THE SCHOOL DISTRICT OF PHILADELPHIA SCHOOL REFORM COMMISSION

Office of Capital Programs

440 North Broad Street, 3rd Floor – Suite 371 Philadelphia, PA 19130

TELEPHONE: (215) 400-4730

Addendum No. 001

Subject: Cooling Plant Replacement

SDP Contracts No. B-080C, B-081C and B-082 of 2017/18

Location: Thomas A. Edison High School

151 W Luzerne Street

Philadelphia, Pennsylvania 19140

This Addendum, dated August 9, 2018, shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original

documents.

ARCHITECTURAL DRAWINGS

DRAWING A101

- Modified detail 3 to remove additional blocking above the door frame to make for a larger opening. Refer to addendum Sketch A.01
- Modified detail 4 to remove additional blocking above the door frame to make for a larger opening. Refer to addendum Sketch A.01

MECHANICAL DRAWINGS

DRAWING MD101

- Added condenser water treatment equipment and associated piping to remain to both plan and section views on drawing (piping not shown on drawing), Refer to addendum Sketch M.01
- Added domestic cold-water piping to both plan and section views on drawing, Refer to addendum Sketch M.01

DRAWING MD102

- Added detail 6 to show oil tank vents that need to be lowered. Refer to addendum Sketch M.02
- Added approximate location of oil tank vents to detail 1 plan view, Refer to addendum Sketch M.02

DRAWING M101

 Removed clouded elements from drawing for clarity. All necessary information is shown on Sheet M103, Detail 1, Refer to addendum Sketch M.03

DRAWING M102

 Added flow switch and solenoid valve to Chiller Piping Diagram, Refer to addendum Sketch M.04

DRAWING M103

- Added condenser water treatment equipment and associated piping to remain to plan view on drawing (piping not shown on drawing), Refer to addendum Sketch M.05
- Added domestic cold-water piping and new ball valve to plan view on drawing, Refer addendum Sketch M.05

DRAWING M104

- Added condenser water treatment equipment and associated piping to remain to section view on drawing (piping not shown on drawing), Refer to addendum Sketch M.06
- Added domestic cold-water piping and new ball valve to section view on drawing, Refer to addendum Sketch M.06

DRAWING M105

- **Changed** voltage, weight, and model number of exhaust fan, Refer to addendum Sketch M.07

DRAWING M106

 Added pipe saddles and modified note on wall support detail #5, Refer to addendum Sketch M.08

ELECTRICAL DRAWINGS

DRAWING ED201

- Added existing exit sign at the end of the mechanical room to drawing, Refer to addendum Sketch E.01
- Added Keynote #7 addressing work on existing exit sign, Refer to addendum Sketch E.01

DRAWING ED202

- Added existing exit sign at the end of corridor added to drawing, Refer to addendum Sketch E.02
- Added Keynote #4 addressing work on existing exit sign, Refer to addendum Sketch E.02

DRAWING E401

- Added existing exit sign at the end of the mechanical room to drawing. Refer to addendum Sketch E.03
- Added Keynote #7 addressing work on existing exit sign, Refer to addendum Sketch E.03

DRAWING E402

- Added Existing exit sign at the end of corridor to drawing, Refer to addendum Sketch E.04
- Added Keynote #6 addressing work on existing exit sign added, Refer to addendum Sketch E.04

DRAWING E600

- Changed Detail #4 New MCC Single Line: Circuit breaker fuse sizes and trip sizes changed for pumps P-7, P-8, P-10, P-11, Refer to addendum Sketch E.05
- Changed Detail #4 New MCC Single Line: Circuit breaker trip sizes changed for cooling towers CT-1A, CT-1B, Refer to addendum Sketch E.05

DRAWING E701

- **Changed** Electrical Connection Schedule: MOCP values changed for pumps P-7, P-8, P-10, P-11, Refer to addendum Sketch E.06
- **Changed** Electrical Connection Schedule: Wire and Conduit size changed for pumps P-7, P-8, P-10, P-11, Refer to addendum Sketch E.06
- Changed Electrical Connection Schedule: Removed Refrig Monitor from schedule, Refer to addendum Sketch E.06
- Changed Electrical Connection Schedule: MCA, MOCP, FLA values changed for cooling towers CT-1A, CT-1B, Refer to addendum Sketch E.06
- Changed Electrical Connection Schedule: Wire and Conduit size changed for cooling towers CT-1A, CT-1B, Refer to addendum Sketch E.06

BIDDER QUESTIONS SUBMITTED TO DATE & RESPONSES ARE AS FOLLOWS:

1. Can the chiller spec be opened up to Trane, Daiken and JCI?

Answer: Yes, we will allow Carrier, Trane and York Centrifugal Chillers with VFD's part load performance equal to or better then basis of design meeting ASHRAE 90.1 requirements. The Mechanical Contractor is responsible for any added costs over and above the Basis of Design installation that is associated with the installation of these centrifugal chillers including but not limited to access to the mechanical through the building, electrical changes, concrete pad changes, refrigeration leak exhaust system changes due to refrigerant charge and any other additional items. All VFDs shall be provided with Harmonic Filtering.

2. Can the ATC spec be opened up to Honeywell, Niagra and Trane?

Answer: Chiller equipment manufacturers Carrier, Trane and JCI. Vendor must provide a complete package that is fully accessible by end purchase without software keys or limited access.

3. Is heat trace required on exterior piping?

Answer: No, heat trace is not required on exterior piping.

4. Is glycol fill required?

Answer: No, Glycol fill is not required.

5. What is the refrigerant in the existing chillers?

Answer: R-11 is the refrigerant in the Existing Chillers.

6. There are details on both the mechanical drawings and the structural drawings for the pipe supports. Are those to be provided by the mechanical contractor or the GC/steel contractor?

Answer: Mechanical Contractor will provide and install supports. Supports shall be anchored as indicated on steel drawings.

7. On M102, there is a note to extend the ladder to accommodate the dunnage. Please confirm that is by the GC.

Answer: The ladder is the mechanical contractor's responsibility and is an accessory to the Cooling Tower Manufacturer.

8. On M104, there are notes "See structural drawings for new steel support details". Please confirm that all steel work is by the GC.

Answer: Mechanical Contractor will provide and install supports. Supports shall be anchored as indicated on steel drawings.

9. Does any insulation require jacketing?

Answer: The outdoor domestic water piping serving the Cooling Tower Basin Fill is to be insulated and provided with an aluminum jacket per detail 5/M106.

10.On M102, there is a note to lower (4) existing oil tank vents, work not shown. Can a section view or picture be provided to clarify scope? Are there new supports required? Is there wall restoration to be done?

Answer: Refer to Detail 6/MD102.

11. Are inertia bases required for the pumps?

Answer: No, inertia bases are not required for pumps. Utilize existing concrete pads for mounting and grouting of pumps.

12. The "Summary of Work" lists each prime contractor responsible for final cleanup. Can the GC be responsible for final cleanup as it falls under laborer jurisdiction? Same with making the GC responsible for GC 4.1.2?

Answer: Each contractor is responsible for daily clean-up and final clean-up for their own work.

13. Confirm as to who furnishes the pump starters shown on Drawing E-600 Single Line.

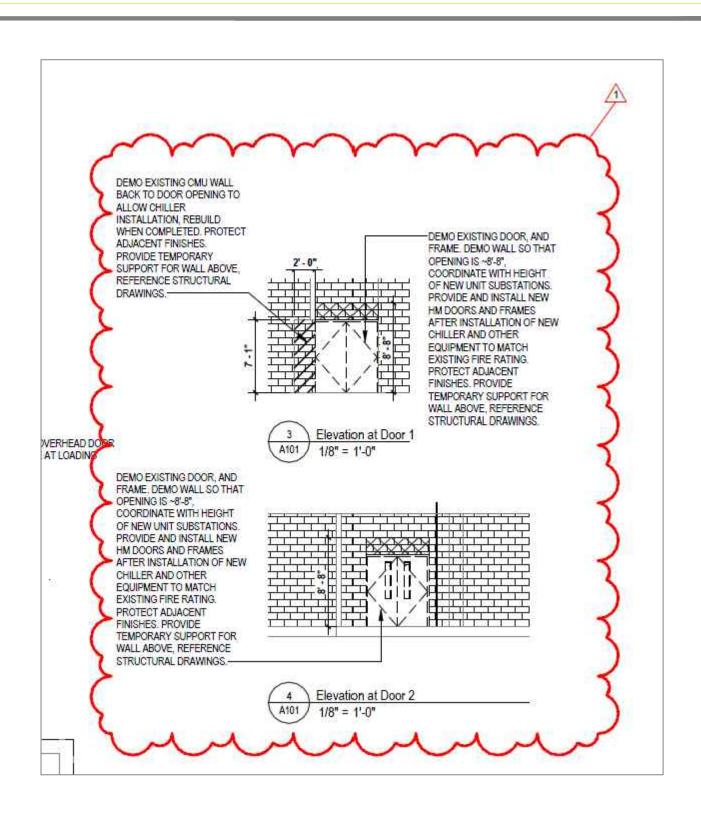
Answer: Electrical Contractor provides combination starters which is indicated on drawing E-701.

INCLUDED SKETCHES – Each Sketch references Drawing Association

- 1. Sketch A.01
- 2. Sketch M.01
- 3. Sketch M.02
- 4. Sketch M.03
- 5. Sketch M.04
- 6. Sketch M.05
- 7. Sketch M.06
- 8. Sketch M.07
- 9. Sketch M.08

- 10. Sketch E.01
- 11. Sketch E.02
- 12. Sketch E.03
- 13. Sketch E.04
- 14. Sketch E.05
- 15. Sketch E.06

END OF ADDENDUM #001



A.01

SPEC NO. B-080 SCALE AS NOTED DATE 08/08/18

SCHOOL DISTRICT OF PHILADELPHIA OFFICE OF CAPITAL PROGRAMS

DEPARTMENT OF DESIGN AND CONSTRUCTION SERVICES

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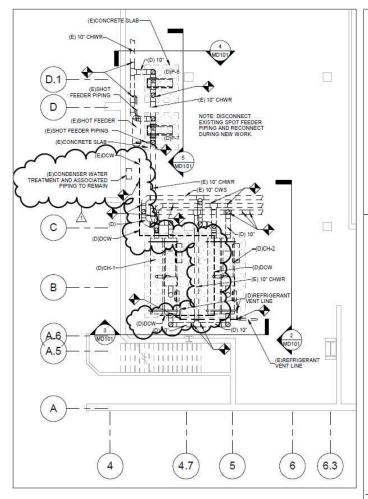
EDISON HIGH SCHOOL

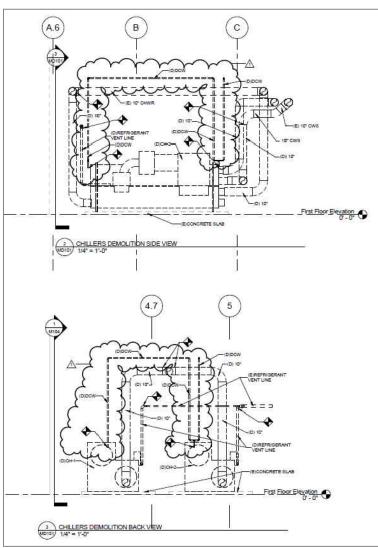
PROJECT TITLE

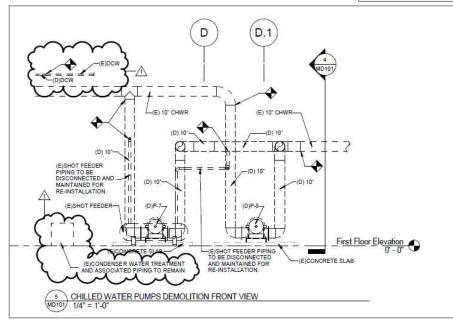
COOLING PLANT REPLACEMENT

DRAWING TITLE

ARCHITECTURAL PLANS







MO.

SPEC NO. B-081 SCALE AS NOTED DATE 08/08/18 SCHOOL DISTRICT OF PHILADELPHIA OFFICE OF CAPITAL PROGRAMS

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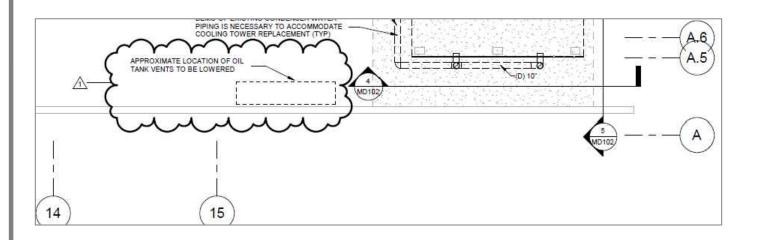
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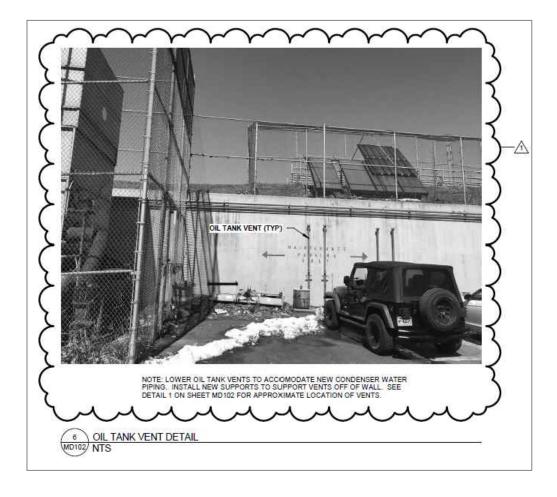
EDISON HIGH SCHOOL

PROJECT TITLE

COOLING PLANT REPLACEMENT

DRAWING TITLE LEVEL 1 MECH. DEMOLITION PLAN EAST





M.O2

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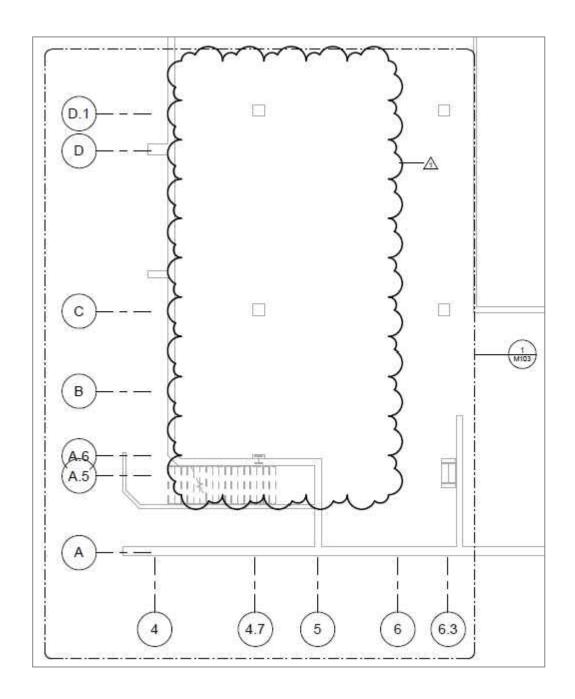
EDISON HIGH SCHOOL

PROJECT TITLE

COOLING PLANT REPLACEMENT

DRAWING TITLE

LEVEL 1 MECH. DEMOLITION PLAN WEST



SPEC NO. B-081 **SCALE** AS NOTED DATE 08/08/18

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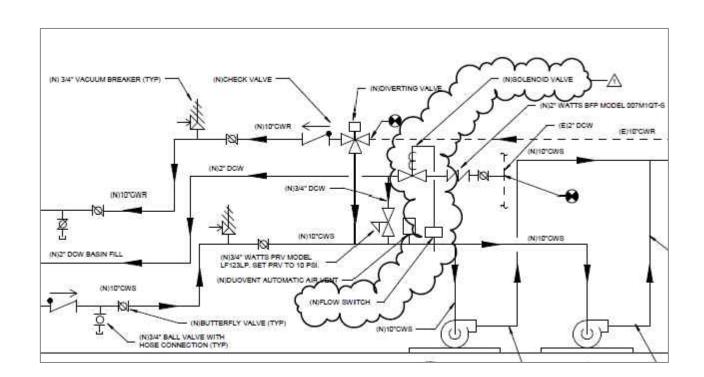
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PROJECT TITLE

COOLING PLANT REPLACEMENT

DRAWING TITLE
LEVEL 1 HVAC PLAN NEW WORK EAST



SPEC NO. B-081 **SCALE** AS NOTED DATE

08/08/18

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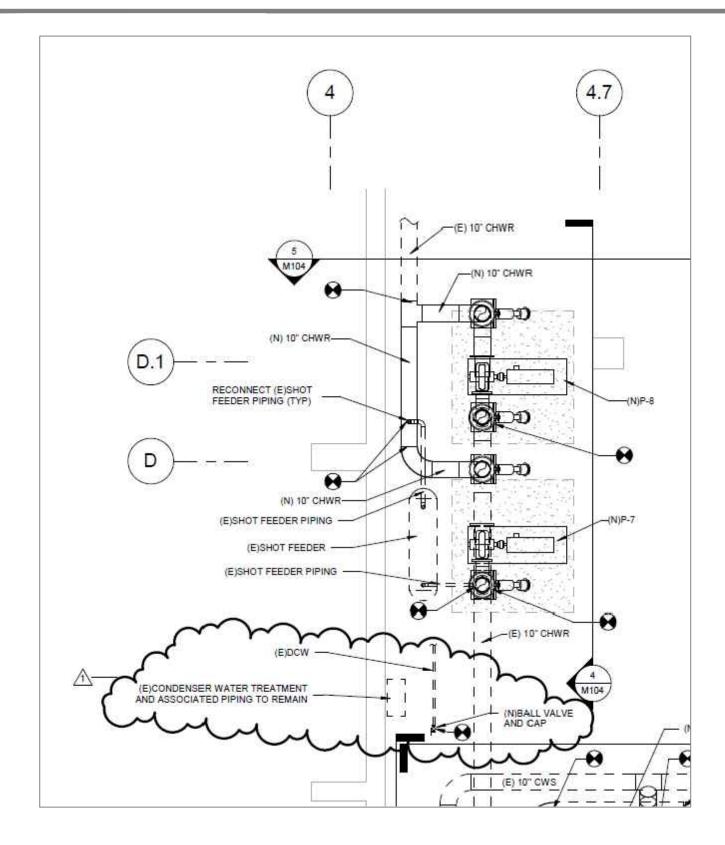
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PROJECT TITLE

COOLING PLANT REPLACEMENT

DRAWING TITLE LEVEL 1 HVAC PLAN NEW WORK WEST



M.O5

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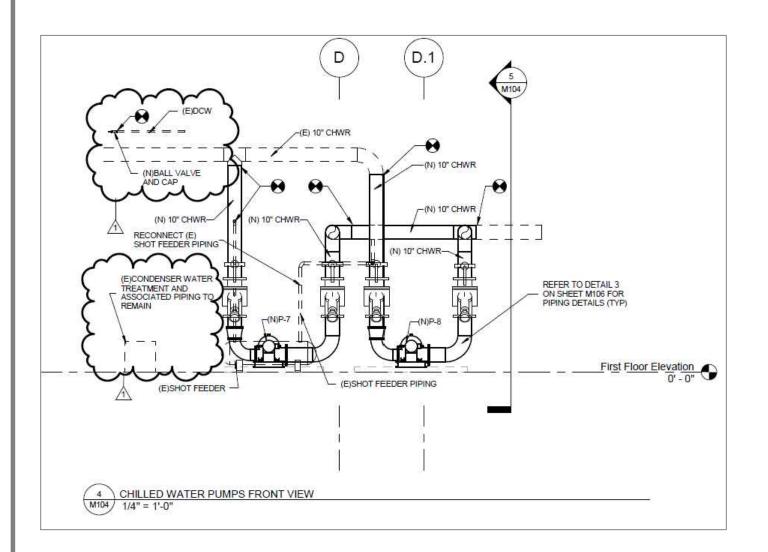
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SCHOOL EDISON HIGH SCHOOL

PROJECT TITLE
COOLING PLANT REPLACEMENT

DRAWING TITLE
HVAC DETAILS VIEW



SPEC NO. B-081 SCALE AS NOTED DATE 08/08/18

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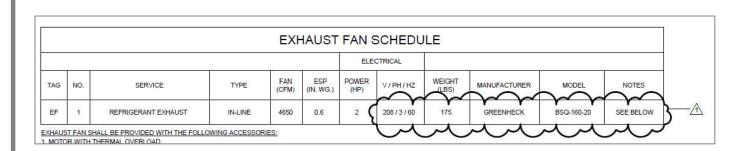
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SCHOOL **EDISON HIGH SCHOOL**

PROJECT TITLE

COOLING PLANT REPLACEMENT

DRAWING TITLE
HVAC SECTIONS VIEW



M.O7

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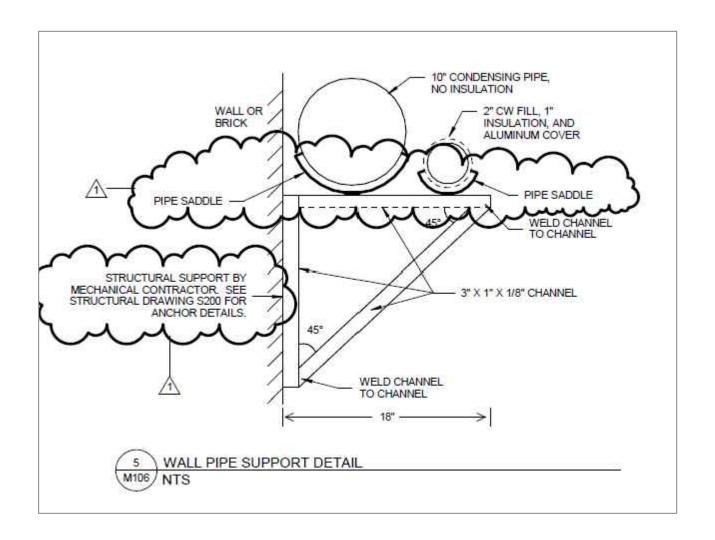
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PROJECT TITLE

COOLING PLANT REPLACEMENT

DRAWING TITLE SCHEDULES



SPEC NO. B-081 **SCALE** AS NOTED DATE

08/08/18

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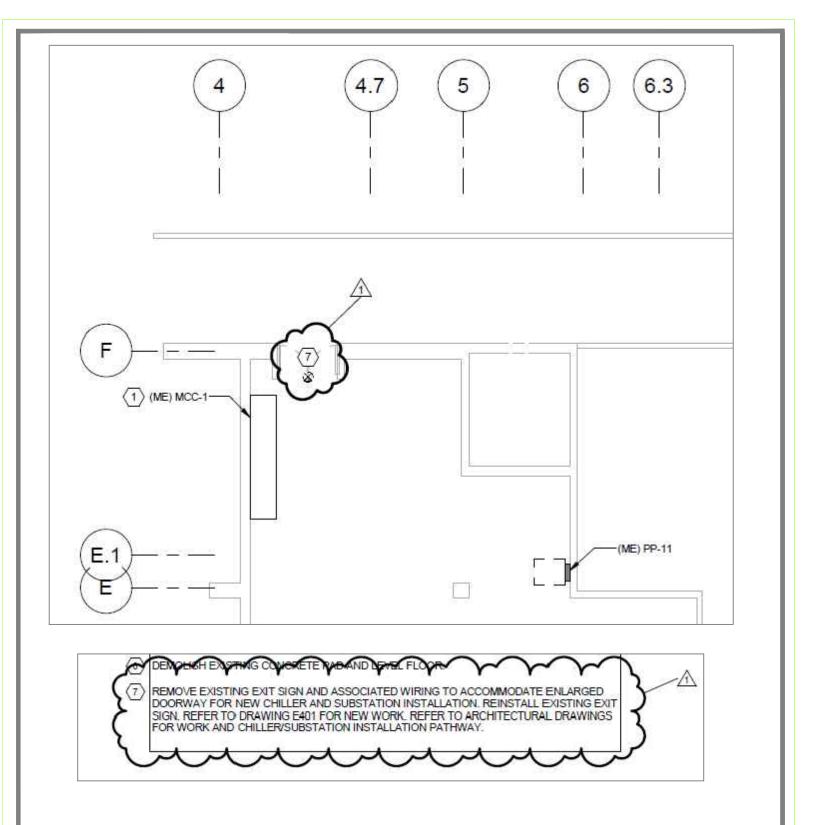
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PROJECT TITLE

COOLING PLANT REPLACEMENT

DRAWING TITLE

MECHANICAL DETAILS





SPEC NO. B-082 SCALE AS NOTED

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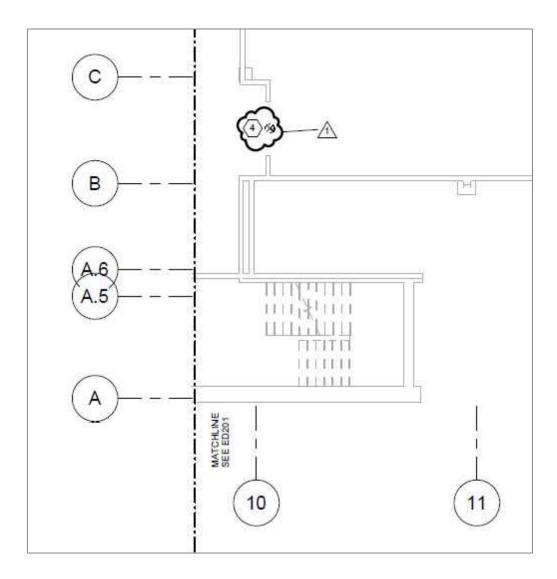
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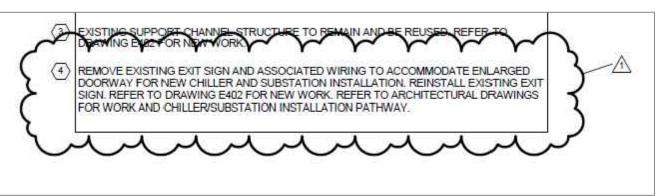
PROJECT TITLE

COOLING PLANT REPLACEMENT

DRAWING TITLE

FIRST FLOOR EAST DEMO PLAN





SPEC NO. B-082 **SCALE** AS NOTED DATE 08/08/18

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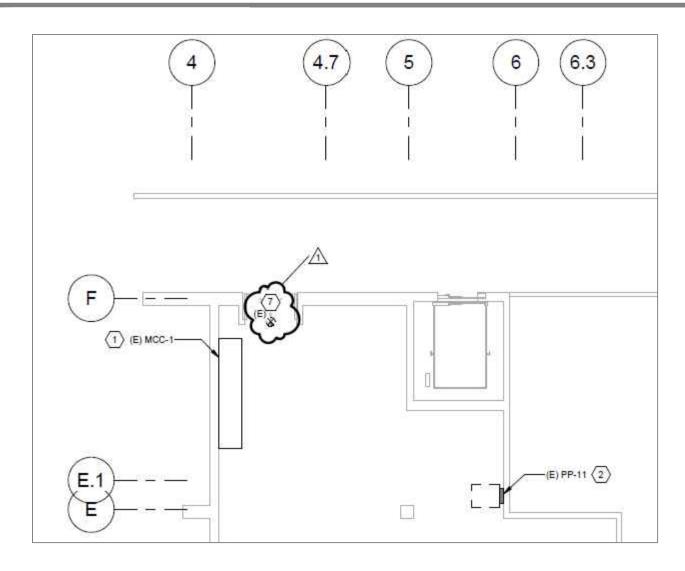
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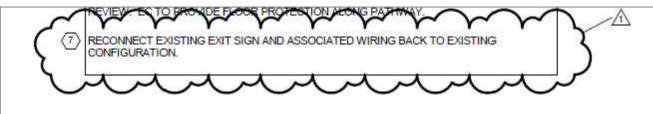
SCHOOL EDISON HIGH SCHOOL

PROJECT TITLE

COOLING PLANT REPLACEMENT

DRAWING TITLE
FIRST FLOOR WEST DEMO PLAN







SPEC NO. B-082 SCALE AS NOTED DATE

08/08/18

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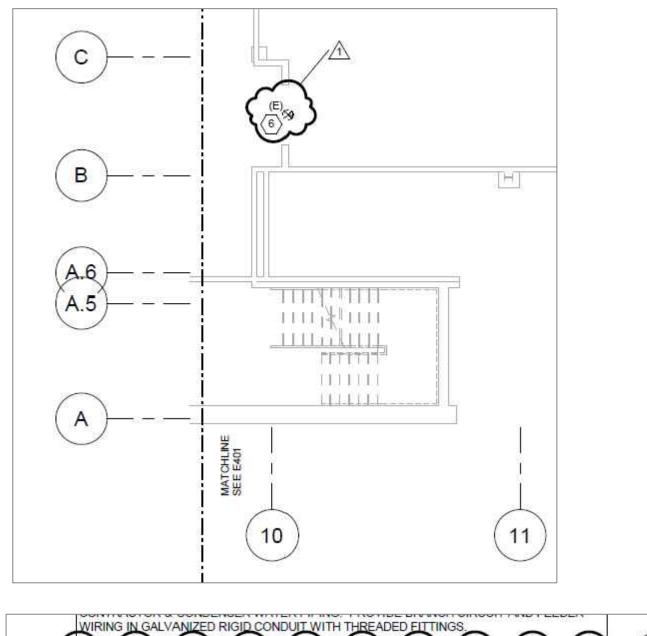
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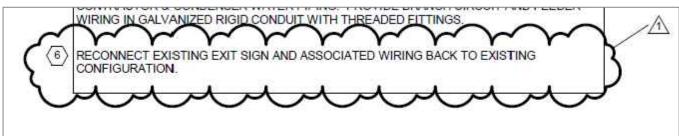
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PROJECT TITLE

COOLING PLANT REPLACEMENT

DRAWING TITLE
FIRST FLOOR EAST POWER PLAN





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SPEC NO. B-082 SCALE AS NOTED DATE

08/08/18

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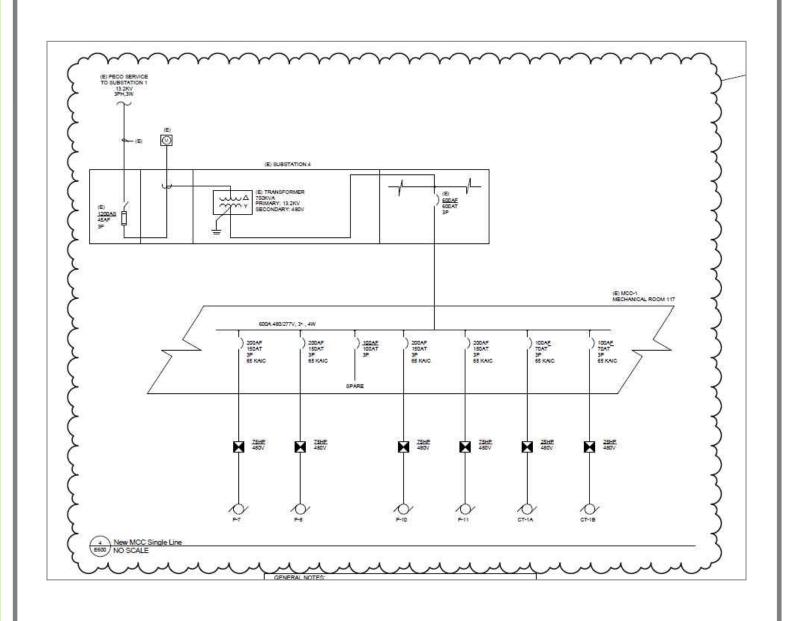
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PROJECT TITLE

COOLING PLANT REPLACEMENT

DRAWING TITLE

FIRST FLOOR WEST POWER PLAN





SPEC NO. B-082 SCALE AS NOTED DATE 08/08/18

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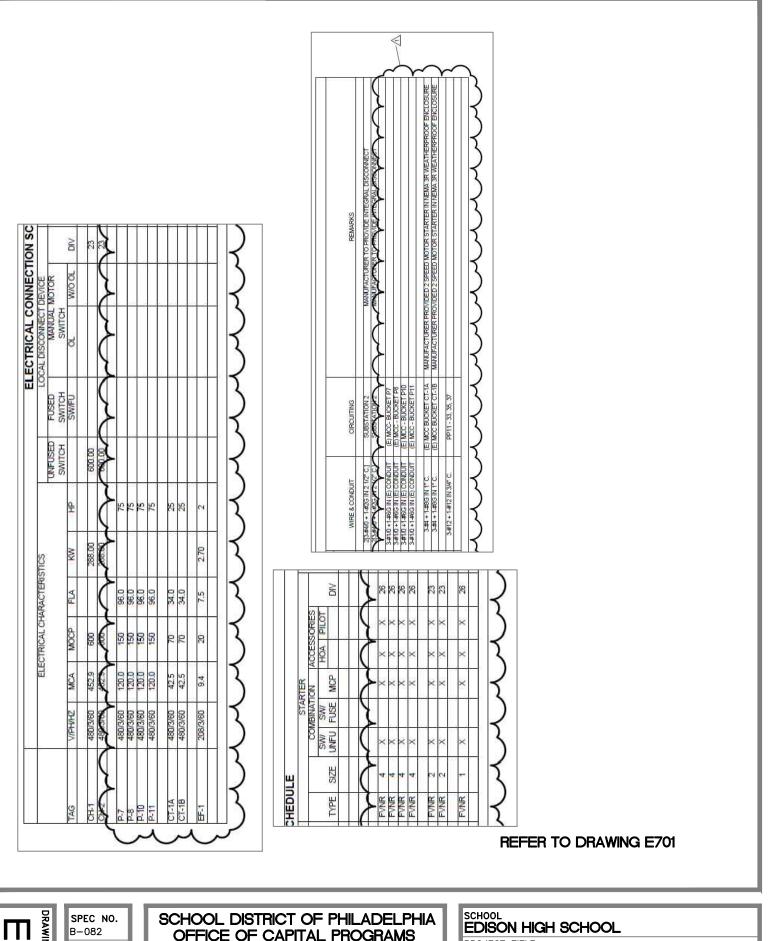
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PROJECT TITLE

COOLING PLANT REPLACEMENT

DRAWING TITLE

SINGLE LINE DIAGRAMS



DRAWING NO.

SCALE AS NOTED DATE 08/08/18

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PROJECT TITLE

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DRAWING TITLE
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