AS NOTED
---

DATE 3/6/2019
UNIT C
RDM 2

PENTHOUSE
PENTHOUSE ROOF
CWS

TWS
TWS
TWS
TWS

NOTE THAT NOT ALL CONTROL DEVICES FOR SHEET SI.02 FOR INTEGRATION POINTS AND IDENTIFIED ON THIS SCHEMATIC. REFER TO SCHEDULE ARE PROVIDED BY THE MASTER MATERIAL LIST. DEVICES AS NOTED IN THE SYSTEMS INTEGRATOR.

COLLECTOR WATER BYPASS.
BUTTERFLY VALVES AND PIPING FOR EDGE VERIFY LOCATION.

HONEYWELL - 3
: ADD 3-WAY DIVERTING VALVE,
30HP 208-1700GPM @ 55 FT. HD

FIELD VERIFY WATER PIPING SPLITS INSIDE PENTHOUSE.
NOTE: CONDENSER WATER SYSTEM SCHEMATIC
FIELD VERIFY PIPE TIE POINT
FIELD VERIFY.

NEW ½ HEAT TRACING.
CONTROL.

FIELD VERIFY PIPE TIE POINT
REPLACE EXISTING
NEW COOLING TOWER, ASSOCIATED PORTALS AS REQUIRED.

TOWER MANUFACTURER GUARDRAIL AND LADDER BY

FIELD VERIFY LOCATION 

BASE: NEW TOWER FAN IN MOUNTING LOCATION
VARIABLE FREQUENCY DRIVE

BASE SCOPE
NO SCALE

BY SHUTOFF VALVE TOWER WATER RETURN
STEEL ALLOWANCE. REFER TO OVERALL INCLUDED IN BASE SCOPE VIA STRUCTURAL SUPPORT NEW COOLING TOWER.
NEW STRUCTURAL BEAM SUPPORTS ON BASE
WATER RETURN (TWR) LINE. ROUTE NEW
NEW COOLING TOWER, ASSOCIATED PORTALS AS REQUIRED.

TOWER MFG VIBRATION SWITCH BY – TO SHUT OFF FAN ON EXCESSIVE TOWER MFG VIBRATION.
BASIN ELECTRIC HEATING
FAN ON EXCESSIVE TOWER MFG VIBRATION.

BASE: INSTALL OWNER PROVIDED

BASE: REMOVE EXISTING STEEL AND SET
BASE

PROPOSAL.

CONTACT, PROPOSED SCOPE FOR PROVISION OF STAINLESS CHEMICAL TREATMENT SYSTEM.

BASE SCOPE

TOWER WATER SUPPLY (TWS) LINES AND 10" TOWERBASE WATER RETURN (TWR) LINE. ROUTE NEW

TOWER (TYP. OF 2)

BASE: NEW TOWER FAN IN MOUNTING LOCATION
VARIABLE FREQUENCY DRIVE

BASE SCOPE
NO SCALE

BY SHUTOFF VALVE TOWER WATER RETURN
STEEL ALLOWANCE. REFER TO OVERALL INCLUDED IN BASE SCOPE VIA STRUCTURAL SUPPORT NEW COOLING TOWER.
NEW STRUCTURAL BEAM SUPPORTS ON BASE
WATER RETURN (TWR) LINE. ROUTE NEW
NEW COOLING TOWER, ASSOCIATED PORTALS AS REQUIRED.

TOWER MANUFACTURER GUARDRAIL AND LADDER BY

FIELD VERIFY LOCATION 

BASE: NEW TOWER FAN IN MOUNTING LOCATION
VARIABLE FREQUENCY DRIVE

BASE SCOPE
NO SCALE

BY SHUTOFF VALVE TOWER WATER RETURN
STEEL ALLOWANCE. REFER TO OVERALL INCLUDED IN BASE SCOPE VIA STRUCTURAL SUPPORT NEW COOLING TOWER.
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WATER RETURN (TWR) LINE. ROUTE NEW
NEW COOLING TOWER, ASSOCIATED PORTALS AS REQUIRED.

TOWER MANUFACTURER GUARDRAIL AND LADDER BY

FIELD VERIFY LOCATION 

BASE: NEW TOWER FAN IN MOUNTING LOCATION
VARIABLE FREQUENCY DRIVE

BASE SCOPE
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WATER RETURN (TWR) LINE. ROUTE NEW
NEW COOLING TOWER, ASSOCIATED PORTALS AS REQUIRED.

TOWER MANUFACTURER GUARDRAIL AND LADDER BY

FIELD VERIFY LOCATION 

BASE: NEW TOWER FAN IN MOUNTING LOCATION
VARIABLE FREQUENCY DRIVE

BASE SCOPE
NO SCALE

BY SHUTOFF VALVE TOWER WATER RETURN
STEEL ALLOWANCE. REFER TO OVERALL INCLUDED IN BASE SCOPE VIA STRUCTURAL SUPPORT NEW COOLING TOWER.
EXISTING MECHANICAL PLANS
FOR REFERENCE ONLY
FIELD VERIFY DIMENSIONS,
PATHS AND EQUIPMENT
LOCATIONS

EXISTING PENTHOUSE PIPING PLAN
SCALE: 1/8" – 1'-0"

NOTE: PIPING SPLITS
INSIDE PENTHOUSE

PROJECT NUMBER:
DATE DRAWN:
BY:
REVISION
DATE

DRAWING NUMBER:
DRAWING TITLE:
SCALE:
PAGE:

M.02
3 of 8

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EXISTING ELECTRICAL PLANS
FOR REFERENCE ONLY
FIELD VERIFY DIMENSIONS,
PATHS AND EQUIPMENT
LOCATIONS

EXISTING PENTHOUSE ELECTRICAL PLAN
SCALE: 1/4" – 1'0"

PROJECT NUMBER: 80753
DATE DRAWN: 3/6/2019
BY: RDM

REVISION DATE
DRAWING NUMBER:
DRAWING TITLE:
EXISTING PENTHOUSE ELECTRICAL PLAN
SCALE: AS NOTED
PAGE: 5 of 8

E.01

CLEVELAND METROPOLITAN SCHOOL DISTRICT:
LINCOLN WEST HIGH SCHOOL COOLING TOWER REPLACEMENT 2019
3202 West 30th Street, Cleveland, Ohio 44109

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UNIT A
UNIT B
UNIT C

AREA OF WORK

COOLING TOWER

FOR PROPOSAL
3/6/2019
CHILLED WATER SUPPLY & RETURN SENSORS (STRAP ON) TYPES, LOCATIONS AND POWER SOURCE CONFIGURATIONS, IS A REQUIREMENT.

WHERE PleNUM RATED CABLE WIRING IS ALLOWED, IT SHALL BE RUN PARALLEL TO OR AT IN THE CONDUIT TYPES SPECIFIED IN THE PROJECT ELECTRICAL SPECIFICATIONS UNLESS NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL CODES. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT ELECTRICAL SPECIFICATIONS, THE ELECTRICAL NOTE - CONDUCTOR #18 TWISTED PAIR.

WORKMANLIKE MANNER. FIELD VERIFICATION OF EXISTING CONDITIONS, INCLUDING WIRE RIGHT ANGLES TO THE STRUCTURE, PROPERLY SUPPORTED AND INSTALLED IN A NEAT AND TIDY MANNER. ASSOCIATED DEVICES ARE TO REMAIN UNLESS BEING REPLACED WITH NEW COOLING TOWER INTEGRATION DEVICES ARE PROVIDED BY THE MASTER SYSTEMS INTEGRATOR, BUT INSTALLED BY THE PROPOSER.

1) THE PROPOSER IS TO MOUNT THE JACE ENCLOSURE AND PROVIDE IT WITH 120VAC POWER, COORDINATED WITH THE OWNER AND MASTER SYSTEMS INTEGRATOR (MSI), AGM ENERGY SERVICES.

2) MOUNT ALL SENSORS PER MANUFACTURER'S RECOMMENDATIONS AND PROVIDE THE REQUIRED POWER/SIGNAL WIRING TO ENSURE ACCURATE BUSINESS AND PROPER SYSTEM OPERATION.

3) TERMINATE ALL POWER AND WIRING AT THE NOTED LOCATION. COORDINATE TERMINATIONS WITH MASTER SYSTEMS INTEGRATOR.

4) RUN ETHERNET CABLE FROM NOTED LOCATION FOR CONNECTION TO JACE NETWORK. COORDINATE TERMINATION WITH JACE Ethernet port and system integration connection location. IT IS DETERMINED BY SWITCH OR TECH CLOSET, CLARIFIED IN ADDENDUM.

5) ALL ITEMS REQUIRED FOR THE WORK, WHICH ARE NOT IDENTIFIED IN THE OWNER'S PROJECT REQUIREMENTS SHEET SI.02, ARE TO BE PROVIDED BY THE PROPOSER. THIS INCLUDES BUT IS NOT LIMITED TO VALVES, PIPING, CONDUIT, MOUNTING ACCESSORIES, ETC.

6) THE EXISTING TEMPERATURE CONTROL DEVICES ARE TO REMAIN UNLESS BEING REPLACED WITH NEW COOLING TOWER INTEGRATION DEVICES ARE PROVIDED BY THE MASTER SYSTEMS INTEGRATOR, BUT INSTALLED BY THE PROPOSER. LIMITATION TO VALVES, PIPING, CONDUIT, MOUNTING ACCESSORIES, ETC.

7) THE EXISTING INTEGRATION DEVICES ARE TO REMAIN FOR UPDATED INTEGRATION WITH THE NEW JACE. MOUNT TO SHEET SI.02 PUBLISHED WITH ADDENDUM. FOR SPECIFIC INTEGRATION AND CONTROL POINTS. COORDINATE THE WORK WITH MASTER SYSTEMS INTEGRATOR AS REQUIRED.