



FURNISH AND INSTALL NEW 60T RECEPTACLE ADJACENT TO NEW LIGHT SWITCH CIRCUIT TO UNWITTED SIDE OF LIGHTING CIRCUIT. (TYPICAL FOR 2 LOCATIONS).

FURNISH AND INSTALL NEW METAL HALIDE WORK LIGHTING FIXTURE (WHERE SHOWN). FIXTURE SHALL MOUNT ON ALUMINUM OR GALVANIZED STEEL PIPING SECURED TO THE TOWER AND RAILING SYSTEMS. FURNISH FIXTURE WITH 175W METAL HALIDE LAMP, 120/277V, SIMILAR TO DAYLITE NITE BRITER MODEL F55 (175W DT-AL) WITH POST TOP SLIPFITTER AND WIRE LENS GUARD. MOUNT FIXTURE APPROX. 84" ABOVE FINISHED TOWER DECK SURFACE. (TYPICAL FOR 6).

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.

RUN NEW LIGHTING POWER CONDUIT AROUND PERIMETER OF NEW TOWER TO SERVE (6) NEW LIGHTING FIXTURES. FURNISH NEW THREE WAY SWITCH AT EACH LADDER ENTRANCE TO TOP OF TOWER AS SHOWN.

FURNISH AND INSTALL NEW NEMA 3R JUNCTION BOXES) AS REQUIRED AND INSTALL NEW CONDUIT AND WIRING FOR CONNECTION TO NEW TOWER FAN MOTOR DISCONNECT SWITCHES, VFD'S, LIGHTING RECEPTABLES AND VIBRATION SWITCHES.

EXISTING JUNCTION BOX FOR POWER TO TOWER MOTORS, LIGHTING, CONTROLS, ETC. REPLACE EACH EXISTING TOWER FAN MOTOR WIRING WITH (3) - #6, #6 GND, 1/4" C. EXISTING CONDUIT MAY BE RE-USED IF MIN. 1/4" C.

RE-CONNECT POWER WIRING TO EXISTING COOLING TOWER WATER PUMPS AS REQUIRED FOR INSTALLATION OF NEW HIGH EFFICIENCY MOTORS.

REPLACE EXISTING COOLING TOWER CT-1 AND CT-2 40 HP STARTER/CIRCUIT BREAKERS WITH NEW 250A TO MATCH EXISTING MANUFACTURER AND STYLE. REPLACE ALL COMPONENTS AS REQUIRED FOR COMPATIBILITY WITH NEW 75 HP COOLING TOWER FAN MOTORS. REPLACE EXISTING WIRING TO EACH TOWER FAN MOTOR WITH (3) - #6, #6 GND, 1/4" C. EXISTING CONDUIT MAY BE RE-USED IF MIN. 1/4" C.

CONSULTANTS:

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Drawing Title
COOLING TOWER PLAN
ELECTRICAL - NEW WORK

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
AC

Project Number
561-11-112

Building Number
N/A

Drawing Number
EP101

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and Facilities
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