION PLAN
MD1.5	ROOF MECHANICAL DEMOLITION PLAN
M1.5	ROOF MECHANICAL PLAN
MD2.1	BASEMENT ENLARGED MECHANICAL DEMOLITION PLAN
MD2.2	BASEMENT ENLARGED MECHANICAL DEMOLITION PLANS
MD2.3	BASEMENT ENLARGED MECHANICAL DEMOLITION PLANS
M2.1	BASEMENT ENLARGED MECHANICAL PLAN
M2.2	BASEMENT ENLARGED MECHANICAL PLANS
M2.3	ENLARGED MECHANICAL PLANS
M2.4	ENLARGED MECHANICAL PLANS
M3.1	MECHANICAL SCHEDULES
M3.2	-MECHANICAL-SCHEDULES
M3.3	MĚCHANÍCAL ŠCHEDŮLES
( M3.4	MECHANICAL SCHEDULES $\sqrt{1}$
/ M4.1	MECHANICAL DETAILS
↓ M4.2	STEAM BOILER SYSTEM )
$\sim$	

# MECHANICAL NEW WORK GENERAL NOTES

- COMPLETION DATE OF THE PROJECT.
- ENERGY CODE.
- CONDITIONS, AND/OR AS SPECIFIED, WHEN INSTALLING THEIR WORK.
- AND/OR AS DIRECTED.
- HEIGHTS AND CLEARANCE FOR INSTALLING THEIR WORK.
- THEREFORE, SUBJECT TO PATCHING, REPAIRING, AND REFINISHING.
- MANAGER.
- FROM BUILDING STRUCTURAL MEMBERS ONLY.
- AND/OR DETAILED ON THE DRAWINGS.
- INSTALLED AROUND THE PIPE AND PIPE INSULATION.
- EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT.
- THE CONTRACT DOCUMENTS.
- PROVIDED WITHOUT ADDITIONAL COST TO THE CONTRACT.
- FOR ALL ROOF MOUNTED EQUIPMENT.
- RE-SETTING THE FIRE DAMPER.
- DIVISION 09 OF THE SPECIFICATIONS FOR DETAILS.

#### GENERAL NOTES ON CONTROLS:

PNEU	MATIC ACTUATORS:
A. T	EST ALL THE PNEUMATIC ACTUATORS AND REPLACE THE ACTUATORS IF ACTUATORS FAIL TO STROKE OPEN OR CLOSE. ALLOWANCE TO TEST 120 ACTUATORS.
<u>PNEUN</u>	MATIC CONTROLS:
1. FI	LASH ALL THE PNEUMATIC LINES AND CLEAN WITH NITROGEN. PRESSURE TEST THE LINES. IDENTIFY AND FIX ALL PNEU INE LEAKAGE. PROVIDE ALLOWANCE TO REPLACE 400 LINEAR FEET OF TUBING.
2. P	ROVIDE NEW SETPOINT CONTROLLER FOR ALL THE AIR-HANDLING UNITS. REPLACE COMPONENTS AS REQUIRED. $\frac{2}{1}$
3. A	ADJUST START-STOP SETPOINTS IN EACH AIR-HANDLING UNIT CONTROL PANEL. CALIBRATE AS REQUIRED.

1. DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING AND DUCTWORK AS SHOWN, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. EACH CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN

2. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST CODES AND ORDINANCES OF THE CITY OF CHICAGO, AS WELL AS THE LATEST OSHA, AND STATE REQUIREMENTS. VERIFY ALL REQUIREMENTS OF ALL GOVERNING BODIES. ALL WORK ALSO SHALL BE COMPLIANCE WITH CHICAGO

3. CONTRACTOR SHALL PROVIDE SLEEVES IN FLOORS AND WALLS AS SHOWN ON THE DRAWINGS, AS REQUIRED BY JOB SITE

4. THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT AND IN STRICT ACCORDANCE WITH CONSTRUCTION MANAGER AND OWNERS STIPULATION AS CALLED FOR IN THE SPECIFICATION

5. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, ELECTRICAL, PLUMBING, AND STRUCTURAL CONTRACT DOCUMENTS (BEFORE SUBMITTING THEIR BIDS) TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE OTHER TRADES CONTRACTORS WORK, CEILING

6. CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING AND REFINISHING OF BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OF THEIR WORK. (NOTE: FLOOR CUTTING AND PATCHING FOR NEW DUCTWORK AND ALL ROOF CUTTING AND PATCHING TO BE BY GENERAL CONTRACTOR.) ALL PATCHING, REPAIRING AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE NEW CONSTRUCTION AS CLOSELY AS POSSIBLE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK SHALL BE REPAIRED, REPLACED AND PAID FOR BY THE INSTALLING CONTRACTOR. TO THE SATISFACTION OF THE ARCHITECT AND OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND,

7. CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN CLEAN-UP DURING CONSTRUCTION. IF CONTRACTOR FAILS TO PROVIDE SUCH CLEAN-UP, THE ARCHITECT/ENGINEER WILL DIRECT ANOTHER CONTRACTOR TO PERFORM THE CLEAN-UP AND THE NEGLIGENT CONTRACTOR SHALL PAY THE ASSOCIATED BACK-CHARGES AS DEEMED APPROPRIATE BY THE CONSTRUCTION

8. CONTRACTOR SHALL INSTALL ALL AUXILIARY SUPPORTING STEEL AS REQUIRED FOR THE SUPPORTING OF THEIR PIPING, DUCTWORK, CONDUIT, TANKS, EQUIPMENT, ETC. ALL SUPPORTING STEEL FOR ITEMS ABOVE A SUSPENDED CEILING SHALL BE

9. ALL PIPING SHALL BE SUSPENDED WITH CLEVIS AND/OR TRAPEZE PIPE HANGERS. INSULATED PIPING SHALL REST ON STEEL OR WOOD. PIPE COVERING PROTECTION SADDLES OR SHEET METAL INSULATION SHIELDS AS CALLED FOR IN THE SPECIFICATIONS

10. BEFORE STARTING ANY SYSTEM INSTALLING CONTRACTOR SHALL CONTACT EQUIPMENT MANUFACTURER TO VERIFY THAT EACH PIECE OF EQUIPMENT OR SYSTEM HAS BEEN CHECKED FOR PROPER LUBRICATION, DRIVE ROTATION, BELT TENSION, CONTROL SEQUENCE OR OTHER CONDITIONS WHICH MAY CAUSE DAMAGE TO THE EQUIPMENT OR SYSTEM.

11. ALL PIPING PASSING THRU FLOOR CONSTRUCTION SHALL HAVE A SCHEDULE 40 STEEL PIPE SLEEVE INSTALLED AROUND PIPE ONLY. ALL PIPE PASSING THRU WALLS SHALL HAVE A GALVANIZED SHEET METAL OR SCHEDULE 40 STEEL PIPE SLEEVE

12. THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS FOR DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT LISTED AS A SPECIFIED ACCEPTABLE MANUFACTURER BUT IS NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED. PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH REQUIRED ACCESS AROUND

13. THE ACCESSORIES OR DEVICES REASONABLY INFERABLE AS NECESSARY, TO THE COMPLETE AND PROPER INSTALLATION AND OPERATION OF ANY SYSTEM SHALL BE PROVIDED BY CONTRACTOR WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR IN

14. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS UNLESS NOTED OTHERWISE. ALL PIPING, VALVES, CONNECTIONS, DEVICES RECOMMENDED BY MANUFACTURER OR REQUIRED FOR PROPER OPERATION SHALL BE

15. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED EQUIPMENT. PROVIDE ROOF CURBS (14 INCHES HIGH MIN.)

16. PROVIDE FIRE DAMPERS IN ALL DUCTWORK CROSSING A FIRE RATED WALL/SLAB. PROVIDE DUCT ACCESS DOOR FOR

17. CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING, AND PAINTING AS REQUIRED TO COMPLETE THE WORK.

18. CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING, AND PAINTING AS REQUIRED TO COMPLETE THE WORK. REFER TO

19. PROVIDE SMOKE DETECTORS IN RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OUTDOOR AIR CONNECTIONS. OR DECONTAMINATION EQUIPMENT AND APPLIANCES

> ND REPLACE THE ACTUATORS IF ACTUATORS FAIL TO STROKE OPEN OR CLOSE. PROVIDE

LEAN WITH NITROGEN. PRESSURE TEST THE LINES. IDENTIFY AND FIX ALL PNEUMATIC REPLACE 400 LINEAR FEET OF TUBING.  $\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim$ R ALL THE AIR-HANDLING UNITS. REPLACE COMPONENTS AS REQUIRED.

![](_page_53_Picture_73.jpeg)

ROOM         NO.         000A         000B         000C         001A         001A         001A         001S         001C         001S         001Q         010A         010C         010D	ROOM NAME CORRIDOR CORRIDOR CORRIDOR FAN ROOM-7 CORRIDOR
NO.         0000A         0000B         0000C         001A         001A         001B         001C         001S         001C         0010         010A         010B         010C         010D	CORRIDOR CORRIDOR CORRIDOR FAN ROOM-7 CORRIDOR
000A 000B 000C 001A 001A 001B 001C 001S 002 010 010A 010A 010B 010C	CORRIDOR CORRIDOR CORRIDOR FAN ROOM-7 CORRIDOR
000B 000C 001 001A 001B 001C 001S 002 010 010A 010B 010C 010D	CORRIDOR CORRIDOR FAN ROOM-7 CORRIDOR
000C 001A 001B 001C 001S 002 010 010A 010B 010C 010D	CORRIDOR FAN ROOM-7 CORRIDOR
001 001A 001B 001C 001S 002 010 010A 010A 010B 010C 010D	FAN ROOM-7 CORRIDOR
001A 001B 001C 002 010 010A 010A 010B 010C	CORRIDOR
001B 001C 002 010 010A 010A 010B 010C	
001C 001S 002 010 010A 010B 010C 010D	CORRIDOR
001S 002 010 010A 010B 010C 010D	CORRIDOR
002 010 010A 010B 010C 010D	STAIR-1
010 010A 010B 010C 010D	DRY STORAGE
010A 010B 010C 010D	
010B 010C 010D	
0100	
	DRY STORAGE
010D.1	WOMEN STAFF TOILET
010E	JANITOR CLOSET
010F	UNISEX TOILET
010G	UNISEX TOILET
010S	STAIR-2
011	STORAGE
011A	ELECTRICAL ROOM
011B	ELECTRICAL ROOM
012	FAN ROOM-5&6
014-0	VESTIBULE
014S	STAIK-J
016	BOXS SHOWED DOOL
016A	BOYS DRVING AREA
0160	BOYS TOULET BOOM
016D	TEAM LOCKER ROOM
0165	STAIR-4
017	MECHANICAL ROOM
_	CORRIDOR
020	SERVING
023	MECHANICAL ROOM
024	FAN ROOM-3
027	POOL TANK
027A	STAIR-5 CORRIDOR
027S	STAIR-5
029	ENGINEER OFFICE
029A	
0298	
0295 0295	
0290	
030B	
031	STORAGE
031A	STORAGE
031B	FAN ROOM-1
031C	STORAGE
031D	STORAGE
032	STORAGE
033	STORAGE
034	STORAGE
035-0	VESTIBULE
0355	
0.37	
0404	STORAGE
040R	OFFICE
050	NATATORIUM
050A	CONS. EQUIP. STORAGE
060	GIRLS LOCKER ROOM
060A	GIRLS SHOWER ROOM
060B	GIRLS DRYING AREA
060C	GIRLS TOILET ROOM
060D	LAUNDRY ROOM
070	STAFF & UNISEX
000	LUCKER ROOM
000	
0802	STAIR-10
090	ROTC CLASSROOM
090A	ROTC OFFICE
090B	ROTC STORAGE
0900	ROTC STORAGE
091	BOILER
091A	BOILER VESTIBULE
092	FAN ROOM-2

![](_page_54_Figure_1.jpeg)

# N.I.C. (TYPICAL)

# N.I.C. (TYPICAL)

4 PROVIDE NEW DUCTWORK AND CONNECT TO EXISTING DUCTWORK. PRESSURE TEST ALL NEW DUCTS PER ASHRAE 90.1-2016, 6.4.4.2.

DISCONNECT EXISTING GAS LINES TO [E]FOOD WARMERS, AND CAP NEAR CEILING.
 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING DUCT IN OLD DISHWASHING ROOM.
 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING SUPPLY AIR DUCT & REGISTER AT CEILING.

PUBLIC BUILDING COMMISSION		Public schools
CORD(	DGAN, CLA ARCHITEC	ARK & ASSOCIATES INC TS · ENGINEERS : .cordoganclark.com
A U R 960 RIDGE AURORA, IL TEL 63 FAX 63	O R A WAY AVENUE LINOIS 60506 30.896.4678 30.896.4987	C H I C A G O 716 NORTH WELLS STREET CHICAGO, ILLINOIS 60654 TEL 312.943.7300 FAX 312.943.4771
S	INGH + ASSOC	CIATES, INC. NGINEERS
	PROVIDE AC	DR/EOR STAMP HERE
LAKE HIGH 4015 N CHICAG	VIEW SCHOOL IORTH ASH O, ILLINOIS	LAND AVENUE 60613
PROJEC	CT NO. 201	6-46211-MCR
NO.	h DATE	DESCRIPTION
-	2016.04.19	30% SUBMITTAL
-	2016.06.14	60% SUBMITTAL 75% SUBMITTAL
_	2017.03.02	100% SUBMITTAL
-	2017.03.07	PERMIT SET
	2017.03.23	PRELIMINARY OTB SET BID SET
$\Lambda$	2017.04.12	ADDENDUM #1
DRAWN	BY: F	<u> </u>
SCALE:	1,	/16"=1'-0"
JOB:	м	1 0
FILE.	IVI	
	ہمیں ہے	ASHLAND AVE.
AR WO	EAS OF RK: ENTIF	
EX AN	TERIOR, AL D ROOF	
WARN	[NG:	ASBESTOS-CONTAINING
BUILD BE PI	ING MAT RESENT I	ERIALS ARE DR MAY N THIS BUILDING, AN
ASBES AVAIL	STOS MA ABLE IN	NAGEMENT PLAN IS N THE SCHOOL FOR
RE∨IE MAY ]	W UPON DISTURB	REQUEST. ND PERSON ASBESTOS-CONTAINING
MATER A LIC	RIALS UNI CENSED A	LESS THAT PERSON IS SBESTOS WORKER OR
	DANCE W	YITH SPECIFICATION(S)
	AINED IENTS A	ND IN COMPLIANCE
HEALT	H RULES	AND REGULATIONS.
	BA	SEMENT
	MEC	CHANICAL
	REFER	ENCE PLAN
	DR	AWING NO.
	ЛЛ	1 0
		<b>U.</b> I

SECOND         FLOOR         ROOM         SCHULE           ROOM         AAME         ROOM         NAME           200A         JANITOR CLOSET         200B         TOILET           200D         TOILET         200C         STAFF TOILET           200E         STORAGE         200F         MAIN GYNASIUM-TRACK           200G         JANITOR CLOSET         200H         TOILET           200H         TOILET         200U         LELECTRICAL ROOM           200H         JANITOR CLOSET         200Q         CORRIDOR           200N         CORRIDOR         200S         CORRIDOR           200N         CORRIDOR         201S         SMALL GYMNASIUM-WEST           201         SMALL GYMNASIUM-WEST         201S         SMALL GYMNASIUM-EAST           201S         SMALL GYMNASIUM-EAST         203S         STAIR-9           202         CLASSROOM         201S         STAIR-2           201         CLASSROOM         201S         STAIR-1           207         OFFICE         203         STAIR-1           203         STAIR-1         201         CLASSROOM           2121         LEVEL 1         BIOLOGY LAB           2122         LEVEL 1<	EXISTIN	G
ROOM         ROOM         NAME           200A         JANITOR CLOSET           200B         TOILET           200C         STAFF TOILET           200D         TOILET           200E         STORAGE           200F         MAIN GYNASIUM-TRACK           200G         JANITOR CLOSET           200H         TOILET           200L         ELECTRICAL ROOM           200M         TOILET           200N         MEN STAFF TOILET           200N         CORRIDOR           200N         CORRIDOR           200N         CORRIDOR           200N         CORRIDOR           200N         CORRIDOR           201         SMALL GYMNASIUM-WEST           2020         CORRIDOR           2011         STAFF AND UNISEX DRY           LOCKER ROOM         2018           2012         CLASSROOM           2023         STAIR-9           2020         CLASSROOM           2035         STAIR-10           212         LEVEL 1 BIOLOGY LAB           2123         SCIENCE PREP ROOM           2124         SOICASROM           2135         STAIR-4	SECOND	FLOOR ROOM SCHDULE
200A         JANITOR CLOSET           200B         TOILET           200C         STAFF TOILET           200E         STORAGE           200F         MAIN GYNASIUM-TRACK           200G         JANITOR CLOSET           200H         TOILET           200L         ELECTRICAL ROOM           200M         MEN STAFF TOILET           200N         MEN STAFF TOILET           200N         MEN STAFF TOILET           200N         CORRIDOR           200N         CORRIDOR           200N         CORRIDOR           2001         CORRIDOR           2002         CORRIDOR           2013         SMALL GYMNASIUM-WEST           2014         STAFF AND UNISEX DRY           LOCKER ROOM         2022           2013         SMALL GYMNASIUM-EAST           2035         STAIR-9           204         CLASSROOM           2055         STAIR-1           207         OFFICE           208         CLASSROOM           2121         LEVEL 2 BIOLOGY LAB           2122         LEVEL 1 BIOLOGY LAB           2123         CLASSROOM           2124         SOIAL STUDIES O	ROOM	ROOM NAME
200A         JANITOR CLOSET           200B         TOILET           200C         STAFF TOILET           200E         STORAGE           200F         MAIN GYNASIUM-TRACK           200G         JANITOR CLOSET           200H         TOILET           200J         BOY'S STUDENT TOILET           200H         TOILET           200N         MEN STAFF TOILET           200N         MEN STAFF TOILET           200N         CORRIDOR           200N         CORRIDOR           200N         CORRIDOR           2001         SMALL GYMNASIUM-WEST           2011         SMALL GYMNASIUM-WEST           2012         CLASSROOM           2013         SMALL GYMNASIUM-EAST           2014         STAFF AND UNISEX DRY           LOCKER ROOM         2025           2013         SMALL GYMNASIUM-EAST           203         SMALL GYMNASIUM-EAST           203         SMALL GYMNASIUM-EAST           203         SMALL GYMNASIUM-EAST           203         STAIR-9           204         CLASSROOM           205         STAIR-1           206         SUASSROOM           211 <td></td> <td></td>		
200A         JANITOR CLOSET           200B         TOILET           200C         STAFF           200E         STORAGE           200F         MAIN GYNASIUM-TRACK           200G         JANITOR CLOSET           200H         TOILET           200H         TOILET           200N         BOY'S STUDENT TOILET           200N         MEN STAFF TOILET           200Q         CORRIDOR           200P         JANITOR CLOSET           200Q         CORRIDOR           200P         JANITOR CLOSET           200Q         CORRIDOR           200T         CORRIDOR           200T         CORRIDOR           201A         STAFF AND UNISEX DRY           LOCKER ROOM         201S           201A         STAIR-4           201C         CORRIDOR           2013         SMALL GYMNASIUM-EAST           2035         STAIR-2           204         CLASSROOM           205S         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           2128         STAIR-4           2170		
200A         JANITOR CLOSET           200B         TOILET           200C         STAFF TOILET           200E         STORAGE           200F         MAIN GYNASIUM-TRACK           200G         JANITOR CLOSET           200H         TOILET           200L         ELECTRICAL ROOM           200M         TOILET           200N         MEN STAFF TOILET           200N         MEN STAFF TOILET           200N         CORRIDOR           200R         CORRIDOR           200D         CORRIDOR           200T         CORRIDOR           200T         CORRIDOR           200T         CORRIDOR           200T         CORRIDOR           200T         CORRIDOR           200T         CORRIDOR           201S         SMALL GYMNASIUM-WEST           2023         SMALL GYMNASIUM-EAST           203S         STAIR-9           202         CLASSROOM           203S         STAIR-2           204         CLASSROOM           212         EVEL 2           203         STAIR-10           214         SOEINCE PREP ROOM           2121		
2008         TOILET           2000         TOILET           2000         STAFF TOILET           2000         JANITOR CLOSET           2004         TOILET           2004         TOILET           2004         JANITOR CLOSET           2004         JANITOR CLOSET           2004         JANITOR CLOSET           2004         JANITOR CLOSET           2000         CORRIDOR           2000         CORRIDOR           2000         CORRIDOR           2001         SMALL GYMNASIUM-WEST           2011         SMALL GYMNASIUM-WEST           2012         CLASROOM           2013         SMALL GYMNASIUM-EAST           2035         STAIR-9           204         CLASSROOM           2025         STAIR-1           2037         OFFICE           2038         STAIR-2           204         CLASSROOM           2121         LEVEL 2 BIOLOGY LAB           2122         LEVEL 2 BIOLOGY LAB           2123         SLASSROM           214         SCIENCE PREP ROOM           2121         CLASSROOM           2122         LEVEL 1 BIOLOGY LAB	200A	JANITOR CLOSET
200C         SI AFF TOILET           200D         TOILET           200F         MAIN GYNASIUM-TRACK           200G         JANITOR CLOSET           200H         TOILET           200N         BOY'S STUDENT TOILET           200N         ELECTRICAL ROOM           200M         TOILET           200N         MEN STAFF TOILET           200N         CORRIDOR           200Q         CORRIDOR           200D         CORRIDOR           200D         CORRIDOR           200T         CORRIDOR           201A         STAFF AND UNISEX DRY           LOCKER ROOM         2018           2013         SMALL GYMNASIUM-EAST           203         SMALL GYMNASIUM-EAST           203         SMALL GYMNASIUM-EAST           203         SMALL GYMNASIUM-EAST           203         STAIR-9           204         CLASSROOM           203         STAIR-1           204         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           212A         SCIENCE PREP ROOM           213         STAIR-5           2214         SCIENCE O	200B	
2000         TOILET           2000         FORAGE           2000         MAIN GYNASIUM-TRACK           2000         JANITOR CLOSET           2001         ELECTRICAL ROOM           2000         MEN STAFF TOILET           2000         CORRIDOR           2000         CORRIDOR           2001         STAFF TOILET           2002         CORRIDOR           2003         SMALL GYMNASIUM-WEST           2014         STAFF AND UNISEX DRY           LOCKER ROOM         2015           2011         STAFF AND UNISEX DRY           LOCKER ROOM         2018           2013         SMALL GYMNASIUM-EAST           2033         SMALL GYMNASIUM-EAST           2033         SMALL GYMNASIUM-EAST           2035         STAIR-9           202         CLASSROOM           2035         STAIR-12           204         CLASSROOM           2055         STAIR-2           206         CLASSROOM           211         CLASSROOM           212         LEVEL 2           203         STAIR-4           214         CLASSROOM           215         CLASSROOM <td>200C</td> <td>STAFF TOILET</td>	200C	STAFF TOILET
200E         STORAGE           200G         JANITOR CLOSET           200J         BOY'S STUDENT TOILET           200U         ELECTRICAL ROOM           200W         TOILET           200W         MEN STAFF TOILET           200Q         CORRIDOR           200Q         CORRIDOR           200Q         CORRIDOR           200Q         CORRIDOR           200Q         CORRIDOR           200T         CORRIDOR           200T         CORRIDOR           200T         CORRIDOR           201         SMALL GYMNASIUM-WEST           201         SMALL GYMNASIUM-WEST           201         SMALL GYMNASIUM-EAST           203         SMALL GYMNASIUM-EAST           203         STAIR-9           204         CLASSROOM           2025         STAIR-1           207         OFFICE           208         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           212         LEVEL 2 BIOLOGY LAB           213         STAIR-4           217         CLASSROOM           218         STORAGE	200D	TOILET
200F         MAIN GTNASIUM-TRACK           200G         JANITOR CLOSET           200H         TOILET           200L         ELECTRICAL ROOM           200M         TOILET           200N         MEN STAFF TOILET           200P         JANITOR CLOSET           200P         JANITOR CLOSET           200P         JANITOR CLOSET           200P         JANITOR CLOSET           200R         CORRIDOR           200C         CORRIDOR           200T         CORRIDOR           201         SMALL GYMNASIUM-WEST           201A         STAFF AND UNISEX DRY           LOCKER ROOM         201B           201         CORRIDOR           203         SMALL GYMNASIUM-WEST           203         SMALL GYMNASIUM-EAST           203         SMALL GYMNASIUM-EAST           203S         STAIR-9           204         CLASSROOM           2025         STAIR-1           207         OFFICE           208         STAIR-1           210         CLASSROOM           211         CLASSROOM           2125         CLASSROOM           213         CLASSROOM <td>200E</td> <td>STORAGE</td>	200E	STORAGE
2006         JANITOR CLOSET           200H         TOILET           200L         ELECTRICAL ROOM           200M         TOILET           200N         MEN STAFF TOILET           200P         JANITOR CLOSET           200R         CORRIDOR           200R         CORRIDOR           200S         CORRIDOR           200C         CORRIDOR           200T         CORRIDOR           201A         STAFF AND UNISEX DRY           LOCKER ROOM         201B           201B         PE STORAGE           201C         CORRIDOR           2013         SMALL GYMNASIUM-EAST           2025         STAIR-9           2020         CLASSROOM           20215         STAIR-1           207         OFFICE           209         CLASSROOM           2121         EVEVE 1 BIOLOGY LAB           2122         STAIR-1           207         OFFICE           209         CLASSROOM           2121         EVEVE 1 BIOLOGY LAB           21225         STAIR-4           2130         CLASSROOM           2201         LEVEL 1 BIOLOGY LAB           2	200F	MAIN GYNASIUM-TRACK
2001         JOYS STUDENT TOILET           2004         JANITOR CLOSET           2004         ELECTRICAL ROOM           2007         CORRIDOR           2008         CORRIDOR           2009         JANITOR CLOSET           2000         CORRIDOR           2007         CORRIDOR           2008         CORRIDOR           2001         SMALL GYMNASIUM-WEST           2013         SMALL GYMNASIUM-WEST           2014         STAFF AND UNISEX DRY           LOCKER ROOM         2018           2011         CORRIDOR           2022         CLASSROOM           2023         SMALL GYMNASIUM-EAST           2035         STAIR-9           2020         CLASSROOM           20215         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           2121         EVEL 2         BIOLOGY LAB           2122         LEVEL 1         BIOLOGY LAB           2130         STAIR-10         215           2131         CLASSROOM         220           2202         LEVEL 1         BIOLOGY LAB           2203	2000	JANITUR CLUSET
2006         JANITOR CLOSET           2004         JANITOR CLOSET           2004         TOILET           2009         JANITOR CLOSET           2000         CORRIDOR           2000         CORRIDOR           2001         SMALL GYMNASIUM-WEST           2010         CORRIDOR           2011         SMALL GYMNASIUM-WEST           2012         CORRIDOR           2013         SMALL GYMNASIUM-WEST           2014         STAFF AND UNISEX DRY           LOCKER ROOM         2015           2015         STAIR-9           2020         CLASSROOM           2021         CLASSROOM           2022         STAIR-1           203         STAIR-1           204         CLASSROOM           211         CLASSROOM           2121         LEVEL 2 BIOLOGY LAB           2122         LEVEL 2 BIOLOGY LAB           213         STAIR-4           217         CLASSROOM           218         STAIR-4           217         CLASSROOM           218         STAIR-5           221         SOCIAL STUDIES OFFICE           2221         SOCIAL STUDIES OFFICE     <	200H	IVILEI
2000.         ELECTRICAL ROOM           2001.         ELECTRICAL ROOM           2001.         FORE           2002.         CORRIDOR           2003.         CORRIDOR           2004.         CORRIDOR           2005.         CORRIDOR           2001.         CORRIDOR           2010.         CORRIDOR           2011.         STAFF AND UNISEX DRY           LOCKER ROOM         2013.           2013.         SMALL GYMNASIUM-EAST           2014.         STAIR-9           2020.         CLASSROOM           2021.         CLASSROOM           2022.         STAIR-2           204.         CLASSROOM           2111.         CLASSROOM           2122.         LEVEL 2 BIOLOGY LAB           2123.         STAIR-1           204.         CLASSROOM           213.         CLASSROOM           2143.         SCIENCE PREP ROOM           2152.         CLASSROOM           213.         STAIR-4           217.         CLASSROOM           218.         STAIR-5           221.         SOCIAL STUDIES OFFICE           2221.         SOCIAL STUDIES OFFICE	2000 200K	JANITOR CLOSET
200M         TOILET           200N         MEN STAFF TOILET           200Q         CORRIDOR           200S         CORRIDOR           200S         CORRIDOR           200S         CORRIDOR           201         SMALL GYMNASIUM-WEST           2011         STAFF AND UNISX DRY           LOCKER ROOM         2018           2012         CORRIDOR           203         SMALL GYMNASIUM-EAST           203         SMALL GYMNASIUM-EAST           203         SMALL GYMNASIUM-EAST           203         STAIR-9           204         CLASSROOM           2025         STAIR-1           207         OFFICE           209         CLASSROOM           2112         LEVEL 2 BIOLOGY LAB           2124         SCIENCE PREP ROOM           2125         STAIR-10           216         STAIR-4           217         CLASSROOM           218         STORAGE           213         CLASSROOM           214         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           220S         STAIR-5           221         SOCIAL STUDIES OFFICE	2001	
200N         MEN STAFF TOILET           200P         JANITOR CLOSET           200Q         CORRIDOR           200S         CORRIDOR           200C         CORRIDOR           200T         CORRIDOR           201A         STAFF AND UNISEX DRY           LOCKER ROOM         201B           201A         STAFF AND UNISEX DRY           LOCKER ROOM         203           201C         CORRIDOR           203         SMALL GYMNASIUM-EAST           203S         STAIR-9           202         CLASSROOM           2025         STAIR-9           204         CLASSROOM           205         SUPPORT COMPUTER LAB           205S         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           21212         EVEL 2 BIOLOGY LAB           2122         STAIR-10           213         SCIASSROOM           213         STAIR-4           217         CLASSROOM           218         STAIR-5           221         SOCIAL STUDIES OFFICE           2221         SOCIAL STUDIES OFFICE      2	200M	TOILET
200P         JANITOR CLOSET           200Q         CORRIDOR           200S         CORRIDOR           201         SMALL GYMNASIUM-WEST           201A         STAFF AND UNISEX DRY           LOCKER ROOM         201B           201A         STAFF AND UNISEX DRY           LOCKER ROOM         201C           201B         PE STORAGE           201C         CORRIDOR           203         SMALL GYMNASIUM-EAST           203S         STAIR-9           202         CLASSROOM           202S         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           212A         SCIENCE PREP ROOM           212B         STORAGE           213         CLASSROOM           213         STAIR-4           217         CLASSROOM           218         STORAGE           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           220S         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB	200N	MEN STAFF TOILET
200Q         CORRIDOR           200S         CORRIDOR           201         SMALL GYMNASIUM-WEST           201A         STAFF AND UNISEX DRY           LOCKER ROOM         201B           201J         SMALL GYMNASIUM-WEST           201A         STAFF AND UNISEX DRY           LOCKER ROOM         201B           201C         CORRIDOR           203         SMALL GYMNASIUM-EAST           203S         STAIR-9           202         CLASSROOM           202S         STAIR-2           204         CLASSROOM           205         SUPPORT COMPUTER LAB           205S         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           2128         STORAGE           213         CLASSROOM           2145         STAIR-4           217         CLASSROOM           218         STAIR-4           217         CLASSROOM           218         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2208         STORAGE	200P	JANITOR CLOSET
200R         CORRIDOR           200T         CORRIDOR           201         SMALL GYMNASIUM-WEST           201A         STAFF AND UNISEX DRY           LOCKER ROOM         201B           201C         CORRIDOR           203         SMALL GYMNASIUM-EAST           203S         STAIR-9           202         CLASSROOM           202S         STAIR-2           204         CLASSROOM           205S         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           213         CLASSROOM           214         SCIENCE PREP ROOM           215         CLASSROOM           216S         STAIR-10           215         CLASSROOM           216S         STAIR-4           217         CLASSROOM           218         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           220S         STAIR-5           221         SOCIAL STUDIES OFFICE           2224         RCP ROOM           2	200Q	CORRIDOR
200S         CORRIDOR           201         SMALL GYMNASIUM-WEST           201A         STAFF AND UNISEX DRY           LOCKER ROOM         201B           201B         PE STORAGE           201C         CORRIDOR           203         SMALL GYMNASIUM-EAST           203         STAIR-9           202         CLASSROOM           2025         STAIR-2           204         CLASSROOM           2055         SUPPORT COMPUTER LAB           2055         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2           204         STAIR-1           207         OFFICE           209         CLASSROOM           212         LEVEL 2           213         CLASSROOM           2135         STAIR-4           217         CLASSROOM           218         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1         BIOLOGY LAB           2208         STARE5           221         SOCIAL STUDIES OFFICE <td< td=""><td>200R</td><td>CORRIDOR</td></td<>	200R	CORRIDOR
200T         CORRIDOR           201         SMALL GYMNASIUM-WEST           201A         STAFF AND UNISEX DRY           LOCKER ROOM         201B           201B         PE STORAGE           201C         CORRIDOR           203         SMALL GYMNASIUM-EAST           203S         STAIR-9           202         CLASSROOM           2025         STAIR-2           204         CLASSROOM           205         SUPPORT COMPUTER LAB           205S         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           2121         EVEL 2 BIOLOGY LAB           2123         CLASSROOM           2133         STAIR-10           215         CLASSROOM           216         STAIR-4           217         CLASSROOM           218         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2205         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2223         CLASSROOM <t< td=""><td>200S</td><td>CORRIDOR</td></t<>	200S	CORRIDOR
201         SMALL GYMNASIUM-WEST           201A         STAFF AND UNISEX DRY           LOCKER ROOM           201B         PE STORAGE           201C         CORRIDOR           203         SMALL GYMNASIUM-EAST           203S         STAIR-9           202         CLASSROOM           2025         STAIR-2           204         CLASSROOM           205         SUPPORT COMPUTER LAB           205         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           2121         EVEL 2 BIOLOGY LAB           2123         STAIR-10           213         CLASSROOM           213         CLASSROOM           213         STAIR-10           215         CLASSROOM           216         STAIR-4           217         CLASSROOM           220         LEVEL 1 BIOLOGY LAB           2205         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2220         STORAGE           2223         CLASSROOM           2224 <td< td=""><td>200T</td><td>CORRIDOR</td></td<>	200T	CORRIDOR
201A         STAFF AND UNISEX DRY           LOCKER ROOM           201B         PE STORAGE           201C         CORRIDOR           203         SMALL GYMNASIUM-EAST           203S         STAIR-9           202         CLASSROOM           202S         STAIR-2           204         CLASSROOM           205S         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           212A         SCIENCE PREP ROOM           213         STAIR-10           214         SCIENCE PREP ROOM           215         CLASSROOM           216S         STAIR-4           217         CLASSROOM           218         STAIR-4           217         CLASSROOM           220         LEVEL 1 BIOLOGY LAB           220S         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2220S         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           222A	201	SMALL GYMNASIUM-WEST
LOCKER ROOM           201B         PE STORAGE           201C         CORRIDOR           203         SMALL GYMNASIUM-EAST           203S         STAIR-9           202         CLASSROOM           202S         STAIR-2           204         CLASSROOM           205         SUPPORT COMPUTER LAB           205         SUPPORT COMPUTER LAB           205         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           213         CLASSROOM           214         SCIENCE PREP ROOM           215         CLASSROOM           216         STAIR-4           217         CLASSROOM           218         STAIR-4           217         CLASSROOM           220         LEVEL 1 BIOLOGY LAB           2220         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2223         CLASSROOM           2224         REP ROOM           2225         CLASSROOM           228         STO	201A	STAFF AND UNISEX DRY
201B         PE STORAGE           201C         CORRIDOR           203         SMALL GYMNASIUM-EAST           203S         STAIR-9           202         CLASSROOM           202S         STAIR-2           204         CLASSROOM           205         SUPPORT COMPUTER LAB           205S         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           213         CLASSROOM           214         SCIENCE PREP ROOM           215         CLASSROOM           216S         STAIR-4           217         CLASSROOM           218         STORAGE           220         LEVEL 1 BIOLOGY LAB           2205         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           22205         STAR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2223         CLASSROOM           224         COMMUNITY ROOM           225         CLASSROOM		LOCKER ROOM
201C         CORRIDOR           203         SMALL GYMNASIUM-EAST           203S         STAIR-9           202         CLASSROOM           202S         STAIR-2           204         CLASSROOM           205         SUPPORT COMPUTER LAB           205         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           2123         SCLASSROOM           213         SCLASSROOM           213         CLASSROOM           213         STAIR-10           215         CLASSROOM           216         STAIR-4           217         CLASSROOM           218         STAIR-4           217         CLASSROOM           220         LEVEL 1 BIOLOGY LAB           2220         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2220         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2223         CLASSROOM           224<	201B	PE STORAGE
203         SMALL GYMNASIUM-EAST           203S         STAIR-9           202         CLASSROOM           202S         STAIR-2           204         CLASSROOM           205         SUPPORT COMPUTER LAB           205S         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           212.         STORAGE           213         SCLASSROOM           213.         SCLASSROOM           213.         STAIR-10           215         CLASSROOM           216         STAIR-4           217         CLASSROOM           218         STAIR-4           217         CLASSROOM           220         LEVEL 1 BIOLOGY LAB           2205         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2220         SOCIAL STUDIES OFFICE           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           222.0         SCIENCE OFFICE           223         CLASSROOM	201C	CORRIDOR
203S         STAIR-9           202         CLASSROOM           202S         STAIR-2           204         CLASSROOM           205         SUPPORT COMPUTER LAB           205S         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           212A         SCIENCE PREP ROOM           213S         STAIR-10           214B         STORAGE           213         CLASSROOM           216S         STAIR-4           217         CLASSROOM           218         STORAGE           220         LEVEL 1 BIOLOGY LAB           220S         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2220S         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2222         LEVEL 1 BIOLOGY LAB           2223         CLASSROOM           224         COMMUNITY ROOM           225         CLASSROOM           228         SCIENCE OFFICE <t< td=""><td>203</td><td>SMALL GYMNASIUM-EAST</td></t<>	203	SMALL GYMNASIUM-EAST
202         CLASSROOM           202S         STAIR-2           204         CLASSROOM           205         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           212A         SCIENCE PREP ROOM           213S         STAIR-10           214B         STORAGE           213         CLASSROOM           214B         STORAGE           213         CLASSROOM           214B         STAIR-4           217         CLASSROOM           218         STAIR-4           217         CLASSROOM           220         LEVEL 1 BIOLOGY LAB           220S         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2220S         STARGE           2221         SOCIAL STUDIES OFFICE           2222         LEVEL 1 BIOLOGY LAB           2223         CLASSROOM           224         COMMUNITY ROOM           225         CLASSROOM           228         STORAGE           228	2035	STAIR-9
202S         STAIR-2           204         CLASSROOM           205         SUPPORT COMPUTER LAB           205S         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           212         STORAGE           213         CLASSROOM           214         SCIENCE PREP ROOM           212B         STORAGE           213         CLASSROOM           216S         STAIR-10           215         CLASSROOM           216S         STAIR-4           217         CLASSROOM           220         LEVEL 1 BIOLOGY LAB           2220         SOCIAL STUDIES OFFICE           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2222         DEP ROOM           2223         CLASSROOM           224         COMMUNITY ROOM           225         CLASSROOM           228         SCIENCE OFFICE           228A         STORAGE           228B         STORAGE           229C         STORAGE           229E <td>202</td> <td></td>	202	
204         CLASSROOM           205         SUPPORT COMPUTER LAB           2055         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           212         SCIENCE PREP ROOM           212         STORAGE           213         CLASSROOM           214         SCIENCE PREP ROOM           215         CLASSROOM           216S         STAIR-10           215         CLASSROOM           216S         STAIR-4           217         CLASSROOM           220         LEVEL 1 BIOLOGY LAB           2205         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2222         DEVEL 1 BIOLOGY LAB           2224         PREP ROOM           2225         CLASSROOM           224         COMMUNITY ROOM           225         CLASSROOM           228         SCIENCE OFFICE           228A         STORAGE           228E         ELEVATOR           2292         COLLEGE & CAREER LAB <t< td=""><td>202S</td><td>STAIR-2</td></t<>	202S	STAIR-2
205         SUPPORT COMPUTER LAB           205S         STAIR-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           212A         SCIENCE PREP ROOM           212B         STORAGE           213         CLASSROOM           214B         STORAGE           213         CLASSROOM           215         CLASSROOM           216S         STAIR-4           217         CLASSROOM           220         LEVEL 1 BIOLOGY LAB           2205         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           222A         PREP ROOM           222B         STORAGE           222A         PREP ROOM           222B         STORAGE           222A         PREP ROOM           222B         STORAGE           222B         STORAGE           222B         STORAGE           228A         STORAGE           228B         STORAGE           229C         COLLEGE & CAREER LAB           229C	204	CLASSROOM
2005         STAIK-1           207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           212A         SCIENCE PREP ROOM           212B         STORAGE           213         CLASSROOM           213S         STAIR-10           215         CLASSROOM           216S         STAIR-4           217         CLASSROOM           220         LEVEL 1 BIOLOGY LAB           220S         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           222A         PREP ROOM           222B         STORAGE           222A         PREP ROOM           222B         STORAGE           222A         PREP ROOM           222B         STORAGE           22B         STORAGE           22B         STORAGE           22B         STORAGE           22B         STORAGE           22B         SCIENCE OFFICE           22B         STORAGE           22BS         STAIR-6           229         COLLEGE & CAREER LAB<	205	SUPPORT COMPUTER LAB
207         OFFICE           209         CLASSROOM           211         CLASSROOM           212         LEVEL 2 BIOLOGY LAB           212A         SCIENCE PREP ROOM           212B         STORAGE           213         CLASSROOM           2135         STAIR-10           215         CLASSROOM           216S         STAIR-4           217         CLASSROOM           220         LEVEL 1 BIOLOGY LAB           2205         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           2223         CLASSROOM           224         PREP ROOM           225         CLASSROOM           226         STORAGE           227         LEVEL 1 BIOLOGY LAB           2220         STORAGE           223         CLASSROOM           224         COMMUNITY ROOM           225         CLASSROOM           228         SCIENCE OFFICE           228A         STORAGE           228B         STORAGE           229C         COLLEGE & CAREER LAB           229A         TEACHER WORK AREA <t< td=""><td>205S</td><td></td></t<>	205S	
211       CLASSROOM         212       LEVEL 2 BIOLOGY LAB         212A       SCIENCE PREP ROOM         212B       STORAGE         213       CLASSROOM         215       CLASSROOM         216S       STAIR-4         217       CLASSROOM         218       STAIR-4         217       CLASSROOM         219       CLASSROOM         220       LEVEL 1 BIOLOGY LAB         220S       STAIR-5         221       SOCIAL STUDIES OFFICE         222       LEVEL 1 BIOLOGY LAB         222A       PREP ROOM         222B       STORAGE         223       CLASSROOM         224       COMMUNITY ROOM         225       CLASSROOM         228       SCIENCE OFFICE         228A       STORAGE         228B       STORAGE         228C       CLASSROOM         228E       ELEVATOR         228S       STAIR-6         229       COLLEGE & CAREER LAB         229A       TEACHER WORK AREA         230       TEACHER WORK AREA         231       OFFICE         2322       LIBRARY-MAIN <td>207</td> <td></td>	207	
211         LEVEL 2 BIOLOGY LAB           212A         SCIENCE PREP ROOM           212B         STORAGE           213         CLASSROOM           213S         STAIR-10           215         CLASSROOM           216S         STAIR-4           217         CLASSROOM           218         STORAGE           217         CLASSROOM           219         CLASSROOM           220         LEVEL 1 BIOLOGY LAB           220S         STAIR-5           221         SOCIAL STUDIES OFFICE           222         LEVEL 1 BIOLOGY LAB           222A         PREP ROOM           222B         STORAGE           222A         PREP ROOM           222B         STORAGE           222A         PREP ROOM           222B         STORAGE           223         CLASSROOM           224         COMMUNITY ROOM           225         CLASSROOM           228         SCIENCE OFFICE           228A         STORAGE           228B         STORAGE           229C         COLLEGE & CAREER LAB           229A         TEACHER WORK AREA           230 </td <td>203</td> <td></td>	203	
2112SCIENCE PREP ROOM2112BSTORAGE213CLASSROOM213SSTAIR-10215CLASSROOM216SSTAIR-4217CLASSROOM219CLASSROOM220LEVEL 1 BIOLOGY LAB220sSTAIR-5221SOCIAL STUDIES OFFICE222LEVEL 1 BIOLOGY LAB2228STORAGE223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE2284STORAGE2285STAIR-62290COLLEGE & CAREER LAB2291TEACHER WORK AREA2292STORAGE230TEACHER WORK AREA231OFFICE2322LIBRARY-MAIN2323TEACHER WORK AREA237OFFICE237AUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM239STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM	212	LEVEL 2 BIOLOGY LAB
212BSTORAGE213CLASSROOM213SSTAIR-10215CLASSROOM216SSTAIR-4217CLASSROOM220LEVEL 1 BIOLOGY LAB220sSTAIR-5221SOCIAL STUDIES OFFICE222LEVEL 1 BIOLOGY LAB2228STORAGE223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE2284STORAGE2285STAIR-62290COLLEGE & CAREER LAB2291TEACHER WORK AREA2292STORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM230EACHER WORK AREA231OFFICE2323TEACHER WORK AREA234STORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM	212A	SCIENCE PREP ROOM
213CLASSROOM215CLASSROOM216SSTAIR-4217CLASSROOM219CLASSROOM220LEVEL 1 BIOLOGY LAB2205STAIR-5221SOCIAL STUDIES OFFICE222LEVEL 1 BIOLOGY LAB222APREP ROOM223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE228ASTORAGE228EELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE2322LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM239JOHICRIUM BALCONY237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM239LIBRARY WORKROOM230LIBRARY WORKROOM	212B	STORAGE
213SSTAIR-10215CLASSROOM216SSTAIR-4217CLASSROOM219CLASSROOM220LEVEL 1 BIOLOGY LAB220SSTAIR-5221SOCIAL STUDIES OFFICE222LEVEL 1 BIOLOGY LAB222APREP ROOM222BSTORAGE223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE228ASTORAGE228EELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM239STAIR-8238LIBRARY WORKROOM237STAIR-8238LIBRARY WORKROOM237STAIR-8238LIBRARY WORKROOM237STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM239STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM239STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM	213	CLASSROOM
215CLASSROOM216SSTAIR-4217CLASSROOM219CLASSROOM220LEVEL 1 BIOLOGY LAB220SSTAIR-5221SOCIAL STUDIES OFFICE222LEVEL 1 BIOLOGY LAB222APREP ROOM222BSTORAGE223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE228ASTORAGE228EELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM237STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM	213S	STAIR-10
216SSTAIR-4217CLASSROOM219CLASSROOM220LEVEL 1 BIOLOGY LAB220SSTAIR-5221SOCIAL STUDIES OFFICE222LEVEL 1 BIOLOGY LAB222APREP ROOM222BSTORAGE223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE228ASTORAGE228EELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM	215	CLASSROOM
217CLASSROOM219CLASSROOM220LEVEL 1 BIOLOGY LAB220SSTAIR-5221SOCIAL STUDIES OFFICE222LEVEL 1 BIOLOGY LAB222APREP ROOM222BSTORAGE223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE228ASTORAGE228EELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM239JIBRARY WORKROOM230STAIR-8231OFFICE232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM239STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM239STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM	216S	STAIR-4
219CLASSROOM220LEVEL 1 BIOLOGY LAB220SSTAIR-5221SOCIAL STUDIES OFFICE222LEVEL 1 BIOLOGY LAB222APREP ROOM222BSTORAGE223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE228ASTORAGE228EELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM239OFFICE237AUDITORIUM BALCONY237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM239LIBRARY WORKROOM <tr< td=""><td>217</td><td>CLASSROOM</td></tr<>	217	CLASSROOM
220LEVEL 1 BIOLOGY LAB220SSTAIR-5221SOCIAL STUDIES OFFICE222LEVEL 1 BIOLOGY LAB222APREP ROOM222BSTORAGE223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE228ASTORAGE228BSTORAGE228CELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM233CLASSROM233CLASSROM	219	CLASSROOM
220SSTAIR-5221SOCIAL STUDIES OFFICE222LEVEL 1 BIOLOGY LAB222APREP ROOM222BSTORAGE223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE228ASTORAGE228EELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM230TAIR-8231OFFICE237AUDITORIUM BALCONY237S-7STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM	1 220	
221SOCIAL STUDIES OFFICE222LEVEL 1 BIOLOGY LAB222APREP ROOM223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE228ASTORAGE228EELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM	220	LEVEL I BIOLOGI LAB
222LEVEL 1 BIOLOGY LAB222APREP ROOM222BSTORAGE223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE228ASTORAGE228EELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM	220 220S	STAIR-5
222APREP ROOM222BSTORAGE223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE228ASTORAGE228EELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM	220S 220S 221	STAIR-5 SOCIAL STUDIES OFFICE
222BSTORAGE223CLASSROOM224COMMUNITY ROOM225CLASSROOM228SCIENCE OFFICE228ASTORAGE228EELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM	220 220S 221 222	STAIR-5 SOCIAL STUDIES OFFICE
223       CLASSROOM         224       COMMUNITY ROOM         225       CLASSROOM         228       SCIENCE OFFICE         228A       STORAGE         228E       ELEVATOR         228S       STAIR-6         229       COLLEGE & CAREER LAB         229       COLLEGE & CAREER LAB         229       STORAGE         229       STORAGE         230       TEACHER WORK AREA         231       OFFICE         232       LIBRARY-MAIN         232A       STORAGE         235       TEACHER WORK AREA         237       OFFICE         237       OFFICE         237A       AUDITORIUM BALCONY         237S-7       STAIR-7         237S-8       STAIR-8         238       LIBRARY WORKROOM         238       LIBRARY WORKROOM         238       LIBRARY WORKROOM	220 220S 221 222 222A	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM
225       CLASSROOM         228       SCIENCE OFFICE         228A       STORAGE         228B       STORAGE         228E       ELEVATOR         228S       STAIR-6         229       COLLEGE & CAREER LAB         229A       TEACHER WORK AREA         229B       MDF         229C       STORAGE         230       TEACHER WORK AREA         231       OFFICE         232       LIBRARY-MAIN         232A       STORAGE         233       TEACHER WORK AREA         231       OFFICE         232       LIBRARY-MAIN         232A       STORAGE         2335       TEACHER WORK AREA         237       OFFICE         237A       AUDITORIUM BALCONY         237S-7       STAIR-7         237S-8       STAIR-8         238       LIBRARY WORKROOM         238       LIBRARY WORKROOM         237       GENERARY         238       LIBRARY WORKROOM         238       LIBRARY         238       LIBRARY         238       LIBRARY         237       CONTAGE         23	220 220S 221 222 222A 222B 223	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE
228       SCIENCE OFFICE         228       STORAGE         228B       STORAGE         228E       ELEVATOR         228S       STAIR-6         229       COLLEGE & CAREER LAB         229       COLLEGE & CAREER LAB         229       STORAGE         229       STORAGE         230       TEACHER WORK AREA         231       OFFICE         232       LIBRARY-MAIN         232A       STORAGE         235       TEACHER WORK AREA         237       OFFICE         237       OFFICE         237       AUDITORIUM BALCONY         237S-7       STAIR-7         237S-8       STAIR-8         238       LIBRARY WORKROOM         238       LIBRARY WORKROOM         237S-8       STAIR-8         238       LIBRARY WORKROOM	220 220S 221 222 222A 222A 222B 223 224	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM
2280       STORAGE         2288       STORAGE         2288       STORAGE         2285       STAIR-6         229       COLLEGE & CAREER LAB         2291       TEACHER WORK AREA         2292       STORAGE         230       TEACHER WORK AREA         231       OFFICE         232       LIBRARY-MAIN         232A       STORAGE         235       TEACHER WORK AREA         237       OFFICE         238       CLASSROOM STORAGE         237       OFFICE         237A       AUDITORIUM BALCONY         237S-7       STAIR-7         237S-8       STAIR-8         238       LIBRARY WORKROOM         238       LIBRARY WORKROOM         237       STAIR-8         238       LIBRARY WORKROOM	220 220S 221 222 222A 222B 223 224 225	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM
228B       STORAGE         228E       ELEVATOR         228S       STAIR-6         229       COLLEGE & CAREER LAB         229A       TEACHER WORK AREA         229C       STORAGE         230       TEACHER WORK AREA         231       OFFICE         232       LIBRARY-MAIN         232A       STORAGE         232B       CLASSROOM STORAGE         237       OFFICE         237       OFFICE         237A       AUDITORIUM BALCONY         237S-7       STAIR-7         237S-8       STAIR-8         238       LIBRARY WORKROOM         238       LIBRARY WORKROOM         237       STAIR-8         238       LIBRARY WORKROOM	220 220S 221 222 222A 222B 223 224 225 228	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE
228EELEVATOR228SSTAIR-6229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM11 <td< td=""><td>220 220S 221 222 222A 222B 223 224 225 228 228 228</td><td>STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE</td></td<>	220 220S 221 222 222A 222B 223 224 225 228 228 228	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE
228S       STAIR-6         229       COLLEGE & CAREER LAB         229A       TEACHER WORK AREA         229B       MDF         229C       STORAGE         230       TEACHER WORK AREA         231       OFFICE         232       LIBRARY-MAIN         232A       STORAGE         232B       CLASSROOM STORAGE         235       TEACHER WORK AREA         237       OFFICE         237A       AUDITORIUM BALCONY         237S-7       STAIR-7         238       LIBRARY WORKROOM         238       LIBRARY WORKROOM         238       LIBRARY WORKROOM         237S-8       STAIR-8         238       LIBRARY WORKROOM	220 220S 221 222A 222A 222B 223 224 225 228 228 228A 228B	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE
229COLLEGE & CAREER LAB229ATEACHER WORK AREA229BMDF229CSTORAGE230TEACHER WORK AREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHER WORK AREA237OFFICE237AAUDITORIUM BALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM238LIBRARY WORKROOM	220 220S 221 222A 222A 222B 223 224 225 228 228A 228B 228B 228B	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR
229ATEACHERWORKAREA229BMDF229CSTORAGE230TEACHERWORKAREA231OFFICE232LIBRARY-MAIN232ASTORAGE235TEACHERWORK235TEACHERWORK237AAUDITORIUMBALCONY237S-7STAIR-7237S-8STAIR-8238LIBRARYWORKROOM	220 220S 221 222 222A 222B 223 224 225 228 228A 228B 228B 228B 228E 228S	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6
229B       MDF         229C       STORAGE         230       TEACHER WORK AREA         231       OFFICE         232       LIBRARY-MAIN         232A       STORAGE         232B       CLASSROOM STORAGE         235       TEACHER WORK AREA         237       OFFICE         237A       AUDITORIUM BALCONY         237S-7       STAIR-7         237S-8       STAIR-8         238       LIBRARY WORKROOM	220 220S 221 222A 222A 222B 223 224 225 228 228 228A 228B 228B 228B 228E 228S 229	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB
229C       STORAGE         230       TEACHER WORK AREA         231       OFFICE         232       LIBRARY-MAIN         232A       STORAGE         232B       CLASSROOM STORAGE         235       TEACHER WORK AREA         237       OFFICE         237A       AUDITORIUM BALCONY         237S-7       STAIR-7         238       LIBRARY WORKROOM         238       LIBRARY WORKROOM         237       OFFICE         237       STAIR-7         237       STAIR-7         237       STAIR-8         238       LIBRARY WORKROOM	220 220S 221 222A 222A 222B 223 224 225 228 228A 228B 228B 228B 228E 228S 229 229A	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA
230       TEACHER WORK AREA         231       OFFICE         232       LIBRARY-MAIN         232A       STORAGE         232B       CLASSROOM STORAGE         235       TEACHER WORK AREA         237       OFFICE         237A       AUDITORIUM BALCONY         237S-7       STAIR-7         238       LIBRARY WORKROOM	220 220S 221 222A 222A 222B 223 224 225 228 228A 228B 228B 228B 228B 228B 228B	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF
231       OFFICE         232       LIBRARY-MAIN         232A       STORAGE         232B       CLASSROOM STORAGE         235       TEACHER WORK AREA         237       OFFICE         237A       AUDITORIUM BALCONY         237S-7       STAIR-7         237S-8       STAIR-8         238       LIBRARY WORKROOM	220 220S 221 222A 222A 222B 223 224 225 228 228A 228B 228B 228B 228B 228S 229 229A 229B 229C	STORAGE STAIR-6 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF
232       LIBRARY-MAIN         232A       STORAGE         232B       CLASSROOM STORAGE         235       TEACHER WORK AREA         237       OFFICE         237A       AUDITORIUM BALCONY         237S-7       STAIR-7         237S-8       STAIR-8         238       LIBRARY WORKROOM	220 220S 221 222A 222A 222B 223 224 225 228 228 228 228B 228B 228B 228B 228	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE
232A STOKAGE 232B CLASSROOM STORAGE 235 TEACHER WORK AREA 237 OFFICE 237A AUDITORIUM BALCONY 237S-7 STAIR-7 237S-8 STAIR-8 238 LIBRARY WORKROOM 	220 220S 221 222A 222A 222B 223 224 225 228 228A 228B 228B 228B 228B 228E 228S 229 229A 229A 229B 229C 230 231	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA
235         TEACHER WORK AREA           237         OFFICE           237A         AUDITORIUM BALCONY           237S-7         STAIR-7           237S-8         STAIR-8           238         LIBRARY WORKROOM	220 220S 221 222A 222A 222B 223 224 225 228 228A 228B 228B 228B 228B 228S 229 229A 229B 229A 229B 229C 230 231 232	STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN
233       TEACHER WORK AREA         237       OFFICE         237A       AUDITORIUM BALCONY         237S-7       STAIR-7         237S-8       STAIR-8         238       LIBRARY WORKROOM	220 220S 221 222A 222A 222B 223 224 225 228 228 228 228B 228B 228B 228B 228	LEVEL T BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE
237         OFFICE           237A         AUDITORIUM BALCONY           237S-7         STAIR-7           237S-8         STAIR-8           238         LIBRARY WORKROOM	220 220S 221 222A 222A 222B 223 224 225 228 228 228 228B 228B 228B 228B 228	LEVEL T BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE
237S-7 STAIR-7 237S-8 STAIR-8 238 LIBRARY WORKROOM	220 220S 221 222A 222A 222B 223 224 225 228 228A 228B 228B 228B 228B 228S 229 229A 229B 229A 229B 229A 229B 229C 230 231 232 232A 232B 235 237	LEVEL T BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA
237S-8 STAIR-8 238 LIBRARY WORKROOM	220 220S 221 222A 222A 222B 223 224 225 228 228 228 228B 228B 228B 228B 228	LEVEL T BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA
	220 220S 221 222A 222A 222B 223 224 225 228 228A 228B 228B 228E 228S 229 229A 229A 229B 229A 229B 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7	LEVEL T BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE
	220 220S 221 222A 222A 222A 222B 223 224 225 228 228 228B 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232B 235 237 237S-7 237S-8	ILEVEL T BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8
	220 220S 221 222A 222A 222A 222B 223 224 225 228 228 228B 228B 228E 228S 229 229A 229A 229B 229A 229B 229C 230 231 232 232A 232B 232A 232B 235 237 237S-8 238	LEVEL T BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 225 228 228B 228B 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232B 232A 232B 235 237 237S-7 237S-8 238	LEVEL T BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 225 228 228 228B 228B 228B 228B 228B 229C 230 231 232 232A 232A 232A 232A 232A 232B 235 237 237S-8 238	LEVEL T BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 225 228 228 228B 228E 228S 229 229A 229B 229A 229B 229A 229B 229C 230 231 232 232A 232B 232A 232B 235 237 237S-8 238	LEVEL T BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE LIBRARY WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 225 228 228B 228B 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232A 232B 235 237 237S-7 237S-8 238 238	LEVEL T BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 225 228 228B 228B 228B 228B 228B 229D 229A 229B 229A 229B 229C 230 231 232 232A 232B 232A 232B 235 237 237S-8 238 237S-8 238	LEVEL 1 BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 225 228 228E 228E 228S 229 229A 229A 229B 229A 229B 229C 230 231 232 232A 232B 232A 232B 235 237 237S-8 237S-8 238 237S-8 238	LEVEL 1 BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE LIBRARY MORK AREA OFFICE STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 225 228 228B 228B 228B 228B 229C 230 231 232 232A 232B 232A 232A 232A 232B 235 237 237S-7 237S-8 238 237S-7 237S-8 238	LEVEL 1 BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE LIBRARY MORK AREA OFFICE STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 228 228B 228B 228B 228B 228B 229C 230 231 232 232A 232A 232A 232A 232A 232A 237S-7 237S-8 237S-8 238 0 0 0 0 0 0 0 0 0 0 0 0 0	LEVEL 1 BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE LIBRARY MORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 228 228B 228E 228S 229 229A 229B 229A 229B 229A 229B 229C 230 231 232 232A 232B 232A 232B 235 237 237A 237S-8 237S-8 238 237S-8 238 237S-8 238 237S-8 238 237S-8 238 237S-8 238 237S-8 238 237S-8 238 237S-8 237S-8 237S-8 238 237S-8 238 237S-8 238 237S-8 238 237S-8 237S-8 238 238 237 237S-8 238 238 237 237S-8 238 238 237 237S-8 238 238 237 237S-8 238 238 237 237S-8 238 238 238 237 237S-8 238 238 238 237 237S-8 238 238 238 237 237S-8 238 238 238 237 237S-8 238 238 238 237 237S-8 238 238 238 237 237S-8 238 238 238 238 237 237S-8 238 238 238 238 237 237S-8 238 238 238 237 237S-8 238 238 238 237 237S-8 238 238 238 238 237 237S-8 238 238 238 238 237 237S-8 238 238 238 238 237 237S-8 238 238 238 238 238 238 238 23	LEVEL 1 BIOLOGY LAB STAIR-5 SOCIAL STUDIES OFFICE LEVEL 1 BIOLOGY LAB PREP ROOM STORAGE CLASSROOM COMMUNITY ROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 225 228 228B 228B 228B 228B 229C 230 231 232 232A 232B 232A 232A 232B 235 237 237S-8 237S-8 237S-8 238 0 0 0 0 0 0 0 0 0 0 0 0 0	LEVEL 1 BIOLOGY LAB         STAIR-5         SOCIAL STUDIES OFFICE         LEVEL 1 BIOLOGY LAB         PREP ROOM         STORAGE         CLASSROOM         COMMUNITY ROOM         CLASSROOM         SCIENCE OFFICE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         COLLEGE & CAREER LAB         TEACHER WORK AREA         MDF         STORAGE         TEACHER WORK AREA         OFFICE         LIBRARY-MAIN         STORAGE         TEACHER WORK AREA         OFFICE         AUDITORIUM BALCONY         STAIR-7         STAIR-8         LIBRARY WORKROOM         IBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 228 228B 228B 228B 228B 229C 229A 229A 229B 229A 229B 229C 230 231 232 232A 232B 232A 232B 235 237 237S-8 237S-8 237S-8 238 0 0 0 0 0 0 0 0 0 0 0 0 0	LEVEL 1 BIOLOGY LAB         STAIR-5         SOCIAL STUDIES OFFICE         LEVEL 1 BIOLOGY LAB         PREP ROOM         STORAGE         CLASSROOM         COMMUNITY ROOM         CLASSROOM         SCIENCE OFFICE         STORAGE         TEACHER WORK AREA         MDF         STORAGE         TEACHER WORK AREA         OFFICE         LIBRARY-MAIN         STORAGE         TEACHER WORK AREA         OFFICE         AUDITORIUM BALCONY         STAIR-7         STAIR-8         LIBRARY WORKROOM         IBRARY WORKROOM
	220 220S 221 222A 222A 222B 223 224 225 228 228B 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232B 235 237A 237S-7 237S-8 237S-8 238 0 0 0 0 0 0 0 0 0 0 0 0 0	LEVEL 1 BIOLOGY LAB         STAIR-5         SOCIAL STUDIES OFFICE         LEVEL 1 BIOLOGY LAB         PREP ROOM         STORAGE         CLASSROOM         COMMUNITY ROOM         CLASSROOM         SCIENCE OFFICE         STORAGE         COLLEGE & CAREER LAB         TEACHER WORK AREA         MDF         STORAGE         TEACHER WORK AREA         OFFICE         LIBRARY-MAIN         STORAGE         CLASSROOM STORAGE         TEACHER WORK AREA         OFFICE         AUDITORIUM BALCONY         STAIR-8         LIBRARY WORKROOM         IBRARY WORKROOM         IBRARY WORKROOM         IN         STOIR         IBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 225 228 228B 228B 228B 228C 229D 229A 229B 229A 229B 229C 230 231 232 232A 232B 235 237 237S-8 237S-8 238 0 0 0 0 0 0 0 0 0 0 0 0 0	LEVEL 1 BIOLOGY LAB         STAIR-5         SOCIAL STUDIES OFFICE         LEVEL 1 BIOLOGY LAB         PREP ROOM         STORAGE         CLASSROOM         COMMUNITY ROOM         CLASSROOM         SCIENCE OFFICE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         TEACHER WORK AREA         MDF         STORAGE         TEACHER WORK AREA         OFFICE         LIBRARY-MAIN         STORAGE         CLASSROOM STORAGE         TEACHER WORK AREA         OFFICE         AUDITORIUM BALCONY         STAIR-7         STAIR-8         LIBRARY WORKROOM         GUIDINGINI BALCONY
	220 220S 221 222A 222A 222A 222B 223 224 228 228B 228B 228B 228S 229 229A 229A 229B 229A 229B 229C 230 231 232 232A 232A 232B 235 237 237S-8 237S-8 237S-8 238 0 0 0 0 0 0 0 0 0 0 0 0 0	LEVEL 1 BIOLOGY LAB         STAIR-5         SOCIAL STUDIES OFFICE         LEVEL 1 BIOLOGY LAB         PREP ROOM         STORAGE         CLASSROOM         COMMUNITY ROOM         CLASSROOM         SCIENCE OFFICE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         TEACHER WORK AREA         MDF         STORAGE         TEACHER WORK AREA         OFFICE         LIBRARY-MAIN         STORAGE         CLASSROOM STORAGE         TEACHER WORK AREA         OFFICE         LIBRARY WORKROOM         STAIR-7         STAIR-8         LIBRARY WORKROOM         STAIR-8         LIBRARY WORKROOM
	220 220S 221 222A 222A 222A 222B 223 224 225 228 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232B 235 237A 237S-7 237S-8 238 0 0 0 0 0 0 0 0 0 0 0 0 0	LEVEL 1 BIOLOGY LAB         STAIR-5         SOCIAL STUDIES OFFICE         LEVEL 1 BIOLOGY LAB         PREP ROOM         STORAGE         CLASSROOM         COMMUNITY ROOM         CLASSROOM         SCIENCE OFFICE         STORAGE         IELEVATOR         STAIR-6         COLLEGE & CAREER LAB         TEACHER WORK AREA         OFFICE         LIBRARY-MAIN         STORAGE         CLASSROOM STORAGE         TEACHER WORK AREA         OFFICE         AUDITORIUM BALCONY         STAIR-7         STAIR-8         LIBRARY WORKROOM         I         I         I         I         I         I         I         I         I         I         I         I <t< td=""></t<>

![](_page_55_Figure_1.jpeg)

KEYED NOTES:

- 1 DISCONNECT AND REMOVE EXISTING RADIATOR, INCLUDING ASSOCIATED CONTROLS AND STEAM TRAP TO ACCOMMODATE ARCHITECTURAL AND STRUCTURAL WORK. TEMPORARILY CAP ALL REMAINING PIPING. STORE RADIATOR IN SECURE LOCATION AND RE-INSTALL WHEN ARCHITECTURAL AND STRUCTURAL WORK IS DONE.
- $\langle 2 \rangle$  balance exhaust air.
- 3 DISCONNECT, REMOVE AND DISPOSE OFFSITE EXISTING DUCTWORK BELOW TRACT.

4 PROVIDE NEW DUCTS WITH TOP OF DUCTS INSTALLED BELOW THE WINDOWS. SUSPEND NEW DUCTS FROM THE CEILING AND PROVIDE BRACING FROM THE WALL. SEAL & PRESSURE TEST ALL NEW DUCTS PER ASHRAE 90.1–2016, 6.4.4.2 REQUIREMENT. COORDINATE PAINTING WITH ARCHITECT.

# N.I.C. (TYPICAL)

N.I.C. (TYPICAL)

PUBLIC BUILDING COMMISSION
CORDOGAN, CLARK & ASSOCIATES INC. ARCHITECTS · ENGINEERS www.cordoganclark.com A U R O R A 960 RIDGEWAY AVENUE AURORA, ILLINOIS 60506 TEL 630.898.4678 TEL 630.898.4678 CH I C A G O 716 NORTH WELLS STREET AURORA, ILLINOIS 60504 CHICAGO, ILLINOIS 60504 CHICAGO, ILLINOIS 6054
FIX 630.666.4665 FIX 312.543.4771
PROVIDE AOR/EOR STAMP HERE
LAKE VIEW HIGH SCHOOL 4015 NORTH ASHLAND AVENUE
CHICAGO, ILLINOIS 60613 PROJECT NO. 2016-46211-MCR
REVISIONS           NO.         DATE         DESCRIPTION           -         2016.04.19         30% SUBMITTAL           -         2016.06.14         60% SUBMITTAL
-         2017.02.14         75% SUBMITTAL           -         2017.03.02         100% SUBMITTAL           -         2017.03.07         PERMIT SET           -         2017.03.23         PRELIMINARY_OTB_SET
- 2017.04.04 BID SET 2017.04.12 ADDENDUM #1
DRAWN BY:     P I       SCALE:     1/16"=1'-0"       JOB:
RVING PARK RD.
AREAS OF WORK: ENTIRE BUILDING EXTERIOR, ALL LEVELS AND ROOF
WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINDIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.
SECOND FLOOR MECHANICAL REFERENCE PLAN
DRAWING NO.

![](_page_56_Figure_0.jpeg)

1. ALL DIMENSIONS ARE TO BE VERIFIED IN FIELD.

- DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING GAS-FIRED BURNER INCLUDING ASSOCIATED AIR COMPRESSOR, GAS TRAIN, ALL CONTROLS, ELECTRICAL DEVICES, AND ELECTRICAL CONNECTIONS. EXISTING BOILERS SHALL REMAIN BUT STEAM OPERATING PRESSURE CURRENTLY AT 25 PSI WILL BE REDUCED TO 8 PSI.
- 2 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING BOILER NOZZLE AND REPLACE WITH 12" BOILER NOZZLE. WORK SHALL BE DONE BY UNION BOILER MAKERS, CERTIFIED AND AUTHORIZED BY HARTFORD INSURANCE COMPANY TO WORK ON PRESSURE VESSELS. EXISTING BOILERS ARE 3-PASS DBYBACK SUPERIOR SCOTCH MARINE MODEL 4-5-1758. PROVIDE HYDROSTATIC TEST UPON COMPLETION OF BOILER MODIFICATION.
- 3 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING STEAM HEADER INCLUDING ASSOCIATED STEAM TRAPS, VALVES, ACCESSORIES, AND INSULATION.
- 4 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING BOILER TRIMS INCLUDING PUMP CONTROLLER, LOW AND HIGH WATER-LEVEL CUT OFF DEVICES, ASSOCIATED PIPING, CONTROL WIRING TO FIELD-MOUNTED ELECTRICAL DEVICES.
- 5 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING BOILER PRESSURE SAFETY VALVES, INCLUDING ASSOCIATED PIPING.
- 6 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING BOILER SHEET METAL JACKET AND INSULATION. EXISTING BOILERS ARE 3-PASS DRYBACK SUPERIOR SCOTCH MARINE MODEL 4-5-1758.
- $\overline{7}$  EXISTING ISOLATION VALVE ON STEAM HEADER SHALL REMAIN. REPACK GLAND PACKING. VI.F. EXACT VALVE SIZES.
- 8 CLEAN BOILER TUBES, PRESSURE TEST THE TUBES AFTER CLEANING. REPLACE MINIMUM OF 6 TUBES PER BOILER. SEE NOTE4.
- 9 CLEAN EXISTING DAMPERS, LUBRICATE SHAFTS AND LINKAGES, ADJUST LINKAGES AND DAMPER BLADES. ALL DAMPERS SHALL BE EXERCISE TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSE POSITION.
- 10 REFURBISH EXISTING BASE-MOUNTED END SUCTION, CLOSED-COUPLED BOILER FEEDWATER PUMPS BY REPLACEMENT OF SEALS (ADJUST PUMP DISCHARGE PRESSURE FOR LOW-PRESSURE (8 PSI) BOILER h

![](_page_56_Picture_16.jpeg)

![](_page_57_Figure_0.jpeg)

![](_page_57_Picture_1.jpeg)

![](_page_57_Figure_2.jpeg)

(43)

\_\_\_\_

[E]<u>AHU-2</u>

FAN #2

3 13

(10)(11)

[E]8"STEAM

(1)

4 [R]PREHEAT & REHEAT COILS INCL STEAM & CONDENSATE PIPING

![](_page_57_Figure_4.jpeg)

![](_page_57_Figure_6.jpeg)

![](_page_57_Picture_7.jpeg)

2 FAN ROOM 2 - MECHANICAL DEMOLITION PLAN

3 [R]PREHEAT & REHEAT COILS INCL STEAM & CONDENSATE PIPING

![](_page_57_Picture_10.jpeg)

5 [R]PREHEAT & REHEAT COILS INCL STEAM & CONDENSATE PIPING

#### GENERAL NOTES: 1. ALL DIMENSIONS ARE TO BE VERIFIED IN FIELD. KEYED NOTES: DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING STEAM PRESSURE REDUCING VALVE, INCLUDING ALL ASSOCIATED PIPES, FITTINGS, AND ACCESSORIES. 2 CLEAN EXISTING MOTOR & BELT GUARD OF DIRT & GRIMES. OIL & GREASE MOTOR PER MANUFACTURER'S RECOMMENDED PROCEDURES. 3 STEAM CLEAN AND DEGREASE EXISTING FAN SCROLL, FAN BLADES, AND SHAFT. DEGREASE THE FAN BEARINGS, RE-GREASE, AND REPACK. STATICALLY AND DYNAMICALLY BALANCE FAN, TEST FOR VIBRATION BEFORE AND AFTER REFURBISHMENT OF FAN(S). SUBMIT RESULTS TO AOR. $\langle 4 \rangle$ pressure wash all existing preheat steam coils and reheat steam coils. (4A) ISOLATE & HYROSTATICALLY PRESSURE TEST PREHEAT AND REHEAT COILS, AND SUBMIT RESULTS TO AOR. DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING PREHEAT AND REHEAT STEAM COILS THAT FAIL TEST, INCLUDING ASSOCIATED STEAM & CONDENSATE PIPING (FROM PRV TO CONDENSATE PUMP), VALVES, > CONTROL VALVES, STEAM TRAPS, AND ACTUATORS. REUSE EXISTING COIL SUPPORTS. PRESSURE WASH COILS PASS TEST. INCLUDE REPLACEMENT OF ABOUT 30 SF. SHEET METAL & INSULATION PER COIL. SHEET METAL SHALL BE THE SAME GAUGE AS EXISTING. 5 STEAM CLEAN AND DEGREASE EXISTING OUTSIDE AIR DAMPERS AND REPAIR AS REQUIRED. LUBRICATE EXERCISE DAMPERS TO OPERATE FROM FULL OPEN TO FULL CLOSE POSITIONS CORDOGAN, CLARK & ASSOCIATES IN ARCHITECTS · ENGINEERS WITHOUT ANY BINDING. www.cordoganclark.com 5A DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING OUTSIDE AIR DAMPERS INCLUDING ASSOCIATED ACTUATORS. A U R O R A 960 RIDGEWAY AVENUE AURORA, ILLINOIS 60506 TEL 630.896.4678 FAX 630.896.4987 C H I C A G O 716 NORTH WELLS STREET CHICAGO, ILLINOIS 60654 TEL 312.943.7300 FAX 312.943.4771 $\underbrace{6}_{\text{LINKAGES. E'RED}}^{\text{STEAM CLEAN AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND REPAIR AS REQUIRED. REPAIR AS REQUIRED. LUBRICATE SHAFTS AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND REPAIR AS REQUIRED. RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND REPAIR AS REQUIRED. RETURN REPAIR AS REQUIRED. RETURN REPAIR AS REQUIRED. RETURN RETURN REPAIR AS REQUIRED. RETURN RETU$ INGH XERCISE DAMPERS TO OPERATE FROM FULL OPEN TO FULL CLOSE POSITIONS WITHOUT ANY BINDING. T STEAM CLEAN AND DEGREASE EXISTING BYPASS DAMPERS AND REPAIR AS REQUIRED. TEST EXISTING ACTUATORS. LUBRICATE SHAFTS AND LINKAGES. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSE POSITION. IF NOT WORKING, DISCONNECT, REMOVE, DISPOSE OFFSITE, AND SINGH + ASSOCIATES, INC. REPLACE. CONSULTING ENGINEERS TA DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING BYPASS DAMPERS UNDER REHEAT COIL INCLUDING ASSOCIATED ACTUATOR. CAP ALL PNEUMATIC LINES. PROVIDE AOR/EOR STAMP HERE DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING BYPASS DAMPERS UNDER PREHEAT COIL INCLUDING ASSOCIATED ACTUATOR. 8 STEAM CLEAN AND DEGREASE EXISTING RELIEF DAMPERS AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND LINKAGES. ENSURE THAT ACTUATOR IS WORKING PROPERLY AND EXERCISE DAMPERS TO FULLY OPEN AND CLOSE POSITIONS WITHOUT ANY PINIPING CLOSE POSITIONS WITHOUT ANY BINDING. 9 STEAM CLEAN AND DEGREASE EXISTING CEILING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND LINKAGES. EXERCISE DAMPERS TO OPERATE FROM FULL OPEN TO FULL CLOSE POSITIONS WITHOUT ANY BINDING. TO STEAM CLEAN AND DEGREASE EXISTING ZONE DAMPERS. LUBRICATE SHAFTS AND LINKAGES. EXERCISE DAMPERS TO OPERATE FROM FULL OPEN TO FULL CLOSE POSITIONS WITHOUT ANY BINDING. lake view $\langle 11 \rangle$ disconnect, remove, and dispose offsite existing air filters. HIGH SCHOOL (1) DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING AIR FILTERS INCLUDING EXISTING FILTER RACK. 4015 NORTH ASHLAND AVENUE CHICAGO, ILLINOIS 60613 DISCONNECT AND REMOVE OFFSITE EXISTING FREEZE-STATS, SMOKE DETECTORS AND AVERAGING THERMOSTATS IN EACH SIDE OF THE PLENUMS. PROJECT NO. 2016-46211-MCR TEST FOR SYSTEM AIRFLOW, STATIC PRESSURE, AND VIBRATION AT ALL MOTOR SPEEDS BEFORE START OF PROJECT. PROVIDE TEST REPORT TO AOR. REVISIONS CLEAN EXISTING AIR PLENUMS. SCRAPE/REPAIR ALL PLASTER PLENUM. SEAL ALL PENETRATIONS, GAPS, AND VOIDS WITH CAULKING COMPOUNDS. REPAIR DAMAGED WALL AND PLASTER. COORDINATE WITH NO. DATE DESCRIPTION 2016.04.19 30% SUBMITTAL ARCHITECTURAL DRAWINGS. PERFORM BLOWER DOOR TEST ON PLENUMS AND SUBMIT RESULTS TO AOR. 2016.06.14 60% SUBMITTAL (15) REMOVE DEBRIS FROM THE BOTTOM OF THE DOUBLE DELIVERY FAN. REPAIR FAN CASING USING THE SAME MATERIAL AND GAUGES AS THE EXISTING FAN. 2017.02.14 75% SUBMITTAL 2017.03.02 100% SUBMITTAL REMOVE INSULATION AND PROVIDE NEW INSULATION ON EXISTING STEAM AND CONDENSATE LINES OUTSIDE OF THE MECHANICAL ROOM. PROVIDE ALLOWANCE TO RE-INSULATE 150 FEET OF 3" (AVERAGED SIZE) OF 2017.03.07 PERMIT SET

17 disconnect, remove, and dispose offsite existing end-of-drip trap & Air vent, and replace with new.

EXISTING STEAM AND CONDENSATE LINES.

PRELIMINARY OTB SET

- AHU-2

KEY PLAN

ΔHU\_1-

BID SET

1/8"=1'-0"

MD2.2

AHU-3 7

ASHLAND AV

WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY

BE PRESENT IN THIS BUILDING. A

AVAILABLE IN THE SCHOOL FOR

RE∨IEW UPON REQUEST, NO PERSON

MAY DISTURB ASBESTOS-CONTAINING

A LICENSED ASBESTOS WORKER OF

ACCORDANCE WITH SPECIFICATION(S CONTAINED IN THE PROJEC DOCUMENTS AND IN COMPLIANC WITH ILLINDIS DEPARTMENT O

HEALTH RULES AND REGULATIONS.

BASEMENT ENLARGED

MECHANICAL

DEMOLITION PLANS

DRAWING NO.

MD2.2

MATERIALS UNLESS THAT PERSON

CONDUCTS SUCH WORK

ASBESTOS MANAGEMENT PLAN

WORK: ENTIRE BUILDING EXTERIOR, ALL LEVELS

ADDENDUM #1

2017.03.23

2017.04.04

2017.04.12

FT

 $\Lambda$ 

SCALE:

FILE:

DRAWN BY:

AREAS OF

AND ROOF

![](_page_58_Picture_0.jpeg)

![](_page_58_Figure_1.jpeg)

7 [R]PREHEAT & REHEAT COILS INCL STEAM & CONDENSATE PIPING

![](_page_58_Figure_3.jpeg)

5 012 FAN ROOMS -5&6 MECHANICAL DEMOLITION PLAN

![](_page_58_Picture_5.jpeg)

![](_page_58_Picture_7.jpeg)

<u>[R]PREHEAT & REHEAT COILS INCL STEAM & CONDENSATE PIPING</u>

![](_page_58_Picture_12.jpeg)

10 RPREHEAT & REHEAT COILS INCL STEAM & CONDENSATE PIPING

### GENERAL NOTES:

1. ALL DIMENSIONS ARE TO BE VERIFIED IN FIELD.

- 1 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING STEAM PRESSURE REDUCING VALVE, INCLUDING ALL ASSOCIATED PIPES, FITTINGS, AND ACCESSORIES.
- 2 CLEAN EXISTING MOTOR & BELT GUARD OF DIRT & GRIMES. OIL & GREASE MOTOR PER MANUFACTURER'S RECOMMENDED PROCEDURES.
- 3 STEAM CLEAN AND DEGREASE EXISTING FAN SCROLL, FAN BLADES, AND SHAFT. DEGREASE THE FAN BEARINGS, RE-GREASE, AND REPACK. STATICALLY AND DYNAMICALLY BALANCE FAN, TEST FOR VIBRATION BEFORE AND AFTER REFURBISHMENT OF FAN(S). SUBMIT RESULTS TO AOR.
- $\langle 4 \rangle$  pressure wash all existing preheat steam coils and reheat steam coils.
- $\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim\!\!\sim$ (4A) ISOLATE & HYRAULICALLY PRESSURE TEST PREHEAT AND REHEAT COILS, AND SUBMIT RESULTS TO AOR. DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING PREHEAT AND REHEAT STEAM COILS THAT FAIL TEST, INCLUDING ASSOCIATED STEAM & CONDENSATE PIPING (FROM PRV TO CONDENSATE PUMP), VALVES, CONTROL VALVES, STEAM TRAPS, AND ACTUATORS. REUSE EXISTING COIL SUPPORTS. PRESSURE WASH COILS THAT PASS TEST. INCLUDE REPLACEMENT OF ABOUT 30 SF. SHEET METAL & INSULATION PER COIL. SHEET METAL SHALL BE THE SAME GAUGE AS EXISTING.
- $\chi$  steam clean and degrease existing outside air dampers and repair as required. Lubricate 5 SHAFTS AND LINKAGES. EXERCISE DAMPERS TO OPERATE FROM FULL OPEN TO FULL CLOSE POSITIONS WITHOUT ANY BINDING.
- 5A DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING OUTSIDE AIR DAMPERS INCLUDING ASSOCIATED ACTUATORS.
- 6 STEAM CLEAN AND DEGREASE EXISTING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND LINKAGES. EXERCISE DAMPERS TO OPERATE FROM FULL OPEN TO FULL CLOSE POSITIONS WITHOUT ANY BINDING.
- T STEAM CLEAN AND DEGREASE EXISTING BYPASS DAMPERS AND REPAIR AS REQUIRED. TEST EXISTING ACTUATORS. LUBRICATE SHAFTS AND LINKAGES. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSE POSITION. IF NOT WORKING, DISCONNECT, REMOVE, DISPOSE OFFSITE, AND REPLACE.
- TA DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING BYPASS DAMPERS UNDER REHEAT COIL INCLUDING ASSOCIATED ACTUATOR. CAP ALL PNEUMATIC LINES.
- TB DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING BYPASS DAMPERS UNDER PREHEAT COIL INCLUDING ASSOCIATED ACTUATOR.
- 8 STEAM CLEAN AND DEGREASE EXISTING RELIEF DAMPERS AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND LINKAGES. ENSURE THAT ACTUATOR IS WORKING PROPERLY AND EXERCISE DAMPERS TO FULLY OPEN AND CLOSE POSITIONS WITHOUT ANY BINDING.
- 9 STEAM CLEAN AND DEGREASE EXISTING CEILING RETURN DAMPER AND REPAIR AS REQUIRED. LUBRICATE SHAFTS AND LINKAGES. EXERCISE DAMPERS TO OPERATE FROM FULL OPEN TO FULL CLOSE POSITIONS WITHOUT ANY BINDING.
- TO STEAM CLEAN AND DEGREASE EXISTING ZONE DAMPERS. LUBRICATE SHAFTS AND LINKAGES. EXERCISE DAMPERS TO OPERATE FROM FULL OPEN TO FULL CLOSE POSITIONS WITHOUT ANY BINDING.
- (11) DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING AIR FILTERS.
- (1A) DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING AIR FILTERS INCLUDING EXISTING FILTER RACK.
- DISCONNECT AND REMOVE OFFSITE EXISTING FREEZE-STATS, SMOKE DETECTORS AND AVERAGING THERMOSTATS IN EACH SIDE OF THE PLENUMS.
- TEST FOR SYSTEM AIRFLOW, STATIC PRESSURE, AND VIBRATION AT ALL MOTOR SPEEDS BEFORE START OF PROJECT. PROVIDE TEST REPORT TO AOR.
- (14) CLEAN EXISTING AIR PLENUMS. SCRAPE/REPAIR ALL PLASTER PLENUM. SEAL ALL PENETRATIONS, GAPS, AND VOIDS WITH CAULKING COMPOUNDS. REPAIR DAMAGED WALL AND PLASTER. COORDINATE WITH ARCHITECTURAL DRAWINGS. PERFORM BLOWER DOOR TEST ON PLENUMS AND SUBMIT RESULTS TO AOR.
- 15 REMOVE DEBRIS FROM THE BOTTOM OF THE DOUBLE DELIVERY FAN. REPAIR FAN CASING USING THE
- (16) REMOVE INSULATION AND PROVIDE NEW INSULATION ON EXISTING STEAM AND CONDENSATE LINES OUTSIDE OF THE MECHANICAL ROOM. PROVIDE ALLOWANCE TO RE-INSULATE 150 FEET OF 3" (AVERAGED SIZE) OF EXISTING STEAM AND CONDENSATE LINES.
- TT DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING END-OF-DRIP TRAP & AIR VENT, AND REPLACE WITH NEW.

![](_page_58_Picture_39.jpeg)

![](_page_59_Figure_0.jpeg)

1. ALL DIMENSIONS ARE TO BE VERIFIED IN FIELD. 2. REFER TO MD2.1 FOR ALL EQUIPMENT-REFURBISHMENT WORK.

- 1 PROVIDE NEW 350-BHP GAS-FIRED BURNER INCLUDING ASSOCIATED GAS TRAIN, ALL CONTROLS, ELECTRICAL DEVICES, AND ELECTRICAL CONNECTIONS. (TYPICAL FOR 2 BOILERS). CONNECT NEW GAS TRAIN TO GAS PIPES FROM EXISTING GAS BOOSTER. NEW BOILERS SHALL OPERATE AT 8 PSI. PROVIDE NEW HEAT-TIMER BOILER CONTROLLERS. SEE M4.2.
- 2 PROVIDE NEW STEAM PIPING FROM BUILER OUTLETS INCLUDING THE STEAM HEADER TO EXISTING DISTRIBUTION LINE SHUT-OFF VALVES, PROVIDE STEAM HEADER WITH 8"Ø DRIP LEGS, STEAM TRAPS, INSULATION, AND (TANK.  $\sim$
- PROVIDE NEW BOILER TRIMS INCLUDING PUMP CONTROLLER, LOW AND HIGH WATER-LEVEL CUT OFF DEVICES, GASKETS, AND ASSOCIATED PIPING,  $\langle 3 \rangle$ CONTROL WIRING TO FIELD-MOUNTED ELECTRICAL DEVICES. (TYPICAL FOR 2 BOILERS).
- 4 PROVIDE NEW BOILER PRESSURE SAFETY VALVES FOR EACH BOILER AND RUN NEW PIPING (FULL SIZE) TO DRAIN. (TYPICAL FOR 2 BOILERS).
- 5 provide new boiler sheet metal jacket and insulation. (Typical for 2 boilers).
- 6 RUN NEW WIRING FROM EMERGENCY SHUT-OFF SWITCHES TO NEW BOILERS. PROVIDE NEW CEILING-MOUNTED HEAT DETECTORS AND WIRE TO NEW CONTROL CIRCUITS TO BOILERS.
- 7 PROVIDE CARBON MONOXIDE DETECTOR. NIGHTHAWK MODEL 5U747 OR APPROVED EQUAL, 120V AC PLUG-IN TYPE WITH 9V DC BATTERY BACKUP.
- 8 PROVIDE NEW BASE-MOUNTED, END SUCTION, CLOSED-COUPLED FEEDWATER PUMP IN PARALLEL WITH EXISTING PUMPS, INCLUDING ALL ASSOCIATED PIPES, FITTINGS, AND ACCESSORIES, AND CONTROL PANEL. PUMP AND VALVES SHALL BE OPERATED MANUALLY.
- 9 EXISTING COMBUSTION AIR DAMPER SHALL BE CLEANED AND DEGREASED. BLADES AND LINKAGES SHALL BE LUBRICATED AND ADJUSTED. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSE, RE-CONNECT ACTUATOR TO BOILER CONTROLS.  $\overline{}$

![](_page_59_Picture_15.jpeg)

![](_page_60_Figure_0.jpeg)

—(F)

ALL DIMENSIONS ARE TO BE VERIFIED IN FIELD.
 REFER TO MD2.2 AND MD2.3 FOR ALL EQUIPMENT-REFURBISHMENT WORK.

- 1 PROVIDE NEW STEAM LINE TO RECONNECT THE EXISTING STEAM LINES DUE TO REMOVED STEAM PRESSURE REDUCING VALVE. PROVIDE ALL ASSOCIATED PIPES, FITTINGS, ACCESSORIES, AND INSULATION.
- PROVIDE NEW NON-FREEZE PREHEAT STEAM COILS AND REHEAT STEAM COILS, INCLUDING, ALL ASSOCIATED STEAM AND CONDENSATE PIPES (TO EXISTING CONDENSATE PUMP), FITTINGS, VALVES, TRAPS, ACCESSORIES, CONTROLS, (PNEUMATIC MOUDLATING) CONTROL VALVES, HANGERS, AND SUPPORTS. RECONFIGURE STEAM AND CONDENSATE LINES AND TRAPS AS REQUIRED FROM REMOVED PRV TO EXISTING CONDENSATE PUMP. ALL COILS SHALL BE OF COPPER TUBE AND ALUMINUM FIN TYPE, AND CONTROL VALVES SHALL BE OF MODULATING, NORMALLY-OPEN TYPE, PNEUMATIC ACTUATORS (WITH TRANSDUCERS). CONNECT TO BAS. REUSE EXISTING COIL SUPPORT.
- 3 provide new outdoor air damper, including all associated damper actuators.
- 4 PROVIDE NEW BYPASS DAMPERS INCLUDING ASSOCIATED DAMPER ACTUATORS. CONNECT TO EXISTING CONTROLS.
- $\left< 5 \right>$  provide NeW 2 inch thick air filters.
- 5A PROVIDE NEW FILTER RACK FOR 2 INCH THICK AIR FILTERS. NEW RACK SHALL BE FLOOR-MOUNTED LOCATED UPSTREAM OF FAN(S).
- 6 REPLACE BOTTOM 12" OF AHU CASING WITH SAME THICKNESS METAL AS EXISTING CASING.
- TEST AND BALANCE AIR HANDLING UNIT AFTER INSTALLATION OF NEW COILS
- 8 PROVIDE NEW FREEZE-STATS HARDWIRED TO SHUT OFF AHU FAN AND CLOSE OA DAMPERS WHEN MIXED AIR TEMPERATURE DROPS TO 35°F (ADJ.). PROVIDE SMOKE DETECTORS IN EACH SUPPLY PLENUM HARDWIRED TO SHUT OFF AHU FAN AND SEND SIGNAL TO FIRE ALARM PANEL. COORDINATE WITH
- PROVIDE NEW EXHAUST FAN ON WINDOW. FAN SHALL BE CONTROLLED BY A COOLING-TYPE THERMOSTAT AND INTERLOCKED WITH A DAMPER AT LOWER HALF OF CORRIDOR DOOR. DAMPER SHALL BE INSTALLED DOWNSTREAM OF DOOR GRILLE EQUIPPED WITH INTEGRAL FIRE DAMPER.

![](_page_60_Picture_17.jpeg)

1. ALL DIMENSIONS ARE TO BE VERIFIED IN FIELD.

KEYED NEW WORK NOTES:

- 1 PROVIDE NEW WALL-MOUNTED EXHAUST FAN WITH GRAVITY DAMPER. ENLARGE EXISTING OPENING TO ACCOMMODATE NEW FAN AND PROVIDE NEW STAINLESS LINTEL AS REQUIRED. PROVIDE ALL FLASHINGS, WEEPS, AND REBUILT BRICK MASONRY AS REQUIRED.
- $\langle 2 \rangle$  provide new steam radiator temperature control valve, including associated isolation valve and unions on the radiator.

![](_page_61_Figure_5.jpeg)

![](_page_61_Figure_7.jpeg)

 $\langle 1R \rangle$  disconnect, remove, and dispose offsite existing exhaust fan including gravity damper. R DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING ELECTRIC WALL-MOUNTED UNIT HEATER.

![](_page_61_Picture_11.jpeg)

Project I	Information	
Energy Coo	de: 2015 IECC	
Project Title Location:	e: Lake View High School Chicago, Illinois	
Climate Zoi Project Typ	ne: 5a be: Alteration	
Constructic 4015 N.	on Site: Owner/Agent: Designer/Contracto Ashland Avenue Chicago Public Schools	or:
Mechani	ical Systems List	
Quantity 1	System Type & Description HVAC System 1 (Multiple-Zone): Heating: 1 each - Hydronic or Steam Coil, Steam, Capacity = 969 kBtu/h No minimum efficiency requirement applies	
	Fan System: HVAC SYSTEM 1   Classrooms Compliance (Motor nameplate HP method) : Passes	
1	<ul> <li>FAN 1 Supply, Constant Volume, 12420 CFM, 10.0 motor nameplate hp, 93.0 fan efficiency</li> <li>HVAC System 2 (Single Zone):</li> <li>Heating: 1 each - Hydronic or Steam Coil, Steam, Capacity = 1047 kBtu/h</li> <li>No minimum efficiency requirement applies</li> </ul>	
	Fan System: HVAC SYSTEM 2   Auditorium Compliance (Motor nameplate HP method) : Passes Fans: FAN 2 Supply, Constant Volume, 13200 CFM, 20.0 motor nameplate hp, 93.0 fan efficiency FAN 3 Supply, Constant Volume, 33250 CFM, 20.0 motor nameplate hp, 93.0 fan efficiency	
1	HVAC System 3 (Multiple-Zone): Heating: 1 each - Hydronic or Steam Coil, Steam, Capacity = 2935 kBtu/h No minimum efficiency requirement applies Fan System: HVAC SYSTEM 3   Classrooms Compliance (Motor nameplate HP method) : Passes	
1	Fans: FAN 3 Supply, Constant Volume, 33250 CFM, 20.0 motor nameplate hp, 93.0 fan efficiency HVAC System 4 (Multiple-Zone):	
	Heating: 1 each - Hydronic or Steam Coil, Steam, Capacity = 3615 kBtu/h No minimum efficiency requirement applies Fan System: HVAC SYSTEM 4   Classrooms Compliance (Motor nameplate HP method) : Passes	
1	FAN 4 Supply, Constant Volume, 40350 CFM, 20.0 motor nameplate hp, 93.0 fan efficiency HVAC System 5 (Multiple-Zone): Heating: 1 each - Hydronic or Steam Coil, Steam, Capacity = 1562 kBtu/h	
	No minimum efficiency requirement applies Fan System: HVAC SYSTEM 5   Classrroms Compliance (Motor nameplate HP method) : Passes Fans:	
1	HAN 5 Supply, Constant Volume, 19500 CFM, 7.5 motor nameplate np, 91.7 fan efficiency HVAC System 6 (Multiple-Zone):	
Data filen	tle: Lake View High School ame: J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0331	1.c
Quant	tle: Lake View High School ame: J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0331 tity System Type & Description No minimum efficiency requirement applies Fan System: HVAC SYSTEM 5   Classrroms Compliance (Motor nameplate HP method) : Passes	1.c
Quant	<ul> <li>Lake View High School</li> <li>ame: J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0331</li> <li>ity System Type &amp; Description No minimum efficiency requirement applies Fan System: HVAC SYSTEM 5   Classrroms Compliance (Motor nameplate HP method) : Passes</li> <li>Fans: FAN 5 Supply, Constant Volume, 19500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency</li> <li>HVAC System 7 (Multiple-Zone): Heating: 1 each- Hydronic or Steam Coil, Steam, Capacity = 1916 kBtu/h No minimum efficiency requirement applies</li> </ul>	1.c
Quant	<ul> <li>Lake View High School</li> <li>ame: J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0331</li> <li>J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0331</li> <li>No minimum efficiency requirement applies</li> <li>Fan System: HVAC SYSTEM 5   Classrroms Compliance (Motor nameplate HP method) : Passes</li> <li>Fans:</li> <li>FAN 5 Supply. Constant Volume, 19500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency</li> <li>HVAC System 7 (Multiple-Zone):</li> <li>Heating: 1 each-Hydronic or Steam Coill, Steam, Capacity = 1916 kBtu/h No minimum efficiency requirement applies</li> <li>Fan System: HVAC SYSTEM 7   Classrooms Compliance (Motor nameplate HP method) : Passes</li> </ul>	1.c
Quant 1	<ul> <li>Lake View High School ame: J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0331</li> <li>J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0331</li> <li>No minimum efficiency requirement applies Fan System: HVAC SYSTEM 5   Classrroms Compliance (Motor nameplate HP method) : Passes</li> <li>Fans: FAN 5 Supply, Constant Volume, 19500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency</li> <li>HVAC System 7 (Multiple-Zone): Heating: 1 each - Hydronic or Steam Coll, Steam, Capacity = 1916 kBtu/h No minimum efficiency requirement applies Fan System: HVAC SYSTEM 7   Classrooms Compliance (Motor nameplate HP method) : Passes</li> <li>FAN 5 Supply, Constant Volume, 24360 CFM, 20.0 motor nameplate hp, 93.0 fan efficiency</li> <li>Plant 1: Heating: Desen Dellar Operation 2000 LDt/h, Compliance</li> </ul>	1.c
Quant 1	tle: Lake View High School ame: J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0331 iity System Type & Description No minimum efficiency requirement applies Fan System: HVAC SYSTEM 5 [ Classrroms Compliance (Motor nameplate HP method) : Passes Fans: FAN 5 Supply, Constant Volume, 19500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency HVAC System 7 (Multiple-Zone): Heating: 1 each Hydronic or Steam Coil, Steam, Capacity = 1916 kBtu/h No minimum efficiency requirement applies Fan System: HVAC SYSTEM 7 [ Classrooms Compliance (Motor nameplate HP method) : Passes Fans: FAN 7 Supply, Constant Volume, 24360 CFM, 20.0 motor nameplate HP method) : Passes Fans: FAN 7 Supply, Constant Volume, 24360 CFM, 20.0 motor nameplate hp, 93.0 fan efficiency Plant 1: Heating: Steam Boller, Capacity 23622 kBtu/h, Gas Proposed Efficiency: 82.00 % Ec, Required Efficiency: 79.00 % Ec	1.c
Quant Quant 1 Mecha Compli plans, design reguire	<ul> <li>Lake View High School</li> <li>ame: J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0331</li> <li>iiiy System Type &amp; Description No minimum efficiency requirement applies Fan System: HVAC SYSTEM 5   Classrroms Compliance (Motor nameplate HP method) : Passes Fans: FAN 5 Supply, Constant Volume, 19500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency HVAC System 7 (Multiple-Zone): Heating: 1 each Hydronic or Steam Coil, Steam, Capacity = 1916 kBtu/h No minimum efficiency requirement applies Fan System: HVAC SYSTEM 7   Classrooms Compliance (Motor nameplate HP method) : Passes Fans: FAN 5 Supply, Constant Volume, 19500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency HVAC System 7 (Multiple-Zone): Heating: 1 each Hydronic or Steam Coil, Steam, Capacity = 1916 kBtu/h No minimum efficiency requirement applies Fan System: HVAC SYSTEM 7   Classrooms Compliance (Motor nameplate HP method) : Passes Fans: FAN 7 Supply, Constant Volume, 24360 CFM, 20.0 motor nameplate hp, 93.0 fan efficiency Plant 1: Heating: Steam Boiler, Capacity 23622 kBtu/h, Gas Proposed Efficiency: 82.00 % Ec, Required Efficiency: 79.00 % Ec anical Compliance Statement <i>iance Statement:</i> The proposed mechanical alteration project represented in this document is consist specifications, and other calculations submitted with this permit application. The proposed mechanical for CMcheck Version 4.0.5.5 and to comply with any application</li></ul>	1.c
Quant Quant 1 Mecha Compli plans, design require Name	tle: Lake View High School ame: J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0331 ity System Type & Description No minimum efficiency requirement applies Fan System: HVAC SYSTEM 5   Classrooms – Compliance (Motor nameplate HP method) : Passes Fans: FAN 5 Supply, Constant Volume, 19500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency HVAC System 7 (Multiple-Zone): Heating: 1 each – Hydronic or Steam Colil, Steam, Capacity = 1916 kBtu/h No minimum efficiency requirement applies Fan System: HVAC SYSTEM 7   Classrooms – Compliance (Motor nameplate HP method) : Passes Fans: FAN 7 Supply, Constant Volume, 24360 CFM, 20.0 motor nameplate hp, 93.0 fan efficiency Plant 1: Heating: Steam Boiler, Capacity 23622 kBtu/h, Gas Proposed Efficiency: 82.00 % Ec, Required Efficiency: 79.00 % Ec anical Compliance Statement Iance Statement: The proposed mechanical alteration project represented in this document is consis specifications, and other calculations submitted with this permit application. The proposed mechanical ed to meet the 2015 IECC requirements in COM/heck Version 4.0.5.5 and to comply with any applica- ments listed in the Inspection Checklist.	1.cc
Quant Quant 1 Mecha Compli plans, s design require Name	<ul> <li>Lake View High School ame: J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0331</li> <li>Ity System Type &amp; Description No minimum efficiency requirement applies Fan System: HVAC SYSTEM 5   Classrroms – Compliance (Motor nameplate HP method) : Passes</li> <li>Fans: FAN 5 Supply, Constant Volume, 19500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency HVAC System 7 (Multiple-Zone): Heating: 1 each Hydronic or Steam Coll, Steam, Capacity = 1916 kBtu/h No minimum efficiency requirement applies Fan System: HVAC SYSTEM 7   Classrooms – Compliance (Motor nameplate HP method) : Passes</li> <li>Fans: FAN 7 Supply, Constant Volume, 24360 CFM, 20.0 motor nameplate HP, 93.0 fan efficiency Plant 1: Heating: Steam Boiler; Capacity 23622 kBtu/h, Gas Proposed Efficiency: 82.00 % Ec, Required Efficiency: 79.00 % Ec</li> <li>anical Compliance Statement Iance Statement: The proposed mechanical alteration project represented in this document is consist specifications, and other calculations submitted with this permit application. The proposed mechanical ispecifications, and other calculations submitted with this permit application. The proposed mechanical ispecifications, and other calculations submitted with this permit application. The proposed mechanical ispecifications, and other calculations submitted with this permit application. The proposed mechanical ispecifications, and other calculations submitted with this permit application. The proposed mechanical ispecifications, and other calculations submitted with this permit application. The proposed mechanical ispecifications, and other calculations submitted with this permit application. The proposed mechanical ispecifications, and other calculations submitted with this permit application. The proposed mechanical ispecifications, and other calculations submitted with this permit application. The proposed mechanical ispecifications and other calculations submitted with this permit application. The proposed mechanical ispecifications and ot</li></ul>	l.cc
Quant Quant 1 Mecha Compil plans, design require Fe Name	tie: Lake View High School ame: J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0331 No minimum efficiency requirement applies Fan System: HVAC SYSTEM 5 [Classrooms – Compliance (Motor nameplate HP method) : Passes Fans: FAN 5 Supply, Constant Volume, 19500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency HVAC System 7 (Multiple-Zone): Heating: 1 each - Hydronic or Steam Colil, Steam, Capacity = 1916 kBtu/h No minimum efficiency requirement applies Fan System: HVAC SYSTEM 7 [Classrooms – Compliance (Motor nameplate HP method) : Passes Fans: FAN 7 Supply, Constant Volume, 24360 CFM, 20.0 motor nameplate hp, 93.0 fan efficiency Plant 1: Heating: Steam Boller, Capacity 23622 kBtu/h, Gas Proposed Efficiency: 82.00 % Ec, Required Efficiency: 79.00 % Ec anical Compliance Statement Iance Statement: Intel 2015 IECC requirements in COM/heck Version 4.05.5 and to comply with any applic erments listed in the Inspection CheckIst. TAX ANDE Tex GSY, MECH.ENGK	iste
Quant Quant 1 Mecha Compli plans, design require Ko Name	<ul> <li>Lake View High School ame: J:\16026\Design\Calculations\Mechanical\CPS Lake View HS Comcheck_Mech 2017-0333</li> <li>iiy System Type &amp; Description No minimum efficiency requirement applies Fan System: HVAC SYSTEM 51 Classroms – Compliance (Motor nameplate HP method) : Passes. Fans: FAN 5 Supply, Constant Volume, 19500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency HVAC System 7 (Multiple-Zone): Heating: 1 each – Hydronic or Steam Coli, Steam, Capacity = 1916 kBtu/h No minimum efficiency requirement applies Fan System: HVAC SYSTEM 71 (Classrooms – Compliance (Motor nameplate HP method) : Passes Fans: FAN 7 Supply, Constant Volume, 24360 CFM, 20.0 motor nameplate hp, 93.0 fan efficiency Plant 1: Heating: Steam Boiler, Capacity 23622 kBtu/h, Gas Proposed Efficiency: 82.00 % Ec, Required Efficiency: 79.00 % Ec</li> </ul>	iste
Quant Quant 1 Mecha Compli plans, design require Ka	te: Lake View High School ame: J:16026\Design\Calculations\Mechanica\\CPS Lake View H5 Comcheck_Mech 2017-0333 No minimum efficiency requirement applies Fan System: TWAC SYSTEM 5]:Classroms – Compliance (Motor nameplate HP method) : Passes. Fans: FAN 5 Supply. Constant Volume, 19500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency HVAC System 7 (Multiple-Zone): Heating: 1 each. Hydroir or Steam Coll, Steam, Capacity = 1916 KBtu/n. No minimum efficiency requirement applies Fan System: TWAC SYSTEM 7 [.Classrooms – Compliance (Motor nameplate HP method) : Passes Fans: FAN 7 Supply. Constant Volume, 24360 CFM, 20.0 motor nameplate hp, 93.0 fan efficiency Plent 1: Heating: Staam Bolier, Capacity 23622 kBtu/h, Gas Proposed Efficiency: 82.00 % Ec, Required Efficiency: 79.00 % Ec anical Compliance Statement Fare Statement: The proposed mechanical alteration project represented in this document is consis specifications, and other calculations submitted with this permit application. The proposed mechanical ator meet the 2015 IECC equirements; In COM/neck Vieson 4.0.5.5 and to comply with any applica- ments listed in the Inspection Checkist. <b>TAN NOVO TENGSY, MECH.ENGK</b>	iste
Quant Quant 1 Mecha Compli plans, design require Name	te: Lake View High School ame: J:\16026\Design\Calculations\Mechanica\\CPS Lake View HS Comcheck_Mech 2017-0333 ity System Type & Description No minimum efficiency requirement applies Fan System: HVAC SYSTEM 61 (Classrooms - Compliance (Motor nameplate HP method): Passes Fans: FAN 5 Supply, Constant Volume, 19500 CFM, 7.5 motor nameplate lip, 91.7 fan efficiency HVAC System 7 (Multiple-Zone): Heating: 1 each- Hydronio Steam Coll, Steam, Capacity = 1916 KBtu/n No minimum efficiency requirement applies Fan System: HVAC SYSTEM 7 (Classrooms - Compliance (Motor nameplate HP method): Passes Fans: FAN 7 Supply, Constant Volume, 24300 CFM, 20.0 motor nameplate hP, 93.0 fan efficiency Plant 1: Heating: Steam Boller, Capacity 23622 KBtu/h, Gas Proposed Efficiency: 82.00 % Ec, Required Efficiency: 79.00 % Ec anical Compliance Statement iarce: Statement: The proposed mechanical alteration project represented in this document is consis specifications, and other calculations submitted with this permit application. The proposed mechanical ed to meet the 2015 IECC requirements in COM/neck Version 4.0.5.5 and to comply with any applications. The proposed mechanical MANDEC TeNGSY, MECH.ENG K. Version 4.0.5.5 and to comply with any application. The proposed mechanical Signature Signature Sistem Fonges (Signature Signature Date)	iste calable ?
Quant Quant 1 Mecha Compli plans, design require Name	<ul> <li>Lake View High School ame: J/16026/Design/Calculations/Mechanical/CPS Lake View HS Comcheck_Mech 2017-0333</li> <li>Werker Marker Mechanical CPS Lake View HS Comcheck_Mech 2017-0333</li> <li>No minimum efficiency requirement applies Fan System: HVAC SYSTEM 51 Classrooms - Compliance (Motor nameplate HP method): Passes Fans: FAN 5 Supply. Constant Volume, 19500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency</li> <li>HVAC System 7 (Multiple-Zono): Heating: 1 acto- Hydroio co Stam Coll, Steam, Capacity = 1916 kBtu/h No minimum efficiency requirement applies Fan System: HVAC SYSTEM 71, Classrooms - Compliance (Motor nameplate HP method): Passes Fans: FAN 7 Supply. Constant Volume, 24360 CFM, 20.0 motor nameplate hp, 93.0 fan efficiency</li> <li>Plant 1: Heating: Steam Boller, Capacity 23922 kBtu/h, Gas Proposed Efficiency: 82.00 %, Ec, Required Efficiency: 79.00 %, Ec</li> <li>anical Compliance Statement iarce: Statement: The proposed mechanical alteration project represented in this document is consis pecifications, and other calculations submitted with this perturb application. The proposed mechanical et to meet the 2015 IECC requirements in COM/neck Version 4.0.5.5 and to comply with any applic imments listed in the inspection Decklist.</li> <li>XANNOC Tencesy, Mecch. Exect Signature</li> </ul>	iste calable Pee

	BOILER BURNER SCHEDULE													
TAG		SERVICE	DRAFT	FUEL	BOILER		GAS		ELECTRICAL			WEIGHT	MANUFACTURER /	REMARKS
17.0	Lookinon	SERVICE	BIWAT	TOLL	(BHP)	(MBH)	(IN.WG.)	HP	VOLTS	PHASE	ΗZ	LBS	MODEL	
GB-1	BASEMENT	SCOTCH MARINE BOILER	FORCED	NATURAL GAS	350.0 14,780 20		20	3	3 208 3 60		60	1,200	POWER FLAME / CM9-G-30	NOTES 1-7
GB-2	B-2 BASEMENT SCOTCH MARINE FORCED NATURAL 350.0 14,780 20							3	208	3	60	1,200	POWER FLAME / CM9-G-30	NOTES 1-7

NOTES:

1. BURNER SHALL BE FULLY MODULATING.

2. BURNER SHALL BE CAPABLE OF RECEIVING 4-20 MA SIGNAL FOR MODULATION CONTROL.

3. PROVIDE COMMUNICATION INTERFACE PER CONTROLS AND BOILER SPECIFICATIONS.

4. PROVIDE UL/FM GAS TRAIN.

				BOILE	R FEE	DVVAIE		P SCH	EDULE				
		SERVICE		ТҮРЕ	GPM				ELECTRIC	CAL DATA	OPER.	MANUFACTURER/	REMARKS
TAG	LOCATION		FLUID			HEAD (PSI)	HP	RPM	VOLT / PH / HZ	STARTER	WEIGHT (LBS)	MODEL	
BFP-3	BASEMENT	STEAM BOILER -1	WATER	CLOSE-COUPLED END-SUCTION	75	40	5	3500	208/3/60	ACROSS THE LINE	100	SHIPCO / MODEL 113-P	1
NOTES: 1.	BASEPLATE-MOUN	TED PUMP & MOTOR.											

# FAN SCHEDULE

							~ ~ ~ ~		-								
				ESD		DRIVE	FAN	SOUND			MOTOR	2			WT	MANUFACTURER /	
TAG	SERVICE	LOCATION	CFM	(IN)	TYPE	B: BELT D: DIRECT	SPEED RPM	LEVEL (SONES)	OPER. BHP	HP	RPM	VOLT	HZ	РН	(LBS)	MODEL	REMARKS
TEF-1	TOILET ROOMS	GIRL'S STUDENTS TOILET 1001	500	0.3	SIDEWALL PROPELLER	D	1725	6.0	0.08	1/4	1725	115	60	1	38	GREENHECK / SE1-12-432-VG	1-4, 6
TEF-2	TOILET ROOMS	TOILET 200J	500	0.3	SIDEWALL PROPELLER	D	1725	6.0	0.08	1/4	1725	115	60	1	38	GREENHECK / SE1-12-432-VG	1-4, 6
TEF-3	TOILET ROOMS	TOILET 300G	500	0.3	SIDEWALL PROPELLER	D	1725	6.0	0.08	1/4	1725	115	60	1	38	GREENHECK / SE1-12-432-VG	1-4, 6
TEF-4	TOILET ROOMS	ROOF	1,350	0.5	ROOF VENTILATOR	В	1033	7.8	0.25	1/4	1750	115	60	1	62	GREENHECK / GB-141-4	1-3, & 5, 6
TEF-5	TOILET ROOMS	WOMEN STAFF TOILET 100E	300	0.25	SIDEWALL PROPELLER	D	1050	4.8	0.06	1/20	1050	115	60	1	20	GREENHECK / SE1-12-432-E	1-4, 6
EF-1	-	ROOF	1,250	1.0	UPBLAST	В	1550	14.9	0.37	1/2	1725	115	60	1	69	GREENHECK / CUBE-121-7	1-3, & 5, 6
EF-2	-	ROOF	4,460	1.0	ROOF VENTILATOR	В	846	15.0	1.30	1	1725	208	60	3	127	GREENHECK / GB-220-15	1-3, & 5, 6
EF-3	SCIENCE LAB 324	ROOF	1,965	1.0	UTILITY	В	1725	12.7	0.64	3/4	1725	208	60	3	203	GREENHECK / SWB-115-7	1-3, & 5, 6
EF-4	CHEM LAB 126	ROOF	1,500	1.0	UTILITY	В	1620	12.3	0.48	1/2	1725	115	60	1	181	GREENHECK / SWB-113-5	1-3, & 5, 6
EF-5	ROOM 011B	ROOM 011B	1,000	1.0	SIDEWALL PROPELLER	D	750	8.8	0.08	1/4	1222	115	60	1	58	GREENHECK / SBE-1H20-4	1-4, 6
EF-6	ROOM 003B	ROOF 1	500	1/8	ROOF VENTILATOR	В	1408	3.3	0.05	1/4	1725	115	60	1	51	GREENHECK / GB-101-4	1-3, & 5, 6
EF-7	ROOM 003B	ROOF	500	1/8	ROOF VENTILATOR	В	1408	3.3	0.05	1/4	1725	115	60	1	51	GREENHECK / GB-101-4	1-3, & 5, 6
NOTES:			•			•		•	•		•						

1. GRAVITY BACKDRAFT DAMPER. 2. ALUMINUM BIRDSCEEN.

3. DISCONNECT SWITCH.

4. WALL HOUSING.

5. 14" ROOF CURB. 6. PROVIDE 7-DAY PROGRAMMABLE TIME CLOCK. FAN SHALL OPERATE BASED ON OCCUPANCY SCHEDULE.  $\overline{}$ 

	DIFFUSERS, REGISTERS, GRILLES, AND LOUVERS								DAMPER SCHEDULE									
TAG	TYPE	TITUS MODEL AND NECK	FRAME	DAMPER	FINISH	REMARKS		TAG	LOCATION	SERVICE	QTY	SIZE	ACTUATOR	REMARKS				
A	EXHAUST AIR REGISTER	TITUS / 350RL	SURFACE MOUNTED	OBD	BAKED WHITE ENAMEL													
	SUPPLY AIR				BAKED WHITE			-	AHU-1	BYPASS	2	68x38	PNEUMATIC	1 - 3				
⊵	REGISTER	11103730083	SURFACE MOUNTED	OBD	ENAMEL			-	AHU-3	BYPASS	2	48x28	PNEUMATIC	1 - 3				
¢	TRANSFER AIR GRILLE	TITUS / 350RL	SURFACE MOUNTED	-	BAKED WHITE ENAMEL			-	AHU-3	OUTDOOR	3	48x36	PNEUMATIC	1 - 3				
								-	AHU-4	OUTDOOR	2	34x68	PNEUMATIC	1 - 3				
OBD -	OBD - OPPOSED BLADE DAMPER																	

eport date: 03/31/17 Page 1 of 19

vith the building tems have been andatory 31 / 2017

rt date: 03/31/17 Page 2 of 19

5. PROVIDE WITH REMOTE/LOCAL SWITCH AND MANUAL CAPACITY CONTROL. 6. PROVIDE COMBUSTION DAMPER AND ACTUATOR INTEGRATED TO BOILER CONTROLS 7. PROVIDE SEPARATE HIGH LIMIT, LOW WATER FLAME FAILURE ALARM, HIGH LEVEL ALARM INDICATION AT BOILER PANEL

NOTES:

 DAMPERS SHALL BE SIZED IN COORDINATION WITH THE BUILDING AUTOMATION SYSTEM CONTRACTOR TO ENSURE PROPER CONTROLABILITY. DAMPERS CONTROLLED BY THE BUILDING AUTOMATION SYSTEM SHALL FOLLOW THE REQUIREMENTS OF SPECIFICATION 15951.

3. DAMPERS WITH VERTICAL BLADES SHALL HAVE THRUST BEARINGS.

A SOCIAL FEX	OGAN, CLA ARCHITEC WWW CORANS 60506 SOLOSOLO	ARK & ASSOCIATES INC. TS - ENGINEERS cordoganclark.com C H I C A G O The North Wells STREET CHICAGO, ILLINOIS 60654 TEL 312.943.7300 FAX 312.943.4771
IS	IN C	β <b>H</b>
	SINGH + ASSOC	CIATES, INC NGINEERS
LAKE HIGH 4015 I CHICAG	VIEW SCHOOL North Ashl 30, illinois	AND AVENUE 60613
PROJEC	CT NO. 201	6-46211-MCR
	R	EVISIONS
NO. -	DATE 2016.04.19	DESCRIPTION 30% SUBMITTAL
-	2016.06.14 2017.02.14	60% SUBMITTAL 75% SUBMITTAL
-	2017.03.02 2017.03.07	100% SUBMITTAL PERMIT SET
-	2017.03.23	PRELIMINARY OTB SET
	2017.04.12	ADDENDUM #1
DRAWN	BY: FT	
SCALE: JOB:	N	
FILE:	M. EEAS OF DRK: ENTIR TERIOR, ALL ID ROOF ING MATE RESENT I STOS MA ENSED A JOINS UNL CENSED A JOINSED A	3.1 ASHLAND AVE. ASHLAND AVE. ASHLAND AVE. ASHLAND AVE. ASHLAND AVE. ASBESTOS-CONTAINING ERIALS ARE OR MAY N THIS BUILDING. AN NAGEMENT PLAN IS I THE SCHOOL FOR REQUEST. NO PERSON ASBESTOS-CONTAINING ESS THAT PERSON IS SBESTOS WORKER OR SUCH WORK IN ITH SPECIFICATION(S) IN THE PROJECT ND IN COMPLIANCE IS DEPARTMENT OF AND REGULATIONS.
_	MEC	HANICAL IEDULES
	DR,	AWING NU.
	M	3.1

					ORD	INANCE R	EQUIREM	ENTS				ACTUAL	PROVIDED			EQUI	PMENT	
ROOM			AREA	NATURA & VENT	L LIGHT	MECH. VENTI	ANICAL LATION	(RO) Oper	Relief nings	NATURA & VENT	AL LIGHT	MECH/ VENTI	ANICAL LATION	(RO) Oper	Relief nings	SUPPLY	EXHAUST	REMARKS
<del>NO</del> .	(Plan)	(per Table 403.3)	<del>- 5q.n.</del> -	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Volume (CFM)	Area of Duct (SF)	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Volume (CFM)	Area of Duct (SF)	FAN	FAN	
302	MDF	COMPUTER ROOM	302	12	6	181	91	0	0	0	0	200	200	0	0	AHU-1	EF-1	
232	LIBRARY	LIBRARY	2,063	83	42	2,476	1,238	0	0	0	0	2,500	2,500	0	0	AHU-1	EF-1	
238	WORK ROOM	OTHERWISE	643	26	13	772	772	0	0	0	0	800	800	0	0	AHU-1	EF-1	
330	CLASSROOM	CLASSROOM	540	22	11	810	405	0	0	0	0	850	850	0	0	AHU-1	EF-1	
332	CLASSROOM	CLASSROOM	734	29	15	1,101	551	0	0	0	0	1,200	1,200	0	0	AHU-1	EF-1	
334	CLASSROOM	CLASSROOM	364	15	8	546	273	0	0	0	0	600	600	0	0	AHU-1	EF-1	
336	CLASSROOM	CLASSROOM	892	36	18	1,338	669	0	0	0	0	1,400	1,400	0	0	AHU-1	EF-1	
338	CLASSROOM	CLASSROOM	718	29	15	1,077	539	0	0	0	0	1,100	1,100	0	0	AHU-1	EF-1	
100	MAIN OFFICE	OFFICES AND COMPUTER ROOMS	834	33	17	500	250	0	0	0	0	500	500	0	0	AHU-1	EF-1	
136	OFFICE	OFFICES AND COMPUTER ROOMS	406	16	8	244	122	0	0	0	0	250	250	0	0	AHU-1	EF-1	
138H	OFFICE	OFFICES AND COMPUTER ROOMS	88	4	2	53	50	0	0	0	0	100	100	0	0	AHU-1	EF-1	
138G	OFFICE	OFFICES AND COMPUTER ROOMS	87	3	2	52	50	0	0	0	0	100	100	0	0	AHU-1	EF-1	
136A	OFFICE	OFFICES AND COMPUTER ROOMS	128	5	3	77	50	0	0	0	0	100	100	0	0	AHU-1	EF-1	
1381	OFFICE	WAITING ROOM	126	5	3	126	126	0	0	0	0	150	150	0	0	AHU-1	EF-1	
138E	OFFICE	OFFICES AND COMPUTER ROOMS	65	3	2	50	50	0	0	0	0	100	100	0	0	AHU-1	EF-1	
138D	OFFICE	OFFICES AND COMPUTER ROOMS	78	3	2	50	50	0	0	0	0	100	100	0	0	AHU-1	EF-1	
138A	OFFICE	OFFICES AND COMPUTER ROOMS	111	4	2	67	50	0	0	0	0	100	100	0	0	AHU-1	EF-1	
138B	OFFICE	OFFICES AND COMPUTER ROOMS	65	3	2	50	50	0	0	0	0	100	100	0	0	AHU-1	EF-1	
138C	OFFICE	OFFICES AND	75	3	2	50	50	0	0	0	0	100	100	0	0	AHU-1	EF-1	

					ORDI	NANCE R	EQUIREM	ENTS				ACTUAL I	PROVIDED			EQUIF	PMENT	
ROOM	ROOM NAME	ROOM PURPOSE	AREA	NATURA & VENT	AL LIGHT	MECH. VENTI	ANICAL LATION	(RO) Oper	Relief nings	NATURA & VENT	AL LIGHT	MECH/ VENTI	ANICAL LATION	(RO) Oper	Relief nings		EVHALLET	REMARK
<del>No.</del>	(Plan)	<del>  (per Table 403.3)  </del>	<del>sq.π.</del> _	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Volume (CFM)	Area of Duct (SF)	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Volume (CFM)	Area of Duct (SF)	FAN	FAN	
080	WEIGHT ROOM	STORAGE - INACTIVE	1,834	0	0	NR	NR	0	0	0	0	0	0	0	0	AHU-4		
090A	OFFICE	STORAGE - INACTIVE	282	0	0	NR	NR	0	0	0	0	0	0	0	0	AHU-4		
	SHOWER	SHOWER ROOM	362	14	7	NR	NR	0	0	0	0	0	0	0	0	AHU-4		
	TOILET	TOILET ROOM	123	5	3	NR	246	0	0	0	0	0	250	0	0	AHU-4		
	LOCKER	LOCKER ROOM	950	38	19	285	1,140	0	0	0	0	300	4,050	0	0	AHU-4		
	POOL	NATATORIUM	1,407	56	28	2,814	2,111	0	0	0	0	2,850	2,150	0	0	AHU-4		
	SHOWER	SHOWER ROOM	158	6	3	NR	NR	0	0	0	0	0	0	0	0	AHU-4		
	TOILET	TOILET ROOM	164	7	4	NR	328	0	0	0	0	0	350	0	0	AHU-4		
	LOCKER	LOCKER ROOM	434	17	9	130	521	0	0	0	0	150	550	0	0	AHU-4		
090	ROTC CLASSROOM	CLASSROOM	2,171	87	44	3,257	1,628	0	0	0	0	3,300	3,300	0	0	AHU-4		
116	MAIN GYM	GYMNASIUM	5,859	234	117	11,718	8,789	0	0	0	0	11,750	11,750	0	0	AHU-4		
115	LAB	LABORATORIES	770	39	20	924	924	0	0	0	0	950	950	0	0	AHU-4		
117	PREP ROOM	LABORATORIES	179	9	5	215	215	0	0	0	0	250	250	0	0	AHU-4		
119	LAB	LABORATORIES	375	19	10	450	450	0	0	0	0	450	450	0	0	AHU-4		
121	CLASSROOM	CLASSROOM	813	33	17	1,220	610	0	0	0	0	1,250	1,250	0	0	AHU-4		
123	CLASSROOM	CLASSROOM	755	30	15	1,133	566	0	0	0	0	1,150	1,150	0	0	AHU-4		
215	CLASSROOM	CLASSROOM	749	30	15	1,124	562	0	0	0	0	1,150	1,150	0	0	AHU-4		
217	CLASSROOM	CLASSROOM	642	26	13	963	482	0	0	0	0	1,000	1,000	0	0	AHU-4		
219	CLASSROOM	CLASSROOM	681	27	14	1,022	511	0	0	0	0	1,050	1,050	0	0	AHU-4		
221	COMPUTER ROOM	CLASSROOM	851	34	17	1,277	638	0	0	0	0	1,300	1,300	0	0	AHU-4		
223	CLASSROOM	CLASSROOM	839	34	17	1,259	629	0	0	0	0	1,300	1,300	0	0	AHU-4		
317A	DARK ROOM	PHOTO MATERIALS AND ENGRAVING	363	15	8	363	363	0	0	0	0	400	400	0	0	AHU-4		
935	ART LAB	CLASSROOM	935	37	19	1,403	701	0	0	0	0	1,450	1,450	0	0	AHU-4		
319	CLASSROOM	CLASSROOM	729	29	15	1,094	547	0	0	0	0	1,100	1,100	0	0	AHU-4		
321	CLASSROOM	CLASSROOM	846	34	17	1,269	635	0	0	0	0	1,300	1,300	0	0	AHU-4		
340	CLASSROOM	CLASSROOM	393	16	8	590	295	0	0	0	0	600	600	0	0	AHU-4		
342	CLASSROOM	CLASSROOM	367	15	8	551	275	0	0	0	0	560	560	0	0	AHU-4		
344	CLASSROOM	CLASSROOM	395	16	8	593	296	0	0	0	0	600	600	0	0	AHU-4		
314	CLASSROOM	CLASSROOM	1,002	40	20	1,503	752	0	0	0	0	1,550	1,550	0	0	AHU-4		
	ART LAB	CLASSROOM	2,211	88	44	3,317	1,658	0	0	0	0	3,350	3,350	0	0	AHU-4		
323	CLASSROOM	CLASSROOM	790	32	16	1,185	593	0	0	0	0	1,200	1,200	0	0	AHU-4		

VENT		HEDULE					$\frown$		$\checkmark$			$\searrow$			$\frown$	$\frown$	$\sim$	
					ORDI		EQUIREM	ENTS				ACTUAL F	PROVIDED			EQUI	PMENT	
ROOM			AREA	NATURA & VENTI	L LIGHT LATION	MECHA VENTIL	ANICAL ATION	(RO) Oper	Relief nings	NATURA & VENTI	L LIGHT	MECH/ VENTI	ANICAL LATION	(RO) Oper	Relief nings	SUPPLY	EXHAUST	REMARKS
110.	(rian)	94.11.	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Volume (CFM)	Area of Duct (SF)	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Volume (CFM)	Area of Duct (SF)	FAN	FAN		
237A	AUDITORIUM	AUDITORIUM	7,274	291	146	10,911	5,456	0	0	0	0	11,000	11,000	0	0	AHU-2		

## 

					ORD			ENTS				ACTUAL I	PROVIDED	)		EQUIF	PMENT	
ROOM	ROOM NAME	ROOM PURPOSE	AREA			MECH		(RO)	Relief			MECH		(RO)	Relief			
No.	(Plan)	(per Table 403.3)	<del>sq.ft.</del>	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Oper Volume (CFM)	Area of Duct (SF)	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Oper Volume (CFM)	Area of Duct (SF)	SUPPLY FAN	EXHAUST FAN	REMARKS
027A	CORRIDOR	CORRIDOR	956	0	0	NR	NR	0	0	0	0	0	0	0	0	AHU-4		
029	ENGR OFFICE	OFFICES AND	253	10	5	152	76	0	0	0	0	200	200	0	0	AHU-4		
029A	WORKOUT ROOM	GYMNASIUM	738	30	15	1,476	1,107	0	0	0	0	1,500	1,500	0	0	AHU-4		
029B	RECEIVING	STORAGE - INACTIVE	472	0	0	NR	NR	0	0	0	0	150	150	0	0	AHU-4		
120	CLASSROOM	CLASSROOM	118	5	3	177	89	0	0	0	0	200	200	0	0	AHU-4		
120	CLASSROOM	CLASSROOM	760	30	15	1,140	570	0	0	0	0	1,150	1,150	0	0	AHU-4		
116A	OFFICE	OFFICES AND COMPUTER ROOMS	1,059	42	21	635	318	0	0	0	0	650	650	0	0	AHU-4		
122	LAB	LABORATORIES	1,180	59	30	1,416	1,416	0	0	0	0	1,450	1,450	0	0	AHU-4		
125	CLASSROOM	CLASSROOM	821	33	17	1,232	616	0	0	0	0	1,250	1,250	0	0	AHU-4		
127	OFFICE	OFFICES AND COMPUTER ROOMS	633	25	13	380	190	0	0	0	0	400	400	0	0	AHU-4		
129	CLASSROOM	CLASSROOM	653	26	13	980	490	0	0	0	0	1,000	1,000	0	0	AHU-4		
124	PREP ROOM	LABORATORIES	417	21	11	500	500	0	0	0	0	500	500	0	0	AHU-4		
126	LAB	LABORATORIES	1,115	56	28	1,338	1,338	0	0	0	0	1,350	1,350	0	0	AHU-4		
128	STUDENT SERVICE	OFFICES AND COMPUTER ROOMS	736	29	15	442	221	0	0	0	0	450	450	0	0	AHU-4		
220	LAB	LABORATORIES	776	39	20	931	931	0	0	0	0	950	950	0	0	AHU-4		
222	LAB	LABORATORIES	983	49	25	1,180	1,180	0	0	0	0	1,200	1,200	0	0	AHU-4		
225	CLASSROOM	CLASSROOM	819	33	17	1,229	614	0	0	0	0	1,250	1,250	0	0	AHU-4		
229	LAB	LABORATORIES	1,203	60	30	1,444	1,444	0	0	0	0	1,450	1,450	0	0	AHU-4		
229A	PREP ROOM	LABORATORIES	126	6	3	151	151	0	0	0	0	200	200	0	0	AHU-4		
228	CLASSROOM	CLASSROOM	922	37	19	1,383	692	0	0	0	0	1,400	1,400	0	0	AHU-4		
224	COMMUNITY ROOM	LODGE HALLS	1,441	0	0	2,162	1,081	0	0	0	0	2,200	2,200	0	0	AHU-4		
222A	PREP ROOM	LABORATORIES	111	6	3	133	133	0	0	0	0	150	150	0	0	AHU-4		
320	LAB	LABORATORIES	919	46	23	1,103	1,103	0	0	0	0	1,150	1,150	0	0	AHU-4		
322	COMPUTER LAB	CLASSROOM	951	38	19	1,427	713	0	0	0	0	1,450	1,450	0	0	AHU-4		
325	CLASSROOM	CLASSROOM	788	32	16	1,182	591	0	0	0	0	1,200	1,200	0	0	AHU-3		
327	CLASSROOM	CLASSROOM	672	27	14	1,008	504	0	0	0	0	1,050	1,050	0	0	AHU-3		
329	CLASSROOM	CLASSROOM	663	27	14	995	497	0	0	0	0	1,000	1,000	0	0	AHU-3		
324	LAB	LABORATORIES	1,083	54	27	1,300	1,300	0	0	0	0	1,300	1,300	0	0	AHU-3		
324A	OFFICE	OFFICES AND COMPUTER ROOMS	346	14	7	208	104	0	0	0	0	250	250	0	0	AHU-3		
328	LAB	LABORATORIES	1,042	52	26	1,250	1,250	0	0	0	0	1,250	1,250	0	0	AHU-3		
333	CLASSROOM	CLASSROOM	882	35	18	1,323	662	0	0	0	0	1,350	1,350	0	0	AHU-3		
337	CLASSROOM	CLASSROOM	476	19	10	714	357	0	0	0	0	750	750	0	0	AHU-3		
422	MUSIC ROOM	MUSIC ROOM	1,300	52	26	1,950	975	0	0	0	0	1,950	1,950	0	0	AHU-3		
422A	PRACTICE ROOM	MUSIC ROOM	46	2	1	69	50	0	0	0	0	100	100	0	0	AHU-3		
422B	PRACTICE ROOM	MUSIC ROOM	57	2	1	86	50	0	0	0	0	100	100	0	0	AHU-3		
422C	PRACTICE ROOM	MUSIC ROOM	56	2	1	84	50	0	0	0	0	100	100	0	0	AHU-3		
428	CLASSROOM	CLASSROOM	783	31	16	1,175	587	0	0	0	0	1,200	1,200	0	0	AHU-3		

![](_page_63_Picture_7.jpeg)

ENT	ILATION SC	HEDULE							$\checkmark$	$\overline{}$		$\checkmark$	$\sim$		$\sim$		$\sum$
					ORDI	NANCE R	EQUIREMI	ENTS				ACTUAL I	PROVIDED			EQUIF	PMENT
ROOM		ROOM PURPOSE	AREA	NATURA & VENT	L LIGHT	MECH/ VENTII	ANICAL LATION	(RO) Oper	Relief nings	NATURA & VENT	AL LIGHT	MECH/ VENTI	ANICAL LATION	(RO) Oper	Relief nings	SUPPLY	EXHAUST
NO.	(Fian)		oqna	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Volume (CFM)	Area of Duct (SF)	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Volume (CFM)	Area of Duct (SF)	FAN	FAN
010	LUNCH ROOM	LUNCH ROOM (NO COOKING)	8,253	330	165	12,380	12,380	0	0	0	0	12,400	12,400	0	0	AHU-5	
010B	DISH WASHING	KITCHEN - PUBLIC	192	6	3	230	768	0	0	0	0	250	800	0	0	AHU-5	
020	SERVING	LUNCH ROOM (NO COOKING)	1,343	54	27	2,015	2,015	0	0	0	0	2,050	2,050	0	0	AHU-5	_
040	KITCHEN	KITCHEN - PUBLIC	700	21	11	840	2,800	0	0	0	0	850	2,800	0	0	AHU-5	
030	STAFF LOUNGE	LOUNGE	662	26	13	662	993	0	0	0	0	700	1,000	0	0	AHU	

## VENTILATION SCHEDULE

					ORD	NANCE R	EQUIREM	ENTS				ACTUAL F	PROVIDED			EQUI	PMENT	
ROOM		ROOM PURPOSE	AREA	NATURA & VENT	L LIGHT	MECHA VENTII	ANICAL LATION	(RO) Oper	Relief nings	NATURA & VENT	AL LIGHT	MECHA VENTIL	ANICAL LATION	(RO) Oper	Relief nings	SUPPLY	EXHAUST	REMARKS
NO.	(Flan)		99.10	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Volume (CFM)	Area of Duct (SF)	Glass sq.ft.	Vent sq.ft.	ہ ،y FM	Exhaust CFM	Vc. (CFM)	Are .ct (SF)	FAN	FAN	
367	OFFICE	OFFICES AND COMPUTER ROOMS	196	8	4	118	59	0	0	0	0	150	150	0	0	AHU-6		
	OFFICE	OFFICES AND COMPUTER ROOMS	190	8	4	114	57	0	0			70	1	0	0	AHU-6		
203	SMALL GYM	GYMNASIUM	2,649	106	53	5,298	3,974	0	0	0	0	5,30	5,300	0	0	AHU-6		
201	SMALL GYM	GYMNASIUM	2,489	100	50	4,978	3,734	0	0		0	5,000	5,000	0	0	AHU-6		

# VENTILATION SCHEDULE

					ORD		JIREM	ENTS				ACTUAL	PROVIDED	1		EQUIF	PMENT	
ROOM	ROOM NAME	ROOM PURPOSE	AREA	NATURA & VENT	AL LIGHT	MECH.	A. `AL LA.	(RO) Oper	Rei. ninas	NATURA & VENT	AL LIGHT ILATION	MECH/ VENTI	ANICAL LATION	(RO) Oper	Relief nings		FYLIALIST	REMARKS
No.	(Plan)	<del>(per Table 403.3)</del>	sq.ft.	Glass sq.ft.	V . <del>1</del> .	Sup C <sup>r</sup>	Exha t CFM	ie (FM)	Area of Duct (SF)	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Volume (CFM)	Area of Duct (SF)	FAN	FAN	
305	LAB	LABORATORIES	2,007	J	50	2,408	198	0	0	0	0	2,450	2,450	0	0	AHU-7		
311	CLASSROOM	CLASSROOM	504	20	10	756	378	0	0	0	0	800	800	0	0	AHU-7		
313	CLASSROOM	CLASSROOM	492	J	10	738	369	0	0	0	0	750	750	0	0	AHU-7		
310	WORK AREA	OTHERWISE	30	1.	ö	367	367	0	0	0	0	400	400	0	0	AHU-7		
312	CLASSROOM	C' JSROOM	656	26	13	984	492	0	0	0	0	1,000	1,000	0	0	AHU-7		
304	CLASSROOM	LASSRC 1	78	27	14	1,017	509	0	0	0	0	1,050	1,050	0	0	AHU-7		
302	CLASSRO	CL SROOM	659	26	13	989	494	0	0	0	0	1,000	1,000	0	0	AHU-7		
205	COMP' LAB	CLASS	219	9	5	329	164	0	0	0	0	350	350	0	0	AHU-7		
207	OFFICE		317	13	7	190	95	0	0	0	0	200	200	0	0	AHU-7		
-	CLASSROOM	CLASSROOM	777	31	16	1,166	583	0	0	0	0	1,200	1,200	0	0	AHU-7		
487	CLASSROOM	CLASSROOM	487	19	10	731	365	0	0	0	0	750	750	0	0	AHU-7		
	JROOM	CLASSROOM	478	19	10	717	359	0	0	0	0	750	750	0	0	AHU-7		
200E	TOILET	TOILET ROOM	290	12	6	NR	580	0	0	0	0	0	600	0	0	AHU-7		
200D	TOILET	TOILET ROOM	235	9	5	NR	470	0	0	0	0	0	500	0	0	AHU-7		
212	LAB	LABORATORIES	764	38	19	917	917	0	0	0	0	950	950	0	0	AHU-7		
204	CLASSROOM	CLASSROOM	668	27	14	1,002	501	0	0	0	0	1,100	1,100	0	0	AHU-7		
202	CLASSROOM	CLASSROOM	626	25	13	939	470	0	0	0	0	950	950	0	0	AHU-7		
105	GAMING ROOM	GAME ROOMS / ARCADE	1,194	48	24	1,910	1,910	0	0	0	0	2,000	2,000	0	0	AHU-7		
109	ATTENDANCE OFFICE	OFFICES AND COMPUTER ROOMS	890	36	18	534	267	0	0	0	0	550	550	0	0	AHU-7		
111	SPECIAL ED OFFICE	OFFICES AND COMPUTER ROOMS	332	13	7	199	100	0	0	0	0	200	200	0	0	AHU-7		
113	OFFICE	OFFICES AND COMPUTER ROOMS	342	14	7	205	103	0	0	0	0	250	250	0	0	AHU-7		
112	COUNSELOR OFFICE	OFFICES AND COMPUTER ROOMS	977	39	20	586	293	0	0	0	0	600	600	0	0	AHU-7		
12B1	TOILET	TOILET ROOM	214	9	5	NR	428	0	0	0	0	0	450	0	0	AHU-7		
102	IT SUPPORT	OFFICES AND COMPUTER ROOMS	998	40	20	599	299	0	0	0	0	600	600	0	0	AHU-7		
102A	OFFICE	OFFICES AND COMPUTER ROOMS	152	6	3	91	50	0	0	0	0	100	100	0	0	AHU-7		
101	OFFICE	OFFICES AND COMPUTER ROOMS	1,258	50	25	755	377	0	0	0	0	800	800	0	0	AHU-7		
101A	HEALTH OFFICE	OFFICES AND COMPUTER ROOMS	1,360	54	27	816	408	0	0	0	0	850	850	0	0	AHU-7		
103	GIRLS LOCKER	LOCKER ROOM	2,144	86	43	643	2,573	0	0	0	0	650	2,600	0	0	AHU-7		
103 <b>C</b>	TOILET	TOILET ROOM	98	4	2	NR	196	0	0	0	0	0	200	0	0	AHU-7		
1001	TOILET	TOILET ROOM	178	7	4	NR	356	0	0	0	0	0	400	0	0	AHU-7		

		BUDIC SCHOOLS
		Cordoganclark.com
960 RIDGE AURORA, II TEL 6 FAX 6	WAY AVENUE LINOIS 60506 30.896.4678 30.896.4987	716 NORTH WELLS STREET CHICAGO, ILLINOIS 60654 TEL 312.943.7300 FAX 312.943.4771
S	SINGH + ASSOC	NATES, INC. NGINEERS
LAKE HIGH 4015 N CHICAG	VIEW SCHOOL NORTH ASHL 0, ILLINOIS	AND AVENUE 60613
PROJEC	CT NO. 201	6-46211-MCR
NO. - - - - - -	DATE           2016.04.19           2016.06.14           2017.02.14           2017.03.02           2017.03.23           2017.04.04	DESCRIPTION 30% SUBMITTAL 60% SUBMITTAL 75% SUBMITTAL 100% SUBMITTAL PERMIT SET PRELIMINARY OTB SET BID SET
⚠	2017.04.12	ADDENDUM #1
DRAWN SCALE:	BY: FT	S
FILE:	M	3.4
AR	EAS OF	ASHLAND AVE.
WC EX AN BUILD BE PI ASBES AVAIL REVIE MAY CONDU ACCOF CONTA DOCUN WITH HEALT	RK: ENTIR TERIOR, ALL D ROOF ING MATE RESENT II STOS MAI ABLE IN CABLE IN CABLE IN CABLE IN CABLE IN CABLE IN CALS UNL CENSED A JCTS S CANCE W AINED I MENTS A ILLINDI TH RULES	E BUILDING LEVELS ASBESTOS-CONTAINING TRIALS ARE OR MAY N THIS BUILDING. AN NAGEMENT PLAN IS THE SCHOOL FOR REQUEST. NO PERSON ASBESTOS-CONTAINING LESS THAT PERSON IS SBESTOS WORKER OR SUCH WORK IN ITH SPECIFICATION(S) IN THE PROJECT ND IN COMPLIANCE S DEPARTMENT OF AND REGULATIONS.
	MEC SCH	HANICAL IEDULES
	DR	awing no. <b>3.4</b>

![](_page_65_Figure_0.jpeg)

![](_page_66_Figure_0.jpeg)

PROVIDE HEAT-TIMER CONTROLLERS TO ENABLE/DISABLE STEAM BOILERS, MODULATE BURNERS, AND CONTROL FIRING RATE TO MAINTAIN HEADER PRESSURE BASED ON SCHEDULED OCCUPANCY, AND OA TEMPERATURE WITH OA RESET. CONTROLLERS SHALL BE CAPABLE OF SEQUENCING THE BOILERS BASED ON LEAD/LAG AND AUTOMATIC ROTATION WITH FIELD ADJUSTABLE TIME CLOCK (DAILY OR WEEKLY BASIS). COMBUSTION DAMPER ACTUATOR AND INDEPENDENT END SWITCH HARDWIRED TO ASSOCIATED BOILER. CONDENSATE RETURN VALVES SHALL BE HARDWIRED TO ASSOCIATED BOILER PUMP CONTROLLER. PROVIDE AN AUDIBLE ALARM TO SET OFF DURING LOW WATER LEVEL CONDITION. DO NOT INTERFACE WITH BAS. COORDINATE WITH BUILDING ENGINEER FOR DESIRED SCHEDULE OF OPERATION 4 AND STEAM PRESSURE SETPOINT. CORDOGAN, CLARK & ASSOCIATES IN ARCHITECTS · ENGINEERS www.cordoganclark.com A U R O R A 960 RIDGEWAY AVENUE AURORA, ILLINOIS 60506 TEL 630.896.4678 FAX 630.896.4987 C H I C A G ( 716 NORTH WELLS STREE CHICAGO, ILLINOIS 6065 TEL 312.943.7300 FAX 312.943.477 SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS PROVIDE AOR/EOR STAMP HERE LAKE VIEW HIGH SCHOOL 4015 NORTH ASHLAND AVENUE CHICAGO, ILLINOIS 60613 PROJECT NO. 2016-46211-MCR REVISIONS NO. DATE DESCRIPTION 2016.04.19 30% SUBMITTAL 2016.06.14 60% SUBMITTAL 2017.02.14 75% SUBMITTAL 2017.03.02 100% SUBMITTAL \_\_\_\_\_ 2017.03.07 PERMIT SET 2017.03.23 PRELIMINARY OTB SET - 2017.04.04 BID SET 2017.04.12 ADDENDUM #1 drawn by: FT NTS SCALE: JOB: FILE: M4.2 WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE DR MAY BE PRESENT IN THIS BUILDING, AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINDIS DEPARTMENT OF HEALTH RULES AND REGULATIONS. STEAM BOILER SYSTEM SYMBOLS DRAWING NO. M4.2

![](_page_67_Figure_0.jpeg)

![](_page_68_Figure_0.jpeg)

NC		LIGHT	ING SYN	ABOLS LIST			ABBI	REVIATIO	NS		
	F EM #	LIGHT	ING SYN SINGLE POLE W VHERE: 'a' IS ARE VHERE: 'XX' I OS: C K: KE D: DII I' × 4' FIXTUF VHERE: 'F' IS 'N' I 'a' IS I' × 4' EMERC WHERE: 'EM' PANE 'N' I EMEF WHERE: 'EM' PANE 'N' I EMEF	ABOLS LIST VALL SWITCH S THE DESIGNATION INDICATING WHAT LIG CONTROLLED BY THAT SWITCH S DCCUPANCY SENSOR YED SWITCH WMER SWITCH RE S THE FIXTURE TAG S THE FIXTURE TAG S THE CIRCUIT NUMBER S THE SWITCH DESIGNATION GENCY FIXTURE IS THE DESIGNATION FOR EMERGENCY EL S THE CIRCUIT NUMBER IN THE RGENCY PANEL ALL MOUNTED EXIT OR DIRECTIONAL SIGN. PR RROWS AS INDICATED ON PLANS. SHADED POF ENOTES VIEWING FACE. NUMBER ADJACENT TO ENOTES "CHICAGO CODE" INSCRIPTION. CHICAGO CODE DESCRIPTION	OVIDE RTION SYMBOL	A – AFF – A/C – AHU – ATS – BSMT – BPS – C – CCT – C/B – CLG – C0 –	ABBI AMPS ABOVE FINISHED FLOOR AIR CONDITIONING AIR HANDLING UNIT AUTOMATIC TRANSFER SWITCH BASEMENT BOLTED PRESSURE SWITCH CONDUIT CIRCUIT CIRCUIT BREAKER CEILING CARBON MONOXIDE DETECTOR	REVIAIIO F&I - FCU - F - FDR - FLA - FLR - FLR - FVNR - GFI - GRD -	FURNISH AND INSTALL FURNISH AND INSTALL FAN COIL UNIT FUSE FUSE FEEDER FULL LOAD AMPS FLOOR FIRE PUMP CONTROLLER FIXTURE FULL VOLTAGE, NON REVERSING (MAGNETIC STARTER) GROUND FAULT INTERRUPTER GROUND	N/A - NC - NIC - NIC - NTS - O/H - OL - PB - PNL - PRI - PRI - PT - S -	NOT APPLICABLE NORMALLY CLOSED NOT IN CONTRACT NORMALLY OPEN NOT TO SCALE OVERHEAD OVERLOAD PUSHBUTTON PANEL PRIMARY POTENTIAL TRANSFORMER SWITCH
		SINGLE FACE         #2A         #3         #5A         #6         #8A         #9         #11A         #12	DOUBLE FACE #17A #18	STAIRS NO ARROW         EXIT NO ARROW         STAIRS ARROW RIGHT         EXIT ARROW RIGHT         STAIRS ARROW LEFT         EXIT ARROW LEFT         EXIT ARROW LEFT         STAIRS DOUBLE ARROW         EXIT DOUBLE ARROW         STAIRS ARROW RIGHT AND LEFT         EXIT ARROW RIGHT AND LEFT		CP - CU - CT - DIA - D/S - DIV - DWG - EC - EQUIP - ELECT - EM - EMERG - EX EXR ETR ETR ERL	CONTROL PANEL COPPER CURRENT TRANSFORMER DIAMETER DISCONNECT SWITCH DIVISION DRAWING ELECTRICAL CONTRACTOR EQUIPMENT ELECTRIC, ELECTRICAL EMERGENCY EXISTING TO BE REMAIN EXISTING TO BE REMOVED EXISTING TO BE REMOVED EXISTING TO BE REMOVED EXISTING TO BE REMOVED EXISTING TO BE RELOCATED	HP - HOA - IG - J/B - LTG - JPC - M - MCB - MCC - MCP - MLO - MECH - MOCP - N -	HORSEPOWER HAND-OFF-AUTO ISOLATED GROUND JUNCTION BOX LIGHTING JOCKEY PUMP CONTROLLER MOTOR MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAXIMUM CIRCUIT PROTECTION MAIN LUGS ONLY MECHANICAL MAIN OVERCURRENT PROTECTION NEUTRAL	R - SEC - SW - SWBD - SWGR - TR - TVSS - UPS - V - VFD - WP - WP - UH -	RELOCATED SECONDARY SWITCH SWITCHBOARD SWITCHBOARD SWITCHGEAR TRANSFORMER TRANSFORMER TRANSIENT VOLTAGE SURGE SUPPRESSOR UNINTERRUPTIBLE POWER SUPPLY VOLTS VARIABLE FREQUENCY DRIVE WEATHERPROOF WATTS UNIT HEATER
СН		ALL INTED       FLOOR BOX       POR THRO         ISON       POR BOX       POR THRO         ISON       POR BOX       POR THRO         ISON       ISON       POR THRO         ISON       ISON       POR THRO         ISON       ISON       ISON         ISON       ISON         ISON       ISO	POWER CE	2 SYMBOLS DUPLEX RECEPTACLE QUAD RECEPTACLE SINGLE RECEPTACLE SINGLE RECEPTACLE ISOLATED GROUND DUPLEX RECEPTACLE ISOLATED GROUND QUAD RECEPTACLE ISOLATED GROUND QUAD RECEPTACLE, I RECEPTACLE AND TELEPHONE/ DATA SYS OUTLET SPECIAL RECEPTACLE – REFER TO SPEC RECEPTACLE SCHEDULE JUNCTION BOX WITH FLEXIBLE CONDUIT EQUIPMENT OR FURNITURE SYSTEM POW CONNECTION E SYMBOLS ABOVE INDICATE THE FOLLOW SISTANT (SAFETY TYPE) STATION LE FED BY EMERGENCY CIRCUIT LE IS EXPLOSION PROOF LE SERVES ELECTRIC WATER COOLER LE HAS GROUND FAULT CIRCUIT INTERRI LE HAS GROUND FAULT CIRCUIT LE HAS SISLATED GROUND-COMPUTER LE HAS WATERPROOF COVER LE HAS TRANSIENT VOLTAGE SURGE SUF LE IS SAFETY TYPE - MOUNTING HEIGHT AS NOTED ABOVE CON UTLET AND CLOCK FOR INTEGRATED CLO	DUPLEX STEMS CIAL AND FINAL ER VING: UPTER PRESSION OUNTER OUNTER		E0.0ELECTRICAL SE0.1ELECTRICAL SE1.0BASEMENT FLE1.1FIRST FLOORE1.2SECOND FLOORE1.3THIRD FLOORE1.4FOURTH FLOOE1.5ROOF ELECTRE1.6ROOF ELECTRE1.7ROOF ELECTRE2.1ENLARGED PLE2.1ENLARGED PLE2.2ENLARGED PLE2.3ENLARGED PLE2.4ENLARGED PLE3.1ELECTRICAL SE3.2SCOREBOARDE3.3ELECTRICAL LE4.1ELECTRICAL LE4.2EQUIPMENT SE4.3PANEL SCHEIED1.5ROOF ELECTRED2.1ENLARGED BAED2.2ENLARGED FIIED2.3ENLARGED FIIED2.4ENLARGED FIIED2.4ENLARGED TH	SHE SYMBOLS AND ABE SYMBOLS OOR ELECTRICAL ELECTRICAL PLAN OR ELECTRICAL PLAN OR ELECTRICAL PLAN OR ELECTRICAL PLAN CRELECTRICAL PLAN CRELECTRICAL PLAN CRELECTRICAL PLAN CRELECTRICAL PLAN CRELECTRICAL PLAN CRELECTRICAL PLAN CRELECTRICAL PLAN ANS - LIGHTING ANS - LIGHTING ANS - LIGHTING ANS - POWER AI SINGLE LINE DIAGR DETAIL DETAIL DETAILS LIGHTING FIXTURE SCHEDULE DULES DULES RICAL DEMOLITION ASEMENT FLOOR ELECT ECOND FLOOR ELECT	ET INDEX REVIATIONS PLAN AN I AN ITING CALCULATIONS HTING CALCULATIONS CALCULATIONS CALCULATIONS ND LOW VOLTAGE ND LOW VOLTAGE AM SCHEDULE PLAN LECTRICAL DEMO PLAN RICAL DEMO PLAN RICAL DEMO PLAN RICAL DEMO PLAN		

NO		
PUBLIC BUILDING COMMISSI	Phicado	RUDIC SCHOOLS
CORD	OGAN, CLA ARCHITEC www.	ARK & ASSOCIATES INC. TS · ENGINEERS : cordoganclark.com C H I C A G O 716 NORTH WELLS STREET
AURORA, I TEL 6 FAX 6	LUNOIS 60506 30.896.4678 30.896.4987	CHICAGO, ILLINOIS 60654 TEL 312.943.7300 FAX 312.943.4771
		IATES, INC. NGINEERS
LAKE HIGH 4015 I CHICAG	VIEW SCHOOL NORTH ASHL	AND AVENUE 60613 6-46211-MCR
	R	EVISIONS
NO. - -	DATE 2016.04.19 2016.06.14	DESCRIPTION 30% SUBMITTAL
-	2017.02.14 2017.03.02	75% SUBMITTAL 100% SUBMITTAL
-	2017.03.07 2017.03.23	PERMIT SET PRELIMINARY OTB SET
	2017.04.04 2017.04.12	BID SET ADDENDUM #1
DRAWN SCALE:	I BY: DS NT	S
JOB: FILE:	EC	0.0
WARN BUILI BE P ASBES AVAIL REVIE MAY MATER A LIC CONTA DOCUM WITH HEAL	ING: A DING MATE RESENT II STOS MAI LABLE IN EW UPON DISTURB A STALS UNL CENSED A JCTS S AINED I MENTS A ILLINDI TH RULES	ASBESTOS-CONTAINING TRIALS ARE OR MAY N THIS BUILDING. AN NAGEMENT PLAN IS I THE SCHOOL FOR REQUEST. NO PERSON ASBESTOS-CONTAINING LESS THAT PERSON IS SBESTOS WORKER OR SUCH WORK IN ITH SPECIFICATION(S) IN THE PROJECT ND IN COMPLIANCE S DEPARTMENT OF AND REGULATIONS.
	SYME DR/	AWING NO.
	E	0.0

![](_page_69_Figure_0.jpeg)

SCALE: NONE

# RECEPTACLE/LIGHTING/EQUIPMENT BRANCH WIRE SIZING SCHEDULE

TABLES ARE BASED ON EVENLY DISTRIBUTIED LOAD ALLOWING A 3% VOLTAGE AT LAST OUTLET (APPLY ACCORDINGLY).

![](_page_69_Figure_4.jpeg)

	GENERAL NOTES	GENER
	<ol> <li>EXISTING FIRE ALARM DEVICES AND OTHER LOW VOLTAGE EQUIPMENT SHALL REMAIN IN ROOMS WITH ELECTRICAL EQUIPMENT BEING DEMOLISHED. CONTRACTOR SHALL PROTECT AND/OR RELOCATE DEVICES IF REQUIRED BY DEMOLITION SCOPE.</li> </ol>	22. COORDINATE WITH OTHER TRADES A DUCTS, OPENINGS AND OTHER STRU SCOPE.
	<ol> <li>IN AN AREA WHERE LIGHTING FIXTURES, UNIT HEATERS, MOTORS, ETC., ARE BEING REPLACED, DISCONNECT THE WIRING TO THE EXISTING EQUIPMENT, DEMOLISH THE FIXTURES AND EXTEND</li> </ol>	23. ALL BRANCH CIRCUITS MUST BE GE HOMERUNS. NOT MORE THAN 6 C
	NEW WIRING TO THE NEW EQUIPMENT, KEEPING THE EXISTING "HOME RUN" WIRING BACK TO THE PANELBOARD IF THE EXISTING WIRING IS OF SUITABLE CONDITION TO BE RE-USED. NOTE THAT EXISTING CLOTH WIRE IS NOT SUITABLE FOR RE-USE. IF THE EXISTING WIRING IS	24. SECURE AND PAY FOR ALL PERMITS FOR THE PROPER EXECUTION AND
	CLOTH INSULATED, THE CONTRACTOR SHALL NOT CONNECT TO IT, BUT ADVISE CPS OF THE DETAILS OF SUCH WIRING SO THAT PROPER ACTION OF TESTING AND DEMOLISHING IT CAN BE UNDERTAKEN. PROVIDE AN ALLOWANCE OF 2000 FEET OF CONDUIT AND UP TO 5 WIRES IN	25. PREPARE AND SUBMIT TO GOVERNM WHICH ARE REQUIRED BY THESE A
	THE CONDUIT FOR NEW HOME RUN WIRING. ALSO SUBMIT UNIT PRICES TO BE INCLUDED IN THE ELECTRICAL CONTRACT FOR # 12, #10 WIRE AND ¾ "CONDUIT.	26. NOTIFY THE ARCHITECT/ENGINEER O INADEQUATE, UNSUITABLE, OR IN VI OF AUTHORITIES HAVING JURISDICTIO
	<ul> <li>4. WIRE NEW EQUIPMENT TO PANELS AC-1S, AC-2N, AC-2S AND AC-3S. SEE PANEL SCHEDULES ON DRAWING F4.3</li> </ul>	27. ALL CUTTING, DRILLING, AND PATCH THE BUILDING MUST BE DONE IN C
	5. ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.	NO CONDITIONS MAY STRUCTURAL W ARCHITECT/ENGINEER OR THEIR RE
	6. THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK.	28. PROVIDE "AS-BUILT" DRAWINGS AND
	THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO	29. ALL MATERIAL, EQUIPMENT, WIRING INDICATED AS EXISTING TO BE REU
	BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, SPECIFICATIONS GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.	30. EXCEPT AS NOTED OTHERWISE, ALL DRAWINGS INCLUDING LABOR, EQUIF WITH THE BUILDING STANDARDS.
	7. THE CONTRACTOR SHALL CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO INSURE THAT NO FIXTURE, OUTLET, ALARM STATION OR CONTROL AND POWER WIRING IS OMITTED. THE CONTRACTOR SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA. IN SOME CASES EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING	31. PROVIDE CONDUIT FOR ALL LOW VO LIMITED TO, TEMPERATURE CONTROL SYSTEMS ETC. REVIEW THESE DRA COORDINATE WITH THEM BEFORE CO
	8. EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO ENSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE	32. WHERE THERE IS A CEILING REMOV ELECTRICAL EQUIPMENT LOCATED AN STRUCTURE. ARCHITECTURAL CEILIN AND/OR SUPPORT ELECTRICAL EQU
	9. COORDINATE WITH OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED	33. RECESS EXISTING SURFACE MOUNTE
	10. ALL LIGHTING FIXTURES ARE TO BE LOCATED AS REQUIRED ON THE JOB TO CLEAR DUCTS, PIPING, EQUIPMENT, AND/OR MECHANICAL UNITS. ALL WIRING SHALL BE ENCLOSED IN CONDUIT OR SURFACE METAL RACEWAY.	
	11. CONDUIT SHALL BE USED IN CONCEALED SPACES ONLY EXCEPT IN MECHANICAL AND ELECTRICAL SPACES. ALL OTHER SPACES SHALL USE SURFACE METAL RACEWAY. CONDUIT RUNS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC.	
	12. FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH CODE REQUIREMENTS.	
	13. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES WITH THE ARCHITECTURAL PLANS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL DETAILS, ELEVATIONS AND MILLWORK/CASEWORK DETAILS.	
	14. REMOVE ALL CABLING, CONDUIT AND DEVICES IN THE BUILDING THAT ARE NOT BEING REUSED. MAKE SUFFICIENT ALLOWANCE IN PRICING. NO CHANGE ORDERS WILL BE APPROVED FOR REMOVAL OF THESE ITEMS.	
	15. ALL WORK SHALL CONFORM TO THE CHICAGO ELECTRICAL CODE.	1. RE WORK OR RE ROUTE EXISTING REPLACED DEVICES.
	16. PROVIDE A COMPETE ELECTRICAL SYSTEM INCLUDING ALL NEW REQUIRED ELECTRICAL DEVICES, CONDUIT AND WIRING AS GENERALLY OUTLINED ON THE PLANS. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL MATERIALS AND WORK NORMALLY REQUIRED FOR A COMPLETE INSTALLATION AND SHOULD INCLUDE ALL ANTICIPATED COSTS IN HIS PRICING. IT IS REQUESTED THAT ANY SIGNIFICANT OMISSIONS, ADDITIONS OR DISCREPANCIES BE FULLY	2. CONTRACTORS PERFORMING DEMOLI BIDDING. PLANS MAY NOT INDICATE RELOCATION OF EQUIPMENT OR CO
CLE	IDENTIFIED WHEN A BID IS SUBMITTED. 17. EC IS REQUIRED TO VERIFY ALL FIELD CONDITIONS PRIOR TO PERFORMING ANY WORK. ANY DISCREPANCIES OR OTHER ASPECTS OF CONSTRUCTION NOT ANTICIPATED BY THESE PLANS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTING OFFICER.	3. REMOVAL OF ELECTRICAL EQUIPMEN CONDUIT SHALL BE REMOVED IN A REMOVED TO THE POINT OF ORIGIN AREA JUNCTION BOX TO MAINTAIN
	18. INSULATE AND SEAL CONDUIT PENETRATIONS BETWEEN SPACES AT DIFFERENT TEMPERATURES AND HUMIDITY LEVELS.	4. SHUTDOWNS AND SERVICE INTERRU APPROVED PRIOR TO WORK BEING
	19. MINIMUM BRANCH CIRCUIT WIRING SHALL BE SIZED FOR A MAXIMUM OF 5% VOLTAGE DROP TO THE END OF CIRCUIT.	5. FOR ITEMS TO BE DEMO'D, COORD
	FOR CLARITY NOT ALL JUNCTION BOXES, WHIP CONNECTIONS, FEEDERS, AND CABLES SHOWN ON THE DRAWINGS. FOR FEEDER SIZES REFER TO EQUIPMENT SCHEDULES. 20. EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO ENSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUEACTURER'S LISTING INSTRUCTIONS THE	6. SEE DRAWINGS OF OTHER DIVISION 7. EXISTING LOW VOLTAGE FIRE ALARM MAKE MINOR LOCATION ADJUSTMENT
Г.	<ul> <li>TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS SHALL BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.</li> <li>21. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. NO DIMENSIONS SHALL BE SCALED OFF ELECTRICAL DRAWINGS. CONTRACTOR SHALL CONSULT ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, MISCELLANEOUS DEVICES AND OUTLETS.</li> </ul>	8. SEE A3 SERIES DRAWINGS FOR QU SWITCHES.

# RAL NOTES (CONT.)

AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED IRUCTURAL FEATURES.

GROUPED INTO PHASE BALANCED MULTIPLE CIRCUIT CIRCUITS ARE ALLOWED IN ONE HOMERUN CONDUIT.

IITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY D COMPLETION OF THE ELECTRICAL WORK.

NMENTAL AGENCIES BY UTILITY COMPANIES SHOP DRAWINGS, AGENCIES, FOR THEIR APPROVAL.

OF ANY MATERIALS OR APPARATUS BELIEVED TO BE VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS TION.

CHING OF MASONRY STEEL OR IRON WORK BELONGING TO ORDER THAT WORK MAY BE PROPERLY INSTALLED. UNDER WORK BE CUT EXCEPT AT THE DIRECTION OF THE REPRESENTATIVE.

ND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER.

G DEVICES, ETC. SHALL BE NEW UNLESS SPECIFICALLY EUSED. USE EXISTING CONDUIT SYSTEM IF FOUND.

LL WORK REQUIRED FOR THE INSTALLATION AS SHOWN ON JIPMENT AND MATERIALS SHALL BE IN STRICT COMPLIANCE

VOLTAGE SYSTEMS INCLUDING BUT NOT OL, BUILDING AUTOMATION RAWINGS BEFORE BIDDING AND CONSTRUCTION.

OVAL/REPLACEMENT, CONTRACTOR SHALL EXAMINE ABOVE THE CEILING AND REATTACH THEM TO BUILDING LING GRIDS AND TILES SHALL NOT BE USED TO MOUNT QUIPMENT.

ITED CONDUIT IN TOILET RMS.

# DEMO NOTES

G CONDUIT, BOXES, ETC., AS REQUIRED FOR INSTALLATION OF NEW OR

DLITION ARE REQUIRED TO VERIFY FIELD CONDITIONS PRIOR TO TE EACH DEVICE TO BE REMOVED, OR INDICATE NECESSARY CONDUIT SYSTEMS.

ENT INCLUDES THE REMOVAL OF THE BRANCH CIRCUIT SERVING IT. ACCESSIBLE SPACES. DEDICATED CIRCUIT CONDUCTORS SHALL BE GIN. CONDUCTORS SERVING OTHER LOADS MAY BE REMOVED TO AN N CIRCUIT INTEGRITY.

RUPTIONS SHALL BE COORDINATED WITH CONTRACTING OFFICER AND BE

RDINATE WITH OWNER IF ITEMS ARE TO RETURNED TO OWNERS STOCK.

DISPOSED OF IN APROPER AND LAWFULL MANNER.

RM AND OTHER EQUIPMENT IN AREAS OF DEMOLITION SHALL REMAIN. ENTS AS NECESSARY.

QUANTITY OF LIGHT FIXTURE TO BE DEMOED. DEMO EXISTING LIGHT

z		s abook
COMMISSI		evolic Scriedis
SNIDING		
UBLIC BL		XYX
	OGAN, CL	ARK & ASSOCIATES INC
		TS · ENGINEERS : .cordoganclark.com
960 RIDG AURORA, I TEL 6 FAX 6	EWAY AVENUE LUNOIS 60506 30.896.4678 30.896.4987	716 NORTH WELLS STREET CHICAGO, ILLINOIS 60654 TEL 312.943.7300 FAX 312.943.4771
		ЪП
		NGINEERS
	PROVIDE AC	JR/EUR STAMP HERE
LAKE HIGH	view School	
4015	NORTH ASHI	LAND AVENUE
	O, ILLINOIS	60613
	NO. 201 ול	6-46211-MCR
	R Date	
-	2016.04.19	30% SUBMITTAL
-    -	2016.06.14 2017.02.14	60% SUBMITTAL 75% SUBMITTAL
-	2017.03.02	100% SUBMITTAL
-	2017.03.07	PRELIMINARY OTB SET
-	2017.04.04 2017.04.12	BID SET
	BY: חי	S
SCALE:	N	TS
JOB: FILE:	EC	0.0
WARN	ING:	ASBESTOS-CONTAINING
BE P	אחני MATI RESENT I STOS MA	LEIALS ARE UR MAY N THIS BUILDING, AN NAGEMENT PLAN IS
AVAII REVII	LABLE IN EW UPON	N THE SCHOOL FOR REQUEST NO PERSON
MAY MATER	RIALS UNL CENSED A	ASBESIUS-UUNIAINING LESS THAT PERSON IS SBESTOS WORKFR OR
	JCTS RDANCE W	SUCH WORK IN
	MENTS A ILLIND	IN THE PRUJECT ND IN COMPLIANCE IS DEPARTMENT OF
HEAL	TH RULES	AND REGULATIONS.
	ELE	CTRICAL
	SYME	BOLS LIST
	DR	AWING NO.
	DR	AWING NO.
	DR	awing no.

Date of Issue: April 19, 2017
PBC: Lake View High School Renovation Project_C1583 - Addendum No. 1

BASEMENT FL ROOM SCHDULE           ROOM         ROOM NAME           NO.         ROOM NAME           OODA         CORRIDOR           OODE         CORRIDOR           OOIT         FAN ROOM-7           OOIA         CORRIDOR           OOIS         STAIR-1           OO2         DRY STORAGE           O10A         STORAGE           O10B         DRY STORAGE           O10D         UNISEX TOILET           O10E         JANITOR CLOSET           O110E         JANITOR CLOSET           O110E         JANITOR CLOSET           O111         STORAGE           O112         FAN ROOM-5&6           O114         ELECTRICAL ROOM           O112         FAN ROOM-3           O12         FAN ROOM-3           O14         BOYS SHOWER ROOM           O168         BOYS SHOWER ROOM           O169         TEAM LOCKER ROOM           O		
ROOM         ROOM NAME           000A         CORRIDOR           000C         CORRIDOR           001         FAN ROOM-7           001A         CORRIDOR           001B         CORRIDOR           001C         CORRIDOR           001S         STAIR-1           002         DRY STORAGE           0101         LUNCHROOM           0102         DRY STORAGE           0103         STAIR-1           0020         DRY STORAGE           0105         DRY STORAGE           0106         DRY STORAGE           0107         UNISEX TOILET           0108         STAIR-2           011         STORAGE           0110         UNISEX TOILET           0105         STAIR-2           011         STORAGE           0114         ELECTRICAL ROOM           0125         FAN ROOM-5&6           014-0         VESTIBULE           0145         STAIR-3           016         BOYS DRYING AREA           0160         TEAM LOCKER ROOM           01615         STAIR-4           017         MECHANICAL ROOM           028         RECEIVI	BASEM	ENT FL ROOM SCHDULE
NO.         000A         CORRIDOR           000B         CORRIDOR           0001         FAN ROOM-7           001A         CORRIDOR           001B         CORRIDOR           001C         CORRIDOR           001S         STAIR-1           002D         DRY STORAGE           010L         LUNCHROOM           010A         STORAGE           010D         DRY STORAGE           010D         MOMEN STAFF TOILET           010E         JANITOR CLOSET           010F         UNISEX TOILET           010G         UNISEX TOILET           010G         UNISEX TOILET           010G         UNISEX TOILET           011A         ELECTRICAL ROOM           012FAN ROOM-5&6         0114-0           014-0         VESTIBULE           014-10         VESTIBULE           014-2         FAN ROOM-1           016         BOYS DRYING AREA           0160         TEAM LOCKER ROOM           0161         TEAM LOCKE	ROOM	ROOM NAME
000A         CORRIDOR           000B         CORRIDOR           001         FAN ROOM-7           001A         CORRIDOR           001E         CORRIDOR           001C         CORRIDOR           001C         CORRIDOR           001S         STAR-1           002         DRY STORAGE           010         LUNCHROOM           010A         STORAGE           010D         DRY STORAGE           010D         JANITOR CLOSET           010F         UNISEX TOILET           010G         UNISEX TOILET           010G         UNISEX TOILET           010G         STAIR-3           011A         ELECTRICAL ROOM           012         FAN ROOM-5&6           0140         VESTIBULE           014S         BOYS DRYING AREA           016E         BOYS DRYING AREA           016D         TEAM LOCKER ROOM           016B         BOYS DRYING AREA           <	NO.	
000A         CORRIDOR           000E         CORRIDOR           001         FAN RODM-7           001A         CORRIDOR           001B         CORRIDOR           001C         CORRIDOR           001S         STAIR-1           002         DRY STORAGE           010A         STORAGE           010B         DRY STORAGE           010C         DRY STORAGE           010D         DRY STORAGE           0101         JANITOR CLOSET           0101         JANITOR CLOSET           0101         TAN ROOM-5&           0111         ELECTRICAL ROOM           0121         FAN ROOM-3           0122		
0008         CORRIBOR           0001         FAN ROOM-7           001A         CORRIBOR           001E         CORRIBOR           0013         STAIR-1           002         DRY STORAGE           0101         LUNCHROOM           0102         DRY STORAGE           0103         STAIR-1           002         DRY STORAGE           0104         STORAGE           0105         DRY STORAGE           0106         DRY STORAGE           0100         DRY STORAGE           0101         WOMEN STAFF TOILET           0105         STAIR-2           0110         UNISEX TOILET           0105         STAIR-2           011         STORAGE           0114         ELECTRICAL ROOM           0121         FAN ROOM-5&6           014-0         VESTIBULE           0145         STAIR-3           016         BOYS LOCKER ROOM           01618         BOYS SHOWER ROOM           01619         TEAM LOCKER ROOM           01610         TEAM LOCKER ROOM           0162         FAN ROOM-3           023         MECHANICAL ROOM <td< td=""><td></td><td>CORRIDOR</td></td<>		CORRIDOR
0000         CORRIDOR           0011         FAN ROOM-7           0012         CORRIDOR           0013         STAIR-1           0020         DRY STORAGE           0101         LUNCHROOM           0102         DRY STORAGE           0103         STAIR-1           0020         DRY STORAGE           0101         LUNCHROOM           0102         DRY STORAGE           0103         STAIR-1           0104         DRY STORAGE           0105         DRY STORAGE           0100         DRY STORAGE           0101         WOMEN STAFF TOILET           0106         JANITOR CLOSET           0107         UNISEX TOILET           0108         STAIR-2           0111         STORAGE           0114         ELECTRICAL ROOM           012         FAN ROOM-5&6           014-0         VESTIBULE           0145         STAIR-3           016         BOYS SHOWER ROOM           0168         BOYS SHOWER ROOM           0160         TEAM LOCKER ROOM           01610         TEAM NOCAL ROOM           0220         SERVING <t< td=""><td>0008</td><td>CORRIDOR</td></t<>	0008	CORRIDOR
000         FAN ROOM-7           001A         CORRIDOR           001B         CORRIDOR           001C         CORRIDOR           001S         STAIR-1           002         DRY STORAGE           010A         STORAGE           010B         DRY STORAGE           010C         DRY STORAGE           010D         WOMEN STAFF TOILET           010E         JANITOR CLOSET           010F         UNISEX TOILET           010S         STAIR-2           011         STORAGE           0111         ELECTRICAL ROOM           012         FAN ROOM-5&6           014-0         VESTIBULE           0145         STAIR-3           016         BOYS LOCKER ROOM           0161         TEAM LOCKER ROOM           0161         TEAM LOCKER ROOM           0162         STAIR-4           017         MECHANICAL ROOM           0270         SERVING           02	0000	CORRIDOR
001         CORRIDOR           001         CORRIDOR           0012         CORRIDOR           0015         STAIR-1           002         DRY STORAGE           010         LUNCHROOM           010A         STORAGE           010D         DRY STORAGE           010D         DRY STORAGE           010D         DRY STORAGE           010D         DRY STORAGE           010D         JANITOR CLOSET           010F         UNISEX TOILET           010G         UNISEX TOILET           010G         UNISEX TOILET           010G         UNISEX TOILET           0118         ELECTRICAL ROOM           012         FAN ROOM-5&6           014-0         VESTIBULE           0145         STAIR-3           016         BOYS SHOWER ROOM           0168         BOYS SHOWER ROOM           0169         TEAM LOCKER ROOM           0160         TEAM LOCKER ROOM           01610         TEAM LOCKER ROOM           020         SERVING           0221         FAN ROOM-3           0220         STAIR-5           0217         POOL TANK	001	FAN ROOM-7
0018         CORRIBOR           0012         CORRIBOR           0013         STAIR-1           002         DRY STORAGE           0104         LUNCHROOM           0105         STORAGE           0106         DRY STORAGE           0107         DRY STORAGE           0108         DRY STORAGE           0100         DRY STORAGE           01010         DRY STORAGE           01010         JANITOR CLOSET           01017         FNA ROOM-SAGE           0110         UNISEX TOILET           0103         STAIR-2           011         STORAGE           0114         ELECTRICAL ROOM           0121         FAN ROOM-5&6           014-0         VESTIBULE           014-0         VESTIBULE           014-0         VESTIBULE           014-0         VESTIBULE           014-0         STAIR-3           016         BOYS DRYING AREA           01615         STAIR-4           017         MECHANICAL ROOM           01615         STAIR-5           017         MECHANICAL ROOM           0228         STAIR-5           0291	001A	
0010         CORRIDOR           0012         CORRIDOR           0013         STAIR-1           002         DRY STORAGE           0104         STORAGE           0105         DRY STORAGE           0100         JANITOR CLOSET           0101         WOMEN STAFF TOILET           0105         STAIR-2           0111         STORAGE           0112         FAN ROOM-5&6           0114         ELECTRICAL ROOM           012         FAN ROOM-5&6           0144         STAIR-3           016         BOYS SHOWER ROOM           0168         BOYS SHOWER ROOM           0169         TEAM LOCKER ROOM           0160         TEAM LOCKER ROOM           0161         TEAM LOCKER ROOM           0162         SERVING           023         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           0274         STAIR-5	001R	CORRIDOR
0015         STAIR-1           002         DRY STORAGE           010         LUNCHROOM           010A         STORAGE           010B         DRY STORAGE           010D         UNISEX TOILET           0105         STAIR-2           011         STORAGE           0111         STORAGE           0111         STORAGE           0111         STORAGE           0111         STORAGE           0111         STORAGE           0112         FAN ROOM-5&6           014-0         VESTIBULE           0145         STAIR-3           016         BOYS SHOWER ROOM           0168         BOYS SUPING AREA           0160         TEAM LOCKER ROOM           0162         STAIR-4           017         MECHANICAL ROOM           0203         SERVING           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           0275         STAIR-	0010	CORRIDOR
002         DRY STORAGE           010         LUNCHROOM           010A         STORAGE           010B         DRY STORAGE           010C         DRY STORAGE           010D         JANITOR CLOSET           010F         UNISEX TOILET           010S         STAIR-2           011         STORAGE           0114         ELECTRICAL ROOM           012         FAN ROOM-5&6           014-0         VESTIBULE           014S         STAIR-3           016         BOYS SHOWER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS SHOWER ROOM           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           020         SERVING           0221         POOL TANK           0222         STAIR-5           023         MECHANICAL ROOM           024         FAN ROOM-1	0015	STAIR-1
010         LUNCHROOM           010         LUNCHROOM           010A         STORAGE           010D         DRY STORAGE           010D         DRY STORAGE           010D         DRY STORAGE           010D         DRY STORAGE           010D         JANITOR CLOSET           010F         UNISEX TOILET           010G         UNISEX TOILET           010G         UNISEX TOILET           010G         UNISEX TOILET           011A         ELECTRICAL ROOM           011B         ELECTRICAL ROOM           0112         FAN ROOM-5&6           0114S         STAIR-3           016         BOYS DRYING AREA           0160         TEAM LOCKER ROOM           0161B         BOYS DRYING AREA           016C         BOYS TOILET ROOM           016B         BOYS DRYING AREA           016C         BOYS TOILET ROOM           016B         BOYS COKER ROOM           016B         BOYS TOILET ROOM           016C         BOYS TOILET ROOM           016C         CORRIDOR           0220         SERVING           0223         MECHANICAL ROOM           0275	002	
0104         STORAGE           0100         DRY STORAGE           0100         JANITOR CLOSET           0106         UNISEX TOILET           0105         STAIR-2           011         STORAGE           0114         ELECTRICAL ROOM           012         FAN ROOM-5&6           0144         STAIR-3           016         BOYS LOCKER ROOM           0163         BOYS SHOWER ROOM           0164         BOYS SHOWER ROOM           0165         STAIR-3           016         BOYS NOLKER ROOM           0161         TEAM LOCKER ROOM           0162         SERVING           020         SERVING           021         STAIR-4           017         MECHANICAL ROOM           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           0273         STAIR-5           0294         CUSTODIAL WORKROOM           0295         STAIR-6	010	
010B         DRY STORAGE           010C         DRY STORAGE           010D         DRY STORAGE           010D         DRY STORAGE           010D         DRY STORAGE           010D         JANITOR CLOSET           010F         UNISEX TOILET           010S         STAIR-2           011A         ELECTRICAL ROOM           012         FAN ROOM-5&6           014-0         VESTIBULE           014S         STAIR-3           016         BOYS SHOWER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS SHOWER ROOM           016C         BOYS TOILET ROOM           016B         BOYS SHOWER ROOM           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           016S         STAIR-4           017         MECHANICAL ROOM           0220         SERVING           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5           029B         RECEIVING           0292S         STAIR-6           0292B         RECEIVING </td <td>010A</td> <td>STORAGE</td>	010A	STORAGE
010C         DRY STORAGE           010D         DRY STORAGE           010D         DRY STORAGE           010D         JANITOR CLOSET           010F         UNISEX TOILET           010G         UNISEX TOILET           010G         UNISEX TOILET           010S         STAIR-2           011A         ELECTRICAL ROOM           011B         ELECTRICAL ROOM           012         FAN ROOM-5&6           014-0         VESTIBULE           0145         STAIR-3           016         BOYS LOCKER ROOM           0161A         BOYS SHOWER ROOM           0161B         BOYS DRYING AREA           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           016S         STAIR-4           017         MECHANICAL ROOM           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           0275         STAIR-5           0290         ENGINEER OFFICE           0293         CUSTODIAL WORKROOM           02925         STAIR-6           02926         ELEVATOR           0300         STAFF L	010B	DRY STORAGE
0100         DRY STORAGE           0100         DRY STORAGE           0101         WOMEN STAFF TOILET           0105         JANITOR CLOSET           0106         UNISEX TOILET           0107         UNISEX TOILET           0108         STAIR-2           0111         STORAGE           0114         ELECTRICAL ROOM           0118         ELECTRICAL ROOM           0118         STAIR-3           016         BOYS LOCKER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS SHOWER ROOM           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           016D         TEAM LOCKER ROOM           016D         TEAM LOCKER ROOM           016D         TEAM LOCKER ROOM           020         SERVING           0220         SERVING           0221         SERVING           0222         SERVING           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           0273         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL W	0100	
010D.1         WOMEN STAFF TOILET           010E         JANITOR CLOSET           010F         UNISEX TOILET           010G         UNISEX TOILET           010S         STAIR-2           011         STORAGE           0114         ELECTRICAL ROOM           0115         ELECTRICAL ROOM           0116         BOYS LOCKER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS NORTING AREA           016C         BOYS TOILET ROOM           016B         BOYS OTILET ROOM           016C         BOYS TOILET ROOM           016B         BOYS NORTING AREA           016C         STAIR-4           017         MECHANICAL ROOM           0220         SERVING           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           0275         STAIR-5           0290         ENGINEER OFFICE           0291         ENGINEER OFFICE	0100	DRY STORAGE
010E         JANITOR CLOSET           010F         UNISEX TOILET           010G         UNISEX TOILET           010S         STAIR-2           011         STORAGE           0114         ELECTRICAL ROOM           0118         ELECTRICAL ROOM           0118         ELECTRICAL ROOM           0114         STAIR-3           016         BOYS LOCKER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS NOLCKER ROOM           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           016S         STAIR-3           016C         BOYS TOILET ROOM           016S         STAIR-4           017         MECHANICAL ROOM           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           0292S         STAIR-6           0292E         ELEVATOR           030A         STAFF LOUNGE           030A         STORAGE           0311         STORAGE	010D.1	WOMEN STAFF TOILET
010F         UNISEX TOILET           010G         UNISEX TOILET           010S         STAIR-2           011         STORAGE           011A         ELECTRICAL ROOM           012         FAN ROOM-5&6           014-0         VESTIBULE           014S         STAIR-3           016         BOYS LOCKER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS NOLET ROOM           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           016D         TEAM LOCKER ROOM           016S         STAIR-4           017         MECHANICAL ROOM           020         SERVING           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029S         STAIR-6           029E         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           0311         STORAGE           0312         STORAGE	010E	JANITOR CLOSET
010G         UNISEX TOILET           010S         STAIR-2           011         STORAGE           011A         ELECTRICAL ROOM           011B         ELECTRICAL ROOM           011B         STAIR-3           016         BOYS LOCKER ROOM           016A         BOYS SHOWER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS TOILET ROOM           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           016S         STAIR-4           017         MECHANICAL ROOM           020         SERVING           021         SERVING           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029B         RECEIVING           029S         STAIR-6           029E         ELEVATOR           030A         STAFF LOUNGE           031A         STORAGE           031B         FAN ROOM-1           031C         STORAGE	010F	UNISEX TOILET
010S         STAIR-2           011         STORAGE           011A         ELECTRICAL ROOM           012         FAN ROOM-5&6           014-0         VESTIBULE           014S         STAIR-3           016         BOYS LOCKER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS DRYING AREA           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           016D         TEAM LOCKER ROOM           016D         TEAM LOCKER ROOM           016D         TEAM LOCKER ROOM           017         MECHANICAL ROOM           020         SERVING           021         SERVING           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029S         STAIR-6           029E         ELEVATOR           030A         STAFF LOUNGE           0310         STORAGE           0311         STORAGE           0312         STORAGE      <	010G	UNISEX TOILET
011         STORAGE           011A         ELECTRICAL ROOM           011B         ELECTRICAL ROOM           012         FAN ROOM-5&6           014-0         VESTIBULE           014S         STAIR-3           016         BOYS LOCKER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS OPYING AREA           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           020         SERVING           021         SERVING           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029E         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           0311         STORAGE           0312         STORAGE           0313         STORAGE     <	0105	STAIR-2
011A         ELECTRICAL ROOM           011B         ELECTRICAL ROOM           012         FAN ROOM-5&6           014-0         VESTIBULE           014S         STAIR-3           016         BOYS LOCKER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS ORYING AREA           016C         BOYS TOLET ROOM           016D         TEAM LOCKER ROOM           016S         STAIR-4           017         MECHANICAL ROOM           020         SERVING           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029B         RECEIVING           029S         STAIR-6           029E         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           031B         FAN ROOM-1           031C         STORAGE           031B         FAN ROOM-1           031C         STORAGE           031D         STORAGE	011	STORAGE
011B         ELECTRICAL ROOM           012         FAN ROOM-5&6           014-0         VESTIBULE           014S         STAIR-3           016         BOYS LOCKER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS DRYING AREA           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           016S         STAIR-4           017         MECHANICAL ROOM           020         SERVING           0223         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029B         RECEIVING           029S         STAIR-6           029E         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           031B         FAN ROOM-1           031C         STORAGE           031B         FAN ROOM-1           031C         STORAGE           0333         STORAGE           034         STORAGE           03	011A	ELECTRICAL ROOM
012         FAN ROOM-5&6           014-0         VESTIBULE           014S         STAIR-3           016         BOYS LOCKER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS DRYING AREA           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           016S         STAIR-4           017         MECHANICAL ROOM           CORRIDOR         020           SERVING         023           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029B         RECEIVING           029S         STAIR-6           029E         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           0311         STORAGE           0312         STORAGE           0313         STORAGE           0333         STORAGE           0333         STORAGE           0333         STORAGE           0333         STORAGE           0334         S	011B	ELECTRICAL ROOM
014-0         VESTIBULE           014S         STAIR-3           016         BOYS LOCKER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS DRYING AREA           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           016S         STAIR-4           017         MECHANICAL ROOM           020         SERVING           021         SERVING           022         SERVING           023         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029B         RECEIVING           0202S         STAIR-6           029E         ELEVATOR           030A         STAFF LOUNGE           031         STORAGE           0311         STORAGE           0312         STORAGE           0313         STORAGE           0323         STORAGE           0333         STORAGE           0334         STORAGE           0335	012	FAN ROOM-5&6
014S         STAIR-3           016         BOYS LOCKER ROOM           016A         BOYS SHOWER ROOM           016B         BOYS DRYING AREA           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           016S         STAIR-4           017         MECHANICAL ROOM           CORRIDOR         020           SERVING         023           020         SERVING           021         MECHANICAL ROOM           0224         FAN ROOM-3           027         POOL TANK           027A         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029E         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           031A         STORAGE           031B         FAN ROOM-1           031C         STORAGE           031B         FAN ROOM-1           031C         STORAGE           031B         FAN ROOM-1           031C         STORAGE           031D         STORAGE           032         STORAGE           033	014-0	VESTIBULE
016       BOYS LOCKER ROOM         016A       BOYS SHOWER ROOM         016B       BOYS DRYING AREA         016C       BOYS TOILET ROOM         016D       TEAM LOCKER ROOM         016S       STAIR-4         017       MECHANICAL ROOM         CORRIDOR       020         SERVING       023         020       SERVING         021       MECHANICAL ROOM         0223       MECHANICAL ROOM         024       FAN ROOM-3         027       POOL TANK         027A       STAIR-5         029       ENGINEER OFFICE         029A       CUSTODIAL WORKROOM         029B       RECEIVING         029S       STAIR-6         029E       ELEVATOR         030A       STAFF LOUNGE         030B       COOLERS         031A       STORAGE         031B       FAN ROOM-1         031C       STORAGE         031B       FAN ROOM-1         031C       STORAGE         032       STORAGE         033       STORAGE         034       STORAGE         0350       VESTIBULE	014S	STAIR-3
016A       BOYS SHOWER ROOM         016B       BOYS DRYING AREA         016C       BOYS TOILET ROOM         016D       TEAM LOCKER ROOM         016S       STAIR-4         017       MECHANICAL ROOM         020       SERVING         0213       MECHANICAL ROOM         0224       FAN ROOM-3         027       POOL TANK         027A       STAIR-5 CORRIDOR         027S       STAIR-5         029       ENGINEER OFFICE         029A       CUSTODIAL WORKROOM         029E       ELEVATOR         030A       STAFF LOUNGE         030B       COOLERS         031       STORAGE         031A       STORAGE         031B       FAN ROOM-1         031C       STORAGE         031B       STORAGE         031       STORAGE         032       STORAGE         033       STORAGE         034       STORAGE         035       STAIR-8         037       PLENUM CHAMBER         040A       STORAGE         040A       STORAGE         050       NATATORIUM         0	016	BOYS LOCKER ROOM
016B         BOYS DRYING AREA           016C         BOYS TOILET ROOM           016D         TEAM LOCKER ROOM           016S         STAIR-4           017         MECHANICAL ROOM           020         SERVING           021         SERVING           022         SERVING           023         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5 CORRIDOR           027S         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029E         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           031         STORAGE           0314         STORAGE           0315         STORAGE           0316         STORAGE           0317         PLENUM CHAMBER           0403         STORAGE           033         STORAGE           034         STORAGE           0355         STAIR-8           037         PLENUM CHAMBER           040A         STORAGE           040A         STO	_016A	BOYS SHOWER ROOM
016CBOYS TOILET ROOM016DTEAM LOCKER ROOM016SSTAIR-4017MECHANICAL ROOM020SERVING021MECHANICAL ROOM022SERVING023MECHANICAL ROOM024FAN ROOM-3027POOL TANK027ASTAIR-5 CORRIDOR027SSTAIR-5029ENGINEER OFFICE029ACUSTODIAL WORKROOM029BRECEIVING029CSTAIR-6029EELEVATOR030ASTAFF LOUNGE030BCOOLERS031STORAGE031ASTORAGE031BFAN ROOM-1031CSTORAGE032STORAGE033STORAGE034STORAGE035STAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060CGIRLS DRYING AREA060CGIRLS DRYING AREA060CGIRLS TOILET ROOM060BGIRLS TOILET ROOM060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080WEIGHT ROOM080WEIGHT ROOM080WEIGHT ROOM090ROTC STORAGE091BOILER092FAN ROOM-2093ROTC STORAGE094<	016B	BOYS DRYING AREA
016D       TEAM LOCKER ROOM         016S       STAIR-4         017       MECHANICAL ROOM         020       SERVING         021       MECHANICAL ROOM         022       SERVING         023       MECHANICAL ROOM         024       FAN ROOM-3         027       POOL TANK         027A       STAIR-5 CORRIDOR         027S       STAIR-5         029       ENGINEER OFFICE         029A       CUSTODIAL WORKROOM         029E       ELEVATOR         030A       STAFF LOUNGE         030B       COOLERS         031       STORAGE         0311       STORAGE         0312       STORAGE         0313       STORAGE         032       STORAGE         033       STORAGE         034       STORAGE         035       STAIR-8         037       PLENUM CHAMBER         040       KITCHEN         0403       STORAGE         0404       STORAGE         0505       NATATORIUM         0506       GIRLS DRYING AREA         0600       GIRLS DRYING AREA         0600 </td <td>016C</td> <td>BOYS TOILET ROOM</td>	016C	BOYS TOILET ROOM
016S         STAIR-4           017         MECHANICAL ROOM           020         SERVING           021         MECHANICAL ROOM           022         FAN ROOM-3           027         POOL TANK           027         STAIR-5 CORRIDOR           0275         STAIR-5           029         ENGINEER OFFICE           0294         CUSTODIAL WORKROOM           0295         STAIR-6           0292         STAIR-6           0292         STAIR-6           0292         STAIR-6           0292         STAIR-6           0292         STAIR-6           0295         STAIR-7           0300         STORAGE           031         STORAGE           031         STORAGE           031         STORAGE           032         STORAGE           033         STORAGE           034         STORAGE           035         STAIR-8           037         PLENUM CHAMBER           0400         KITCHEN           0404         STORAGE           0405         ORAGE           0406         GIRLS LOCKER ROOM	016D	TEAM LOCKER ROOM
017         MECHANICAL ROOM           CORRIDOR         020           021         SERVING           022         SERVING           023         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027         STAIR-5 CORRIDOR           0275         STAIR-5           029         ENGINEER OFFICE           0294         CUSTODIAL WORKROOM           0295         STAIR-6           0296         ELEVATOR           0300         STAFF LOUNGE           0301         STORAGE           0311         STORAGE           0312         STORAGE           0313         STORAGE           0310         STORAGE           032         STORAGE           033         STORAGE           034         STORAGE           035         STAIR-8           037         PLENUM CHAMBER           040         KITCHEN           0404         STORAGE           0405         ORATATORIUM           050A         CONS. EQUIP. STORAGE           060         GIRLS DCKER ROOM           060A         GIRLS DRYING A	016S	STAIR-4
CORRIDOR           020         SERVING           023         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5 CORRIDOR           027S         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029S         STAIR-6           029E         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           031A         STORAGE           031B         FAN ROOM-1           031C         STORAGE           031B         FAN ROOM-1           031C         STORAGE           031D         STORAGE           032         STORAGE           033         STORAGE           034         STORAGE           035-0         VESTIBULE           035S         STAIR-8           037         PLENUM CHAMBER           040         KITCHEN           0404         STORAGE           0505         NATATORIUM           0504         CONS. EQUIP. STORAGE           0605         GIRLS DRYING AREA <t< td=""><td>017</td><td>MECHANICAL ROOM</td></t<>	017	MECHANICAL ROOM
020         SERVING           023         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5 CORRIDOR           027S         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029E         RECEIVING           029S         STAIR-6           029E         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           031         STORAGE           031B         FAN ROOM-1           031C         STORAGE           031D         STORAGE           031D         STORAGE           032         STORAGE           033         STORAGE           034         STORAGE           035-0         VESTIBULE           035S         STAIR-8           037         PLENUM CHAMBER           040         KITCHEN           0403         CONS. EQUIP. STORAGE           0404         STORAGE           0505         NATATORIUM           0504         CONS. EQUIP. STORAGE           0605         GIRLS D		CORRIDOR
023         MECHANICAL ROOM           024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5 CORRIDOR           027S         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029B         RECEIVING           029C         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           031         STORAGE           031A         STORAGE           031B         FAN ROOM-1           031C         STORAGE           031D         STORAGE           032         STORAGE           033         STORAGE           034         STORAGE           035         STAIR-8           037         PLENUM CHAMBER           040         KITCHEN           040A         STORAGE           040         KITCHEN           040A         STORAGE           040         KITCHEN           040A         STORAGE           040         KITCHEN           040A         STORAGE           050         NATATORIUM	020	SERVING
024         FAN ROOM-3           027         POOL TANK           027A         STAIR-5 CORRIDOR           027S         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029B         RECEIVING           029S         STAIR-6           029E         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           031         STORAGE           031A         STORAGE           031B         FAN ROOM-1           031C         STORAGE           031D         STORAGE           032         STORAGE           033         STORAGE           034         STORAGE           035         STAIR-8           037         PLENUM CHAMBER           040         KITCHEN           040A         STORAGE           040B         OFFICE           050         NATATORIUM           050A         CONS. EQUIP. STORAGE           040B         GIRLS LOCKER ROOM           060C         GIRLS SHOWER ROOM           060A         GIRLS DRYING AREA           060C         GI	023	MECHANICAL ROOM
027POOL TANK027ASTAIR-5029ENGINEER OFFICE029ACUSTODIAL WORKROOM029BRECEIVING029CELEVATOR030ASTAFF LOUNGE030BCOOLERS031STORAGE031ASTORAGE031BFAN ROOM-1031CSTORAGE033STORAGE034STORAGE035STAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE040BGIRLS LOCKER ROOM060CGIRLS SHOWER ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM060D080WEIGHT ROOM090AROTC CLASSROOM090AROTC STORAGE091BOILER092FAN ROOM-2092FAN ROOM-2093STAIR-10094BOILER094BOILER094BOILER094BOILER094BOILER094BOILER094BOILER094BOILER094BOILER094BOILER095FAN ROOM-2094BOILER095FAN ROOM-2094BOILER095FAN ROOM-2094BOILER095FAN ROOM-2094BOILER095FAN	024	FAN ROOM-3
027ASTAIR-5CORRIDOR027SSTAIR-5029ENGINEER OFFICE029ACUSTODIAL WORKROOM029BRECEIVING029SSTAIR-6029EELEVATOR030ASTAFF LOUNGE030BCOOLERS031STORAGE031ASTORAGE031BFAN ROOM-1031CSTORAGE031DSTORAGE032STORAGE033STORAGE034STORAGE035STAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080080WEIGHT ROOM090AROTC CLASSROOM090AROTC STORAGE091ABOILER092FAN ROOM-2092FAN ROOM-2093FOLC STORAGE094BOILER092FAN ROOM-2093FAN ROOM-2094SOLER VESTIBULE092FAN ROOM-2093FAN ROOM-2094SOLER VESTIBULE094SOLER VESTIBULE094SOLER VESTIBULE094SOLER VESTIBULE094SOLER VESTIBULE <td>027</td> <td>POOL TANK</td>	027	POOL TANK
027S         STAIR-5           029         ENGINEER OFFICE           029A         CUSTODIAL WORKROOM           029B         RECEIVING           029S         STAIR-6           029E         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           031         STORAGE           0311A         STORAGE           0312         STORAGE           0313         STORAGE           0310         STORAGE           032         STORAGE           033         STORAGE           034         STORAGE           035-0         VESTIBULE           035S         STAIR-8           037         PLENUM CHAMBER           040         KITCHEN           0404         STORAGE           0405         OSTORAGE           040         KITCHEN           0404         STORAGE           0405         KITCHEN           0404         STORAGE           0405         NATATORIUM           050A         CONS. EQUIP. STORAGE           060         GIRLS LOCKER ROOM           060A         GIRLS SHOWER ROOM <td>027A</td> <td>STAIR-5 CORRIDOR</td>	027A	STAIR-5 CORRIDOR
029ENGINEER OFFICE029ACUSTODIAL WORKROOM029BRECEIVING029SSTAIR-6029EELEVATOR030ASTAFF LOUNGE030BCOOLERS031STORAGE031ASTORAGE031BFAN ROOM-1031CSTORAGE031DSTORAGE032STORAGE033STORAGE034STORAGE035-0VESTIBULE035SSTAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM060D080WEIGHT ROOM080WEIGHT ROOM080ORTC CLASSROOM090AROTC OFFICE090BROTC STORAGE091ABOILER092FAN ROOM-2091ABOILER VESTIBULE092FAN ROOM-2091ABOILER VESTIBULE092FAN ROOM-2091ABOILER VESTIBULE092FAN ROOM-2093SILER VESTIBULE094SILER VESTIBULE092FAN ROOM-2093SILER VESTIBULE094SOLER VESTIBULE095FAN ROOM	027S	STAIR-5
029ACUSTODIAL WORKROOM029BRECEIVING029SSTAIR-6029EELEVATOR030ASTAFF LOUNGE030BCOOLERS031STORAGE031ASTORAGE031BFAN ROOM-1031CSTORAGE031DSTORAGE032STORAGE033STORAGE034STORAGE035-0VESTIBULE035SSTAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080080WEIGHT ROOM080WEIGHT ROOM080OTC STORAGE090AROTC CLASSROOM090AROTC STORAGE091ABOILER091ABOILER VESTIBULE092FAN ROOM-2091ABOILER VESTIBULE092FAN ROOM-2093SULER093ANTO093ANTO093ANTO093ANTO093ANTO093ANTO094ANTO095ANTO096ANTO097ANTO093ANTO093<	029	ENGINEER OFFICE
029B         RECEIVING           029S         STAIR-6           029E         ELEVATOR           030A         STAFF LOUNGE           030B         COOLERS           031         STORAGE           031A         STORAGE           031B         FAN ROOM-1           031C         STORAGE           031D         STORAGE           032         STORAGE           033         STORAGE           034         STORAGE           035-0         VESTIBULE           035S         STAIR-8           037         PLENUM CHAMBER           040         KITCHEN           040A         STORAGE           040B         OFFICE           050         NATATORIUM           050A         CONS. EQUIP. STORAGE           040B         GIRLS LOCKER ROOM           060C         GIRLS DRYING AREA           060C         GIRLS DRYING AREA           060C         GIRLS TOILET ROOM           060D         LAUNDRY ROOM           070         STAFF & UNISEX           LOCKER ROOM         080           080S         STAIR-10           090A         ROT	029A	CUSTODIAL WORKROOM
029SSTAIR-6029EELEVATOR030ASTAFF LOUNGE030BCOOLERS031STORAGE031ASTORAGE031BFAN ROOM-1031CSTORAGE031DSTORAGE032STORAGE033STORAGE034STORAGE035-0VESTIBULE035SSTAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM060D080WEIGHT ROOM080WEIGHT ROOM080STAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE091BOILER092FAN ROOM-2092FAN ROOM-2093SOLER VESTIBULE094BOILER VESTIBULE095FAN ROOM-2030SOLER VESTIBULE092FAN ROOM-2030SOLER VESTIBULE092FAN ROOM-2030SOLER VESTIBULE030SOLER VESTIBULE030SOLER VESTIBULE030SOLER VESTIBULE030SOLER VESTIBULE030SOLER VESTIBULE031SOLER VESTIBULE <td>029B</td> <td>RECEIVING</td>	029B	RECEIVING
029EELEVATOR030ASTAFF LOUNGE030BCOOLERS031STORAGE031ASTORAGE031BFAN ROOM-1031CSTORAGE031DSTORAGE032STORAGE033STORAGE034STORAGE035-0VESTIBULE035SSTAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080WEIGHT ROOM080STAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE091BOILER092FAN ROOM-2091BOILER VESTIBULE092FAN ROOM-2093SOM-2094SOM-2095FAN ROOM-2096STAROM-2097STARAGE091BOILER VESTIBULE092FAN ROOM-2093SOM-2094SOM-2095SOM-2096SOM-2097SOM-2098SOM-20990SOM-2091SOM-2092SAN ROOM-2093SOM-2 </td <td>0295</td> <td>STAIR-6</td>	0295	STAIR-6
030ASTAFFLOUNGE030BCOOLERS031STORAGE031ASTORAGE031BFANROOM-1031CSTORAGE031DSTORAGE032STORAGE033STORAGE034STORAGE035-0VESTIBULE035SSTAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080080WEIGHT ROOM080WEIGHT ROOM090AROTC OFFICE090BROTC STORAGE091ABOILER092FAN ROOM-2091BOILER092FAN ROOM-2093SOM-2094SOM-2095STAROM-2095STAROM-2096SOM-2097SOM-2097SOM-2097SOM-2093SOM-2094SOM-2095SOM-2095SOM-2095SOM-2095SOM-2095SOM-2095SOM-2095SOM-2095SOM-2095SOM-2095SOM-2 <t< td=""><td>029E</td><td>ELEVATOR</td></t<>	029E	ELEVATOR
030BCOOLERS031STORAGE031ASTORAGE031BFAN ROOM-1031CSTORAGE031DSTORAGE032STORAGE033STORAGE034STORAGE035-0VESTIBULE035SSTAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080WEIGHT ROOM080STAIR-10090ROTC CLASSROOM090AROTC STORAGE091BOILER091BOILER091BOILER092FAN ROOM-2030STAROM-2	030A	STAFF LOUNGE
031STORAGE031ASTORAGE031BFAN ROOM-1031CSTORAGE031DSTORAGE032STORAGE033STORAGE034STORAGE035-0VESTIBULE0355STAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS TOILET ROOM060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080WEIGHT ROOM080ROTC CLASSROOM090AROTC STORAGE090BROTC STORAGE091BOILER091ABOILER <tr< td=""><td>030B</td><td>COOLERS</td></tr<>	030B	COOLERS
031ASTORAGE031BFAN ROOM-1031CSTORAGE031DSTORAGE032STORAGE033STORAGE034STORAGE035-0VESTIBULE035SSTAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080WEIGHT ROOM080STAIR-10090ROTC CLASSROOM090AROTC STORAGE091BOILER091BOILER092FAN ROOM-2030FAN ROOM-2031STAROM-2032STAN ROOM-2033STAROM-2034STORAGE035STAROM-2035STAROM-2035STAROM-2036STAROM-2037STORAGE0391SOLER030STORAGE031SOLER035STORAGE035STORAGE036STAROM-2037STORAGE038STORAGE0391SOLER0392STAROM-2034STORAGE035STAROM-2 <td>031</td> <td>STORAGE</td>	031	STORAGE
USTBFANRUUM-1031CSTORAGE031DSTORAGE032STORAGE033STORAGE034STORAGE035-0VESTIBULE035SSTAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080WEIGHT ROOM080-0VESTIBULE090BROTC CLASSROOM090AROTC STORAGE091BOILER092FAN ROOM-2092FAN ROOM-2	U31A	STURAGE
DOTCSTORAGE031DSTORAGE032STORAGE033STORAGE034STORAGE035-0VESTIBULE0355STAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080-0VESTIBULE080SSTAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE091BOILER092FAN ROOM-2092FAN ROOM-2093GILER VESTIBULE094SOILER VESTIBULE095GOLER091ABOILER VESTIBULE092FAN ROOM-2093GOLER VESTIBULE094GOLER VESTIBULE095GOLER094GOLER VESTIBULE095GOLER095GOLER095GOLER095GOLER095GOLER095GOLER095GOLER095GOLER095GOLER095GOLER095GOLER095GOLER095GOLER095GOLER095	0318	
OSIDSTORAGE032STORAGE033STORAGE034STORAGE035-0VESTIBULE035SSTAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060BGIRLS SHOWER ROOM060CGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080-0VESTIBULE080SSTAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE091BOILER092FAN ROOM-2092FAN ROOM-2093GILER VESTIBULE094BOILER091BOILER092FAN ROOM-2093GILER VESTIBULE094BOILER VESTIBULE095FAN ROOM-2095FAN ROOM-2 <t< td=""><td>0310</td><td>STORAGE</td></t<>	0310	STORAGE
0.02STORAGE033STORAGE034STORAGE035-0VESTIBULE035SSTAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080WEIGHT ROOM080STAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE091BOILER092FAN ROOM-2092FAN ROOM-2093SULER VESTIBULE094BOILER091BOILER092FAN ROOM-2093SULER094BOILER094BOILER095FAN ROOM-2095FAN		STORAGE
000STORAGE034STORAGE035-0VESTIBULE035SSTAIR-8037PLENUM CHAMBER040KITCHEN040ASTORAGE040BOFFICE050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080-0VESTIBULE080SSTAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE091BOILER091BOILER092FAN ROOM-2091IOLER VESTIBULE092FAN ROOM-2	032	
035-0       VESTIBULE         035S       STAIR-8         037       PLENUM CHAMBER         040       KITCHEN         040A       STORAGE         040B       OFFICE         050       NATATORIUM         050A       CONS. EQUIP. STORAGE         060       GIRLS LOCKER ROOM         060A       GIRLS SHOWER ROOM         060B       GIRLS DRYING AREA         060C       GIRLS TOILET ROOM         060D       LAUNDRY ROOM         070       STAFF & UNISEX         LOCKER ROOM       080         080       WEIGHT ROOM         080       WEIGHT ROOM         080       STAIR-10         090       ROTC CLASSROOM         090A       ROTC OFFICE         090B       ROTC STORAGE         091       BOILER         091A       BOILER VESTIBULE         092       FAN ROOM-2	033	STORACE
0355       STAIR-8         037       PLENUM CHAMBER         040       KITCHEN         040A       STORAGE         040B       OFFICE         050       NATATORIUM         050A       CONS. EQUIP. STORAGE         060       GIRLS LOCKER ROOM         060A       GIRLS SHOWER ROOM         060B       GIRLS DRYING AREA         060C       GIRLS TOILET ROOM         060D       LAUNDRY ROOM         070       STAFF & UNISEX         LOCKER ROOM       080         080       WEIGHT ROOM         080       WEIGHT ROOM         080       STAIR-10         090       ROTC CLASSROOM         090A       ROTC STORAGE         090B       ROTC STORAGE         091       BOILER         091       BOILER         092       FAN ROOM-2	034	
037       PLENUM CHAMBER         040       KITCHEN         040A       STORAGE         040B       OFFICE         050       NATATORIUM         050A       CONS. EQUIP. STORAGE         060       GIRLS LOCKER ROOM         060A       GIRLS SHOWER ROOM         060B       GIRLS DRYING AREA         060C       GIRLS TOILET ROOM         060D       LAUNDRY ROOM         070       STAFF & UNISEX         LOCKER ROOM       080         080       WEIGHT ROOM         080       WEIGHT ROOM         080       STAIR-10         090       ROTC CLASSROOM         090A       ROTC STORAGE         091A       BOILER         092       FAN ROOM-2	035-0	STAIR-8
040       KITCHEN         040A       STORAGE         040B       OFFICE         050       NATATORIUM         050A       CONS. EQUIP. STORAGE         060       GIRLS LOCKER ROOM         060A       GIRLS SHOWER ROOM         060B       GIRLS DRYING AREA         060C       GIRLS TOILET ROOM         060D       LAUNDRY ROOM         070       STAFF & UNISEX         LOCKER ROOM       080         080       WEIGHT ROOM         080       STAIR-10         090       ROTC CLASSROOM         090A       ROTC OFFICE         090B       ROTC STORAGE         091       BOILER         091       BOILER         092       FAN ROOM-2	0.37	PLENUM CHAMBER
040A       STORAGE         040B       OFFICE         050       NATATORIUM         050A       CONS. EQUIP. STORAGE         060       GIRLS LOCKER ROOM         060A       GIRLS SHOWER ROOM         060B       GIRLS DRYING AREA         060C       GIRLS TOILET ROOM         060D       LAUNDRY ROOM         070       STAFF & UNISEX         LOCKER ROOM         080       WEIGHT ROOM         080       WEIGHT ROOM         080       STAIR-10         090       ROTC CLASSROOM         090A       ROTC OFFICE         090B       ROTC STORAGE         091A       BOILER         091A       BOILER VESTIBULE         092       FAN ROOM-2	040	KITCHEN
040B       OFFICE         050       NATATORIUM         050A       CONS. EQUIP. STORAGE         060       GIRLS LOCKER ROOM         060A       GIRLS SHOWER ROOM         060B       GIRLS DRYING AREA         060C       GIRLS TOILET ROOM         060D       LAUNDRY ROOM         060D       LAUNDRY ROOM         060D       LAUNDRY ROOM         070       STAFF & UNISEX         LOCKER ROOM       080         080       WEIGHT ROOM         080       WEIGHT ROOM         080       VESTIBULE         080S       STAIR-10         090       ROTC CLASSROOM         090A       ROTC OFFICE         090B       ROTC STORAGE         091       BOILER         091       BOILER         092       FAN ROOM-2	040A	STORAGE
050NATATORIUM050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080-0VESTIBULE080SSTAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE091BOILER092FAN ROOM-2092FAN ROOM-2093Inter vestibule094Inter vestibule095Inter vestibule096Inter vestibule097Inter vestibule097 <td>040B</td> <td>OFFICE</td>	040B	OFFICE
050ACONS. EQUIP. STORAGE060GIRLS LOCKER ROOM060AGIRLS SHOWER ROOM060BGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080-0VESTIBULE080SSTAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE091BOILER092FAN ROOM-2092FAN ROOM-2093GILER VESTIBULE094GILER VESTIBULE095GILER VESTIBULE091GILER091GILER VESTIBULE092FAN ROOM-2093GILER VESTIBULE094GILER VESTIBULE095GILER VESTIBUE095GILER VESTIBUE </td <td>050</td> <td>NATATORIUM</td>	050	NATATORIUM
060       GIRLS LOCKER ROOM         060A       GIRLS SHOWER ROOM         060B       GIRLS DRYING AREA         060C       GIRLS TOILET ROOM         060D       LAUNDRY ROOM         060D       LAUNDRY ROOM         070       STAFF & UNISEX         LOCKER ROOM         080       WEIGHT ROOM         080       WEIGHT ROOM         080       VESTIBULE         080S       STAIR-10         090       ROTC CLASSROOM         090A       ROTC OFFICE         090B       ROTC STORAGE         091       BOILER         092       FAN ROOM-2	050A	CONS. EQUIP. STORAGE
060AGIRLSSHOWERROOM060BGIRLSDRYINGAREA060CGIRLSTOILETROOM060DLAUNDRYROOM070STAFF& UNISEXLOCKERROOM080WEIGHTROOM080-0VESTIBULE080SSTAIR-10090ROTCCLASSROOM090AROTCOFFICE090BROTCSTORAGE091BOILER091BOILER092FAN092FAN093GUER094GUER095GUER091GUER091GUER092FAN093GUER094GUER095GUER096GUER097GUER091GUER091GUER092GUER093GUER094GUER095GUER095GUER096GUER097GUER091GUER092GUER093GUER094GUER095GUER096GUER097GUER098GUER0990GUER090GUER091GUER091GUER091GUER091GUER091GUER091GUER091GUER091GUER <td>060</td> <td>GIRLS LOCKER ROOM</td>	060	GIRLS LOCKER ROOM
060BGIRLS DRYING AREA060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080-0VESTIBULE080SSTAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE091BOILER092FAN ROOM-2092FAN ROOM-2	060A	GIRLS SHOWER ROOM
060CGIRLS TOILET ROOM060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080-0VESTIBULE080SSTAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE091BOILER091ABOILER VESTIBULE092FAN ROOM-2	060B	GIRLS DRYING AREA
060DLAUNDRY ROOM070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080-0VESTIBULE080SSTAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE090CROTC STORAGE091BOILER092FAN ROOM-2092FAN ROOM-2	060C	GIRLS TOILET ROOM
070STAFF & UNISEXLOCKER ROOM080WEIGHT ROOM080-0VESTIBULE080SSTAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE090CROTC STORAGE091BOILER091ABOILER VESTIBULE092FAN ROOM-2	060D	LAUNDRY ROOM
LOCKER ROOM 080 WEIGHT ROOM 080-0 VESTIBULE 080S STAIR-10 090 ROTC CLASSROOM 090A ROTC OFFICE 090B ROTC STORAGE 090C ROTC STORAGE 091 BOILER 091A BOILER VESTIBULE 092 FAN ROOM-2 	070	STAFF & UNISEX
080WEIGHT ROOM080-0VESTIBULE080SSTAIR-10090ROTC CLASSROOM090AROTC OFFICE090BROTC STORAGE090CROTC STORAGE091BOILER091ABOILER VESTIBULE092FAN ROOM-2091Image: Comparison of the second se		LOCKER ROOM
080-0       VESTIBULE         080S       STAIR-10         090       ROTC CLASSROOM         090A       ROTC OFFICE         090B       ROTC STORAGE         090C       ROTC STORAGE         091       BOILER         092       FAN ROOM-2	080	WEIGHT ROOM
080S       STAIR-10         090       ROTC CLASSROOM         090A       ROTC OFFICE         090B       ROTC STORAGE         090C       ROTC STORAGE         091       BOILER         091A       BOILER VESTIBULE         092       FAN ROOM-2	080-0	VESTIBULE
090       ROTC CLASSROOM         090A       ROTC OFFICE         090B       ROTC STORAGE         090C       ROTC STORAGE         091       BOILER         091A       BOILER VESTIBULE         092       FAN ROOM-2	0805	STAIR-10
090A       ROTC OFFICE         090B       ROTC STORAGE         090C       ROTC STORAGE         091       BOILER         091A       BOILER VESTIBULE         092       FAN ROOM-2	090	ROTC CLASSROOM
090B       ROTC STORAGE         090C       ROTC STORAGE         091       BOILER         091A       BOILER VESTIBULE         092       FAN ROOM-2	090A	ROTC OFFICE
090C ROTC STORAGE 091 BOILER 091A BOILER VESTIBULE 092 FAN ROOM-2 	090B	ROTC STORAGE
091       BOILER         091A       BOILER VESTIBULE         092       FAN ROOM-2	0900	ROTC STORAGE
091A BOILER VESTIBULE 092 FAN ROOM-2	1 001	BOILER
092 FAN ROOM-2	091	
	091 091A	BOILER VESTIBULE
	091 091A 092	BOILER VESTIBULE FAN ROOM-2
	091 091A 092	BOILER VESTIBULE FAN ROOM-2
	091 091A 092	BOILER VESTIBULE FAN ROOM-2
	091A 092	BOILER VESTIBULE FAN ROOM-2
	091 091A 092	BOILER VESTIBULE FAN ROOM-2
	091A 092	BOILER VESTIBULE FAN ROOM-2
	091A 092	BOILER VESTIBULE FAN ROOM-2
	091A 092	BOILER VESTIBULE FAN ROOM-2

![](_page_70_Figure_2.jpeg)

1/16'' = 1'-0''

![](_page_70_Picture_5.jpeg)

#### NOTES:

1. PROVIDE A PUBLIC ADDRESS SYSTEM IN THE CAFETERIA, ROOM # 010. SYSTEM TO INCLUDE HEAD END EQUIPMENT, MIC JACK, MICROPHONE, AUX INPUTS, AND VOLUME CONTROL (LOCATED AT COLUMN G-4). PROVIDE 120 VOLT POWER. PROVIDE 4 SPEAKERS. SYSTEM TO BE PROVIDED COMPLETE.

2. PROVIDE THE FOLLOWING IN THE CAFETERIA, ROOM # 010. PROVIDE 120 VOLT POWER AT THE CEILING LINE FOR A PROJECTOR AND A MOTORIZED SCREEN. SYSTEM TO BE PROVIDED COMPLETE. PROVIDE HDMI CABLE IN 3/4"C FROM PROJECTOR TO NEW LOW VOLTAGE OUTLET LOCATED ON COLUMN 5-E. 

3. DISCONNECT AND RECONNECT 2 FEED PUMPS. PUMPS REFURBISHED BY OTHERS.

4. PROVIDE NEW CIRCUIT BREAKER, STARTER, LOCAL DISCONNECT AND WIRING TO NEW FEED PUMP.

5. LOCATION OF PUBLIC ADDRESS SYSTEM CABINETS AND ALL OUTLETS

6. SPEAKERS TO BE WALL MOUNTED WITH CONCEALED SUPPORT BRACKETS.

7. REWORK EXISTING EQUIPMENT ON NEW COLUMN ENCLOSURE. LOCATION FOR MICROPHONE OUTLETS.

8. DEMOLISH RECEPTACLES CONDUIT AND WIRING. 9. DEMOLISH AND PROVIDE 2 LTG FIXTURES IN VESTIBULE.

10. PROVIDE 120V CCT FOR PROJECTOR SCREEN.

11. DOOR #10: RE-WORK POWER FOR LIGHTING AT SWISS CHALET ENTRY (SHEET A0.2)

12. DOOR #10: EXTERIOR: REPLACE WALL-PACKS AT DOOR #10 CANOPY DEMOLITION (SHEET A0.2)

PROPO	SED
FIRST	FLOOR ROOM SCHDULE
NO.	ROOM NAME
100	MAIN OFFICE
100A	TOILET
100B	TOILET
100C	STAFF & UNISEX TOILET
100D	WOMEN STAFE TOULET
100E	TOILET
100G	TOILET
1001	GIRL'S STUDENT TOILET
100J	STAFF TOILET
100K	CORRIDOR
100L	CORRIDOR
100N	CORRIDOR
100S1	MAIN ENTRY STAIR
100S2	STAIR-7
101A	VESTIBULE
101 0	STAIR-2
102	IT STEM SUPPORT
102A	TEACHER OFFICE
102B	CLASSROOM STORAGE
102E	CLASSROOM STORAGE
103	GIRL'S LUCKER RUUM
103A	STAFE AND UNISEX
103C	STAFF & UNISEX TOILET
103D	CORRIDOR
1035	STAIR-9
105	GAMING ROOM
105-0	VESTIBULE
1055	
109	SPECIAL EDUCATION
	OFFICE
112	COUNSELOR OFFICE
112A	COUNSELOR RECEPTION
112B	STORAGE
112B.1	STORAGE
113	OFFICE
115 115B	CLASSBOOM STORAGE
116	MAIN GYMNASIUM
116A	PE STORAGE
116A 116B	PE STORAGE PE OFFICE
116A 116B 116C	PE STORAGE PE OFFICE PE STORAGE
116A 116B 116C 116-0	PE STORAGE PE OFFICE PE STORAGE VESTIBULE
116A 116B 116C 116-0 116S	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4
116A 116B 116C 116-0 116S 116S1 117	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM
116A 116B 116C 116-0 116S 116S1 117 117-0	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE
116A 116B 116C 116-0 116S 116S1 117 117-0 117S	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3
116A 116B 116C 116-0 116S 116S1 117 117-0 117S 119	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB
116A 116B 116C 116-0 116S 116S1 117 117-0 117S 119 120	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM
116A 116B 116C 116-0 116S 116S1 117 117-0 117S 119 120 120S	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM STAIR-5
116A 116B 116C 116-0 116S 116S1 117 117-0 117S 119 120 120S 121	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM STAIR-5 CLASSROOM
116A 116B 116C 116-0 116S 116S1 117 117-0 117S 119 120 120S 121 122 122B	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM STAIR-5 CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE
116A 116B 116C 116-0 116S 116S1 117 117-0 117S 119 120 120S 121 122 122B 123	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM STAIR-5 CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM
116A 116B 116C 116-0 116S 116S1 117 117-0 117S 119 120 120S 121 122 122B 123 124	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM LEVEL 2 BIOLOGY LAB SCIENCE STORAGE CLASSROOM
116A         116B         116C         116-0         116S         116S1         117         117-0         1175         119         120         120S         121         122         122B         123         124         125	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM STAIR-5 CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM PREP ROOM CLASSROOM
116A         116B         116C         116-0         116S         116S1         117         117-0         1175         119         120         120S         121         122         122B         123         124         125         126	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM STAIR-5 CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM PREP ROOM CLASSROOM PREP ROOM
116A         116B         116C         116C         116S         116S1         117         117-0         1178         119         120         120S         121         122         122B         123         124         125         126         126A	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM STAIR-5 CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM PREP ROOM CLASSROOM PREP ROOM
116A         116B         116C         116C         116S         116S1         117         117-0         1178         117         117-0         1178         119         120         120S         121         122         122B         123         124         125         126         126A         127         1274	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM STAIR-5 CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM PREP ROOM CLASSROOM PREP ROOM CLASSROOM PREP ROOM STAIR-5 SCIENCE STORAGE
116A         116B         116C         116C         116S         116S         116S         116S         117         117-0         1177         117-0         1175         119         120         120S         121         122         122B         123         124         125         126         126A         127         127A         128	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM STAIR-5 CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM LEVEL 1 CHEM LAB SCIENCE STORAGE CLASSROOM PREP ROOM CLASSROOM PREP ROOM CLASSROOM STORAGE STORAGE STORAGE
116A         116B         116C         116C         116S         116S         116S         116S         117         117-0         117         117-0         117S         119         120         120S         121         122         122B         123         124         125         126         126A         127         127A         128         128E	PE STORAGE         PE OFFICE         PE STORAGE         VESTIBULE         STAIR-4         STAIR-10         PREP ROOM         VESTIBULE         STAIR-3         LEVEL 2 BIOLOGY LAB         CLASSROOM         SCIENCE STORAGE         CLASSROOM         SCIENCE STORAGE         CLASSROOM         LEVEL 1 BIO LAB         SCIENCE STORAGE         CLASSROOM         CLASSROOM         SCIENCE STORAGE         OM         CLASSROOM         SCIENCE STORAGE         OM         SCIENCE STORAGE         STORAGE         STORAGE         STUDENT SERVICE         ELEVATOR
116A         116B         116C         116C         116         116         116         116         116         116         117         117         117         117         117         117         117         117         117         120         120         120         120         120         121         122         122         123         124         125         126         126A         127         127A         128         128E         128E	PE STORAGE         PE OFFICE         PE STORAGE         VESTIBULE         STAIR-4         STAIR-10         PREP ROOM         VESTIBULE         STAIR-3         LEVEL 2 BIOLOGY LAB         CLASSROOM         SCIENCE STORAGE         CLASSROOM         SCIENCE STORAGE         CLASSROOM         PREP ROOM         CLASSROOM         LEVEL 1 BIO LAB         SCIENCE STORAGE         CLASSROOM         LEVEL 1 CHEM LAB         SCIENCE STORAGE ROOM         OFFICE         STORAGE         STUDENT SERVICE         ELEVATOR         STAIR-6
116A         116B         116C         116C         116S         116S         116S         117         117         117         117         117         117         117         117         117         117         120         120S         121         122         122B         122B         123         124         125         126         127         127A         128         128E         128S         129	PE STORAGE         PE OFFICE         PE STORAGE         VESTIBULE         STAIR-4         STAIR-10         PREP ROOM         VESTIBULE         STAIR-3         LEVEL 2 BIOLOGY LAB         CLASSROOM         SCIENCE STORAGE         CLASSROOM         SCIENCE STORAGE         CLASSROOM         PREP ROOM         CLASSROOM         LEVEL 1 BIO LAB         SCIENCE STORAGE         CLASSROOM         PREP ROOM         CLASSROOM         SCIENCE STORAGE         SCIENCE STORAGE ROOM         OFFICE         STORAGE         STUDENT SERVICE         ELEVATOR         STAIR-6         CLASSROOM
116A         116B         116C         116C         116S         116S         116S         1170         1177         11770         11770         11770         11720         120         120         120         120         120         120         120         120         121         122         122B         123         124         125         126         127         126A         127         127A         128         128         128         129         135	PE STORAGE         PE OFFICE         PE STORAGE         VESTIBULE         STAIR-4         STAIR-10         PREP ROOM         VESTIBULE         STAIR-3         LEVEL 2 BIOLOGY LAB         CLASSROOM         STAIR-5         CLASSROOM         LEVEL 2 BIO LAB         SCIENCE STORAGE         CLASSROOM         LEVEL 1 CHEM LAB         SCIENCE STORAGE ROOM         OFFICE         STORAGE         STORAGE         STUDENT SERVICE         ELEVATOR         STAIR-6         CLASSROOM
116A         116B         116C         116C         116S         116S         116S         117         117         117         117         117         117         117         117         117         117         120         120         120         120         120         120         121         122         123         124         125         126         127         126A         127         127A         128         128         128         128         129         136         136	PE STORAGE         PE OFFICE         PE STORAGE         VESTIBULE         STAIR-4         STAIR-10         PREP ROOM         VESTIBULE         STAIR-3         LEVEL 2 BIOLOGY LAB         CLASSROOM         STAIR-5         CLASSROOM         SCIENCE STORAGE         CLASSROOM         PREP ROOM         VESTIBULE         STAIR-5         CLASSROOM         LEVEL 2 BIO LAB         SCIENCE STORAGE         CLASSROOM         PREP ROOM         CLASSROOM         PREP ROOM         SCIENCE STORAGE         STORAGE         STORAGE         STORAGE         STUDENT SERVICE         ELEVATOR         STAIR-6         CLASSROOM         COPYWORK ROOM         PRINCIPAL OFFICE
116A         116B         116C         116C         116C         116C         116S         116S         116S         117         117         117         117         117         117         117         117         117         120         120         120         120         120         120         120         121         122         123         124         125         126         127A         128         128         128         128         128         129         136         136A         137	PE STORAGE         PE OFFICE         PE STORAGE         VESTIBULE         STAIR-4         STAIR-10         PREP ROOM         VESTIBULE         STAIR-3         LEVEL 2 BIOLOGY LAB         CLASSROOM         STAIR-5         CLASSROOM         SCIENCE STORAGE         CLASSROOM         PREP ROOM         CLASSROOM         LEVEL 2 BIO LAB         SCIENCE STORAGE         CLASSROOM         LEVEL 1 CHEM LAB         SCIENCE STORAGE ROOM         OFFICE         STORAGE         STUDENT SERVICE         ELEVATOR         STAIR-6         CLASSROOM         PRINCIPAL OFFICE         STAIR-6         CLASSROOM
116A         116B         116C         116C         116C         116C         116S         116S         116S         117         117         117         117         117         117         117         117         117         117         120         120         120         120         120         120         121         122         123         124         125         126         127A         128         128         128         128         128         128         129         136         136A         137         137A	PE STORAGE           PE OFFICE           PE STORAGE           VESTIBULE           STAIR-4           STAIR-10           PREP ROOM           VESTIBULE           STAIR-3           LEVEL 2 BIOLOGY LAB           CLASSROOM           STAIR-5           CLASSROOM           SCIENCE STORAGE           CLASSROOM           PREP ROOM           CLASSROOM           SCIENCE STORAGE           CLASSROOM           PREP ROOM           SCIENCE STORAGE ROOM           OFFICE           STORAGE           STUDENT SERVICE           ELEVATOR           STAIR-6           CLASSROOM           COPYWORK ROOM           PRINCIPAL OFFICE           STORAGE           AUDITORIUM HOUSE           AUDITORIUM STAGE
116A         116B         116C         116C         116C         116C         116S         116S         116S         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         120         121         122         122         121         122         122         122         123         124         125         126         127A         128         128         128         129         136         136         137A         137B	PE STORAGE           PE OFFICE           PE STORAGE           VESTIBULE           STAIR-4           STAIR-10           PREP ROOM           VESTIBULE           STAIR-3           LEVEL 2 BIOLOGY LAB           CLASSROOM           STAIR-5           CLASSROOM           SCIENCE STORAGE           CLASSROOM           PREP ROOM           CLASSROOM           SCIENCE STORAGE           CLASSROOM           PREP ROOM           CLASSROOM           PREP ROOM           GLASSROOM           STORAGE           STORAGE           STORAGE           STAIR-6           CLASSROOM           PRINCIPAL OFFICE           STORAGE           AUDITORIUM HOUSE           AUDITORIUM SUPPORT
116A         116B         116C         116C         116C         116C         116S         116S         117         117         117         117         117         117         117         117         117         117         120         120S         121         122         122B         123         124         125         126         127         127A         128         128         128         128         128         129         135         136         137A         137A         137S1	PE STORAGE           PE OFFICE           PE STORAGE           VESTIBULE           STAIR-4           STAIR-10           PREP ROOM           VESTIBULE           STAIR-3           LEVEL 2 BIOLOGY LAB           CLASSROOM           SCIENCE STORAGE           CLASSROOM           LEVEL 2 BIO LAB           SCIENCE STORAGE           CLASSROOM           LEVEL 1 CHEM LAB           SCIENCE STORAGE ROOM           CLASSROOM           LEVEL 1 CHEM LAB           SCIENCE STORAGE ROOM           OFFICE           STORAGE           STUDENT SERVICE           ELEVATOR           STAIR-6           CLASSROOM           CLASSROOM           OFFICE           STORAGE           STUDENT SERVICE           ELEVATOR           STAIR-6           CLASSROOM           COPYWORK ROOM           PRINCIPAL OFFICE           STORAGE           AUDITORIUM HOUSE           AUDITORIUM SUPPORT           STAIR-8
116A         116B         116C         116C         116C         116C         116S         116S         116S         117         117         117         117         117         117         117         117         117         117         117         120         120         120         121         122         123         124         125         126         127         127A         128         127         127A         128         128         128         129         136         136A         137A         137A         1378         1378	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM STAIR-5 CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM CDFICE STORAGE STORAGE STORAGE STORAGE STORAGE STORAGE STORAGE STORAGE STORAGE STORAGE AUDITORIUM SUPPORT STAIR-8 ASSISTANT PRINCIPAL
116A         116B         116C         116C         116C         116C         116S         116S         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         120         121         122         122         123         124         125         126         127A         128         128         128         128         128         129         136         137A         137A         137S1         138A	PE STORAGE         PE OFFICE         PE STORAGE         VESTIBULE         STAIR-4         STAIR-10         PREP ROOM         VESTIBULE         STAIR-3         LEVEL 2 BIOLOGY LAB         CLASSROOM         STAIR-5         CLASSROOM         SCIENCE STORAGE         OLASSROOM         PREP ROOM         CLASSROOM         SCIENCE STORAGE         OLASSROOM         PREP ROOM         CLASSROOM         PREP ROOM         CLASSROOM         PREP ROOM         SCIENCE STORAGE ROOM         OFFICE         STORAGE         STUDENT SERVICE         STUDENT SERVICE         ELEVATOR         STAIR-6         CLASSROOM         OPTINCIPAL OFFICE         STORAGE         AUDITORIUM HOUSE         AUDITORIUM SUPPORT         AUDITORIUM SUPPORT         STAIR-8         ASSISTANT PRINCIPAL
116A         116B         116C         116C         116C         116C         116S         116S         116S         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         120         121         122         122         123         124         125         126         127         127A         128         128         129         135         136         137A         137A         1378         1378         138B         138B	PE STORAGE         PE OFFICE         PE STORAGE         VESTIBULE         STAIR-4         STAIR-10         PREP ROOM         VESTIBULE         STAIR-3         LEVEL 2 BIOLOGY LAB         CLASSROOM         STAIR-5         CLASSROOM         LEVEL 2 BIO LAB         SCIENCE STORAGE         CLASSROOM         LEVEL 1 CHEM LAB         SCIENCE STORAGE ROOM         PREP ROOM         CLASSROOM         LEVEL 1 CHEM LAB         SCIENCE STORAGE ROOM         OFFICE         STORAGE         STORAGE         STORAGE         STORAGE         STORAGE         STAIR-6         CLASSROOM         COPYWORK ROOM         PRINCIPAL OFFICE         STORAGE         AUDITORIUM HOUSE         AUDITORIUM STAGE         AUDITORIUM STAGE <td< td=""></td<>
116A         116B         116C         116C         116C         116S         116S         116S         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         120         121         122         122         121         122         122         123         124         125         126         127         127A         128         129         135         136         137A         137A         1378         138B         138B         138D	PE STORAGE           PE OFFICE           PE STORAGE           VESTIBULE           STAIR-4           STAIR-10           PREP ROOM           VESTIBULE           STAIR-3           LEVEL 2 BIOLOGY LAB           CLASSROOM           SCIENCE STORAGE           CLASSROOM           LEVEL 2 BIOLAB           SCIENCE STORAGE           CLASSROOM           LEVEL 1 BIO LAB           SCIENCE STORAGE           CLASSROOM           LEVEL 1 CHEM LAB           SCIENCE STORAGE ROOM           OFFICE           STORAGE           STUDENT SERVICE           ELEVATOR           STAIR-6           CLASSROOM           OFFICE           STORAGE           STUDENT SERVICE           ELEVATOR           STAIR-6           CLASSROOM           PRINCIPAL OFFICE           AUDITORIUM HOUSE           AUDITORIUM SUPPORT           STAIR-8           ASSISTANT PRINCIPAL           OFFICE           COUNSELOR OFFICE           COUNSELOR OFFICE
116A         116B         116C         116C         116C         116C         116S         116S         116S         117         117         117         117         117         117         117         117         117         117         117         117         117         117         120         120         121         122         122         123         124         125         126         127         127A         128         128         128         129         136         137A         137A         137A         137A         1378         138B         138B         138D         138B         138B	PE STORAGE           PE OFFICE           PE STORAGE           VESTIBULE           STAIR-4           STAIR-10           PREP ROOM           VESTIBULE           STAIR-3           LEVEL 2 BIOLOGY LAB           CLASSROOM           STAIR-5           CLASSROOM           SCIENCE STORAGE           CLASSROOM           LEVEL 2 BIO LAB           SCIENCE STORAGE           CLASSROOM           LEVEL 1 CHEM LAB           SCIENCE STORAGE ROOM           CLASSROOM           LEVEL 1 CHEM LAB           SCIENCE STORAGE ROOM           OFFICE           STORAGE           STUDENT SERVICE           ELEVATOR           STAIR-6           CLASSROOM           OFFICE           STORAGE           STUDENT SERVICE           ELEVATOR           STAIR-6           CLASSROOM           PRINCIPAL OFFICE           AUDITORIUM HOUSE           AUDITORIUM SUPPORT           STAIR-8           ASSISTANT PRINCIPAL           OFFICE           COUNSELOR OFFICE           C
116A         116B         116C         116C         116C         116C         116S         116S         116S         117         117         117         117         117         117         117         117         117         117         117         117         117         117         120         120         121         122         123         124         125         126         127         127A         128         128         128         128         128         127         136         137A         137A         137A         137A         137A         137A         1378         138B         138E         138F	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM LEVEL 2 BIOLOGY LAB CLASSROOM LEVEL 2 BIOLAB SCIENCE STORAGE CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM CDFICE STORAGE STORAGE STUDENT SERVICE COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR OFFICE
116A         116B         116C         116C         116         116         116         116         116         116         116         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         120         121         122         122         123         124         125         126         127         127A         128         128         129         136         137A         138B         138B	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM CLASSROOM LEVEL 2 BIOLAB SCIENCE STORAGE CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM COPYWORK ROOM COPYWORK ROOM COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR OFFICE
116A         116B         116C         116C         116C         116S         116S         116S         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         120         121         122         122         123         124         125         126         127         128         128         129         136         137A         137A         137A         137A         137A         137A         137A         138B         138B         138B         138B         138B         138B	PE STORAGEPE OFFICEPE STORAGEVESTIBULESTAIR-4STAIR-10PREP ROOMVESTIBULESTAIR-3LEVEL 2 BIOLOGY LABCLASSROOMSTAIR-5CLASSROOMLEVEL 2 BIO LABSCIENCE STORAGECLASSROOMPREP ROOMCLASSROOMDREP ROOMCLASSROOMPREP ROOMCLASSROOMDFFICESTORAGESTORAGESTUDENT SERVICEELEVATORSTAIR-6CLASSROOMOFFICESTORAGESTORAGEAUDITORIUM HOUSEAUDITORIUM SUPPORTSTAIR-8AUDITORIUM SUPPORTSTAIR-8ASSISTANT PRINCIPALOFFICECOUNSELOR OFFICECOUNSELOR OFFICECOUNSELOR OFFICENURSE OFFICENURSE OFFICENURSE OFFICE
116A         116B         116C         116C         116         116         116         116         116         116         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         117         120         121         122         122         123         124         125         126         127         128         128         128         128         128         137         136         137         138A         138B         138F         138F         138F         138F         138F         138F         138F <tr< td=""><td>PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM LEVEL 2 BIOLOGY LAB CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM LEVEL 1 CHEM LAB SCIENCE STORAGE CLASSROOM CLASSROOM EVEL 1 CHEM LAB SCIENCE STORAGE ROOM OFFICE STORAGE STORAGE STORAGE STUDENT SERVICE ELEVATOR STAIR-6 CLASSROOM OFFICE STORAGE STORAGE STORAGE STORAGE STORAGE STORAGE STORAGE STORAGE AUDITORIUM HOUSE AUDITORIUM SUPORT STORAGE AUDITORIUM SUPPORT STAIR-8 ASSISTANT PRINCIPAL OFFICE COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR OFFICE</td></tr<>	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM LEVEL 2 BIOLOGY LAB CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM LEVEL 1 CHEM LAB SCIENCE STORAGE CLASSROOM CLASSROOM EVEL 1 CHEM LAB SCIENCE STORAGE ROOM OFFICE STORAGE STORAGE STORAGE STUDENT SERVICE ELEVATOR STAIR-6 CLASSROOM OFFICE STORAGE STORAGE STORAGE STORAGE STORAGE STORAGE STORAGE STORAGE AUDITORIUM HOUSE AUDITORIUM SUPORT STORAGE AUDITORIUM SUPPORT STAIR-8 ASSISTANT PRINCIPAL OFFICE COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR OFFICE
116A         116B         116C         116C         116         116         116         116         116         117         117         117         117         117         117         117         117         117         117         117         117         117         117         120         120         120         120         121         122         1228         123         124         125         126         127         128         128         128         129         135         136         137A         137A         137A         137A         138A         138B         138B         138B         138B         138B         138B         138B	PE STORAGE PE OFFICE PE STORAGE VESTIBULE STAIR-4 STAIR-10 PREP ROOM VESTIBULE STAIR-3 LEVEL 2 BIOLOGY LAB CLASSROOM STAIR-5 CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM LEVEL 2 BIO LAB SCIENCE STORAGE CLASSROOM COPYWORK ROOM PRINCIPAL OFFICE STORAGE AUDITORIUM HOUSE AUDITORIUM STAGE AUDITORIUM SUPPORT STAIR-8 ASSISTANT PRINCIPAL OFFICE COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR OFFICE NURSE OFFICE

![](_page_71_Figure_1.jpeg)

#### NOTES:

![](_page_71_Picture_4.jpeg)

- DISCONNECT AND RECONNECT EXISTING LIGHTING FIXTURES PER:  $\left(\frac{4}{A3.2}\right)$ DEMOLISH EXTERIOR LIGHTING FIXTURES AND WIRING. (APROX. TOTAL 10) PROVIDE NEW LIGHTING FIXTURES TO MATCH
- EXISTING.
- REATTACH LOW VOLTAGE WIRE AND FASTEN BOX TO WALL.
- 4. DOOR #7: REPLACE 2 LIGHT FIXTURES IN ENTRANCE VESTIBULE TO AUDITORIUM.
- 5. DOOR #2: REPLACE 2 LIGHT FIXTURES AT STAR 2 MAIN ENTRANCE VESTIBULE.

![](_page_71_Picture_10.jpeg)
PROPOS	ED
ROOM	ROOM NAME
NO.	
200A 200B	JANITUR CLOSET
200D	STAFF TOILET
200D	STORAGE
200E	STORAGE
200F	MAIN GYNASIUM-TRACK
2000 200H	TOILET
200J	BOY'S STUDENT TOILET
200K	JANITOR CLOSET
200L	ELECTRICAL ROOM
200M	MEN STAFF TOILET
200P	JANITOR CLOSET
200Q	CORRIDOR
200R	
2003	SMALL GYMNASIUM-WEST
201A	STAFF AND UNISEX DRY
	LOCKER ROOM
201B	
2010	SMALL GYMNASIUM-FAST
203S	STAIR-9
202	CLASSROOM
202S	STAIR-2
204	ULASSKUUM SUPPORT COMPLITER LAR
205S	STAIR-1
207	OFFICE
209	CLASSROOM
211	LEVEL 2 BIOLOGY LAR
212A	SCIENCE PREP ROOM
212B	STORAGE
213	CLASSROOM
213S 215	STAIK-TU CLASSROOM
2165	STAIR-4
217	CLASSROOM
219	
220	LEVEL 1 BIOLOGY LAB
2203	SOCIAL STUDIES OFFICE
222	LEVEL 1 BIOLOGY LAB
222A	PREP ROOM
222B 223	CLASSROOM
224	COMMUNITY ROOM
225	CLASSROOM
228	SCIENCE OFFICE
∠∠8A 228B	STORAGE
228E	ELEVATOR
228S	STAIR-6
229	COLLEGE & CAREER LAB
229A 229R	ILACHER WORK AREA
229C	STORAGE
230	TEACHER WORK AREA
231	
232 232A	STORAGE
232B	CLASSROOM STORAGE
235	TEACHER WORK AREA
237	
23/A	AUDITURIUM BALCONY
<u>2375</u> -8	STAIR-8
238	LIBRARY WORKROOM
ļ	



1/16" = 1'-0"

NOTES:

- 1. PROVIDE 1 L.F. RACEWAY FOR LOW VOLTAGE WIRE TO MATCH THE EXISTING (AT ENTRY LOCATION). REATTACH OUTLET PANEL UNDERNEATH WHITE BOARD AND FASTEN TO EXISTING RACEWAY.
- 2. PROVIDE COVER PLATES FOR THE ELECTRICAL OUTLET AT THIS LOCATION (TO THE RIGHT OF PARTITION WALL). REROUTE THE WIRE EXPOSED DUE TO THE OUTLET PANEL DEMOLITION ON THE PARTITION WALL. PROVIDE COVER PLATE FOR THE J-BOX ON EXIST. TACK BOARD. REROUTE THE EXISTING BLUE INTERNET CABLE.
- 3. PROVIDE COVER PLATE FOR EXISTING J-BOX.
- 철 4. PROVIDE COVER PLATE FOR EXISTING J-BOX.
- 5. PROVIDE ACRYLIC LENS COVERS FOR EXISTING LIGHTING FIXTURES. SEE ARCHITECTURAL FLOOR PLAN FOR SPECIFIC LOCATION AND NUMBERS. REROUTE THE EXISTING INTERNET CABLE.
- 6. PROVIDE PAINTED 36"x36" 18 GA. GALV. METAL COVER PLATE.
   ANCHORED TO WALL W/TAMPER PROOF FASTENERS. PROVIDE WIRING AND
   EQUIPMENT IN A PROPER MANNER. ADD JUNCTION BOXES AS REQUIRED.
   PROVIDE ARCYLIC LENS COVERS FOR EXISTING LIGHTING FIXTURES. SEE
   ARCH FLOOR PLAN FOR SPECIFIC LOCATION AND NUMBERS.



PROPO	SED
THIRD	FLOOR ROOM SCHDULE
ROOM	ROOM NAME
NU.	
300A	TOILET
300B	TOILET
300C	STAFF & UNISEX TOLIET
300D	JANITOR CLOSET
300E	JANITOR CLOSET
300F	STORAGE
300G	GIRL'S STUDENT TOILET
300H	STORAGE
3001	IANITOR CLOSET
300K	GIRI 'S STUDENT TOUET
300L	CORRIDOR
300M	CORRIDOR
300N	CORRIDOR
302	CLASSROOM
302S	STAIR-2
304	CLASSROOM
305	STEM NETWORKING LAB
305S	STAIR-1
310	TEACHER WORK AREA
311	CLASSROOM
312	
313	
314	
316	ART I AR
3169	STAIR-4
317	ART LAB
317A	DARK ROOM
	ART LAB
<u>31</u> 8A	ART STORAGE
319	CLASSROOM
320	LEVEL 2 SCIENCE LAB
320S	STAIR-5
321	CLASSROOM
322	COMPUTER LAB SR
322A	ILCHNOLOGY STORAGE
323	
324	SOLENCE OFFICE
324A	SCIENCE OFFICE
325	
325 325A	STORAGE
325 325A 327	STORAGE CLASSROOM
325 325A 327 328	STORAGE CLASSROOM SCIENCE LAB
325 325A 327 328 328A	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA
325 325A 327 328 328A 328A 328B	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM
325 325A 327 328 328A 328A 328B 328S	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6
325 325A 327 328 328A 328A 328B 328S 329	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM
325 325A 327 328 328A 328A 328B 328S 329 330	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM
325 325A 327 328 328A 328A 328B 328S 329 330 330A 330A	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM
325 325A 327 328 328A 328B 328S 329 330 330A 330A 332 332	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM
325 325A 327 328 328A 328B 328S 328S 329 330 330A 330A 332 333 334	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM
325 325A 327 328 328A 328B 328S 329 330 330A 330A 330A 332 333 334 335	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE
325 325A 327 328 328A 328B 328S 328S 329 330 330A 330A 332 333 334 335 336	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM
325 325A 327 328 328A 328B 328S 328S 329 330 330A 330A 332 333 334 335 336 337	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM
325 325A 327 328 328A 328B 328S 328S 329 330 330A 330A 330A 332 333 334 335 336 337 337A	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM
325 325A 327 328 328A 328B 328S 329 330 330A 330A 330A 332 333 334 335 336 337 337A 337A 338	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM
325 325A 327 328 328A 328B 328S 329 330 330A 330A 332 333 334 335 334 335 336 337 337A 337A 338 338S-7	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7
325 325A 327 328 328A 328B 328S 329 330 330A 330A 330A 332 333 334 335 336 337 337A 337A 337A 338 338S-7 338S-8	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8
325 325A 327 328 328A 328B 328S 329 330 330A 330A 330A 330A 332 333 334 335 336 337 337A 337A 337A 337A 338 338S-7 338S-8 340	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM
325 325A 327 328 328A 328B 328S 329 330 330A 330A 332 333 334 335 334 335 336 337 337A 337A 338 338 338S-7 338S-8 340 342 344	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM STAIR-7
325 325A 327 328 328A 328B 328S 329 330 330A 330A 332 333 334 335 334 335 336 337 337A 337A 337A 338 338S-7 338S-8 340 342 344 367	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM
325 325A 327 328 328A 328B 328S 329 330 330A 330A 332 333 334 335 334 335 336 337 337A 337A 337A 337A 338 338S-7 338S-8 340 342 344 367 367S	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROO
325 325A 327 328 328A 328B 328S 329 330 330A 330A 330A 332 333 334 335 336 337 337A 337A 337A 337A 337A 338 338S-7 338S-8 340 342 344 367 367S	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROO
325 325A 327 328 328A 328B 328S 329 330 330A 332 330 330A 332 333 334 335 336 337 337A 337A 337A 338 338S-7 338S-8 340 342 344 367 367S	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
325 325A 327 328 328A 328B 328S 329 330 330A 330A 332 333 334 335 336 337 337A 337A 337A 337A 338 338S-7 338S-8 340 342 344 367 367S	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROO
325 325A 327 328 328A 328B 328S 329 330 330A 330A 332 333 334 335 336 337 337A 337A 337A 337A 337A 338S-7 338S-8 340 342 344 367 367S	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
325 325A 327 328 328A 328B 328S 329 330 330A 330A 330A 332 333 334 335 336 337 337A 337A 337A 337A 338 338S-7 338S-8 340 342 344 367 367S	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
325 325A 327 328 328A 328B 328S 329 330 330A 332 333 334 335 334 335 336 337 337A 337A 337A 338 338S-7 338S-8 340 342 344 344 367 367S	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
325 325A 327 328 328A 328B 328S 329 330 330A 332 330 330A 332 333 334 335 336 337 337A 337A 337A 338 338 338 338 338 338 338 338 338 33	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
325 325A 327 328 328A 328B 328S 329 330 330A 330A 332 333 334 335 336 337 337A 337A 337A 338S–7 338S–8 340 342 344 367 367S 	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROM CLASSROM CLASSROM CLASSROM CLASSROM CLASSROM
325 325A 327 328 328A 328B 328S 329 330 330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 344 367 367S 	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM STAIR-7 STAIR-8 CLASSROOM OFFICE PE OFFICE STAIR-9
325 325A 327 328 328A 328B 328S 329 330 330A 332 333 334 335 336 337 337A 337A 338 337A 338S–8 340 342 344 367 367S 367S	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9 STAIR-9
325 325A 327 328 328A 328B 328S 329 330 330A 330A 332 333 334 335 336 337 337A 337A 337A 338S–8 340 342 344 367 367S 	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9 TAIR-9 TAIR-9 TAIR-1 T
325 325A 327 328 328A 328B 328S 329 330 330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 344 367 367S 	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9 TAIR-9
325 325A 327 328 328A 328B 328S 329 330 330A 332 333 334 335 336 337 337A 337A 338 337A 338S–8 340 342 344 367 367S	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9 CLASSROOM CLASSR
325 325A 327 328 328A 328B 328S 329 330 330A 332 333 334 335 336 337 337A 337A 338 337A 338S-8 340 342 344 367 367S 367S 0 0 0 0 0 0 0 0 0 0 0 0 0	STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
325 325A 327 328 328A 328B 328S 329 330 330A 332 333 334 335 336 337 337A 338 338 338 338 338 338 338 33	STORAGE         STORAGE         CLASSROOM         SCIENCE LAB         TEACHER WORK AREA         SCIENCE STORAGE ROOM         CLASSROOM         CLASSROOM STORAGE         CLASSROOM STORAGE         CLASSROOM         STAIR-7         STAIR-8         CLASSROOM         CLASSRO         CLASSRO         CLASSRO         CLASSRO
325 325A 327 328 328A 328B 328S 329 330 330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 344 367 367S	STORAGE         STORAGE         CLASSROOM         SCIENCE LAB         TEACHER WORK AREA         SCIENCE STORAGE ROOM         STAIR-6         CLASSROOM         OFFICE         PE OFFICE         STAIR-9         I         I         I         I         I         I         I         I         I         I         I         I         I         <
325 325A 327 328 328A 328B 328S 329 330 330A 332 333 334 335 336 337 337A 337A 338S–8 340 342 344 367 367S 367S 0 0 0 0 0 0 0 0 0 0 0 0 0	STORAGE         STORAGE         CLASSROOM         SCIENCE LAB         TEACHER WORK AREA         SCIENCE STORAGE ROOM         STAIR-6         CLASSROOM         CLASSRO         CLASSRO         CLASSRO
325 325A 327 328 328A 328B 328S 329 330 330A 332 330A 332 333 334 335 336 337 337A 338 338 338 338 338 338 338 33	STORAGE         STORAGE         CLASSROOM         SCIENCE LAB         TEACHER WORK AREA         SCIENCE STORAGE ROOM         STAIR-6         CLASSROOM         STAIR-9
325 325A 327 328 328A 328B 328S 329 330 330A 332 333 334 335 336 337 337A 337A 338 338S–7 338S–8 340 342 344 367 367S 0 0 0 0 0 0 0 0 0 0 0 0 0	STORAGE         CLASSROOM         SCIENCE LAB         TEACHER WORK AREA         SCIENCE STORAGE ROOM         STAIR-6         CLASSROOM         OFFICE         PE OFFICE         STAIR-9         STAIR-9         CLASSROM         CLASSROM         OFFICE         PE OFFICE         STAIR-9         STAIR         STAIR         STAIR         CLASSROM         CLASSROM         CL
325         325A         327         328         328A         328B         328S         329         330         330A         332         3330A         334         335         336         337A         338S-7         338S-8         340         342         344         367         367S	STORAGE         CLASSROOM         SCIENCE LAB         TEACHER WORK AREA         SCIENCE STORAGE ROOM         STAIR-6         CLASSROOM         CLASSROOM STORAGE         CLASSROOM         CLASSRO         CLASSRO         CLASSRO         CLASSRO         CLASSRO     <



1/16'' = 1'-0''

1. PROVIDE REPLACEMENT METAL COVER FOR 4"x6" PHONE RECEPTACLE BOX. PROVIDE ACRYLIC LENS COVERS FOR EXISTING LIGHTING FIXTURES. SEE ARCHITECTURAL FLOOR PLAN FOR SPECIFIC LOCATION AND NUMBERS

2. PROVIDE ACRYLIC LENS COVERS FOR EXISTING LIGHTING FIXTURES. (APPROXIMATE QUANTITY 10) 

3. PROVIDE PAINTED 24"x24" 18 GA. GALV. METAL COVER PLATE MECH. ANCHORED TO WALL WITH TAMPER PROOF FASTENERS. TERMINATE WIRING AND EQUIPMENT IN A PROPER MANNER. ADD JUNCTION BOXES AS REQUIRED. PROVIDE COVER PLATE FOR EXISTING 4"x6" WALL MOUNTED JUNCTION BOX ABOVE DOOR. PROVIDE COVER PLATE FOR EXISTING 4" WIDE WALL MOUNTED RACEWAY.

4. PROVIDE PAINTED 24"x24" 18 GA. GALV. METAL COVER PLATE MECH. ANCHORED TO WALL WITH TAMPER PROOF FASTENERS. TERMINATE WIRING AND EQUIPMENT IN A PROPER MANNER. ADD JUNCTION BOXES AS REQUIRED.

5. PROVIDE 2"x4" COVER PLATE FOR EXISTING RACEWAY.

6. REATTACH EXISTING OUTLET COVER.

7. PROVIDE PAINTED 24"X24"18 GA. GALV. METAL COVER PLATE MECHANICAL ANCHORED TO WALL WITH TAMPER PROOF FASTENERS. TERMINATE WIRING AND EQUIPMENT IN A PROPER MANNER. ADD JUNCTION BOXES AS REQUIRED.

8. PROVIDE PAINTED 24"x24" 18 GA. GALV METAL COVER PLATE MECH. ANCHORED TO WALL WITH TAMPER PROOF FASTENERS.

9. PROVIDE PAINTED 36"x36" 18 GA. GALV. METAL COVER PLATE MECH. ANCHORED TO WALL WITH TAMPER PROOF FASTENERS. PROVIDE 4"x6" PLASTIC COVER PLATE FOR EXISTING PANEL.

10. PROVIDE PAINTED 24"x24" 18 GA. METAL COVER PLATE MECH. ANCHORED TO WALL WITH TAMPER PROOF FASTENERS. TERMINATE WIRING AND EQUIPMENT IN A PROPER MANNER. ADD JUNCTION BOXES AS REQUIRED.



ROOM NO.	ROOM NAME
400A	CORRIDOR
400B	CORRIDOR
400C	CORRIDOR
422	INSTRUMENTAL MUSIC
	ROOM
422A	MUSIC PRACTICE ROOM
422B	MUSIC PRACTICE ROOM
422C	MUSIC STORAGE
422S	STAIR-5
426	GENERAL MUSIC ROOM
426A	MUSIC STORAGE
426B	CORRIDOR
426C	MUSIC STORAGE
426S	STAIR-6
428	CLASSROOM
428A	STORAGE
428B	CLASSROOM STORAGE
430	
132	
+02	
1200	
7323	
I	



NOTE	S:			
	(DELETED)			
2.	PROVIDE COVER PLATE FOR EXISTING RACEWAY AND ELECTRICAL OUTLET PANEL. REWORK EXPOSED WIRES.			
3.	PROVIDE PAINTED 24x24" 18 GA. GALV. MENTAL COVER PLATE MECH. ANCHORED TO WALL W/TEAMPER PROOF FASTENERS. TERMINATE WIRING AND EQUIPMENT IN A PROPER MANNER. ADD JUNCTION BOXES AS REQUIRED.	BUILDING COMMISSION	- Prince	evolic schools
<ul><li>✓</li><li>4.</li></ul>	PROVIDE ROUND FROSTED GLASS COVERS FOR EXISTING LIGHTING FIXTURES. (APPROXIMATE QUANTITY 2)		0 <u>Gan, cl</u> /	ARK & ASSOCIATES INC.
5.	PROVIDE ACRYLIC LENS COVERS FOR EXISTING LIGHTING FIXTURES. SEE ARCHITECTURAL FLOOR PLAN FOR SPECIFIC LOCATION AND NUMBERS. (APPROXIMATE QUANTITY OF 20)	A U R 960 RIDGE AURORA, II TEL 6 FAX 6	ARCHITEC www. C	CS - ENGINEERS cordoganclark.com C H   C A G O 716 NORTH WELLS STREET CHICAGO, ILLINOIS 60654 TEL 312.943.7300 FAX 312.943.4771
6.	FOURTH FLOOR CORRIDOR: EXPOSED CEILING J-BOX: RE-WORK EXPOSED WIRING OUTSIDE OF ROOM 426. (APPROXIMATE QUANTITY 50 FEET)	S	IN C	jΗ
		5	SINGH + ASSOC CONSULTING EI	IATES, INC. NGINEERS
		LAKE HIGH 4015 I CHICAG	VIEW SCHOOL North Ashi 30, illinois	AND AVENUE 60613
		PROJEC	CT NO. 201	6-46211-MCR Evisions
		NO. -	DATE 2016.04.19	DESCRIPTION 30% SUBMITTAL
		-	2016.06.14 2017.02.14	60% SUBMITTAL
		-	2017.03.02 2017.03.07 2017.03.23	PERMIT SET
		- <u>1</u>	2017.04.04 2017.04.12	BID SET ADDENDUM #1
		DRAWN	BY: DS	) /1∈"_1'_0"
		JOB: FILE:	'/ E[	<b>).4</b>
				INVICE PARK RD
		AR WC EX AN	EAS OF CRK: ENTIR TERIOR, ALI	E BUILDING LEVELS N KEY PLAN
		WARN BUILD BE PI ASBES AVAII	ING: MATE )ING MATE RESENT I STOS MA LABLE IN	ASBESTOS-CONTAINING IRIALS ARE OR MAY N THIS BUILDING. AN NAGEMENT PLAN IS THE SCHOOL FOR
		RE∨IE MAY MATEF A LI( CONDI	EW UPDN DISTURB RIALS UNL CENSED A UCTS	REQUEST. ND PERSON ASBESTOS-CONTAINING ESS THAT PERSON IS SBESTOS WORKER OR SUCH WORK IN
		ACCOR CONTA DOCUN WITH HEAL	RDANCE W AINED I MENTS A ILLINDI TH RULES	ITH SPECIFICATION(S) N THE PROJECT ND IN COMPLIANCE S DEPARTMENT OF AND REGULATIONS.
			Four Ele	TH FLOOR CTRICAL PLAN
			DR	AWING NO.
			E	1.4



NOTES:

1. ELECTRICAL CONTRACTOR (EC) SHALL:

- a REFER TO MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATION.
   b REFER TO ELECTRICAL SCHEDULE OF MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
- c REINSTALL EXISTING OR INSTALL NEW CONDUITS AND JB UP TO THE FAN TO CREATE NEW WIRE WAYS FOR EXISTING CIRCUITS (POWER AND CONTROL)
- d EC SHALL REUSE EXISTING CIRCUITS (POWER AND CONTROL) TO FEED NEW EXHAUST FANS. FOR EXCEPTIONS SEE "DEMOLITION SPECIFIC NOTES" ON ROOF DEMO PLAN.
- e WHEN NECESSARY, EC SHALL EXTEND EXISTING CIRCUIT(S) UP TO FAN INSTALL ADDITIONAL JUNCTION BOX OR REUSE EXISTING AND EXTEND WIRES AS REQUIRED.
- f INSTALL FOR EACH FAN, SAFETY DISCONNECT SWITCH IN WEATHERPROOF BOX
- g FOR EACH GROUP OF FANS, INSTALL CONVENIENCE RECEPTACLE GFCI TYPE IN WEATHERPROOF BOX AND FEED IT FROM NEAREST PANEL.
- h VERIFY IF EXISTING CIRCUIT BREAKER IS SUITABLE FOR NEW FAN.
- 2. PROVIDE GUTTER HEAT TRACING SYSTEMS. PROVIDE WIRING AS REQUIRED.
- 3. NEW CONDUITS SHALL BE RUN IN THE ATTIC.

4. PROVIDE GUTTER, DOWNSPOUT AND ROOF HEAT TRACING FOR AREAS INDICATED. PROVIDE 4#10 AND 1#10 GRD TO FEED CONTROLLER. CONNECT TO PANEL AC-2N.

	POGAN, CLA	RK & ASSOCIATES INC.
A U 960 RIDO AURORA, TEL FAX	WWW. R O R A EWAY AVENUE ILLINOIS 60506 630.896.4678 630.896.4987	Cordoganclark.com C H I C A G O 716 NORTH WELLS STREET CHICAGO, ILLINOIS 60654 TEL 312.943.7300 FAX 312.943.4771
<u>S</u>	SINGH + ASSOC CONSULTING EN PROVIDE AO	NATES, INC. NGINEERS R/EOR STAMP HERE
LAKE HIGH 4015 CHICAC	VIEW SCHOOL NORTH ASHL GO, ILLINOIS	AND AVENUE 60613
PROJE	CT NO. 2011 R	6-46211-MCR EVISIONS
NO. _	DATE 2016.04.19	DESCRIPTION 30% SUBMITTAL
-	2017.02.14 2017.03.02 2017.03.07	75% SUBMITTAL 100% SUBMITTAL PERMIT SET
- - []	2017.03.23 2017.04.04 2017.04.12	PRELIMINARY OTB SET BID SET ADDENDUM #1
DRAWN SCALE	 N BY: DS : 17	5 /16"=1'-0"
JOB: FILE:	M[	).5
		SHLAND AVE.
AI W E> AI	REAS OF ORK: ENTIR (TERIOR, ALL ND ROOF	
WARN BUILI BE F ASBE AVAI REVI MAY MATE A LI COND ACCO CONT DOCU WITH HEAL	IING: A DING MATE RESENT II STOS MAI LABLE IN EW UPON DISTURB A RIALS UNL CENSED A UCTS S RDANCE W AINED I MENTS A ILLINDI TH RULES	ASBESTOS-CONTAINING ERIALS ARE OR MAY N THIS BUILDING. AN NAGEMENT PLAN IS I THE SCHOOL FOR REQUEST. NO PERSON ASBESTOS-CONTAINING .ESS THAT PERSON IS SBESTOS WORKER OR SUCH WORK IN ITH SPECIFICATION(S) IN THE PROJECT ND IN COMPLIANCE S DEPARTMENT OF AND REGULATIONS.
	Roc New e L/	OF PLAN EQUIPMENT AYOUT
	DR	AWING NO.
	E	1.5

BASEME ROOM NO.	ED	PROPO	SED
NO.	NT FL ROOM SCHDULE	FIRST	FLOOR ROOM SCHDULE
	ROOM NAME	NO.	ROOM NAME
000A	CORRIDOR	100	MAIN OFFICE
000B	CORRIDOR	100 100A	TOILET
0000	CORRIDOR	100B	TOILET
001	FAN ROOM-7	100C	STAFF & UNISEX TOILET
001A	CORRIDOR	100D	JANITOR CLOSET
001B	CORRIDOR	100E	WOMEN STAFF TOILET
001C	CORRIDOR	100F	TOILET
001S	STAIR-1	100G	TOILET
002	DRY STORAGE	1001	GIRL'S STUDENT TOILET
010	LUNCHROOM	100J	STAFF TOILET
010A	STORAGE	100K	JANITOR CLOSET
010B	DRY STORAGE	100L	CORRIDOR
010C	DRY STORAGE	100M	CORRIDOR
010D	DRY STORAGE	100N	CORRIDOR
010D.1	WOMEN STAFF TOILET	100S1	MAIN ENTRY STAIR
010E	JANITOR CLOSET	100S2	STAIR-7
010F	UNISEX TOILET	101A	HEALTH OFFICE
010G	UNISEX TOILET	101-0	VESTIBULE
0105	STAIR-2	101S	STAIR-2
011	STURAGE	102	TEACUED OFFICE
0110	ELECTRICAL ROOM	102A	ILACHER OFFICE
011B	ELECTRICAL ROOM	102B	CLASSROOM STORAGE
014 0		102E	CIPU'S LOCKED DOOM
0140	VESTIBULE	103	GIRL S LOUKER ROOM
0145	BOYS LOOVER ROOM	103A	STAFE AND UNICEY
	BOYS SHOWED DOOL	1038	STAFE & UNICEN TOUST
	BOYS DEVING ABEA	1030	CORDIDOD
	BOYS TOULT BOOM	1030	
	TEAM LOOVED DOON	1035	STAIR-9
	ILANI LUUKEK KUUM	105	
017		105-0	VESTIDULE
		1055	
020		109	SPECIAL EDUCATION
020			SPECIAL EDUCATION
023	FAN ROOM_3	110	
024	$P \cap I$ tank	112	COUNSELOR DECEDION
027		112A	STORACE
0278	STAIR-5		STORAGE
0273	ENGINEER OFFICE	1120.1	
029		115	
029A		115 1150	CLASSDOOM STODACE
0295	STAIR-6	116	MAIN CYMNASIUM
0295 0295		116	
		116R	
0.30B	COOLERS	1160	
0.31	STORAGE	116-0	
031A	STORAGE	1165	STAIR-4
031B	FAN ROOM-1	11651	STAIR-10
031C	STORAGE	117	PREP ROOM
031D	STORAGE	117-0	VESTIBULE
032	STORAGE	117S	STAIR-3
033	STORAGE	119	LEVEL 2 BIOLOGY LAB
034	STORAGE	120	CLASSROOM
035–0	VESTIBULE	120S	STAIR-5
0355	STAIR-8	121	CLASSROOM
037	PLENUM CHAMBER	122	LEVEL 2 BIO LAB
040	KITCHEN	122B	SCIENCE STORAGE
040A	STORAGE	123	CLASSROOM
040B	OFFICE	124	PREP ROOM
050	NATATORIUM	125	CLASSROOM
050A	CONS. EQUIP. STORAGE	126	LEVEL 1 CHEM LAB
060	GIRLS LOCKER ROOM	126A	SCIENCE STORAGE ROOM
060A	GIRLS SHOWER ROOM	127	OFFICE
060B	GIRLS DRYING AREA	127A	STORAGE
060C	GIRLS TOILET ROOM	128	STUDENT SERVICE
060D	LAUNDRY ROOM	128E	ELEVATOR
070	STAFF & UNISEX	128S	STAIR-6
	LOCKER ROOM	129	CLASSROOM
080	WEIGHT ROOM	135	COPYWORK ROOM
080-0	VESTIBULE	136	PRINCIPAL OFFICE
080S	STAIR-10	136A	STORAGE
090	ROTC CLASSROOM	137	AUDITORIUM HOUSE
090A	ROTC OFFICE	137A	AUDITORIUM STAGE
	ROTC STORAGE	137B	AUDITORIUM SUPPORT
090B	ROTC STORAGE	137S1	STAIR-8
090B 090C	BOILER	138A	ASSISTANT PRINCIPAL
090B 090C 091	BOILER VESTIBULE		OFFICE
090B 090C 091 091A		138B	COUNSELOR OFFICE
090B 090C 091 091A 092	FAN ROOM-2		-
090B 090C 091 091A 092	FAN ROOM-2	138C	COUNSELOR OFFICE
090B 090C 091 091A 092	FAN ROOM-2	138C 138D	COUNSELOR OFFICE
090B 090C 091 091A 092	FAN ROOM-2	138C 138D 138E	COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR OFFICE
090B 090C 091 091A 092	FAN ROOM-2	138C 138D 138E 138F	COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR RECEPTION
090B 090C 091 091A 092	FAN ROOM-2	138C 138D 138E 138F 138G	COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR RECEPTION NURSE OFFICE
090B 090C 091 091A 092	FAN ROOM-2	138C 138D 138E 138F 138G 138H	COUNSELOR OFFICE COUNSELOR OFFICE COUNSELOR RECEPTION NURSE OFFICE NURSE OFFICE







2. TEF-5 SHALL BE CONTROLLED BY LIGHT SWITCH.

EMERGENCY CIRCUITS.

PUBLIC BUILDING COMMISSION	Chicago	abile schools
CORD :	OGAN, CLA ARCHITECT	RK & ASSOCIATES INC. S · ENGINEERS : cordoganclark.com
A U R 960 RIDGE AURORA, II TEL 6 FAX 6	0 R A WAY AVENUE LLINOIS 60506 30.896.4678 30.896.4987	C H I C A G O 716 NORTH WELLS STREET CHICAGO, ILLINOIS 60654 TEL 312.943.7300 FAX 312.943.4771
S	SINGH + ASSOCI	ATES, INC. IGINEERS
	PROVIDE AOF	R/EOR STAMP HERE
LAKE	VIEW	
HIGH 4015 N	SCHOOL North Ashl	AND AVENUE
	O, ILLINOIS	60613 5-46211-MCR
FROJEC	RE	EVISIONS
NO.	DATE	DESCRIPTION
-	2016.04.19 2016.06.14	30% SUBMITTAL
-	2017.02.14	75% SUBMITTAL
-	2017.03.02	PERMIT SET
_	2017.03.23	PRELIMINARY OTB SET
1	2017.04.12	ADDENDUM #1
DRAWN	BY: DS	;
SCALE: JOB:	1/	<u>′8"=1'-0"</u>
FILE:	E2	.1
<i></i>		
		RVING P.
AR		
EX AN	TERIOR, ALL	
	ING: A	ASBESTOS-CONTAINING
BE PI	RESENT IN	N THIS BUILDING. AN NAGEMENT PLAN IS
AVAIL REVIE MAY	LABLE IN EV UPON DISTURB 4	THE SCHUUL FUR REQUEST, NO PERSON ASBESTOS-CONTAINING
MATER A LIC	RIALS UNL	ESS THAT PERSON IS SBESTOS WORKER OR
	JCTS S RDANCE WI	SUCH WORK IN ITH SPECIFICATION(S) N THE PROJECT
	ILLINDI	ND IN COMPLIANCE S DEPARTMENT OF
	IN RULES	AND REGULATIONS,
	ENLAR( LI(	GED PLANS GHTING
	DRA	WING NO.
	<b>T</b>	
	E	Z.1

ROOM	FLOOR ROOM SCHDULE	THIRD	SED FLOOR ROOM SCHDULE
	ROOM NAME	ROOM	ROOM NAME
NO.		NO.	
200A	JANITOR CLOSET	300A	ΤΟΙΙ ΕΤ
200B	TOILET	300B	TOILET
200C	STAFF TOILET	300C	STAFF & UNISEX TOLIE
200D	STORAGE	300D	JANITOR CLOSET
200E	STORAGE	300E	JANITOR CLOSET
200F	MAIN GYNASIUM-TRACK	300F	STORAGE
200G	JANITOR CLOSET	300G	GIRL'S STUDENT TOILET
200H	TOILET	300H	STORAGE
200J	BOY'S STUDENT TOILET	3001	STAFF TOILET
200K	JANITOR CLOSET	300J	JANITOR CLOSET
200L	ELECTRICAL ROOM	300K	GIRL'S STUDENT TOILET
200M	TOILET	300L	CORRIDOR
200N	MEN STAFE TOUET	300M	
200P	JANITOR CLOSET	300N	
2000	CORRIDOR	302	CLASSROOM
200R	CORRIDOR	3025	STAIR-2
2001	CORRIDOR	304	
2003		305	STEM NETWORKING LAR
201	SMALL GIMNASIUM-WEST	305	STAID 1
201A	STAFF AND UNISEX DRY	3055	
	LOCKER ROOM	310	TEACHER WORK AREA
201B	PE STORAGE	311	CLASSROOM
201C	CORRIDOR	312	CLASSROOM
203	SMALL GYMNASIUM-EAST	313	CLASSROOM
203S	STAIR-9	313S	STAIR-10
202	CLASSROOM	314	CLASSROOM
202S	STAIR-2	316	ART LAB
204	CLASSROOM	3165	STAIR-4
205	SUPPORT COMPUTER LAB	317	ART LAB
2055	STAIR-1	3174	
207	OFFICE		
207		7104	ART LAD
203		310A	ART STURAGE
211		319	
212	LEVEL 2 BIOLOGY LAB	320	LEVEL 2 SCIENCE LAB
212A	SCIENCE PREP ROOM	320S	STAIR-5
212B	STORAGE	321	CLASSROOM
213	CLASSROOM	322	COMPUTER LAB SR
213S	STAIR-10	322A	TECHNOLOGY STORAGE
215	CLASSROOM	323	CLASSROOM
216S	STAIR-4	324	SCIENCE LAB
217	CLASSROOM	324A	SCIENCE OFFICE
219	CLASSROOM	324B	SCIENCE STORAGE ROOI
220	LEVEL 1 BIOLOGY LAB	325	CLASSROOM
220S	STAIR-5	3254	STORAGE
221	SOCIAL STUDIES OFFICE	327	
222		200	
222		320	JUILINUE LAD
	CTODAOE	328A	IEACHER WORK AREA
222B	STURAGE	328B	SCIENCE STORAGE ROOM
223	CLASSROOM	328S	STAIR-6
224	COMMUNITY ROOM	329	CLASSROOM
	CLASSROOM	330	CLASSROOM
225			
225 228	SCIENCE OFFICE	330A	CLASSROOM STORAGE
225 228 228A	SCIENCE OFFICE STORAGE	330A 332	CLASSROOM STORAGE
225 228 228A 228B	SCIENCE OFFICE STORAGE STORAGE	330A 332 333	CLASSROOM STORAGE CLASSROOM CLASSROOM
225 228 228A 228B 228B	SCIENCE OFFICE STORAGE STORAGE ELEVATOR	330A 332 333 334	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM
225 228 228A 228B 228B 228E 228S	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6	330A 332 333 334 335	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE
225 228 228A 228B 228B 228E 228S 229	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREFR I AB	330A 332 333 334 335 336	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM
225 228 228A 228B 228E 228E 228S 229 229A	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA	330A 332 333 334 335 336 337	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM
225 228 228A 228B 228E 228E 228S 229 229A 229A	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF	330A 332 333 334 335 336 337 337	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM
225 228 228A 228B 228E 228E 228S 229 229A 229B 229B	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF	330A 332 333 334 335 336 337 337A 337A	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY
225 228 228A 228B 228E 228S 229 229A 229B 229B 229C	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE	330A 332 333 334 335 336 337 337A 337A 338	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM
225 228 228A 228B 228E 228S 229 229A 229B 229B 229C 230 231	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA	330A 332 333 334 335 336 337 337A 337A 338 338S-7	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7
225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE	330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8
225 228 228A 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN	330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM
225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE	330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM
225 228 228A 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232A 232A	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE	330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 344	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE
225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232A 232B 235	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA	330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 342 344 367	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE
225 228 228A 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232A 232A 232B 235 237	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE	330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 344 367 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232A 232B 235 237 237A	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE	330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 344 367 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229A 229C 230 231 232 232A 232A 232A 232B 235 237 237A	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY	330A 332 333 334 335 336 337 337A 338 338S-7 338S-8 340 342 344 367 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8	330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 344 367 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229A 229C 230 231 232 232A 232A 232A 232A 232B 235 237 237S-7 237S-8 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 338 338 338 338 338 338 338 338 338 33	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 344 367 367S 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229A 229C 230 231 232 232A 232A 232A 232B 235 237 237A 237S-7 237S-8 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 337A 338S-7 338S-8 340 342 344 367 367S 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232A 232A 232B 235 237 237A 237S-7 237S-8 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 338 3385–7 338S–8 340 342 344 367 367S 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229A 229C 230 231 232 232A 232A 232A 232B 235 237 237A 237S-7 237S-8 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 337A 338S-7 338S-8 340 342 344 367 367S 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 344 367 367S 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229A 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 338 338S-7 338S-8 340 342 344 367 367S 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8 237S-8 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 344 367 367S 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8 237S-8 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 338 338S-7 338S-8 340 342 344 367 367 367 367 367 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229C 230 231 232 232A 232A 232A 232B 237 237A 237S-7 237S-8 237S-8 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 338 338 338 338 338 338 338 338 338 33	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8 238 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 338 338 338 338 340 342 344 367 367 367 367 367 367 367 367 367 367	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229A 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8 238 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337A 337A 338S-7 338S-8 340 342 344 367 367S 367S 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8 238 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 338 338 338 338 340 342 344 367 367 367 367 367 367 367 367 367 367	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229A 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8 238 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 338 338 338 338 340 342 344 367 367 367 367 367 367 367 367 367 367	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9 STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229C 230 231 232 232A 232A 232B 235 237 237S-7 237S-8 237S-7 237S-8 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 338 338 338 338 340 342 344 367 367 367 367 367 367 367 367 367 367	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9 STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 238 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 338 338 338 338 340 342 344 367 367 367 367 367 367 367 367 367 367	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9 STAIR-9
225 228 228A 228B 228E 228S 229 229A 229A 229A 229C 230 231 232 232A 232A 232B 237 237A 237S-7 237S-8 237 237S-8 238	SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330A 332 333 334 335 336 337 337A 338S-7 338S-8 340 342 344 367 367 367 367 367 367 367 367 367 367	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9 STAIR-9



NOTES:

- 1. SEE SCOREBOARD DETAIL FOR CONNECTION DETAILS, SEE DRAWING E3.2. REUSE EXISTING 120V, 20A CIRCUIT FEED FROM PANEL L-1N CIRCUIT # 33. EXTENDING WIRING AS NEEDED TO NEW SCOREBOARD LOCATION.

CIRCUITING LAYOUT SHALL MATCH EXISTING. REPLACE DAMAGED RECEPTACLES (5) AND DAMAGED WIREWAY (10 FEET). NEW WIRING SHALL INCLUDE GROUNDING CONDUCTORS (1 PER 3 PHASE NETWORK) PROVIDE ADDITIONAL RACEWAY CAPACITY FOR THE GROUNDING CONDUCTORS.











P 3CR	C		AUX CORR PANEL	FAN 7	
ORIUM	PRINT PRINT SHOP	ROOF LIGHTS	L SP		
	FAN 2	P 2 NL	SOCIAL RO RM 226 P	NL	
	CORRIDOR	RANGE PANEL	2ND FLR	AC	
	DP-1		LAB DIST	PANEL	



				LIGHTING FIX	TURE SCHE	DULE						
TAG	SYMBOL	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	TYPE	VOLTAGE	POWER	LUMENS	DRIVER	DIMMING	FIXTURE POWER	MOUNTING	
F2-L		2'x4',LENSED TROFFER LED LIGHTING FIXTURE, RATED FOR DAMP LOCATION WITH LED MODULE AND DRIVER RATED FOR 120V/60HZ, DIMMING CAPABILITY, FUSED, WITH POLYCARBONATE LENS TO REDUCE GLARE,	LITHONIA TLX SERIES CAT# 2TLX4-72L-XX-MWS-EZ1-LP835-XX-XX	LED MODULE 3500K	120V/60HZ	67 W	7200	YES	YES	67 W	SURFACE	
		XXXX FINISHED CEILING SURFACE MOUNTED, WITH MINIMUM ILUMINANCE OUTPUT 7200 LUMENS, COLOR TEMPERATURE 3500K	H.E. WILLIAMS - SERIES 12	_	-	-	_	-	-	-	-	
			FINELITE – HPR-2x4 DCO-LED SM	_	_	_	_	-	_	-	_	
E24 1		2'x4', LENSED TROFFER LED LIGHTING FIXTURE, RATED FOR DAMP LOCATION WITH LED MODULE AND DRIVER RATED FOR 120V/60HZ, DIMMING	LITHONIA TLX SERIES CAT# 2TLX4-72L-XX-A12-EZ1-LP835-XX-XX	LED MODULE 3500K	120V/60HZ	67 W	7200	YES	YES	67 W	SURFACE	
FZA-L		XXXX FINISHED CEILING SURFACE MOUNTED, WITH MINIMUM ILUMINANCE OUTPUT 7200 LUMENS, COLOR TEMPERATURE 3500K	H.E. WILLIAMS - SERIES 12	_	-	_	_	-	_	-	_	
			FINELITE —	_	_	_	_	_	_	_	_	
		1'x4',LENSED TROFFER LED LIGHTING FIXTURE, RATED FOR DAMP LOCATION	LITHONIA TLX SERIES	LED_MODULE	120V/60H7	47 W	4800	YES	YES	47 W	SURFACE	
F8-L		WITH LED MODULE AND DRIVER RATED FOR 120V/60HZ, DIMMING CAPABILITY, FUSED, WITH POLYCARBONATE LENS TO REDUCE GLARE, XXXX FINISHED CEILING SURFACE MOUNTED, WITH MINIMUM ILUMINANCE	CAT# TLX4-48L-XX-MWS-EZ1-LP835-XX-XX	3500K		.,			120			
		OUTPUT 4800 LUMENS, COLOR TEMPERATURE 3500K	METALUX – FINELITE –	-	-	_	-	-	_	-	-	
F16-L		LED LIGHTING FIXTURE, HIGH BAY TYPE, WITH LED MODULE AND DRIVER RATED FOR 120V/60HZ DIMMING CAPABILITY, FUSED, WITH POLYCARBONATE LENS TO REDUCE GLARE, WITH WIRE GUARD	LITHONIA IBL SERIES CAT# IBL 30L WD SD125 LP835 XX	LED MODULE 3500K	120V/60HZ	245W	30000	YES	YES	245 W	SURFACE	(
		SUITABLE FOR GYM LOCATION, FINISHED CEILING MOUNTED WITH OPTIONS SURFACE OR STEM, WITH MINIMUM ILUMINANCE OUTPUT (30000) LUMENS, COLOR	DAY-BRITE	_	-	-	-	-	-	-	-	
			COLUMBIA LLHP SERIES CAT# LLHP3-40H-M-EDU-WG-XX	_	-	-	_	_	-	_	_	
BPU		BATTERY PACK UNIT WITH ATTACHED HEADS, NICKEL CADMIUM BATTERY	DUAL—LITES — AS—BX SERIES EMERGI—LITE—LSM SERIES LITHONIA — ELT SERIES		120/60HZ	12W					SURFACE	
			SERIES-LITES-XR-0-C SERIES									
S12		LED EXTERIOR POLE COBRA, HEAD LUMIAIRE; FULL CUT OFF STANDARD FINISH AS SELECTED BY ARCHITECT – INTEGRAL LED DRIVER	PHYLIPS-HARDCO RX2-160 BETA LED-CREE-STR-LWY-10	20,000 LUMENTS 4000K	120/60HZ						POLE	
SX		ENCLOSED AND GASKETED COMPACT FLUORESCENT	GRAINGER 2PYAJ4		120/60HZ	12W		YES	NO		VARIES	
					,							
	$\bigotimes$	EXIT SIGN LED CHICAGO APPROVED	COOPER CHX		120/60HZ					3 W	VARIES	
	Ş	1. FIXTURE TO BE SUITABLE FOR HOOK OR CEILING TILE MOUNTING.										
		2. CATALOG NUMBERS INDICATE GENERAL SERIES INFO ONLY. (TYPICAL FOR ALL LIC	SHTING FIXTURES). $\sqrt{1}$									

		FIYTI IRF			
DRIVER	DIMMING	POWER	MOUNTING	NOTES	
YES	YES	67 W	SURFACE		
_	-	-		MATCH LITHONIA FIXTURE PROPERTIES MATCH LITHONIA FIXTURE PROPERTIES	or schools
YES	YES	67 W	SURFACE		PUBLIC BUILDIN
-	-	-		MATCH LITHONIA FIXTURE PROPERTIES MATCH LITHONIA FIXTURE PROPERTIES	CORDOGAN, CLARK & ASSOCIATES INC. ARCHITECTS · ENGINEERS : www.cordoganclark.com A U R O R A C H I C A G O 716 NORTH WELLS STREET AURORA, ILLINOIS 60506
					TEL 630.896.4678 630.896.4987 FAX 630.896.4987 FAX 312.943.4771 Signgd
YES	YES	47 W	SURFACE		SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS PROVIDE AOR/EOR STAMP HERE
-	-		-	MATCH LITHONIA FIXTURE PROPERTIES MATCH LITHONIA FIXTURE PROPERTIES	
YES	YES	245 W	SURFACE	NOTE 1	
-	_	_	-	MATCH LITHONIA FIXTURE PROPERTIES	
_	_	_	_	MATCH LITHONIA FIXTURE PROPERTIES	LAKE VIEW HIGH SCHOOL 4015 NORTH ASHLAND AVENUE CHICAGO. ILLINOIS 60613
			SURFACE	2 HOUR BATTERY CHICAGO APPROVED	PROJECT NO. 2016-46211-MCR REVISIONS
			POLE	EXTERIOR ROOF PARAPET OR POLE MOUNT, UL WET LOCATION. EQUIVALENT TO 400w HID. SEE DETAIL ON DRAWING E3.3	NO.         DATE         DESCRIPTION           -         2016.04.19         30% SUBMITTAL           -         2016.06.14         60% SUBMITTAL           -         2017.02.14         75% SUBMITTAL           -         2017.03.02         100% SUBMITTAL           -         2017.03.02         100% SUBMITTAL           -         2017.03.02         PERMIT SET           -         2017.03.23         PRELIMINARY OTB SET
YES	NO		VARIES		- 2017.04.04 BID SET 2017.04.12 ADDENDUM #1 DRAWN BY: DS
		3 W	VARIES		JOB: FILE: <b>E4.1</b>
					WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DICUMENTS AND IN COMPLIANCE WITH ILLINDIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

DESIGNATION	P-BA (E)	(ISTING)			PANE	LBO	ARD S	SCHE	DULE			PANEL L	OCATION	BOILER ROOM	
VOLTAGE SYSTEM TYPE	208Y/12	0V 3PH 4W	/ SN	I	BUS A	MPS	200				N	IEUTRAL %	% RATING	100	
MCB-MLO - MAIN AMPS, KAIC RATING	200	MLO	-	ENCLOSURE NEMA-1 SURFACE						FACE	N	EUTRAL B	US AMPS	200	TAG
TVSS ENC	N/A	N/A	N/A								P	ANEL FEE	DER SIZE	EXISTING	
D=DIST E=EQUIP L=LIGHTS R=REC		VOLTAMF	rs	CB	ССТ	L1	L2	L3	ССТ	CB	v	VOLTAMP:	S	D=DIST E=EQUIP L=LIGHTS R=REC	
TYPEDESCRIPTION	Α	В	С	TR	NO	Α	В	С	NO	TR	А	В	С	DESCRIPTION	TYPE
L FAN #2	-			30	1	Α			2	30	-			#2 FAN #2	L
L		-		30	3		В		4	30		-			L
L		·	-	30	5		•	С	6	30			-		L
L COLD WATER AUX PUMP	-			30	7	Α		•	8	30	-			SPARE	L
-		-		30	9		В		10	30		-		#2 AIR COMPRESSOR	L
-		·	-	30	11			С	12	30			-	#1 AIR COMPRESSOR	L
L #1 COLD WATER HOUSE PUMP	-			30	13	Α		•	14	100	-			PANEL P-BB	L
L		-		30	15		В		16	100		-			L
L			-	30	17			С	18	100		•	-		L
L #2 COLDWATER HOUSE PUMP	-		1	30	19	Α		1	20	30	-			TOILET EXHAUST FAN	L
L		-		30	21		В		22	30		-			L
L		ł	-	30	23		1	С	24	30			-		L
L TOWER EXHAUST FANS	-		1	30	25	Α		1	26	20	-			BOOK ROOM SUMP	-
L		-		30	27		В		28	20		-			-
-		ł	-	30	29		1	С	30	20			-		-
- SPARE	-		1	20	31	Α		1	32	20	-			AIR COMPRESSOR	-
- SPARE		-		20	33		В		34	20		-			-
- SPARE			-	20	35		1	С	36	20			-		-
- HOT WATER CIRCULATION PUMP	-			20	37	Α		1	38	20	-			ROTC EXHAUST FAN	-
-		-		20	39		В		40	20		-			-
-			-	20	41		1	С	42	20		1	-		-
TOTAL PER PHASE	0	0	0	PC	WER	SYS.	ТЕМ Т	YPE	NML		0	0	0	TOTAL PER PHASE	I
NOTES: VERIFY SPARE AND SPACES PRIOR TO			1			Т	OTAL	VA P	ER P	HASE	0	0	0		0 VA
VERIFY AVAILABLE BREAKERS DUE TO DEMOL						тот	AL AM	1PS P	ER PI	HASE	0.0	0.0	0.0		0.0 A

[	ESIGNATION	L-BA (EXI	STING)			PANE	LBOA		CHE	DULE			PANEL L	OCATION	HALLWAY		
VOLTAGE S	YSTEM TYPE	208Y/120	V 3PH 4W	SN	E	BUS A	MPS					N	NEUTRAL %	6 RATING			
MCB-MLO - MAIN AMPS,	KAIC RATING		MLO	-	EN	CLOS		NEMA	<b>\-1</b>	SURF	ACE	N	EUTRAL B	US AMPS		ר	ΓΑ
	TVSS ENC	N/A	N/A	N/A								P	ANEL FEE	DER SIZE	EXISTING		
DIST E=EQUIP L=LIGHTS R=RE	С	١	VOLTAMP:	S	CB	ССТ	L1	L2	L3	ССТ	CB	,	VOLTAMP	S	D=DIST E=EQUIP L=LIGHTS R=REC		
DESCRIPTION		А	В	С	TR	NO	Α	В	С	NO	TR	А	В	С	DESCRIPTION	T	YP
EX LIGHTING - LUNCHROOM		-		-	20	1	A			2	20	-		-	EX LIGHTING - LUNCHROOM		L
EX LIGHTING - LUNCHROOM			-		20	3		В		4	20		-		EX LIGHTING - LUNCHROOM		L
EX LIGHTING - LUNCHROOM				-	20	5			С	6	20			-	EX LIGHTING - LUNCHROOM		L
<b>EX LIGHTING - LUNCHROOM</b>		-			20	7	Α			8	20	-			EX LIGHTING - LUNCHROOM		L
EX LIGHTING - LUNCHROOM			-		20	9		В		10	20		-		EX LIGHTING - LUNCHROOM		L
EX LIGHTING - LUNCHROOM				-	20	11			С	12	20			-	EX LIGHTING - LUNCHROOM		L
NEW PA SYSTEM - LUNCHRO	MOC	500			20	13	A			14	20	-			EX LIGHTING - LUNCHROOM		L
EX LIGHTING - LUNCHROOM			-		20	15		В		16	20		-		EX LIGHTING - FAN RM #5		L
EX LIGHTING - LUNCHROOM				-	20	17			С	18	20			-	EX LIGHTING - HALL & PLENUM #7		L
EX LIGHTING - EMPLY. LOCK	ER RM	-		•	20	19	A			20	20	-		•	EX LIGHTING - FAN RM #7		L
EX LIGHTING - STORAGE RM			-		20	21		В		22	20		-		EX RECEPT LUNCHROOM		R
EX RECEPT LUNCHROOM				-	20	23			С	24	20		•	1,500	NEW PROJECTOR AND SCREEN		Е
EX RECEPT LUNCHRM & F	REEZER	-		•	20	25	A		•	26	20	360		•	NEW RECEPT. BATHROOM		R
NEW RECEPT - BATHROOM			540		20	27		В		28	20		1,200		NEW HD-1, HAND DRYER		Е
NEW EF-5 - RM 011				-	20	29			С	30	20		•	1,200	NEW HD-2, HAND DRYER		Е
		-		•		31	A	ľ		32		-		•			-
			-			33		В		34			-				-
			•	-		35			С	36			•	-			-
		-		1		37	A		1	38		-		1			-
			-		1	39		В		40			-				-
			1	-	1	41			С	42				-			-
TOTA	PER PHASE	500	540	0	PC	WER	SYST	EM T	YPE	NML		360	1,200	2,700			
ES: VERIFY SPARE AND SPA	CES PRIOR TO	D INSTALL	ATION				тс	DTAL '	VA P	ER PH	IASE	860	1,740	2,700		5,300 '	VA
RIFY AVAILABLE BREAKERS D	UE TO DEMOL	ITION					τοτα		PS P			<u> </u>	14 5	22.5		14 7	Â

DESIGNATION	P-BB2 (E	XISTING)			PANE	LBO	ARD S	SCHE	DULE			PANEL L	OCATION	BOILER ROOM		
VOLTAGE SYSTEM TYPE	208Y/120	OV 3PH 4W	/ SN	E	BUS A	MPS	100				Ν	NEUTRAL 9	% RATING			
MCB-MLO - MAIN AMPS, KAIC RATING	400	MLO	-	EN	ICLOS	URE	NEM	A-1	SUR	FACE	N	IEUTRAL B	US AMPS		•	TA
TVSS ENC	N/A	N/A	N/A								Р	ANEL FEE	DER SIZE	EXISTING		
D=DIST E=EQUIP L=LIGHTS R=REC		VOLTAMP	S	СВ	ССТ	L1	L2	L3	ССТ	CB		VOLTAMP	S	D=DIST E=EQUIP L=LIGHTS R=REC	ł	
YPEDESCRIPTION	A	В	С	TR	NO	Α	В	С	NO	TR	А	В	С	DESCRIPTION	T	ΥP
EX	-			100	1	Α			2	100	-			EX		
		-		-	3		В		4	-		-				
			-	-	5			С	6	-			-			
EX	-			100	7	Α		1	8	50	-			EX		
		-		-	9		В		10	-		-				
			-	-	11			С	12	-		_	-			
SPACE	-			-	13	Α		1	14	30	-			EX		
		-		-	15		В		16	-		-				
			-	-	17			С	18	-			-			
EX	-			100	19	Α			20	50	-			EX		
		-		-	21		В		22	-		-				
			-	-	23			С	24	-			-			
EX	-			50	25	Α		1	26	50	-			EX		-
		-		-	27		В		28	-		-				-
-			-	-	29			С	30	-			-			-
- EX	-			30	31	Α		1	32	40	-			EX		-
-		-		-	33		В		34	-		-				-
-			-	-	35			С	36	-			-			-
- SPACE	-			-	37	Α			38	30	-			EX		-
-		-		-	39		В		40	-		-				-
-			-	-	41			С	42	-			-			-
TOTAL PER PHASE	0	0	0	PC	WER	SYS <sup>.</sup>	ГЕМ Т	YPE	NML		0	0	0	TOTAL PER PHASE		
NOTES: VERIFY SPARE AND SPACES PRIOR TO			1			Т	OTAL	VA P	ER PI	HASE	0	0	0		0	VA
/ERIEY AVAILABLE BREAKERS DUE TO DEMOI						тот					0.0	0.0	0.0		0.0	_

VOLTAGE SYSTEM TYPE         203*/VEV         FULS MEV         EUS MFS         200         MCV         TA         TA         TA         TA         NA         NA <th>DESIGNATION</th> <th>K-1 (EXIS</th> <th>STING)</th> <th></th> <th></th> <th>PANE</th> <th>LBO</th> <th>ARD S</th> <th>SCHE</th> <th>DULE</th> <th></th> <th></th> <th>PANEL L</th> <th>OCATION</th> <th>KITCHEN</th> <th></th> <th></th>	DESIGNATION	K-1 (EXIS	STING)			PANE	LBO	ARD S	SCHE	DULE			PANEL L	OCATION	KITCHEN		
Image: Main AMPS, KAIC ATTING         200         MLO         KNA         NA	VOLTAGE SYSTEM TYPE	208Y/120	0V 3PH 4W	' SN		BUS A	MPS	200				١	NEUTRAL 9	% RATING	100		
TYSS ENC         NA         Las         Las         Voltames         PANEL FEDER SKZE         Existing         Maint         Maint         Maint         Maint         Na	MCB-MLO - MAIN AMPS, KAIC RATING	200	MLO	-	EN		URE	NEM	A-1	SUR	FACE	N	IEUTRAL B	US AMPS	200		TA
Depise Teacourp L-LIGHTS R=REC     V OLTAMPS     CR     CT     R     V     V     R     R     C     NO	TVSS ENC	N/A	N/A	N/A								Р	ANEL FEE	DER SIZE	EXISTING		
DESCRIPTION     A     B     C     TR     NO     TR     A     B     C     DESCRIPTION     MP       EXLOAD     -     -     20     1     A     B     C     DESCRIPTION     FR     MO     TR     A     B     C     DESCRIPTION     MP       EXLOAD     -     -     -     3     A     B     C     DESCRIPTION     FR     A     B     C     DESCRIPTION     FR     A       I     -     -     1     -     3     A     B     C     B     C     DESCRIPTION     FR     A       I     -     -     1     -     -     1     C     6     -     C     FR     A     B     C     DESCRIPTION     FR       I     -     -     -     1     -     -     C     1     L <td>D=DIST E=EQUIP L=LIGHTS R=REC</td> <td></td> <td>VOLTAMP</td> <td>S</td> <td>CB</td> <td>ССТ</td> <td>L1</td> <td>L2</td> <td>L3</td> <td>ССТ</td> <td>CB</td> <td></td> <td>VOLTAMP</td> <td>S</td> <td>D=DIST E=EQUIP L=LIGHTS R=REC</td> <td>2</td> <td></td>	D=DIST E=EQUIP L=LIGHTS R=REC		VOLTAMP	S	CB	ССТ	L1	L2	L3	ССТ	CB		VOLTAMP	S	D=DIST E=EQUIP L=LIGHTS R=REC	2	
EX LOAD     -     -     20     1     A     -     2     50     -     EX TOP STEAMER     L       I     -     -     3     B     4     -     -     0     I     L       I     -     -     3     B     4     -     -     0     I     L       I     -     -     7     A     -     6     -     -     EX LOAD     L       I     -     -     7     A     -     6     20     -     EX LOAD     L     L       I     -     -     13     A     -     14     20     -     EX LOAD     L     L       I     -     -     13     A     -     14     20     -     EX BOTTOM STEAMER     L       I     -     -     13     A     -     16     20     -     EX BOTTOM STEAMER     L       I     -     -     13     A     -     16     20     -     EX BOTTOM STEAMER     L       I     -     -     50     13     A     -     C     16     20     -     EX MAIK IN FREEZER     L       I     -     -<	DESCRIPTION	А	В	С	TR	NO	Α	В	С	NO	TR	А	В	С	DESCRIPTION	1	ΓYΡ
Image: Image	EX LOAD	-			20	1	Α			2	50	-			EX TOP STEAMER		L
$ \begin{array}{                                    $	1		-		-	3		В		4	-		-				L
EX LOAD       -       -       20       7       A       -       8       20       -       EX LOAD       L			1	-	-	5			С	6	-		•	-			L
I     I     -     -     9     8     10     -     -     I     -     I     -     I<	EX LOAD	-		•	20	7	Α		1	8	20	-			EX LOAD		L
I     -     -     11     -     C     12     -     -     I     L			-		-	9		В		10	-		-				L
EX LOAD       -       -       50       13       A       -       14       20       -       EX BOTTOM STEAMER       L         I       -       -       15       V       B       16       20       -       I       L       L       L         EX LOAD       -       -       16       20       -       -       I       L       L         I       -       -       50       17       -       C       18       20       -       -       I       L       L         I       -       -       50       17       -       C       18       20       -       -       I       L			1	-	-	11			С	12	-			-			L
I        15      B      16     20      I </td <td>EX LOAD</td> <td>-</td> <td></td> <td>•</td> <td>50</td> <td>13</td> <td>Α</td> <td></td> <td></td> <td>14</td> <td>20</td> <td>-</td> <td></td> <td>•</td> <td>EX BOTTOM STEAMER</td> <td></td> <td>L</td>	EX LOAD	-		•	50	13	Α			14	20	-		•	EX BOTTOM STEAMER		L
EX LOAD       -       50       17       -       C       18       20       -       -       I       I       L       L         I       -       -       19       A       -       20       20       -       EX WALK IN FREEZER       L         I       -       -       30       21       B       22       -       -       I       I       L         I       -       -       23       EX       C       24       20       -       EX WALK IN FREEZER       L         I       -       -       23       EX       C       24       20       -       EX WALK IN FREEZER       L         I       -       -       23       EX       C       24       20       -       EX WALK IN FREEZER       L         I       -       -       23       EX       C       26       20       -       EX WALK IN FREEZER       -         I       -       -       29       C       30       20       -       EX WALK IN FREEZER       -         I       -       -       29       C       30       20       -       EX WALK IN FREEZER       - <td> </td> <td></td> <td>-</td> <td></td> <td>-</td> <td>15</td> <td></td> <td>В</td> <td></td> <td>16</td> <td>20</td> <td></td> <td>-</td> <td></td> <td> </td> <td></td> <td>L</td>			-		-	15		В		16	20		-				L
I       -       -       19       A       20       20       -       EX WALK IN FREEZER       L         EX LOAD       -       -       30       21       B       22       -       -       I       L       L         I       -       -       23       -       C       24       20       -       EX LOAD       L         I       -       -       23       C       24       20       -       EX LOAD       L         I       -       -       23       C       24       20       -       EX LOAD       L       L         I       -       -       20       25       A       Z       26       20       -       EX WALK IN FREEZER       L         I       -       -       27       B       28       -       -       EX WALK IN FREEZER       -         I       -       -       10       -       -       29       C       30       20       -       EX WALK IN FREEZER       -         I       -       -       12       -       C       30       20       -       EX WALK IN FREEZER       -       EX WALK IN FREZER	EX LOAD			-	50	17			С	18	20			-			L
EX LOAD             B          22           I	1	-			-	19	Α			20	20	-			EX WALK IN FREEZER		L
I23-C2420EX LOADLEX LOAD2025A-2620EX WALK IN FREEZER-I27B2828III29-C3020EX SPACEEX LOAD6031A-3220EX LOADEX LOAD6031A-3220EX LOADI33B34AIII35-C36III3337A-3860EX LOADIIIIII-III-I-I-I-I-I-I-I-III-IIIIIIIIIII<	EX LOAD		-		30	21		В		22	-		-				L
EX LOAD       -       20       25       A       26       20       -       EX WALK IN FREEZER       -         I       -       -       27       B       28       -       -       I       -       -       -       -       -       -       -       I       -	1			-	-	23			С	24	20			-	EX LOAD		L
Image:	EX LOAD	-			20	25	Α			26	20	-			EX WALK IN FREEZER		-
Image:	1		-		-	27		В		28	-		-				-
-       EX LOAD       -       60       31       A       32       20       -       EX LOAD       -	1			-	-	29		•	С	30	20			-	EX SPACE		-
-I33B34I-I-I35 $\cdot$ C36I-IEX LOAD3037A $\cdot$ 3860-EX LOAD-IIIII-IIII-I-I-I-I-I-I-II-II<	- EX LOAD	-			60	31	Α			32	20	-			EX LOAD		-
-       I       -       -       35       -       C       36       -       -       I       -       I       -       -       I       -       -       I       -       -       I       -       -       I       -       -       I       -       I       -       -       I       I       -       -       I       I       -       -       I       I       -       -       I       I       -       -       I       I       -       I	-		-		-	33		В		34	-		-				-
-       EX LOAD       -       30       37       A       38       60       -       EX LOAD       -	-			-	-	35			С	36	-			-			-
-       -       -       -       39       B       40       -       -       I       -	- EX LOAD	-			30	37	Α			38	60	-			EX LOAD		-
-       -       -       -       41       C       42       -       -       -               -       -               -       -               -       -               -	-		-		-	39		В		40	-		-				-
TOTAL PER PHASE000POWER SYSTEM TYPE NML000TOTAL PER PHASENOTES: VERIFY SPARE AND SPACES PRIOR TO INSTALLATIONTOTAL VA PER PHASE00 <td>-  </td> <td></td> <td></td> <td>-</td> <td>-</td> <td>41</td> <td></td> <td></td> <td>С</td> <td>42</td> <td>-</td> <td></td> <td></td> <td>-</td> <td> </td> <td></td> <td>-</td>	-			-	-	41			С	42	-			-			-
NOTES: VERIFY SPARE AND SPACES PRIOR TO INSTALLATIONTOTAL VA PER PHASE000VAVERIFY AVAILABLE BREAKERS DUE TO DEMOLITIONTOTAL AMPS PER PHASE0.0 <td< td=""><td>TOTAL PER PHASE</td><td>0</td><td>0</td><td>0</td><td>P</td><td>OWER</td><td>SYS.</td><td>TEM 1</td><td><b>TYPE</b></td><td>NML</td><td></td><td>0</td><td>0</td><td>0</td><td>TOTAL PER PHASE</td><td></td><td></td></td<>	TOTAL PER PHASE	0	0	0	P	OWER	SYS.	TEM 1	<b>TYPE</b>	NML		0	0	0	TOTAL PER PHASE		
VERIFY AVAILABLE BREAKERS DUE TO DEMOLITION TOTAL AMPS PER PHASE 0.0 0.0 0.0 0.0 0.0 A	NOTES: VERIFY SPARE AND SPACES PRIOR TO	) INSTALI	LATION	-	•		Т	OTAL	. VA F	PER PH	HASE	0	0	0		0	VA
	VERIFY AVAILABLE BREAKERS DUE TO DEMOL	ITION					тот	AL AM	IPS F	PER PH	HASE	0.0	0.0	0.0		0.0	Α



NOTES:

ALL PANELS ARE EXISTING.

	DESIGNATION	K-2 (EXIS	STING)		I	PANE	LBO	ARD S	SCHE	DULE			PANEL L	OCATION	KITCHEN
		208Y/120	V 3PH 4W	SN		BUS A	MPS	200		0110		N	EUTRAL %	6 RATING	100
	MCB-MLO - MAIN AMPS, KAIC RATING	200 N/A	MLO N/A	- NI/A	EN	CLOS	URE	NEM/	4-1	SURF	ACE	N			
D=D	IST E=EQUIP L=LIGHTS R=REC			S	СВ	ССТ	L1	L2	L3	ССТ	СВ	 		S S S S S S S S S S S S S S S S S S S	D=DIST E=I
YPE	DESCRIPTION	А	В	С	TR	NO	Α	В	С	NO	TR	А	В	С	DESCRIPTIC
L	NEW EF-6	696			20	1	Α			2	20	696			NEW EF-7
L	EX KITCHEN LIGHTS		-		20	3		В		4	20		-		EX HOOD LI
L				-	20	5			С	6	20			-	EX TEACHE
L		-			20	/ 9	A	B		8	20	-			
-	EX KITCHEN STOVE LIGHTS		_	-	20	11		D	С	12	20		_	-	EX SERVINO
L	EX EXHAUST FAN	-			20	13	Α			14	20	-			EX SERVINO
L	EX KITCHEN - REACH IN COOLER		-		20	15		В		16	20		-		EX PLUG-IN
L	NEW HFD-1		1	1,500	20	17			С	18	20		1	-	SO. SIDE W
L		1,500	1 500		20	19	Α		1	20	20	-			WEST SER
<u> </u>			1,500	1 500	20	21 23		В	C	22 24	20 20		-	1 044	GRILL NEW CP-1 8
<u> </u>	NEW HED-3	1.500		1,000	20	25	Α		C	24	20	1.044		1,044	NEW CP-1 8
L			1,500		20	27		В		28	20		-		ALLEY ENT
-	NEW HFD-4		1	1,500	20	29			С	30	20			1,044	NEW CP-2 8
-		1,500		1	20	31	Α		1	32	20	1,200			NEW IM-1
-	NEW HFD-5		1,500		20	33		В		34	20		1,200		NEW IM-2
-		4 500	1	1,500	20	35			С	36	20	1 200		1,200	NEW FR-1
-		1,500	1 500		20	37	A	B		38	20	1,200	1 200		
_	SPARE		1,000	-	20	41		D	С	42	20		1,200	1.200	NEW FR-4
	TOTAL PER PHASE	6,696	6,000	6,000	PC	WER	SYS <sup>.</sup>	ТЕМ Т	YPE	NML		4,140	2,400	4,488	TOTAL PER
NOT	ES: VERIFY SPARE AND SPACES PRIOR TO	) INSTALL					Т	OTAL	VA P	ER PH	IASE	10,836	8,400	10,488	$\sim$
VER	RIFY AVAILABLE BREAKERS DUE TO DEMO	ITION					TOT	AL AM	IPS P	ER PH	IASE	90.3	70.0	87.4	¥ ¥
												$\sim$	$\sim\sim$		$\sim$
	DESIGNATION	AC-2S (E	XISTING)			PANE	LBO	ARD S	SCHE	DULE			PANEL L	OCATION	
	VOLTAGE SYSTEM TYPE	208Y/120	V 3PH 4W	SN	I	BUS A	MPS					Ν	EUTRAL %	6 RATING	
	MCB-MLO - MAIN AMPS, KAIC RATING		MLO	-	EN	CLOS	URE	NEM	4-1	SURF	ACE	Ν	EUTRAL B	US AMPS	
	TVSS ENC	N/A	N/A	N/A			1					P	ANEL FEE	DER SIZE	EXISTING
D=D	IST E=EQUIP L=LIGHTS R=REC			S		ССТ	L1	L2	L3	ССТ	CB			S	D=DIST E=I
YPE		A	В	C	1R 20	NO 1	A	В	C	NO 2	1R 20	A	В	C	
		-	-		-	3	<b>A</b>	в		4	20		-		
R	NEW RECEPT BATHROOMS			360	20	5			С	6	20			-	EX SPARE
Е	NEW TEF-2	696		1	20	7	Α		1	8	20	-		I	EX SPARE
	EX SPARE		-		20	9		В		10	20		-		EX SPARE
	EX SPARE			-	20	11		1	C	12	20		1	-	EX SPARE
		-		1	20	13	A			14	20	-			EX SPARE
			-		20	15		В	C	16	20 20		-	_	EX SPARE
	EX SPARE	_		-	20	17	Δ			20	20	_		-	EX SPARE
	EX SPARE		-		20	21		В		22	20		-		EX SPARE
	EX SPARE			-	20	23			С	24	20			-	EX SPARE
	EX SPARE	-			20	25	Α			26	20	-			EX SPARE
	EX SPARE		-		20	27		В		28	20		-		EX SPARE
	EX INSIDE AC UNIT - MDF		1	-	20	29		1	C	30	20		1	-	EX SPARE
-		-		1	-	31	A		r –	32	20	-		[	EX EF 5
-			-		20	33		В	<b>C</b>	34	-		-		
-				-	20	35			L	30	- 20			-	
-	EX OUSIDE AC UNIT - MDE	-	_		20	39		В		40	20		-		EX SPARE
-				-	-	41			С	42	20			-	EX SPARE
	TOTAL PER PHASE	696	0	360	PC	WER	SYS.	ТЕМ Т	YPE	NML		0	0	0	
NOT	ES: VERIFY SPARE AND SPACES PRIOR TO	) INSTALL			1		Т	OTAL	VA P	ER PH	IASE	696	0	360	
VER	RIFY AVAILABLE BREAKERS DUE TO DEMO	ITION					TOT	AL AM	IPS P	ER PH	IASE	5.8	0.0	3.0	$\sim$
												$\sim$	$\sim$	$\sim$	$\sim$
	DESIGNATION	AC-3S (E	XISTING)			PANE	LBO	ARD S	SCHE	DULE			PANEL L	OCATION	
		208Y/120		SN										6 RATING	
	VOLTAGE SYSTEM TYPE		JV 31114VV			BUS A	MPS					Ν	IEUTRAL %	••••••	
	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING		MLO	-	EN	BUS A ICLOS		NEM	A-1	SURF	ACE	N N	EUTRAL 9	US AMPS	
	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC	N/A	MLO N/A	- N/A	EN	BUS A		NEM	A-1	SURF	ACE	N P	EUTRAL 9 EUTRAL B ANEL FEE	US AMPS DER SIZE	
D=D	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC	N/A	MLO N/A VOLTAMP	- N/A S	EN CB			NEM	A-1	SURF	CB	N N P	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMP	US AMPS DER SIZE	EXISTING D=DIST E=
D=D TYPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION	N/A A	MLO N/A VOLTAMP	- N/A S C	EN CB TR 20	BUS A	MPS URE	NEM	A-1 L3 C	SURF CCT NO	ACE CB TR	N N P	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMPS B	US AMPS DER SIZE S C	EXISTING D=DIST E= DESCRIPTIC
D=D YPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH	N/A A -	MLO N/A VOLTAMP B	- N/A S C	EN CB TR 20	CLOS	MPS SURE	NEM	A-1 L3 C	SURF CCT NO 2 4	ACE CB TR 20	N N P A	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMPS B	US AMPS DER SIZE S C	EXISTING D=DIST E= DESCRIPTIC EX AC UNIT
D=D YPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD	N/A A -	MLO N/A VOLTAMP B -	- N/A S C	EN CB TR 20 - 20	CLOS	MPS SURE	NEM L2 B B	A-1 L3 C	SURF CCT NO 2 4 6	CB TR 20 - 20	N N P A -	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMPS B	US AMPS DER SIZE S C	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT
D=D YPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF	N/A A -	MLO N/A VOLTAMP B -	- N/A S C	EN CB TR 20 - 20 20	CLOS	MPS SURE	NEM	A-1 L3 C	SURF CCT NO 2 4 6 8	ACE CB TR 20 - 20 20	N N P A -	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMPS B -	US AMPS DER SIZE S C	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT EX CCTV EX RECEPT
D=D YPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF 	N/A A -	MLO N/A VOLTAMP B	- N/A S C	EN CB TR 20 - 20 20 20 -	CLOS	MPS SURE	NEM	A-1 L3 C	SURF CCT NO 2 4 6 8 10	ACE CB TR 20 - 20 20 20	N N P A -	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMPS B -	US AMPS DER SIZE S C	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT   EX CCTV EX RECEPT EX HAND DI
D=D YPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF   	N/A A -	MLO N/A VOLTAMP	- N/A S C -	EN CB TR 20 - 20 20 - - 20 -	BUS A           ICLOS           CCT           NO           1           3           5           7           9           11	MPS SURE	NEM	A-1 L3 C C C C	SURF CCT NO 2 4 6 8 10 12	CB TR 20 - 20 20 20 20 20	N N P A -	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMPS B -	US AMPS DER SIZE S C -	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT EX CCTV EX RECEPT EX HAND DI EX LOW VO
D=D YPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF   EX EF	N/A A -	MLO N/A VOLTAMP	- N/A S C -	EN CB TR 20 - 20 20 - - 20 - 20	BUS A ICLOS CCT NO 1 3 5 7 9 11 13	MPS SURE	NEM, L2 B B B	A-1 L3 C C C	SURF CCT NO 2 4 6 8 10 12 14	CB TR 20 - 20 20 20 20 20	N N P A -	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMPS B -	US AMPS DER SIZE S C -	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT I EX CCTV EX RECEPT EX HAND DI EX LOW VO EX SPARE
D=D YPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF   L EX EF	N/A A - -	MLO N/A VOLTAMP	- N/A S C	EN CB TR 20 - 20 20 - - 20 - 20 - - 20 -	BUS A ICLOS CCT NO 1 3 5 7 9 11 13 15 15	MPS SURE	NEM, L2 B B B	A-1 L3 C C C	SURF CCT NO 2 4 6 8 10 12 14 16 40	CB TR 20 - 20 20 20 20 20 20 20 20	N N P A -	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMPS B -	US AMPS DER SIZE S C -	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT   EX CCTV EX RECEPT EX HAND DI EX LOW VO EX SPARE EX SPARE
D=D YPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF     EX EF     EX EF     EX TEF-1	N/A A - -	MLO N/A VOLTAMP	- N/A S C -	EN CB TR 20 - 20 20 - - 20 - 20 - - 20 - 20 - 2	BUS A ICLOS CCT NO 1 3 5 7 9 11 13 15 17 10	MPS SURE	NEM/ L2 B B B B	A-1 L3 C C C C	SURF CCT NO 2 4 6 8 10 12 14 16 18 20	CB TR 20 - 20 20 20 20 20 20 20 20 20 20 20 20 20	N N P A -	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMPS B -	US AMPS DER SIZE S C -	EXISTING D=DIST E= DESCRIPTIC EX AC UNIT I EX CCTV EX RECEPT EX HAND D EX LOW VO EX SPARE EX SPARE EX SPARE EX SPARE
D=D TYPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF     EX EF     EX EF     EX TEF-1 NEW RECEPT BATHROOM	N/A A - - -	MLO N/A VOLTAMP B - - - - - - - - - - - - -	- N/A S C -	EN CB TR 20 - 20 20 - 20 - 20 - 20 - 20 - 20 20 20	BUS A ICLOS CCT NO 1 3 5 7 9 11 13 15 17 19 21	MPS SURE	NEM L2 B B B B B	A-1 L3 C C C C	SURF NO 2 4 6 8 10 12 14 16 18 20 22	CB TR 20 - 20 20 20 20 20 20 20 20 20 20 20 20 20	N N P A - -	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMPS B -	US AMPS DER SIZE S C -	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT   EX CCTV EX RECEPT EX HAND DI EX LOW VO EX SPARE EX SPARE EX SPARE EX SPARE
D=D TYPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF     EX EF     EX EF     EX TEF-1 NEW RECEPT. BATHROOM NEW TEF-3	N/A A - -	MLO N/A VOLTAMP B - -	- N/A S C -	EN CB TR 20 - 20 20 - 20 - 20 - 20 - 20 20 20 20	BUS A ICLOS CCT NO 1 3 5 7 9 11 13 15 17 19 21 23	MPS SURE	NEM L2 B B B B	A-1 L3 C C C C	SURF CCT NO 2 4 6 8 10 12 14 16 18 20 22 24	CB TR 20 20 20 20 20 20 20 20 20 20 20 20 20	N N P A -	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMPS B -	US AMPS DER SIZE S C -	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT   EX CCTV EX RECEPT EX HAND DI EX LOW VO EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE
D=D YPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF     EX EF     EX EF     EX TEF-1 NEW RECEPT. BATHROOM NEW TEF-3 EX SPARE	N/A A - - -	MLO N/A VOLTAMP B - - - 180	- N/A S C -	EN CB TR 20 - 20 20 - 20 - 20 - 20 20 20 20 20	BUS A ICLOS CCT NO 1 3 5 7 9 11 13 15 17 19 21 23 25	MPS SURE	NEM L2 B B B B B	A-1 L3 C C C C C	SURF CCT NO 2 4 6 8 10 12 14 16 18 20 22 24 26	ACE CB TR 20 20 20 20 20 20 20 20 20 20 20 20 20	N N P A - -	EUTRAL 9 EUT	US AMPS DER SIZE S C -	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT EX AC UNIT EX RECEPT EX RECEPT EX HAND DI EX LOW VO EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE
D=D YPE	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF       EX EF       EX EF       EX EF     EX TEF-1 NEW RECEPT. BATHROOM NEW TEF-3 EX SPARE EX SPARE	N/A A	MLO N/A VOLTAMP B - - - 180	- N/A S C	EN CB TR 20 20 20 - 20 - 20 - 20 20 20 20 20 20 20 20	BUS A ICLOS CCT NO 1 3 5 7 9 11 13 15 17 19 21 23 25 27	MPS SURE	NEM L2 B B B B B B	A-1 L3 C C C C C	SURF CCT NO 2 4 6 8 10 12 14 16 18 20 22 24 26 28	CB TR 20 20 20 20 20 20 20 20 20 20 20 20 20	N N P A -		US AMPS DER SIZE S C -	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT I EX CCTV EX RECEPT EX HAND D EX LOW VO EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE
D=D YPE R E	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF     EX EF     EX EF     EX TEF-1 NEW RECEPT. BATHROOM NEW TEF-3 EX SPARE EX SPARE EX SPARE	N/A A	MLO N/A VOLTAMP B - - - 180	- N/A S C -	EN CB TR 20 20 20 20 - 20 20 20 20 20 20 20 20 20 20	BUS A ICLOS CCT NO 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	MPS SURE	NEM, L2 B B B B B	A-1 L3 C C C C C C	SURF CCT NO 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30	ACE CB TR 20 20 20 20 20 20 20 20 20 20 20 20 20	N N P A -	EUTRAL 9 EUTRAL 9 EUTRAL 9 EUTRAL 9 ANEL FEE VOLTAMPS B	US AMPS DER SIZE S C -	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT EX AC UNIT EX CCTV EX RECEPT EX HAND DI EX LOW VO EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE
	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF     EX EF     EX EF     EX TEF-1 NEW RECEPT. BATHROOM NEW TEF-3 EX SPARE EX SPARE EX SPARE EX SPARE	N/A A - - - - -	MLO N/A VOLTAMP B 	- N/A S C -	EN CB TR 20 20 20 20 - 20 20 20 20 20 20 20 20 20 20 20 20 20	BUS A ICLOS CCT NO 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31	MPS SURE	NEM L2 B B B B B B B	A-1 L3 C C C C C C	SURF NO 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32	CB TR 20 20 20 20 20 20 20 20 20 20 20 20 20	N N P A - - -	EUTRAL 9 EUTRAL B ANEL FEE VOLTAMPS B - -	US AMPS DER SIZE S C -	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT EX AC UNIT EX CCTV EX RECEPT EX HAND DI EX LOW VO EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE
D=D TYPE R E 	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF     EX EF     EX EF     EX TEF-1 NEW RECEPT. BATHROOM NEW TEF-3 EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE	N/A A - - - - - - - - - - - - - - -	MLO N/A VOLTAMP B - - - - - - - - - - - -	- N/A S C -	EN CB TR 20 20 20 20 - 20 20 20 20 20 20 20 20 20 20 20 20 20	BUS A ICLOS CCT NO 1 3 5 7 9 11 13 15 7 9 11 13 15 17 19 21 23 25 27 29 31 33	MPS SURE	NEM, L2 B B B B B B B	A-1 L3 C C C C C C C	SURF NO 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34	ACE CB TR 20 20 20 20 20 20 20 20 20 20 20 20 20	N N P A - - - -		US AMPS DER SIZE S C -	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT EX AC UNIT EX RECEPT EX RECEPT EX HAND DI EX LOW VO EX SPARE EX SPARE
D=D YPE R E 	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF     EX EF     EX EF     EX TEF-1 NEW RECEPT. BATHROOM NEW TEF-3 EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE	N/A A A	MLO N/A VOLTAMP B - - - 180 -	- N/A S C -	EN CB TR 20 20 20 20 20 20 20 20 20 20	BUS A ICLOS CCT NO 1 3 5 7 9 11 13 15 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35	MPS SURE	NEM, L2 B B B B B B B B B B	A-1 L3 C C C C C C C C	SURF NO 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36	ACE CB TR 20 20 20 20 20 20 20 20 20 20 20 20 20	N N P A - -		US AMPS DER SIZE S C - -	EXISTING D=DIST E= DESCRIPTIC EX AC UNIT EX AC UNIT EX CCTV EX RECEPT EX HAND D EX LOW VO EX SPARE EX SPARE
	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH   EX LOAD EX EF     EX EF     EX EF     EX TEF-1 NEW RECEPT. BATHROOM NEW TEF-3 EX SPARE EX SPARE	N/A A A	MLO N/A VOLTAMP B - - - - 180 -	- N/A S C -	EN CB TR 20 20 20 20 20 20 20 20 20 20	BUS A ICLOS CCT NO 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 20	MPS SURE	NEM.         L2         B	A-1 L3 C C C C C C C C	SURF NO 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	ACE CB TR 20 20 20 20 20 20 20 20 20 20 20 20 20	N N P A - - -		US AMPS DER SIZE S C - - -	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT EX AC UNIT EX RECEPT EX RECEPT EX HAND DI EX LOW VO EX SPARE EX SPARE
D=D YPE R E 	VOLTAGE SYSTEM TYPE MCB-MLO - MAIN AMPS, KAIC RATING TVSS ENC IVSS ENC IST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 SOUTH EX LOAD EX LOAD EX EF I I EX EF I I EX TEF-1 NEW RECEPT. BATHROOM NEW TEF-3 EX SPARE EX SPARE	N/A A A	MLO N/A VOLTAMP B - - - - - - - - - - - - - - - - - -	- N/A S C - -	EN CB TR 20 20 20 20 20 20 20 20 20 20	BUS A ICLOS CCT NO 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 23 25 27 29 31 33 35 37 39 41	MPS URE	NEM,         L2         B	A-1 L3 C C C C C C C C C	SURF NO 2 4 6 8 10 12 14 16 18 20 22 24 26 22 24 26 28 30 32 34 36 38 40 42	ACE CB TR 20 20 20 20 20 20 20 20 20 20 20 20 20	N N P A - - -		US AMPS DER SIZE S C - - - - -	EXISTING D=DIST E= DESCRIPTIO EX AC UNIT EX AC UNIT EX RECEPT EX RECEPT EX HAND D EX LOW VC EX SPARE EX SPARE

 TOTAL PER PHASE
 0
 180
 696
 POWER SYSTEM TYPE NML
 0
 0
 0

Date of Issue: April 19, 2017		
PBC: Lake View High School Renovation Project	C1583 - Addendum No.	1

NOTES: VERIFY SPARE AND SPACES PRIOR TO INSTALLATION

VERIFY AVAILABLE BREAKERS DUE TO DEMOLITION

novation Project\_C158 w High Scho

N	KITCHEN	
G	100	
S	200	TAG
Έ	EXISTING	
	D=DIST E=EQUIP L=LIGHTS R=REC	
	DESCRIPTION	ΓΥΡΙ
	NEW EF-7	L
	EX HOOD LIGHTS	L
	EX TEACHERS LUNCH ROOM LIGHTS	Ц
	EX MANAGER OFFICE LIGHTING	Ц
	SOUTH SIDE RECEPTACLE	L
	EX SERVING LINE LIGHTS	L
	EX SERVING LINE LIGHTS	L
	EX PLUG-IN MIXER	L
	SO. SIDE WALL RECEPTACLE	L
	WEST SERVING RECEPTACLE	L
	GRILL	L
	NEW CP-1 & MC-1	L
	NEW CP-2 & MC-2	I.
	ALLEY ENTRANCE	-
	NEW CP-2 & MC-2	-
	NEW IM-1	-
	NEW IM-2	-
	NEW FR-1	-
	NEW FR-2	-
	NEW FR-3	-
	NEW FR-4	-
	TOTAL PER PHASE	
<u>}</u>	29,724	VA
	82.6	Α

VOLTAGE SYSTEM TYPE208/H2SPH WSPBUS MPSSUF VNEUTRAL $\otimes$ RATINGMedical (Second Second	
MCB-MLO - MAIN AMPS, KAIC RATINGMLO··ENCLOSURENEMA-1SURFACENEUTRAL BUS AMPSCEURAL BUS AMPS <td></td>	
TVSS ENCN/ALUUN/AN/AN/ALL <thl< th="">LLL<td>TA</td></thl<>	TA
DeDist e=equip L=LIGHTS R=REC     VOLTAMPS     CB     CC     L1     L2     L3     CC     CB     VOLTAMPS     DeDIST E=EQUIP L=LIGHTS R=REC       YPE     DESCRIPTION     A     B     C     TR     NO     A     B     C     NO     TR     A     B     C     DEDIST E=EQUIP L=LIGHTS R=REC       YPE     DESCRIPTION     A     B     C     TR     NO     A     B     C     DEDIST E=EQUIP L=LIGHTS R=REC       YPE     DESCRIPTION     A     B     C     NO     TR     A     B     C     DEDIST E=EQUIP L=LIGHTS R=REC       YPE     DESCRIPTION     A     B     C     NO     TR     A     B     C     DEDIST E=EQUIP L=LIGHTS R=REC       YPE     DESCRIPTION     A     I     I     Z     Z     NO     TR     A     B     C     DEDIST E=EQUIP L=LIGHTS R=REC       YPE     I     A     I     <	
YPE DESCRIPTIONABCTRNOABCNOTRABCDESCRIPTIONEX AC UNIT RM 126 NORTH201A200EX AC UNIT RM 126 SOUTHII30B200EX AC UNIT RM 126 SOUTHIII30B20620IIIEX SPARE205I620IIIIEX ACUV VOLTAGE207AIIIIIIIIEX ACUN VOLTAGE12097AIIIIIIIEX AC.N.O11IIIIIIIIIIIIRNEW RECEPT. BATHROOMII1III	
EXACUNIT RM 126 NORTH       20     1     A      2     2     20      EX AC UNIT RM 126 SOUTH       I     I     I     I     I     I     I     I     I     I     I     I     I     I       I     I     I     I     I     I     I     I     I     I     I     I       I     I     I     I     I     I     I     I     I     I     I     I     I       I	TYF
Image: Image	
EX SPARE       20     5      C     6     20      L A C UNITRM 138       EX RECEPT. BATHROOM       20     7     A      8   .	
EX RECEPT. BATHROOM         20       7       A         I<	
EX LOW VOLTAGE       -       -       20       9       0       8       10       20        EX SPARE         EX HAND DRYER        -       20       11        C       12       20        EX SPARE         EX AC.N.O         20       13       A        14       20        EX SPARE         EX A.C.N.O         20       15       A       B       16       20        EX SPARE         R       NEW RECEPT. BATHROOM        360       20       17        16       20        EX SPARE         E       NEW TEF-1       696        360       20       17        18       20        EX SPARE         E       NEW TEF-5       696        360       20       17        18       20        5       EX SPARE         E       NEW TEF-5       696        100       20       17        10       20       20        1-       EX SPARE         EX SPARE        696	
EX HAND DRYER-2011 $\cdot$ C1220-EX SPAREEX A.C.N.O2013A $\cdot$ 1420-EX SPAREEX A.C.N.O2015AB1620-EX SPARERNEW RECEPT. BATHROOM-3602017 $\cdot$ C1820-EX SPAREENEW TEF-1696-2019A $\cdot$ 2020-EX SPAREENEW TEF-51002021B2220-EX SPAREEX SPARE2023 $\cdot$ C2420-EX SPAREEX SPARE2023 $\cdot$ C2420-EX SPAREEX SPARE2025A $\cdot$ 2620 $-$ EX SPARE	
EX A.C.N.O-2013A $\cdot$ 1420-EX SPAREEX A.C.N.O2015B1620-EX SPARERNEW RECEPT. BATHROOM-3602017 $\cdot$ C1820-EX SPAREENEW TEF-1696 $\cdot$ 2019A $\cdot$ 2020-EX SPAREENEW TEF-51002021B2220-EX SPAREEX SPARE-2023 $\cdot$ C2420 $\cdot$ EX SPAREEX SPARE-2023 $\cdot$ C2420 $\cdot$ EX SPAREEX SPARE-2025A $\cdot$ 2620 $-$ EX SPARE	
EX A.C.N.OImage: Constraint of the symplectic co	
RNEW RECEPT. BATHROOM3602017C1820-EX SPAREENEW TEF-16962019AZ02020-EX SPAREENEW TEF-51002021B2220-EX SPAREEX SPARE-2023C2420-EX SPAREEX SPARE-2023C2420-EX SPARE	
ENEW TEF-16962019A $\cdot$ 2020 $-$ EX SPAREENEW TEF-51002021B2220 $-$ EX SPAREEX SPARE $-$ 2023 $\cdot$ C2420 $-$ EX SPAREEX SPARE $-$ 2025A $-$ 2620 $-$ EX SPARE	
ENEW TEF-51002021B2220-EX SPAREEX SPARE-2023C2420-EX SPAREEX SPARE-2025AC2620CEX SPARE	
EX SPARE       -       20       23       C       24       20       -       EX SPARE         EX SPARE       -       20       25       A       -       26       20       -       EX SPARE	
EX SPARE - 20 27 B 28 20 - EX SPARE	
EX SPARE - 20 29 C 30 20 - EX SPARE	
- EX SPARE - 20 31 A 32 20 - EX SPARE	-
- EX SPARE	
- EX SPARE - 20(35 C 36 20 600 SHADE MOTOR	-
- EX SPARE - 20 37 A 38 20 600 SHADE MOTOR	-
- EX SPARE - 20 39 B 40 20 600 SHADE MOTOR	-
- EX SPARE - 20 41 C 42 20 600 SHADE MOTOR	-
TOTAL PER PHASE 696 100 360 POWER SYSTEM TYPE NML 600 600 1,200	<b>I</b>
NOTES: VERIFY SPARE AND SPACES PRIOR TO INSTALLATION (TOTAL VA PER PHASE 1,296 700 1,560 3,	556 VA
VERIFY AVAILABLE BREAKERS DUE TO DEMOLITION TOTAL AMPS PER PHASE 10.8 5.8 13.0	9.9 A

NG **IPS** TAG SIZE EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 222 NORTH EX SPARE EX EF 5 EX LOW VOLTAGE CONTROL PNL EX SPARE EX SPARE 60 1,056 VA .0 2.9 A ION ING TAG **MPS** SIZE EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION TYPE EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT. - BATHROOM EX HAND DRYER EX LOW VOLTAGE EX SPARE EX SPARE

 TOTAL VA PER PHASE
 0
 180
 696
 876
 VA
 1

 TOTAL AMPS PER PHASE
 0.0
 1.5
 5.8
 2.4
 A
 1

	DESIGNATION	AC-2N (E	XISTING)			PANE	LBO	ARD S	СНЕ	DULE			PANEL L	OCATION		
	VOLTAGE SYSTEM TYPE	208Y/120	V 3PH 4W	SN		BUS A	MPS					N	IEUTRAL %	6 RATING	i	
	MCB-MLO - MAIN AMPS, KAIC RATING		MLO	-	EN		URE	NEM	<b>\-1</b>	SURF	ACE	N	EUTRAL B	US AMPS		TAC
	TVSS ENC	N/A	N/A	N/A								P/	ANEL FEE	DER SIZE	EXISTING	
D=DI	ST E=EQUIP L=LIGHTS R=REC	,	VOLTAMP	S	CB	ССТ	L1	L2	L3	ССТ	CB	١	VOLTAMP	S	D=DIST E=EQUIP L=LIGHTS R=REC	
YPE	DESCRIPTION	А	В	С	TR	NO	Α	В	С	NO	TR	Α	В	С	DESCRIPTION	TYP
	EX AC UNIT RM 209 SOUTH	-			20	1	Α		•	2	20	-		·	EX AC UNIT RM 209 NORTH	
			-		-	3		В		4	-		-		1	
	EX AC UNIT RM 120			-	20	5			С	6	20			-	EX SPARE	
		-			-	7	Α			8	20	-			EX SPARE	
	NEW RECEPT. BATHROOM		180		20	9		В		10	20		-		EX SPARE	
	EX SPARE			-	20	11		•	С	12	20			-	EX SPARE	
	EX SPARE	-			20	13	Α			14	20	-		·	EX SPARE	
	EX SPARE		-		20	15		В		16	20		-		EX SPARE	
	EX SPARE			-	20	17			С	18	20			-	EX SPARE	
	EX SPARE	-			20	19	Α			20	20	-			EX SPARE	
	EX SPARE		-		20	21		В		22	20		-		EX SPARE	
	EX SPARE			-	20	23			С	24	20			-	EX SPARE	
	EX SPARE	-			20	25	Α			26	20	-		·	EX SPARE	
	EX SPARE		-		20	27		В		28	20		-		EX SPARE	
	EX SPARE			-	20	29			С	30	20			-	EX SPARE	
-	EX SPARE	-			20	31	Α		•	32	20	-		•	EX SPARE	-
-	EX SPARE		-		20	33		В		34	20		-		EX SPARE	-
$\overline{}$	X SPARE	$\sim$	$\sim$		-20-	35		$\sim$	6	36	20	$\sim$			EXSPARE	-\
-		1,000			20	37	Α	Ý	•	38	20	1,000		· · · ·		-
-	HEAT TRACING PANEL		1,000		20	39		В		40	20		1,000		HEAT TRACING PANEL	-
-				1,000	20	41			С	42	20			1,000	1	-
	TOTAL PER PHASE	1,000	1,180	1,000	PC	OWER	SYS	ТЕМ Т	YPE	NML		1,000	1,000	1,000	m	
TO	S: VERIFY SPARE AND SPACES PRIOR TO	) INSTALL	ATION	•			Т	OTAL	VA P	PER PH	IASE	2,000	2,180	2,000	6,1	80 VA
/ER	FY AVAILABLE BREAKERS DUE TO DEMOL	ITION					тот	AL AM	PS P	ER PH	IASE	16.7	18.2	16.7	1	7.2 A

N		DESIGNAT	FION P-BB1 (E)	XISTING)			PANE	LBOARD	SCHEI	DULE			PANEL L	ΟΓΑΤΙΟ	N BOILER ROOM	
G		VOLTAGE SYSTEM T	YPE 208Y/120	V 3PH 4W	SN	E	BUS AI	MPS 100				N	EUTRAL %	6 RATIN	G 100	
S	TAG	MCB-MLO - MAIN AMPS, KAIC RAT	TING 100	MLO	-	EN	CLOS	JRE NEM	A-1	SURF	ACE	NE	EUTRAL B	US AMP	S 100	TA
EXISTING		TVSS	ENC N/A	N/A	N/A							PA	NEL FEE	DER SIZ	EXISTING	
D=DIST E=EQUIP L=LIGHTS R=REC		D=DIST E=EQUIP L=LIGHTS R=REC	Ň	/OLTAMPS	S	CB	ССТ	L1 L2	L3	ССТ	CB	V	OLTAMPS	S	D=DIST E=EQUIP L=LIGHTS R=REC	
DESCRIPTION	TYPE	TYPEDESCRIPTION	A	В	С	TR	NO	A B	С	NO	TR	А	В	С	DESCRIPTION	TYF
EX AC UNIT - RM 328 NORTH		EX SET #1 PUMP #1 OIL	-			20	1	Α		2	20	-			EX SET #2 PUMP #1	
				-		-	3	В		4	-		-			
EX CCTV					-	-	5		С	6	-			-		
EX RECEPT BATHROOM		EX SET #1 PUMP #2	-			20	7	Α		8	20	-			EX SET #2 PUMP #2	
EX HAND DRYER				-		-	9	В		10	-		-			
EX LOW VOLTAGE					-	-	11		С	12	-			-		
EX SPARE		EX FEED WATER CONT. TRANS.	-			20	13	Α		14	20	-			EX HOT WATER CIRCULATION PUMP	
EX SPARE				-		-	15	В		16	-		-			
EX SPARE					-	-	17		С	18	-			-		
EX SPARE		E NEW BFP-3	2,000			30	19	Α		20	60	-			EX SPARE	
EX SPARE		E		2,000		-	21	В		22	-		-		EX SPARE	
EX SPARE		E		•	2,000	-	23	•	С	24	-	•		-	EX SPARE	
EX SPARE		EX OIL PUMP CONT. TRANS	-		•	30	25	Α		26	60	-			EX COLD WATER BOOSTER PUMP	-
EX SPARE				-		-	27	В		28	-		-			-
EX SPARE		-			-	-	29	•	С	30	-			-		-
EX SPARE	-	- NEW BFP-3	-			60	31	Α		32	30	-			EX SPARE	-
EX SPARE	-	-		-		-	33	В		34	-		-		EX SPARE	-
EX SPARE	-	-			-	-	35	•	С	36	-			-	EX SPARE	-
EX SPARE	-	E NEW CO2 SENSOR	100		•	20	37	Α	·	38	20	-			EX GAS BOOSTER	-
EX SPARE	-	- EX SPARE		-		20	39	В		40	-		-			-
EX SPARE	-	- EX SPARE			-	20	41		С	42	-			-		-
		TOTAL PER PH	ASE 2,100	2,000	2,000	PC	WER	SYSTEM	ГҮРЕ	NML	•	0	0	0	TOTAL PER PHASE	I
		NOTES: VERIFY SPARE AND SPACES PRIO	R TO INSTALL	ATION	1			TOTAL	VA PI	ER PH	IASE	2,100	2,000	2,000		<u>00</u> ¥#
	2.4 A //	VERIFY AVAILABLE BREAKERS DUE TO DE	EMOLITION								ASE	17.5	16.7	16.7		6.9 A

PUBLIC BUILDING COMMISSION
CORDOGAN, CLARK & ASSOCIATES INC. ARCHITECTS - ENGINEERS : www.cordoganclark.com MORTH WELLS STREET
AURORA, TELINOIS 60506       CHICAGO, ILLINOIS 60654         TEL       630.896.4678         FAX       630.896.4987         FAX       630.896.4987         FAX       512.943.7300         FAX       512.943.4771
SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS
PROVIDE AOR/EOR STAMP HERE
LAKE VIEW HIGH SCHOOL 4015 NORTH ASHLAND AVENULE
CHICAGO, ILLINOIS 60613 PROJECT NO 2016-46211-MCR
REVISIONS
NO.         DATE         DESCRIPTION           -         2016.04.19         30% SUBMITTAL           2016.06.14         60% SUBMITTAL
-         2017.02.14         75% SUBMITTAL           -         2017.03.02         100% SUBMITTAL
-         2017.03.07         PERMIT SET           -         2017.03.23         PRELIMINARY OTB SET
-         2017.04.04         BID         SET           1         2017.04.12         ADDENDUM #1
DRAWN BY: DS
SCALE: NTS JOB:
FILE: <b>L4.4</b>
WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS
AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING
A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S)
CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINDIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.
ΡΔΝΓΙ
SCHEDULES
DRAWING NO.
<b>Ľ4.4</b>



OTES: . CONTRACTOR (EC) SHALL:	
CONNECT POWER FOR EACH EXISTING FAN WHICH SHALL BE	
CONNECT FAN CONTROL FROM FAN AND ISOLATE IT FROM THE LDING CONTROL SYSTEM IN MAIN CONTROL PANEL.	
TE AND SECURE POWER CIRCUITS FOR REUSE TREAT WIRE FROM FAN BOX TO NEAREST JUNCTION BOX(JB) OR LL BOX	
IS NOT IN CONFLICT WITH ROOF STRUCTURE REMODELING.	
MO CONDUITS, JUNCTION AND PULL BOXES AND ALL OTHER FAN ATED EQUIPMENT WHICH ARE IN CONFLICT WITH ROOF MODELING. DF REMODELING WILL BE PERFORMED IN FEW SEPARATE AREAS R EACH AREA OF WORK, COORDINATE RANGE OF AREA AFFECTED ROOF REMODELING, WITH GENERAL CONTRACTOR AND ROOFING NTRACTOR. IS POSSIBLE, THAT IN SOME LOCATIONS, RANGE OF AREA TECTED BY ROOF REMODELING WILL FORCE EC TO RETREAT CUIT WIRES (POWER AND CONTROL) BACK TO PANELS.	CORDOGAN, CLARK & ASSOCIATES INC. ARCHITECTS - ENGINEERS
DEMO MATERIALS, WHICH WON'T BE REINSTALLED, SHALL BE FURNED TO OWNER OR DISPOSED AS DIRECTED. POWER DISCONNECTION, EQUIPMENT DISCONNECTION, ACCESS TO NELS, E.T.C. SHALL BE COORDINATED/ SCHEDULED WITH BUILDING SINEER.	www.cordoganclark.com
ATING ROOF MOUNTED - (LTG DEMOLITION) 2 TYPES OF LUMINAIRES. CREATE LIGHTING FIXTURES MOUNTED ON BUILDING ELEVATION (WALL HICH MAIN PURPOSE IS TO LIGHT-UP PARKING AREA AT THE BACK OF DING FOR SAFETY PURPOSES. FIXTURES ARE MOUNTED ON SUPPORT ND ARE FED BY FLEXIBLE CONDUITS FROM JUNCTION BOXES INSTALLED ON PARAPET WALL ON ROOF SIDE. FIXTURES ARE FED FROM PANEL LOCATED FLOOR AND ARE CONTROLLED BY TIMER.	SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS PROVIDE AOR/EOR STAMP HERE
CONTRACTOR SHALL:	
T POWER FOR LIGHTING CIRCUITS AND LOCK BREAKER(S). T LIGHTING FIXTURES FROM CIRCUITS FIXTURES ENTIRELY INCLUDING SUPPORT STRUCTURES CONDUITS AND WIRES RUNNING ON PARAPET WALL/ROOF, BACK TO PANEL NINGS IN THE WALL OR ROOF L DEMO MATERIALS TO OWNER OR DISPOSE AS DIRECTED ROUP (SMALL) CREATE LIGHTING FIXTURES WALL MOUNTED ALONG CATWALK. S FED FROM THE SAME PANEL AND CONTROLLED BY SWITCH. FIXTURES MAINTENANCE CREW ONLY.	LAKE VIEW HIGH SCHOOL 4015 NORTH ASHLAND AVENUE CHICAGO, III INOIS 60613
ONTRACTOR SHALL: T POWER FOR LIGHTING FIXTURES AND LOCK BREAKER ND RETURN THEM TO OWNER OR DISPOSE AS DIRECTED.	PROJECT NO. 2016-46211-MCR
ITION WORK SHALL BE FIELD COORDINATED WITH GENERAL CONTRACTOR RADES BEFORE COMMENCING WITH ANY WORK	NO. DATE DESCRIPTION
ECTED FIELD FINDINGS OR PROBLEMS SHALL BE REPORTED TO GINEER AND OWNER/BUILDING ENGINEER.	<ul> <li>2016.04.19 30% SUBMITTAL</li> <li>2016.06.14 60% SUBMITTAL</li> <li>2017.02.14 75% SUBMITTAL</li> <li>2017.03.02 100% SUBMITTAL</li> <li>2017.03.07 PERMIT SET</li> <li>2017.03.23 PRELIMINARY OTB SET</li> <li>2017.04.04 BID SET</li> <li>2017.04.12 ADDENDUM #1</li> </ul>
	DRAWN BY: DS
	SCALE: $1/16"=1'-0"$
	FILE: ED.5
	IRVING PARK RI
	AREAS OF WORK: ENTIRE BUILDING EXTERIOR, ALL LEVELS AND ROOF
	WARNING: ASBESTDS-CONTAINING BUILDING MATERIALS ARE DR MAY BE PRESENT IN THIS BUILDING. AN ASBESTDS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTDS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTDS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINDIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.
	ROOF ELECTRICAL DEMOLITION PLAN
	DRAWING NO.
	ED1.5

<u>D7.02</u>	ENT FL ROOM SCHDULE
ROOM	ROOM NAME
NO.	
000A	CORRIDOR
000B	CORRIDOR
0000	EAN ROOM-7
001A	CORRIDOR
001B	CORRIDOR
001C	CORRIDOR
001S	STAIR-1
002	DRY STORAGE
010	LUNCHROOM
010A 010B	DISHWASHING ROOM
010B 010D	WOMEN CHANGING
010D.1	STAFF TOILET
010E	JANITOR CLOSET
010S	STAIR-2
011	STORAGE
011A	ELECTRICAL ROOM
012	ELECTRICAL ROOM
014-0	VESTIBULE
014S	STAIR-3
016	BOYS LOCKER ROOM
016A	BOYS SHOWER ROOM
016B	BOYS DRYING AREA
016C	BOYS TOILET ROOM
016D	TEAM LOCKER ROOM
017	MECHANICAL ROOM
	CORRIDOR
020	SERVING
023	MECHANICAL ROOM
024	FAN ROOM-3
027	POOL TANK
027A	STAIR-5 CORRIDOR
0275	STAIR-S
029 029A	CUSTODIAL WORKROOM
029B	RECEIVING
029S	STAIR-6
029E	ELEVATOR
030	STAFF LOUNGE
031	STORAGE
031A 031B	FAN ROOM-1
031C	STORAGE
031D	STORAGE
032	STORAGE
033	STORAGE
034	
0355	STAIR-8
037	PLENUM CHAMBER
040	KITCHEN
040A	STORAGE
040B	OFFICE
050	
	CUNS. EQUIP. STORAG
0604	GIRLS SHOWER ROOM
060B	GIRLS DRYING AREA
060C	GIRLS TOILET ROOM
060D	LAUNDRY ROOM
070	STAFF & UNISEX
080	LOCKER ROOM
080- 0	
0805	STAIR-10
090	ROTC CLASSROOM
090A	ROTC OFFICE
090B	ROTC STORAGE
0900	ROTC STORAGE
091	
091A 092	BUILER VESTIBULE
UJZ	



1 ROOM 020 SERVERY	
(3) EXISTING SERVING LINES WILL BE DEMOLISHED.	
LIGHTING FIXTURES IN SERVING ROOM WILL BE REPLACED WITH NEW.	
ELECTRICAL CONTRACTOR SHALL: — DISCONNECT POWER IN PANEL(S) FOR CIRCUITS WHICH FEED EXISTING SERVING LINES.	
LOCK CIRCUIT BREAKERS	
(PB)/JUNCTION BOX (JB)	
<ul> <li>CAP AND SEAL EXISTING CONDUITS FOR FUTURE REUSE</li> <li>DEMO LIGHTING FIXTURES UNDER EXISTING HOOD</li> </ul>	
<ul> <li>DISCONNECT EXHAUST FAN UNDER EXISTING HOOD AND REMOVE WIRE BACK TO PANEL.</li> <li>CAP AND SEAL CONDUIT</li> </ul>	Norse Schools
– DISCONNECT AND DEMO FAN CONTROL	
– DISCONNECT POWER FOR EXISTING LIGHTING FIXTURES IN SERVING ROOM AND REMOVE $\langle$	
WIRES TO NEAREST PB/JB	build build be a set of the set o
OWNER OR DISPOSE AS DIRECTED.	CORDOGAN, CLARK & ASSOCIATES INC.
- RETORN ALL DEMOLISHED EQUIPMENT, WIRE, CONDUITS TO OWNER OR DISPOSED AS DIRECTED.	WWW.cordoganclark.com A U R O R A C H I C A G O 960 RIDGEWAY AVENUE 716 NORTH WELLS STREET
- PROVIDE PRICE CONTINGENCY FOR UNEXPECTED DEMO WORK.	AURORA, ILLINOIS 60506 CHICAGO, ILLINOIS 60654 TEL 630.896.4678 TEL 312.943.7300 FAX 630.896.4987 FAX 312.943.4771
2 ROOM 010B EXISTING DISHWASHING ROOM	CINCH
- EXISTING DISHWASHING LINE WILL BE DEMOLISHED AND REMOVED IN ITS ENTIRETT. - EC SHALL:	SINGH + ASSOCIATES, INC.
<ul> <li>DISCONNECT POWER FOR ALL DISHWASHING LINE AT PANEL.</li> <li>LOCK CIRCUIT BREAKERS.</li> </ul>	PROVIDE AOR/EOR STAMP HERE
- REMOVE WIRES BACK TO PB/JB, WHICH DO NOT INTERFERE WITH NEW ROOM	
– DEMOLISH CONDUITS BACK TO PB/JB – SECURE BOXES FOR REUSE	
<ul> <li>RETURN ALL DEMOLISHED MATERIALS (CONDUIT, DISCONNECT SWITCHES, WIRES ITC) TO OWNER OR DISPOSE AS DIRECTED</li> </ul>	
- LIGHTING LAYOUT WILL BE REARRANGED BASED ON ROOM USE.	
3 ROOM 040 EXISTING KITCHEN	
THERE ARE TWO STAGES OF DEMO WORK IN KITCHEN	LAKE VIEW
B – PERMANENT EQUIPMENT DEMO AND CHANGES FOR NEW	4015 NORTH ASHLAND AVENUE
– DISCONNECT POWER FOR ALL KITCHEN EQUIPMENT AT PANEL	CHICAGO, ILLINOIS 60613
<ul> <li>LOCK ALL CIRCUIT BREAKERS AT PANEL.</li> <li>SECURE ALL CIRCUITS FOR RECONNECTION BACK TO EQUIPMENT.</li> </ul>	REVISIONS
- PROVIDE MINOR CIRCUIT ADJUSTMENT/RELOCATION FOR EQUIPMENT RETURNING TO	NO. DATE DESCRIPTION
STAGE B - EC SHALL:	-         2016.04.19         30% SUBMITTAL           -         2016.06.14         60% SUBMITTAL
<ul> <li>DISCONNECT POWER TO EXISTING STOVE WHICH WILL BE REPLACED BY NEW.</li> <li>SECURE STOVE'S EXISTING CIRCUIT FOR REUSE FOR NEW.</li> </ul>	- 2017.02.14 75% SUBMITTAL - 2017.03.02 100% SUBMITTAL
<ul> <li>DISCONNECT AND SECURE EXISTING FIRE SUPPRESSION SYSTEM UNDER STOVE HOOD.</li> <li>SUPPRESSION SYSTEM SHALL BE ADJUSTED AND REUSED FOR NEW STOVE.</li> </ul>	– 2017.03.07 PERMIT SET
<ul> <li>LIGHTING FIXTURE UNDER THE HOOD SHALL BE EXCHANGED FOR NEW AND LOCATION SHALL BE ADJUSTED TO NEW STOVE LOCATION.</li> </ul>	-         2017.03.23         PRELIMINARY OTB SET           -         2017.04.04         BID SET
- DISCONNECT EXISTING CONVECTION OVEN AT PANEL AND LOCK CIRCUIT BREAKER.	2017.04.12 ADDENDUM #1
FOR NEW KITCHEN LAYOUT.	DRAWN BY: DS SCALE: 1/8"=1'-0"
Ź	JOB:
A ROOM 030 STAFF LOUNGE	
- DEMO EXISTING WALK IN FREEZER, DISCONNECT POWER FROM PANEL AND LOCK CIRCUIT	Inc Park
- FREEZER WILL BE REPLACED BY NEW.	
<ul> <li>ALL EXISTING LIGHTING FIXTURES SHALL BE DEMOLISHED AND REPLACED BY NEW.</li> <li>EC SHALL DEMO EXISTING LIGHTING FIXTURES AND RETURN THEM TO OWNER. NEW</li> </ul>	AREAS OF WORK: ENTIRE BUILDING
LIGHTING FIXTURE LAYOUT WILL BE BASED ON FURNITURE LAYOUT.	AND ROOF
5 ROOM 010E JANITOR CLOSET	WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN
- NEW FOUNTAIN INSTALLATION. NO DEMO WORK.	ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR BEVIEW JERN REQUEST NO REPSON
– DEMO EXISTING FREEZER – DISCONNECT POWER AND LOCK CIRCUIT BREAKER.	MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS
- LOCATION OF NEW WALK IN FREEZER WILL INFLUENCE LIGHTING FIXTURE LOCATIONS	A LICENSED ASBESTUS WURKER UR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S)
ROOM 010D STAFF CHANGING ROOM	CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINDIS DEPARTMENT OF
- DEMO EXISTING LIGHTING FIXTURES, DISCONNECT POWER FROM FIXTURES AND REMOVE < WIRE TO THE NEAREST PB/JB.	HEALTH RULES AND REGULATIONS.
<ul> <li>LIGHTING FIXTURES WILL BE SUBSTITUTED BY NEW.</li> <li>PROVIDE FIRE ALARM ADJUSTMENT BASED ON NEW ROOM ARRANGEMENT.</li> </ul>	ENLARGED BASEMENT
RELOCATE FIRE ALARM DEVICES AS NECESSARY, REMOVE EXISTING WIRE AS NECESSARY	FLOOR – ELECTRICAL
	DEMOLITION PLAN
BASEMENT – MECHANICAL EQUIPMENT(BOILER ROOM & AHU UNITS)	DRAWING NO.
- ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY DISCONNECTIONS AND RECONNECTIONS AS REQUIRED BY MECHANICAL CHANGES. REFER TO MECHANICAL	ר ה-תבן <b>ב</b>
DRAWINGS FOR MORE INFORMATION.	EU & I

	FLOOR ROOM SCHDULE
	ROOM NAME
NO.	
0004	
200A	JANITOR CLOSET
2008	
200C	STAFF TOILET
200D	TOILET
200E	STORAGE
200F	MAIN GYNASIUM-TRACK
200G	JANITOR CLOSET
200H	TOILET
200J	BOY'S STUDENT TOILET
200K	JANITOR CLOSET
200L	ELECTRICAL ROOM
200M	TOILET
200N	MEN STAFF TOILET
200P	JANITOR CLOSET
200Q	CORRIDOR
200R	CORRIDOR
200S	CORRIDOR
200T	CORRIDOR
201	SMALL GYMNASIUM-WEST
201A	STAFF AND UNISEX DRY
	LOCKER ROOM
201B	PE STORAGE
201C	CORRIDOR
203	SMALL GYMNASIUM-FAST
20.35	STAIR-9
202	CLASSROOM
202	
2023	
<u>∠∪4</u>	CLASSKUUM
205	SUPPURI COMPUTER LAE
205S	
207	
209	CLASSROOM
211	CLASSROOM
212	LEVEL 2 BIOLOGY LAB
212A	SCIENCE PREP ROOM
212B	STORAGE
213	CLASSROOM
213S	STAIR-10
215	CLASSROOM
216S	STAIR-4
217	CLASSROOM
219	CLASSROOM
220	
220	
2203	
221	
222	
	PREP RUUM
2228	STURAGE
223	
224	COMMUNITY ROOM
225	CLASSROOM
228	SCIENCE OFFICE
228A	STORAGE
228B	STORAGE
228E	ELEVATOR
228S	STAIR-6
229	COLLEGE & CAREER LAB
229A	TEACHER WORK AREA
229B	MDF
229C	STORAGE
	TEACHER WORK AREA
230	·····
230 231	OFFICE
230 231 232	OFFICE LIBRARY-MAIN
230 231 232 232A	OFFICE LIBRARY-MAIN STORAGE
230 231 232 232A 232B	OFFICE LIBRARY-MAIN STORAGE CLASSROOM_STORAGE
230 231 232 232A 232B	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE
230 231 232 232A 232B 235	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA
230 231 232 232A 232B 235 235 237	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE
230 231 232 232A 232B 235 237 237A	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY
230 231 232 232A 232B 235 237 237A 237S-7	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7
230 231 232 232A 232B 235 237 237A 237S-7 237S-8	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM
230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 238	OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM



Date of Issue: April 19, 2017 PBC: Lake View High School Renovation Project\_C1583 - Addendum No. 1



	FLOOR ROOM SCHDULE
ROOM	ROOM NAME
NO.	
300A	TOILET
300B	TOILET
300C	STAFF & UNISEX TOLIET
300D	JANITOR CLOSET
300E	JANITOR CLOSET
300F	STORAGE
300G	GIRL'S STUDENT TOILET
300H	TOILET
3001	STAFF TOILET
300J	JANITOR CLOSET
300K	GIRL'S STUDENT TOILET
300L	CORRIDOR
300M	CORRIDOR
300N	CORRIDOR
3000	CORRIDOR
302	CLASSROOM
302S	STAIR-2
304	CLASSROOM
305	STEM NETWORKING LAB
3055	STAIR-1
510	ILACHER WORK AREA
<u>২</u> ।।	
312 74 7	
313 7170	
3135	
314 710	
316	AKI LAB
316S	STAIR-4
317	ARILAB
317A	DARK ROOM
318	ART LAB
318A	ART STORAGE
319	CLASSROOM
320	LEVEL 2 SCIENCE LAB
320S	STAIR-5
321	CLASSROOM
322	COMPUTER LAB SR
322A	ILCHNOLOGY STORAGE
323	
324	SCIENCE LAB
324A	SUENCE OFFICE
324B	SCIENCE STORAGE ROOM
325	
3234	
328	
3284	TEACHER WORK AREA
2000	SCIENCE STORAGE ROOM
<u> 3705</u> '	
3285	STAIR-6
3285 329	STAIR-6 CLASSROOM
328S 329 330	STAIR-6 CLASSROOM CLASSROOM
3285 329 330 330A	STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE
3285 329 330 330A 332	STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM
3285 329 330 330A 332 332 333	STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM
3285 329 330 330A 332 332 333 334	STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM
3285 329 330 330A 332 333 334 335	STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE
3285 329 330 330A 332 333 334 335 336	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM
3285 329 330 330A 332 333 334 335 336 337	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM
3285 329 330 330A 332 333 334 335 336 337 337A	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY
3285 329 330 330A 332 333 334 335 336 337 337A 337A 338	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM
3285 329 330 330A 332 333 334 335 336 337 337A 337A 338 338 5-7	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7
3285 329 330 330A 332 333 334 335 336 337 337A 337A 337A 3385–7 3385–8	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8
3285 329 330 330A 332 332 333 334 335 336 337 337A 337A 337A 338 3385–7 3385–8 340	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM
3285 329 330 330A 332 332 333 334 335 336 337 337A 337A 338 3385–7 338S–8 340 342	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM
3285 329 330 330A 332 333 334 335 336 337 337A 337A 337A 3385–7 3385–8 340 342 344	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE
3285 329 330 330A 332 332 333 334 335 336 337 337A 337A 337A 338 3385–7 338S–8 340 342 342 344 367	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE
3285 329 330 330A 330A 332 333 334 335 336 337 337A 337A 338 3385–7 3385–8 340 342 340 342 344 367 367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285 329 330 330A 332 333 334 335 336 337 337A 337A 338 3385–7 338S–8 340 342 342 344 367 367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285 329 330 330A 332 333 334 335 336 337 337A 337A 338 3385–7 3385–8 340 342 342 344 367 367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285 329 330 330A 332 333 334 335 336 337 337A 337A 337A 338S–8 340 342 342 344 367 367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285 329 330 330A 332 333 334 335 336 337 337A 337A 338 3385–7 3385–8 340 342 342 344 367 367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285 329 330 330A 332 333 334 335 336 337 337A 337A 338 3385–7 3385–8 340 342 342 344 367 367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285 329 330 330A 332 333 334 335 336 337 337A 337A 338 3385–7 3385–8 340 342 342 344 367 367 367 367 5 367 5	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285 329 330 330A 332 333 334 335 336 337 337A 337A 338 3385–7 3385–8 340 342 342 344 367 367 367 5 6 7 367 5	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285         329         330A         337A         337A         3385–7         3385–8         340         342         344         367         367S         367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285 329 330 330A 332 333 334 335 336 337 337A 337A 338S-7 338S-8 340 342 344 367 342 344 367 367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285         329         330A         331         334         337         3385         340         342         344         367         367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285 329 330 330A 332 333 334 335 336 337 337A 338 3385–7 3385–8 340 342 342 344 367 367 367 367 5 367 5 4 4 367	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285         329         330         330A         333         3340         342         344         367         367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9 STAIR-9
3285         329         330A         330A         330A         330A         330A         330A         337A         337A         337A         3385–7         3385–8         340         342         344         367         367S         367S         367S         367S         367S         367S         367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285         329         330         330A         333         3340         342         344         367         367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9 
3285         329         330         330A         331         334         337         338         3385–7         3385–8         340         342         344         367         367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9 STAIR-9
3285         329         330         330A         333         3340         338S-7         338S-8         340         342         344         367         367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
3285         329         330         330A         330A         330A         330A         330A         337         334         335         336         337A         3385–7         3385–8         340         342         344         367         367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9 STAIR-9
3285         329         330         330A         333         3340         338S-8         340         342         344         367         367S	STAIR-6 CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9



THIRD FLOOR ROOM 3001 AND 300H - LIGHTING DEMOLITION



 $\searrow$ 









# 3 THIRD FLOOR ROOM 300G - LIGHTING DEMOLITION

## 4 THIRD FLOOR ROOM 300G - POWER DEMOLITION



	GAN, CLA ARCHITECT	ARK & ASSOCIATES INC TS - ENGINEERS
A U R 960 RIDGEW AURORA, ILLI TEL 630 FAX 630	0 R A AY AVENUE NOIS 60506 ).896.4678 ).896.4987	C H I C A G O 716 NORTH WELLS STREET CHICAGO, ILLINOIS 60654 TEL 312.943.7300 FAX 312.943.4771
S:	NGH + ASSOC DNSULTING EN PROVIDE AO	CIATES, INC. INGINEERS R/EOR STAMP HERE
LAKE N HIGH S 4015 NG CHICAGO PROJECT	/IEW SCHOOL ORTH ASHL 9, ILLINOIS 7 NO. 2016	AND AVENUE 60613 6-46211-MCR
	R	EVISIONS
- 1	DATE 2016.04.19	DESCRIPTION 30% SUBMITTAL
- :	2017.02.14	75% SUBMITTAL 100% SUBMITTAL
- :	2017.03.07	PERMIT SET PRELIMINARY OTB SFT
	2017.04.04 2017.04.12	BID SET ADDENDUM #1
DRAWN B	BY: DS	5
SCALE: JOB:	1/	/8"=1'-0"
FILE:	ED	)2.4 
		ASHLAND AVE.
ARE WOF EXT AND	AS UF RK: ENTIR ERIOR, ALL ROOF	RE BUILDING LEVELS N KEY PLAN
WARNIN BUILDI BE PR ASBES AVAILA REVIEV MAY D MATERI A LICH CONDUC ACCORI CONTAI DOCUME WITH HEALTH	NG: A NG MATE ESENT IN TOS MAN ABLE IN W UPON ISTURB A IALS UNL ENSED A CTS S DANCE M INED I ENTS AN ILLINOI H RULES	ASBESTOS-CONTAINING RIALS ARE OR MAY N THIS BUILDING. AN NAGEMENT PLAN IS I THE SCHOOL FOR REQUEST. NO PERSON ASBESTOS-CONTAINING .ESS THAT PERSON IS SBESTOS WORKER OR SUCH WORK IN ITH SPECIFICATION(S) IN THE PROJECT ND IN COMPLIANCE S DEPARTMENT OF AND REGULATIONS.
FLC FLC	ENLAR OOR – DEMOL	GED THIRD - ELECTRICAL ITION PLAN
		awing no.

#### **SECTION 00 01 10**

#### **TABLE OF CONTENTS**

#### **INTRODUCTORY INFORMATION**

Section Number	Section Title	CPS Control Rev.
00 00 00	PBC Project Manual Cover Page	PBC 01_01/01/14
00 01 10	Table of Contents	PBC 01_01/01/17
00 01 11	Info Available to Bidders – Reports	PBC 01_04/01/15

#### **SPECIFICATIONS GROUP**

#### **GENERAL REQUIREMENTS SUBGROUP**

#### **DIVISION 01 – GENERAL REQUIREMENTS**

Section Number	Section Title	CPS Control Rev.
01 14 11	Construction Operations and Site Utilization Plan	PBC 01_08/15/14
01 35 62	Erosion and Sedimentation Control	PBC 01_09/14/12
01 50 03	Temporary Facilities and Controls (for renovation projects)	03_07/20/09
01 56 11	Temporary Dust, Fume, and Odor Control	01_01/21/10
01 57 15	Integrated Pest Management	PBC 01_09/11/11
01 70 32	Selective Demolition (W/out Environmental)	PBC 01_10/20/10
01 70 71	Final Cleaning - Schools	PBC 01_09/28/11

#### FACILITY CONSTRUCTION SUBGROUP

#### **DIVISION 03 – CONCRETE**

Section Number	Section Title	CPS Control Rev.
03 01 30	Maintenance of Cast-In-Place Concrete	01_02/28/06
03 30 00	Cast-In-Place Concrete	02_04/10/08
03 30 53	Miscellaneous Cast-In-Place Concrete	02_08/20/07

#### **DIVISION 04 – MASONRY**

Section Number	Section Title	CPS Control Rev.
04 22 00	Concrete Unit Masonry	04_10/24/08

#### **DIVISION 07 – THERMAL AND MOISTURE PROTECTION**

Section Number	Section Title	CPS Control Rev.
07 92 00	Joint Sealants	03_04/10/08

#### **DIVISION 11 – EQUIPMENT**

Section Number	Section Title	CPS Control Rev.
11 68 00	Playground Equipment and Structures	
11 68 33.01	Athletic Field Equipment – Ball Safety Netting System	

#### LAKE VIEW HIGH SCHOOL 2016-46211-SIT

#### **DIVISION 12 – FURNISHINGS**

Section Number	Section Title	CPS Control Rev.
12 93 00	Site Furnishings	01_03/18/14

### **DIVISION 22 – PLUMBING**

Section Number	Section Title	CPS Control Rev.
22 13 16	Sanitary Waste and Vent Piping	01_02/28/06
22 14 23	Drainage Piping Specialties	01_02/28/06
22 14 26	Facility Storm Sewer Drainage	03_01/21/10

#### **DIVISION 26 – ELECTRICAL**

Section Number	Section Title	CPS Control Rev.
26 05 03	General Requirements for Electrical Systems	01_02/28/06
26 05 05	Basic Electrical Materials and Methods	03_07/23/14
26 05 11	Conductors and Cables for Electrical Systems	02_07/23/14
26 05 26	Grounding and Bonding for Electrical Systems	02_03/30/06
26 05 29	Hangers and Supports for Electrical Systems	02_02/28/06
26 05 33	Raceways and Boxes for Electrical Systems	03_04/13/09
26 05 43	Underground Ducts and Raceways for Electrical Systems	
26 05 53	Identification for Electrical Systems	02_03/30/06
26 08 13	Testing of Electrical Systems	01_02/28/06
26 09 23	Lighting Control Devices	01_02/28/06
26 24 16	Panelboards	02_02/28/08
26 56 00	Exterior Lighting	02_02/26/14
26 56 68	Exterior Athletic Lighting	

#### **DIVISION 31 – EARTHWORK**

Section Number	Section Title	CPS Control Rev.
31 22 14	Earthwork	05_01/21/10
31 22 15	Earthwork for Synthetic Grass Surfacing System	01_04/15/11
31 22 21	Finish Grading for Synthetic Grass Surfacing System	01_04/15/11
31 23 17	Excavating, Backfilling, and Compacting for Utilities	03_06/30/08

#### **DIVISION 32 – EXTERIOR IMPROVEMENTS**

Section Number	Section Title	CPS Control Rev.
32 12 16	Hot Mix Asphalt Paving	01_11/08/10
32 13 13	Portland Cement Concrete Paving	02_08/17/07
32 14 00	Concrete Permeable Pavers	
32 18 15	Synthetic Grass Surfacing System – Sport Fields	03_01/11/17
32 18 16	Playground Protective Surfacing	01_01/13/14
32 18 23.39	Synthetic Running Track Surfacing	01_02/28/06
32 31 19	Decorative Metal Fences and Gates	04_04/05/10
32 92 23	Sodding	02_08/17/07
32 93 11	Plantings	04_06/30/08
32 96 11	Tree Protection, Trimming and Relocation	

CPS Control Rev.: 18\_07/23/14 Project Rev.: A\_##/##/## PBC Control\_01/01/17

#### **DIVISION 33 – UTILITIES**

Section Number	Section Title	CPS Control Rev.
33 10 13	Water Service	03_01/21/08
33 46 17	Subdrainage for Synthetic Grass Surfacing System	01_04/15/11

#### **APPENDICES**

- i. Design Consulting Engineers Lake View Alternative High School Sewer Cleaning and Televising
- ii. ATC Group Services LLC Report of Geotechnical Engineering Exploration

#### END OF TABLE OF CONTENTS

#### SECTION 11 68 00

#### PLAYGROUND EQUIPMENT AND STRUCTURES

#### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section includes playground equipment and associated signage. Furnish all labor and materials and equipment required to install the play equipment as indicated on the drawings or specified herein. The work shall include any incidentals to provide a finished job.

#### 1.2 DEFINITIONS

- A. Use Zone: According to ASTM F1487-11, the "area beneath and immediately adjacent to a play structure or equipment that is designed for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment."
- B. IPEMA: International Play Equipment Manufacturers Association.
- C. Fall Height: According to ASTM F 1487-11, "the vertical distance between a designated play surface and the protective surfacing beneath it."

#### 1.3 DESIGN REQUIREMENTS

- A. Compliance with current guidelines, standards, laws and building codes for safety and accessibility:
  - 1. ASTM F1487-11 Standard Consumer Safety Performance Specifications for Playgrounds for Public Use.
  - 2. U.S. Consumer Products Safety Commission (CPSC) Guidelines (No. 325)– Handbook for Public Playground Safety
  - 3. 2010 ADA Accessibility Guidelines (ADAAG) Section 15.6 Play Areas
  - 4. Chicago Building Code: Chapter 18-11-1115 Play Areas
- B. Site specificity of design Equipment design/component selection is based on specific needs of the school/district, physical constraints of the site, and public input. Design requirements include:
  - 1. Play value
  - 2. Capacity
  - 3. Footprint
  - 4. Color availability
  - 5. Visual density and appearance
  - 6. Age appropriateness
  - 7. Height/Size
  - 8. Sensory stimulation
  - 9. Accessibility/usability for those with special needs.
- C. Products selected are durable and proven to withstand very high use environment.

#### 1.4 PERFORMANCE REQUIREMENTS

- A. Structural Performance Requirements:
  - 1. PlayBooster Steel Posts: All steel PlayBooster posts are manufactured from 5" O.D. tubing with a wall thickness of .120" and shall be galvanized after rolling and shall have both the I.D. and the cut ends sprayed with a corrosion resistant coating. Top caps for posts shall be aluminum die cast from 369.1 alloy and ProShield finished to match the post color. All caps shall be factory installed and secured in place with (3) self-sealing rivets. A molded low-density polyethylene cap, with drain holes, shall be pressed onto the bottom end of the post to increase the footing area.
  - 2. PlayBooster Steel Post Mechanical Properties:
    - Yield Strength (min): 50,000 PSI
    - Tensile Strength (min): 55,000 PSI
    - Elongation: 25% in 2 inches
    - Modulus of Elasticity: 29.5 x 10<sup>6</sup> PSI
  - 3. PlayBooster Clamps: All PlayBooster clamps are ProShield finished and, unless otherwise noted, shall be die cast using a 369.1 aluminum alloy and have the following mechanical properties:
    - Ultimate Tensile: 47,000 PSI
    - Yield Strength: 28,000 PSI
    - Elongation: 7% in 2 inches
    - Shear Strength: 29,000 PSI
    - Endurance Limit: 20,000 PSI

Each functional clamp assembly shall have an appropriate number of half clamps and shall be fastened to mating parts with (2)  $3/8" \times 1 1/8"$  pinned button head cap screws (SST) and (2) stainless-steel (SST) recessed "T" nuts. A 1/4" aluminum drive rivet with stainless steel pin is used to ensure a secure fit to the post. Clamps should allow for future maintenance/adjustment without effecting integrity of the posts.

#### 1.5 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. LEED Submittals:
  - 1. Percentage of recycled materials used.
  - 2. Percentage of post-consumer recycled materials used.
- C. Shop Drawings: For playground equipment and structures. Include plans, color renderings, elevations, and installation details.
- D. Samples: Provide color charts. Provide material samples upon request or as required.
- E. Qualifications: For qualified installer, manufacturer, and testing agency.
- F. Test Reports: Provide evidence of IPEMA certification for playground products.

#### G. Certifications:

- 1. Manufacturer is ISO 9001:2008 certified (quality assurance processes)
- 2. Manufacturer is ISO 14001:2004 certified (environmentally responsible processes)
- 3. IPEMA (International Play Equipment Manufacturers Association) third party certification for conformance to ASTM F1487-11.
- 4. Statement from manufacturer that products meet current safety and accessibility requirements.
- H. Closeout Submittals:
  - 1. Maintenance Kit: An order-specific maintenance kit shall be provided for each structure order. The kit will include a notebook or packet with a second set of installation documents and order-specific maintenance documentation with recommendations on how often to inspect, what to look for and what to do to keep the equipment in like-new condition. The kit also includes touch-up primer, appropriate color touch-up paint, sandpaper, appropriate color touch-up PVC, graffiti remover and additional installation tools for the tamperproof fasteners.
  - 2. Warranty Information.
  - 3. Statement from manufacturer's representative identifying that installation has been performed in accordance with installation instructions.

#### 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
  - 1. Manufacturer is ISO 9001:2008 certified (quality assurance processes)
  - 2. Manufacturer is ISO 14001:2004 certified (environmentally responsible processes)
  - 3. Standard products are IPEMA (International Play Equipment Manufacturers Association) third party certified for conformance to ASTM F1487-11.
- B. Installer Qualifications: The Contractor installing the equipment must be experienced in the installation of play equipment with personnel, facilities, and equipment adequate for the work specified and shall, within 48 hours of a request, produce written proof of such.
- C. Sample Installations: Contractor shall upon request produce a list of at least 20 other projects where similar work, from same manufacturer, has been performed and could be reviewed.
- D. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." Prior to the start of the playground equipment installation work, coordinate a conference at the Site to review the construction schedule, availability of materials, installers personnel qualifications, equipment and facilities needed to make progress and avoid delays, installation procedures, testing, inspecting, and certification procedures, and coordination with other work. Meeting shall include the Contractor, Board Authorized Representative, Architect, installer, and any other subcontractors or material technical service representatives whose work, or products, must be coordinated with the playground equipment installation work.

#### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Packaging: PlayBooster posts shall be individually packaged in sturdy, water-resistant, marresistant cardboard boxes. Other components shall be individually wrapped or bulk wrapped to provide protection during shipment. Small parts and hardware packages will be placed in crates for shipment. The components and crates are then shrink wrapped to skids (pallets) to ensure secure shipping.
- B. Delivery: Equipment will be on delivered F.O.B. curbside. Installer will be responsible for unloading, storage, and security of the equipment until accepted by the owner.
- C. Packing List: All shipments shall include a packing list for each skid/container, specifying the part numbers and quantities on each skid or within each container.

#### 1.8 WARRANTY

- A. 100-Year Limited Warranty for all aluminum posts, stainless steel fasteners, clamps, beams and caps, against structural failure due to corrosion/natural deterioration or manufacturing defects. This warranty does not include any cosmetic issues or wear and tear from normal use.
- B. 15-Year Limited Warranty for all plastic and steel components against structural failure due to corrosion/natural deterioration or manufacturing defects. This warranty does not include any cosmetic issues or wear and tear from normal use.
- C. 15-Year Limited Warranty for TenderTuff coating against structural failure due to natural deterioration or manufacturing defects. This warranty does not include any cosmetic issues or wear and tear from normal use.
- D. 8-Year Limited Warranty On Aeronet® climbers and climbing cables against defects in materials or manufacturing defects.
- E. 3-Year Limited Warranty for all other parts, including CableCore Products, Swing seats and hangers; Trackride trolleys and bumpers; all rocking equipment, etc. against failure due to corrosion/natural deterioration or manufacturing defects. This warranty does not include any cosmetic issues or wear and tear from normal use.
- F. Installers Guarantee: The Contractor shall provide information on the equipment manufacturer's guarantee. Contractor shall warranty installation and workmanship on all play equipment for a period of one year starting on the date of Physical Completion of the Project.
- G. Installers Guarantee: The Contractor shall guarantee that all work performed under this section shall be free from any defects in materials and workmanship. Upon notice in writing from the Landscape Architect to the Contractor within one year of physical Completion of the project, the Contractor shall, at no additional cost to the Owner, make the necessary repairs or replacements of the defective work in question. During this period of guarantee, the Owner shall perform normal maintenance and cleaning of the play area equipment.

#### **PART 2 - PRODUCTS**

#### 2.1 MANUFACTURER

- A. Manufacturer:
  - Landscape Structures, 601 7<sup>th</sup> Street South, Delano, MN 55328. Locally represented by NuToys Leisure Products, 915 Hillgrove, LaGrange, IL 60525, (708)579-9055 or (800) 526-6197.

#### 2.2 PRODUCTS

A. The Drawings and Specifications are Landscape Structures, PlayBooster System.

#### 2.3 MATERIALS:

- A. All materials shall be structurally sound and suitable for safe play. Durability shall be ensured on all steel parts by the use of time-tested coatings such as zinc plating, galvanizing, ProShield® finish, TenderTuff<sup>TM</sup> coating, etc. Colors shall be specified.
- B. Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless-steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications). All primary fasteners shall include a locking patch type material that will meet the minimum torque requirements of IFI-125. Manufacturer to provide special tools for pinned tamperproof fasteners.
- C. Decks: All decks shall be of modular design and have 5/16" diameter holes on the standing surface. There shall be minimum of (4) slots in each face to accommodate face mounting of components. Decks shall be manufactured from a single piece of low carbon 12 GA (.105") sheet steel conforming to ASTM specification A-1011. The sheet shall be perforated with a return flange on the perimeter to provide the reinforcement necessary to ensure structural integrity. There shall be no unsupported area larger than 3.5 square feet. The unit shall then be TenderTuff-coated brown or gray only. Decks shall be designed so that all sides are flush with the outside edge of the supporting posts.
- D. Rotationally Molded Polyethylene Parts: These parts shall be molded using prime compounded linear low-density polyethylene with a tensile strength of 2500 psi per ASTM D638 and with color and UV-stabilizing additives. Wall thickness varies by product from .187" (3/16") to .312" (5/16"). Eleven standard colors available.
- E. Permalene® Parts: These parts shall be manufactured from 3/4" high-density polyethylene that has been specially formulated for optimum UV stability and color retention. Products shall meet or exceed density of .960 G/cc per ASTM D1505, tensile strength of 2400 PSI per ASTM D638. Five standard solid colors are available. Some Permalene® parts are available in a two-color product with (2) .100" thick exterior layers over a .550" interior core of black. Ten standard two-color options available.

- F. Recycled Permalene® Parts: These parts shall be manufactured from 3/4" high-density polyethylene that has been specially formulated for optimum UV stability and color retention. Products shall meet or exceed density of .960 G/cc per ASTM D1505, tensile strength of 2400 PSI per ASTM D638. Available in a three-layer product with (2) .100" thick colored exterior layers over a .550" thick 100% recycled Black interior core. Eleven standard color options available.
- G. Hardware Packages: All shipments shall include individual component-specific hardware packages. Each hardware package shall be labeled with the part number, description, a component diagram showing the appropriate component, package weight, a bar code linking the hardware package to the job number, assembler's name, date and time the package was assembled, work center number, and work order number.
- H. Installation Documentation: All shipments shall include a notebook or packet of order-specific, step-by-step instructions for assembly of each component, including equipment assembly diagrams, estimated hours for assembly, footing dimensions, concrete quantity for direct bury components, fall height information, area required information and detailed material specifications.

#### 2.4 COMPONENTS

<u>QTY.</u>	<u>NO.</u>	DESCRIPTION
		2-5 Year Olds Play Equipment
1	120325A	Ramp Berm Exit Plate Concrete Wall
1	152443A	Grid Walk w/Barriers
1	156232A	Ramp w/Guardrails w/Curbs Meets ASTM
1	152907B	Deck Link w/Barriers Steel end panels 2 Steps
1	179023A	Vertical Ladder w/Vibe Handholds 32"Dk DB
1	180090C	Wiggle Ladder w/Vibe Handholds 48"Dk DB
1	180092B	Cozy Climber w/Vibe Handholds 48"Dk DB
1	111228A	Square Tenderdeck
1	121948A	Kick Plate 8"Rise
2	178710A	Hexagon Tenderdeck
1	184354A	Curved Transfer Module Left 2-5yrs 32"Dk DB
1	127953A	Handhold Panel Set
1	179050A	Marble Vibe Panel Above Deck
1	179051A	Optigear Vibe Panel Above Deck
1	179052A	Rain Sound Wheel Vibe Panel Above Deck
1	180094A	Vibe Handhold Panel Set
1	111357D	Turning Bar Steel DB
1	139782A	2"Horizontal Ladder 4-5 Years Connected Between Decks
1	141887A	Access/Landing Assembly Seat Barrier Left 8"Dk
6	111403P	142"Steel Post For Roof DB
4	111403M	166"Steel Post For Roof DB
2	111404V	76"Steel Post DB
2	111404U	84"Steel Post DB
2	111404T	92"Steel Post DB
4	111404S	100"Steel Post DB

#### LAKE VIEW HIGH SCHOOL 2016-46211-SIT

1	139375A	Square Roof w/o Flag SteelX
1	139376A	Hex Roof w/o Flag SteelX
1	122033D	SpyroSlide 56"w/Hanger Bracket DB

1 123331A Double Poly Slide 32"Dk DB

#### 5-12 Year Olds Play Equipment

1	156439A	Clamp No Faces (O-O)
2	156440A	Clamp One Face (A-A)
1	156441A	Clamp Two Faces 90* (A-B)
3	157585A	Clamp One Face (O-E)
1	156450A	Swiggle Stix DB Only
1	114665A	Arch Bridge (42")
1	152443A	Grid Walk w/Barriers
1	193171C	SwiggleKnots Bridge w/o Deck Connections DB Only
1	111812A	Headform Set
1	207581A	The Ascent Rock
1	207583A	The Chimney Rock
1	116247A	Vertical Ladder - Panel 24"
1	116249A	Vertical Ladder 32"Dk DB
2	145624D	Vertical Ascent 72"Dk
1	152907A	Deck Link w/Barriers Steel end panels 1 Step
1	200609A	Traveler Climber w/2 Hanger Brackets
1	202594A	Portal Climber w/Perm HH (Left) Eq Decks 72"Dk DB
1	204176A	Flex Climber w/Perm Handhold 8" Deck Diff att to 72"Dk
1	179011A	Mini Summit Climber w/Vibe Handholds 48"Dk DB
1	200610A	Crest Climber w/Vibe Handholds
8	111231A	Triangular Tenderdeck
5	119646A	Tri-Deck Extension
1	121948A	Kick Plate 8"Rise
1	152911A	Curved Transfer Module Right 32"Dk DB
1	116244B	Pipe Barrier w/Wheel Above Deck
1	173566A	Kaleidospin Panel Ground Level
1	179044A	Color Splash Vibe Panel Above Deck
1	201032A	Eclipse Net Plus w/3-5 Attach Points DB Only
1	193174A	Sol Spinner DB
1	202821A	Power Lifter w/o Post
1	119805A	Single Beam Loop Horiz Lad 84"Connected Between Decks
1	141886B	Access/Landing Assembly Rails Barrier Left 32"Dk
1	160254A	Overhead Trekker DB Only
2	111404Q	116"Steel Post DB
4	111404O	132"Steel Post DB
1	111404N	140"Steel Post DB
3	111404M	148"Steel Post DB

111404W	156"Steel Post DB
111404X	164"Steel Post DB
111404Z	182"Steel Post DB (44" Bury)
179595O	204"Steel Post For Vibe Roof DB
	111404W 111404X 111404Z 179595O

#### Freestanding Musical Instruments

1	21///10	Rhansody Vivo Metallonhone DB
	2144417	
1	214442A	Rhapsody Grandioso Chimes DB
1	214443A	Rhapsody Goblet Drum DB
1	214444A	Rhapsody Kundu Drum DB
1	214445A	Rhapsody Kettle Drum DB
1	214438A	Rhapsody Animato Metallophone DB

#### 2.5 FINISHES

- A. TenderTuff Coating: Metal components to be TenderTuff-coated shall be thoroughly cleaned in a hot phosphatizing pressure washer, then primed with a water-based thermosetting solution. Primed parts shall be preheated prior to dipping in UV stabilized, liquid polyvinyl chloride (PVC), then salt cured at approximately 400 degrees. The finished coating shall be approximately .080" thick at an 85 durometer with a minimum tensile strength of 1700 psi and a minimum tear strength of 250 lbs/inch. Five standard colors available, all with a matte finish.
- B. ProShield Finish: All metal components with ProShield finish shall be thoroughly cleaned and phosphatized through a five-stage power washer. Parts are then thoroughly dried, preheated and processed through a set of automatic powder spray guns where a minimum .002" of epoxy primer is applied. A minimum .004" of architectural-grade Super Durable polyester TGIC powder is applied. The average ProShield film thickness is .006".
- C. ProShield is formulated and tested per the following ASTM standards. Each color must meet or exceed the ratings listed below:
  - Hardness (D3363) rating 2H
  - Flexibility (D522) pass 1/8" mandrel
  - Impact (D2794) rating minimum 80 inch-pounds
  - Salt Fog Resistance (B117 and D1654) 4,000 hours and rating 6 or greater

• UV Exposure (G154, 340 bulb) 3,000 hours, rating delta E of 2, and 90 percent gloss retention

• Adhesion (D3359, Method B) rating 5B

The Paint Line shall employ a "checkered" adhesion test daily. Twenty-six standard colors available.

#### 2.6 CAST-IN-PLACE CONCRETE

A. Concrete Materials and Properties: Comply with requirements in Division 03 Section "Cast-in-Place Concrete".

#### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine the area and conditions of the site. Verify safety zones of all equipment before setting posts in concrete footing.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 PREPARATION

- A. Verify that all equipment needed for installation has been sent correctly.
- 3.3 INSTALLATION:
  - A. Conform strictly to manufacturer's instructions. Use only experience personnel trained in play equipment installation.
  - B. Provide all concrete footings as required. It is the contractor's responsibility to adjust drainage pipe or other new utility locations to accommodate the equipment footings.
- 3.4 FIELD QUALITY CONTROL
  - A. Contractor shall contact manufacturer's representative to review playground installation for accuracy.
  - B. Contractor shall notify Architect to review installation for review of overall conformance to specifications and workmanship.

#### 3.5 ADJUSTING

A. Ensure that adjustments required by inspections are corrected to owner's satisfaction.

#### 3.6 CLEANING AND PROTECTION

- A. Contractor is responsible to protect equipment until accepted by owner.
- B. Consult manufacturer's cleaning instructions.

## END OF SECTION



4/11/2017 11:30 AM



Date of Issue: April 19, 2017 PBC: Lake View High School Renovation Project\_C1583 - Addendum No. 1

<sup>4/11/2017 11:32</sup> AM



Date of Issue: April 19, 2017 PBC: Lake View High School Renovation Project\_C1583 - Addendum No. 1

	HMA PAVEMENT
	SYNTHETIC TRACK SURFACE OVER HMA
	5" CONCRETE SIDEWALK
	5" CONCRETE SIDEWALK (ROW)
	8" CONCRETE DRIVEWAY (ROW)
	PLANTING AREA/GRASS (REF LANDSCAPE PLANS)
	R.O.W. PAVEMENT
	DEPRESSED CURB AND GUTTER
<del>-0-</del>	ACCESSIBLE SIGNS AND POST
	GRAPHIC SCALE
	5' 0 5' 10'
	(IN FEET)



4/11/2017 11:33 AM





					GENERAL NOTES (CON	ITINUED):
1. THE DETECTABLE WA LIST OF APPROVED DE NOT ACCEPTABLE TO II AT ANY LOCATION. IN T BE SUBMITTED TO THE	ARNING USED TECTABLE WA NSTALL TWO I HE CENTRAL COMMISSION	SHALL BE CHOSEN FRO RNING PRODUCTS (AVA DIFFERENT DETECTABLE BUSINESS DISTRICT, GR ER FOR APPROVAL.	OM THE CHICAGO DEPARTMENT OF TRA AILABLE ON THE CITY OF CHICAGO WEB E WARNING PRODUCTS ADJACENT TO C ANITE OR OTHER SPECIALTY PAVING M	NSPORTATION SITE). IT IS NE ANOTHER ATERIALS MAY	12. UTILITIES, SUCH AS OF THE RAMP BUT ARE LIDS MAY REMAIN WITH NOTE #19 ARE MET.	S LIGHT POLES, TRAFFIC POLES AND F NOT ALLOWED ON THE RAMP SURFA HIN THE FLARE OR ON THE SURFACE (
2. THE DETECTABLE W/ SHEET B-4-2).	ARNING MUST	BE INSTALLED A MAXIM	IUM OF 8" OR LESS FROM FACE OF CUR	3 (SEE DETAIL	13. ALL LOCATIONS WI AND GUTTER TYPE BV.	TH TYPE 4 OR TYPE B CURB (EXCEPT 12 THROUGH THE LIMITS OF THE COR
. THE DETECTABLE W/ NOBSTRUCTED DEPTI RIENTED PERPENDIC HEET B-1-5). THE DE ENGTH OF THE SIDEW RANSITION). IF IT IS N	ARNING MUST H OF 24". THE JLAR TO THE FECTABLE WA ALK WHERE T ECESSARY TO	COVER FULL WIDTH OF DETECTABLE WARNING RUN OF THE RAMP UNLI RNING MUST BE PROVIE THE SIDEWALK IS FLUSH D CUT A UNIT(S) IN THE F	RAMP EXCLUDING SIDE FLARES FOR A G LOCATED ON THE SURFACES OF RAME ESS SPECIAL CIRCUMSTANCES OCCUR DED FOR A MINIMUM DEPTH OF 24" FOR WITH THE STREET (DEPRESSED CURB PROVISION OF A COMPLIANT RAMP OR 3	MINIMUM S IS TYPICALLY SEE DETAIL THE ENTIRE DR FLUSH IDEWALK WITH	14. ALTERATIONS SHAI EXISTING FACILITIES, C PROPERTY LINE OR FA TO OR AFFECTING A FA REPLICATION OF EXIST INCLUDE, BUT ARE NOT BENCHES, PAY PHONE	LL NOT DECREASE THE ACCESSIBILIT OR DOOR OR GATE ACCESS POINTS TO CILITY ACCESS POINT SHALL BE MAIN ACILITY ACCESS POINT SHALL RESULT ING CONDITIONS, INCLUDING SIDEWA I LIMITED TO PRIVATE BUSINESSES, F S, AND PARKING METERS.
24" MINIMUM DEPTH OF PER MANUFACTURER'S APPLICABLE). THE UN AND ADEQUATELY SEC EXHAUSTED. THE USE WRITTEN APPROVAL O	The feature of the commission of the feature of the	WARNING, THE UNITS S NTS WITH A MINIMUM OF ARRANGED SO THAT TH JNITS SHALL NOT BE US PIECES FROM UNITS TH SSIONER. CUT UNIT SAL	SHALL BE CUT IN A NEAT AND WORKMAN THREE PINS OR ANCHOR POINTS (WHE IE CUT UNITS ARE LARGE ENOUGH TO E ED UNLESS ALL OTHER DESIGN OPTION AT ARE CUT WILL NOT BE PERMITTED V VAGE PIECES NOT APPROVED FOR USE	I LIKE MANNER RE E PROPERLY <u>S HAVE BEEN</u> ITHOUT MUST BE	15. THE MINIMUM CROS PLAN SHEETS DEPEND RAMPS, A CLEAR SPAC (WHERE PROVIDED).	SSWALK WIDTH IS 6'-0". CROSSWALK ING ON THE TYPE OF CURB RAMP US E OF 4'-0" BY 4'-0" MINIMUM SHALL BE
REMOVED FROM THE S	A COMBINAT	OSED OF PROPERLY.	RADIAL DETECTABLE WARNING UNITS M	AY BE USED ON	16. IF SIDEWALK AND A ARE AT THE SAME GRA THE DRIVEWAY HAS TF	ALLEY ARE AT THE SAME GRADE, A RA DE, A RAMP IS NOT REQUIRED BUT D RAFFIC CONTROL DEVICES (I.E. TRAFF
5. THE DETECTABLE W/ USED THE DETECTABLE DETECTABLE WARNING	ARNING MUST E WARNING CO COLOR SHAL	CONTRAST WITH ADJAC OLOR SHALL BE RED. IF L BE YELLOW. CONTRA	CENT PAVEMENT. IF LIGHT COLORED P. A DARK COLORED PAVEMENT IS USED CTOR TO VERIFY THAT PROPER CONTR	VEMENT IS THE AST IS	17. MAIN LINE SIDEWAI WALK UNLESS OTHERV SIDEWALKS INTERSEC	LK SHALL HAVE A MAXIMUM CROSS SI WISE APPROVED BY THE COMMISSION T, THE SLOPE OF THE SIDEWALK SHA
OBTAINED.					18. MAIN LINE SIDEWAI	LK RUNNING SLOPES SHALL NOT EXC T. WHICH EVER IS HIGHER.
<ol> <li>6. PRIOR TO PLACING ( VERIFY THAT LAYOUT (</li> <li>7. RAMP WIDTH MUST E</li> </ol>	CONCRETE FO DR DESIGN CO	OR DEPRESSED CURBS, DMPLIES WITH THE REQU	RAMPS, OR SIDEWALKS THE CONTRAC JIREMENTS OF THE CDOT ADA STANDA ENTS OF 1'-0". EXCEPT WHEN USING TH	OR SHALL RDS.	19. THERE SHALL BE N LINE SIDEWALK. THERI SIDEWALK.	O VERTICAL LEVEL DIFFERENCES BE E SHALL BE NO HORIZONTAL GAPS O
PERPENDICULAR RAMF WIDTH OF 4'-0".	AT CORNER	(OR OTHER SPECIAL CD	OT APPROVED CONDITIONS), WHICH HA	S A MINIMUM	20. WHERE OBSTRUCT	IONS EXIST ON THE MAINLINE SIDEW
8. THE MAXIMUM ALLO	WABLE RAMP	RUNNING SLOPE IS 1:14	, MEASURED AT ANY PORTION OF THE I	AMP.	NOT BE LESS THAN 4'-0 HYDRANTS, SIGNAL OR	". OBSTRUCTIONS INCLUDE, BUT ARI R LIGHT POLES, NEWSPAPER DISPENS
IF POSSIBLE, A MORE G RAMPS SHALL BE PERF	RADUAL SLOP	PE SHALL BE USED. GRA	ADE BREAKS AT THE TOP AND BOTTOM ( AMP RUN.	)F	21. CURB RAMPS AND SIGNALIZED INTERSEC	LANDING (KEYSTONE) TO BE CONSTR TIONS AND INDUSTRIAL STREET INTE
IF POSSIBLE, A MORE G	RADUAL SLOP	PE SHALL BE USED.	IEASURED AT ANT FORTION OF THE RA	VIF.	22. DEPRESSED CURB, F	D. RAMP, OR SIDEWALK DESIGNS OR LAYC
10. THE MAXIMUM ALLO ON THE LANDING. THE	WABLE RAMF RAMP LANDIN	P LANDING SLOPE IS 1:64 NG WIDTH SHALL MATCH	4, MEASURED AT ANY LOCATION AND IN I THE FULL WIDTH OF THE RAMP FOR A	ANY DIRECTION	DRAINAGE AND THE EXI	STING INTERSECTION GEOMETRY SHAI
UNOBSTRUCTED DEPTI WHERE TURNING IS RE	⊣ OF 4'-0".  RA QUIRED.	MP LANDINGS SHALL BE	PROVIDED AT THE TOP AND/OR BOTTC	M OF RAMPS	ENGINEER TO CERTIFY CODES AND BUILDING O	THAT THEY ARE IN ACCORDANCE WITH PRDINANCES OF THE CITY OF CHICAGO
11. RAMP SIDE FLARES SURFACE IS INTENDED SHALL NOT BE LOCATE THE SURFACE ADJACE PEDESTRIAN ACCESS.	SHALL BE INS FOR PEDESTI D WITHIN THE NT TO THE RA EXCEPTIONS	STALLED AT ANY LOCAT RIAN USE. TRIPPING HA LIMITS OF THE SIDEWA MP SURFACE IS LANDSO TO THIS RULE MAY BE S	ION WHERE THE SURFACE ADJACENT T ZARDS, INCLUDING STEPS, DROP-OFFS LK. RAMP SIDE FLARES ARE NOT REQU CAPED OR IS OCCUPIED BY A BARRIER SUBMITTED TO THE COMMISSIONER FOR	O THE RAMP OR CURBS RED WHERE HAT BLOCKS APPROVAL.	24. NO DEVIATIONS FRO COMMISSIONER.	M THESE STANDARDS ARE ALLOWED W
		REVISION			City of Chicago	
City of Chicago					on onlongo	

