

1  
MP102  
SCALE: 1/4"=1'-0"

three eighths inch = one foot  
one half inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

# PARTIAL FLOOR PLAN - CHILLER ROOM/COOLING TOWER - MECHANICAL NEW WORK - UPPER

CONNECT NEW COMPRESSED AIR PIPING WHERE INDICATED AND EXTEND AS REQUIRED FOR CONNECTION TO RELOCATED AND NEW AIR COMPRESSORS. PIPING INSULATION MATERIAL AND SIZE SHALL MATCH EXISTING. PROVIDE NEW BALL ISOLATION VALVES AT EACH COMPRESSOR PIPING DROP.

FURNISH AND INSTALL NEW GALVANIZED STEEL CHAIN LINK FENCE TO REPLACE EXISTING. HEIGHT, GATES, POSTS, ETC. SHALL MATCH EXISTING. REVISE RUN AND LOCATION AS SHOWN ON DRAWINGS. SET NEW POSTS IN CONCRETE FOOTINGS MIN. 30" BELOW FINISHED GRADE.

TEMPORARY TRAILER MOUNTED 500 TON AIR-COOLED CHILLER (4160V)

PROVIDE NEW 8" CHILLED WATER SUPPLY AND RETURN PIPING CONNECTIONS FOR TEMPORARY CHILLER AS SHOWN. REVISE EXISTING PIPING AS REQUIRED AND TERMINATE IN CAPPED FLANGE ON EXTERIOR OF BUILDING WALL W/ 4'-0" ABOVE FINISHED GRADE. PROVIDE FULL SIZE ISOLATION VALVES WHERE SHOWN TO MATCH EXISTING.

PROVIDE NEW WALL MOUNTED PIPING SUPPORTS AS SHOWN. REFER TO PIPING SUPPORT DETAILS. (TYPICAL)

EXISTING COOLING TOWER AND ALL ASSOCIATED PIPING, CONTROLS, POWER, ETC. TO REMAIN.

REVISE EXISTING HORIZONTAL PIPING SUPPORT STEEL AS REQUIRED FOR ADDITIONAL 12" PIPING TO NEW TOWER. REFER TO PIPING SUPPORT DETAIL.

CONNECT NEW TOWER PIPING TO EXISTING AS SHOWN. EXTEND AS REQUIRED AND SHOWN FOR CONNECTION TO NEW TOWER.

EXISTING STEEL COLUMNS AND PIPING SUPPORTS SHALL BE CLEANED, SCRAPED AND PREPARED FOR NEW PAINT. PROVIDE PRIME COAT AND TWO COATS OF FINISH PAINT IN COLOR TO MATCH EXISTING. (TYPICAL FOR ALL EXTERIOR STEEL PIPING SUPPORTS.)

CONNECT NEW TOWER PIPING TO EXISTING AS SHOWN. EXTEND AS REQUIRED AND SHOWN FOR CONNECTION TO NEW TOWER. REFER TO PIPING SUPPORT DETAILS FOR NEW PIPING SUPPORTS TO EXISTING CHILLER ROOM WALL.

REPLACE (4) EXISTING COOLING TOWER WATER PUMP MOTORS WITH NEW HIGH EFFICIENCY MOTORS. MOTOR HP AND VOLTAGE CHARACTERISTICS SHALL MATCH EXISTING.

FURNISH AND INSTALL NEW AIR COMPRESSOR TO MATCH EXISTING INDESGILL RAND MODEL: IR540HC-C, 2575 RPM MOTOR SPEED, 142 CFM CAPACITY, 150 PSIG RATED PRESSURE, 140 PSIG MAXIMUM PRESSURE, 460V, 60 HZ, 3 PHASE. COORDINATE LOCATION OF NEW AND RELOCATED AIR COMPRESSORS WITH EXISTING CONDITIONS AND AS DIRECTED IN FIELD.

## CONSULTANTS:

## ARCHITECT/ENGINEERS:

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Drawing Title  
**COOLING TOWER PLAN  
MECHANICAL - NEW WORK - UPPER**

Approved: Project Director

Project Title  
**COOLING TOWER REPLACEMENT  
385 TREMONT AVENUE  
EAST ORANGE, NJ 07018**

Location  
**East Orange Campus**

Date  
**March 20, 2012**

Checked  
**LJM**

Drawn  
**BW**

Project Number  
**561-11-112**

Building Number  
**N/A**

Drawing Number  
**MP102**

Dwg. 5 of 8

Office of  
Construction  
and Facilities  
Management

Department of  
Veterans Affairs

100% SUBMISSION