1. Wall Assembly - The 1 and 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the

2. Through-Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop

3. Portland Cement Stucco or Gypsum Plaster - Add 1/2 hr to classification if used. Where combustible

4. Fill, Void or Cavity Materials* - Caulk, Sealant or Putty - Min 1/4 in. (6 mm) diam continuous bead of

B. Gypsum Board* - Thickness, type, number of layers and fasteners as required in the individual Wall

Existing to remain

New Partitions

Existing to be removed

1/4" = 1'-0"
Jamb at H.M Door in CMU Wall 7

3" = 1'-0"
**I. GENERAL**

1. **Code and Specifications**
   - Texas Building Code 2012 with City of Houston Amendments

2. **Conformity**
   - Underwriter's Laboratories (UL) for buildings

3. **Electrical**
   - NEC 2015

**II. SPECIAL BUILDING CODES**

1. UL 500 for Fire Protection

**III. GENERAL CONSTRUCTION SPECIFICATIONS**

1. Texas Department of Transportation (TxDOT) Specifications
2. Manual of Concrete Practice
3. ACI 530.1 / ASCE 6, Specification for Masonry Structures
4. ANSI/AWS D1.1, American Welding Society - Steel
5. A325 Bolts: All bolts in structural connections shall conform to ASTM A325
6. All reinforced masonry walls shall extend to the top of wall.
7. All steel reinforcing bars shall be minimum of 1/4" diameter.
8. All reinforcement shall be continuous to check the quality or quantity of the work, for the acts or omissions of any person performing the work, or any costs due to any errors that may occur hereon.

**IV. SUBMITTALS**

1. It is the responsibility of the General Contractor to obtain all Contract Documents and latest addenda and to submit such documents to all subcontractors and their suppliers.
2. The Engineer shall not have control or charge of, and shall not be responsible for, or have supervision of, any work or materials manufactured or furnished therefor.

**V. CONSTRUCTION**

1. The design and construction of all formwork shall be the responsibility of the Contractor in accordance with the requirements specified in the drawings.

**VI. STRUCTURAL STEEL**

1. **Material**
   - Mild Reinforced Members, Interior Exposure (air conditioned space)
2. **Connections**
   - All structural steel connections shall be performed under the direct supervision of a registered professional engineer.
   - Field connections shall be bolted, unless detailed otherwise.
3. **Welds**
   - Welds shall be in accordance with Section 11.8 of the Structural Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details.

**VII. CONCRETE MASONRY**

1. **Specification**
   - The material used in the construction of the concrete masonry units shall be in accordance with ACI 530 / ASCE.
2. **Grout cells**
   - Grout cells shall be solid where vertical bars are shown on the drawings. Vertical bars shall extend to the top of wall.
3. **Reinforcement**
   - All reinforced masonry walls with openings up to four (4) feet wide, shall have one vertical bar minimum at each side of openings. For openings larger that 4 feet wide, vertical bar minimum shall extend to the top of wall.

**VIII. WELDING OF STRUCTURAL STEEL**

1. **Connections**
   - All steel connections shall be performed under the direct supervision of a registered professional engineer.
   - Field connections shall be bolted, unless detailed otherwise.
2. **Welds**
   - Welds shall be in accordance with Section 11.8 of the Structural Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details.

**IX. SUBMITTALS**

1. It is the responsibility of the General Contractor to obtain all Contract Documents and latest addenda and to submit such documents to all subcontractors and their suppliers.
2. The Engineer shall not have control or charge of, and shall not be responsible for, or have supervision of, any work or materials manufactured or furnished therefor.

**X. CONCRETE MASONRY**

1. **Specification**
   - The material used in the construction of the concrete masonry units shall be in accordance with ACI 530 / ASCE.
2. **Grout cells**
   - Grout cells shall be solid where vertical bars are shown on the drawings. Vertical bars shall extend to the top of wall.
3. **Reinforcement**
   - All reinforced masonry walls with openings up to four (4) feet wide, shall have one vertical bar minimum at each side of openings. For openings larger that 4 feet wide, vertical bar minimum shall extend to the top of wall.

**XI. CONFLICTS IN STRUCTURAL REQUIREMENTS**

1. **General**
   - The design and construction of all formwork shall be the responsibility of the Contractor in accordance with the requirements specified in the drawings.
2. **Formwork**
   - Formwork shop drawings shall include all items described in Paragraph 11.6.
3. **Temporary Supports**
   - All other temporary supports shall be engineered to support all loads imposed by the completed structure and temporary supports as described in Paragraph 11.6.
4. **Connections**
   - Field connections shall be bolted, unless detailed otherwise.
   - Welds shall be in accordance with Section 11.8 of the Structural Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details.

**XII. CONCRETE MASONRY**

1. **Specification**
   - The material used in the construction of the concrete masonry units shall be in accordance with ACI 530 / ASCE.
2. **Grout cells**
   - Grout cells shall be solid where vertical bars are shown on the drawings. Vertical bars shall extend to the top of wall.
3. **Reinforcement**
   - All reinforced masonry walls with openings up to four (4) feet wide, shall have one vertical bar minimum at each side of openings. For openings larger that 4 feet wide, vertical bar minimum shall extend to the top of wall.

**XIII. CONSTRUCTION DETAILS**

1. **General**
   - The design and construction of all formwork shall be the responsibility of the Contractor in accordance with the requirements specified in the drawings.
2. **Formwork**
   - Formwork shop drawings shall include all items described in Paragraph 11.6.
3. **Temporary Supports**
   - All other temporary supports shall be engineered to support all loads imposed by the completed structure and temporary supports as described in Paragraph 11.6.
4. **Connections**
   - Field connections shall be bolted, unless detailed otherwise.
   - Welds shall be in accordance with Section 11.8 of the Structural Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details.

**XIV. CONFLICTS IN STRUCTURAL REQUIREMENTS**

1. **General**
   - The design and construction of all formwork shall be the responsibility of the Contractor in accordance with the requirements specified in the drawings.
2. **Formwork**
   - Formwork shop drawings shall include all items described in Paragraph 11.6.
3. **Temporary Supports**
   - All other temporary supports shall be engineered to support all loads imposed by the completed structure and temporary supports as described in Paragraph 11.6.
4. **Connections**
   - Field connections shall be bolted, unless detailed otherwise.
   - Welds shall be in accordance with Section 11.8 of the Structural Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details and Detailing of Concrete Reinforcement as reported in the ACI Standard Details.
1. Field verify all existing conditions & dimensions prior to fabrication/construction.
2. All saw-cut openings shall be located between joists, beams, columns & any other slab support members. A/E shall be notified of any conflicts with opening locations & of any damage to structural members during construction.
3. Refer to sheet S301 for reinforcing & details of conditions at top & bottom of new CMU walls.

The University of Texas
Health Science Center at Houston

UCT
SWITCHGEAR
REPLACEMENT

RENOVATION PLAN - 1ST FLOOR

RENOVATION PLAN - 2ND FLOOR

RENOVATION PLAN - 3RD FLOOR
PLAN NOTES - S202

1. Field verify all existing conditions & dimensions prior to fabrication/construction.
2. All steel, concrete & masonry work shall comply with the latest MoAAC specifications.
3. Ensure proper coordination for HVAC, plumbing & fire protection systems.

NOTES:

1. Field verify all existing conditions & dimensions prior to fabrication/construction.
2. All saw-cut openings shall be located between joists, beams, columns & any other slab support members. A/E shall be notified of any conflicts with opening locations & of any damage to structural members during construction.
3. Refer to sheet S301 for reinforcing & details of conditions at top & bottom of new CMU walls.

ISSUE FOR PRICING

DIGITALLY SIGNED: 01/17/2018

The University of Texas
Health Science Center at Houston

UCT
SWITCHGEAR REPLACEMENT
RENOVATION PLAN - 4TH FLOOR

No. Description Date

DIGITALLY SIGNED: 01/17/2018

DIGITALLY SIGNED: 01/17/2018

Wells Fargo Bank Plaza
221 N. Kansas Street
Suite 820
El Paso, Texas 79901
(915) 613-4576
www.pwarch.com

Texas Registered Engineering Firm F-2113
2825 Wilcrest, Suite #350  Houston, Texas 77042
Ph. 713.780.7563 Fax.713.780.9209

TIMOTHY C. MEKARU
NORTH
1. FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS PRIOR TO FABRICATION/CONSTRUCTION.

2. ALL SAW-CUT OPENINGS SHALL BE LOCATED BETWEEN JOISTS, BEAMS, COLUMNS & ANY OTHER SLAB SUPPORT MEMBERS. A/E SHALL BE NOTIFIED OF ANY CONFLICTS WITH OPENING LOCATIONS & OF ANY DAMAGE TO STRUCTURAL MEMBERS DURING CONSTRUCTION.

3. REFER TO SHEET S301 FOR REINFORCING & DETAILS OF CONDITIONS AT TOP & BOTTOM OF NEW CMU WALLS.
MECHANICAL SYSTEMS INFORMATION

TYPES OF SYSTEMS

1. LOW TEMPERATURE VENTILATION ROOM
2. HIGH TEMPERATURE VENTILATION ROOM
3. LABORATORY WITH SPECIAL AIR QUALITY REQUIREMENTS
4. LABORATORY WITH SPECIAL HUMIDITY REQUIREMENTS
5. CONTROL ROOM
6. ELECTRICAL ROOM
7. ELECTRICAL ROOM (EXCEPTION: THRU WALL DETAIL M-900)
8. ELECTRICAL ROOM (EXCEPTION: CONDENSATE DRAIN DETAIL M-900)
9. ELECTRICAL ROOM (EXCEPTION: COMBINATION FIRE/SMOKE DAMPER DETAIL M-900)
10. ELECTRICAL ROOM (EXCEPTION: 2-WAY CONTROL VALVE COIL CONNECTION DETAIL M-900)

DESIGN CONDITIONS

1. SUMMER OUTSIDE (80°F/68°F) (ASHRAE 99.6% HEATING DB)
2. WINTER OUTSIDE (DEG F) (ASHRAE 1% DRY BULB/WET BULB)
3. SUMMER OUTSIDE (DEG. F DB/WB) (ASHRAE 1% DRY BULB/WET BULB)

SUMMARY INSIDE:

1. ELECTRICAL ROOMS
2. ELECTRICAL ROOMS
3. ELECTRICAL ROOMS

DRAWING LIST - MECHANICAL

M-01 MECHANICAL LEGENDS, GENERAL NOTES AND SCHEDULES
M-02 MECHANICAL LEGENDS, SPECIAL NOTES AND SCHEDULES
M-03 MECHANICAL LEGENDS, SCHEDULES, GENERAL NOTES AND SCHEDULES
M-04 MECHANICAL LEGENDS, SCHEDULES, SPECIAL NOTES AND SCHEDULES

DETAIL LIST - MECHANICAL

1. WALL MOUNTED DX FAN COIL UNIT
2. WALL MOUNTED HC UNIT
3. WALL MOUNTED FCU UNIT
4. WALL MOUNTED HV UNIT
5. WALL MOUNTED SV UNIT
6. WALL MOUNTED RV UNIT
7. WALL MOUNTED FF UNIT
8. WALL MOUNTED FILL UNIT

SCHEDULE - WALL MOUNTED DX FAN COIL UNIT

<table>
<thead>
<tr>
<th>MARK</th>
<th>TYPE</th>
<th>RPM</th>
<th>COMPLETION</th>
<th>STATUS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SCHEDULE - AIR COOLED CONDENSING UNIT

<table>
<thead>
<tr>
<th>MARK</th>
<th>TYPE</th>
<th>RPM</th>
<th>COMPLETION</th>
<th>STATUS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SCHEDULE - FAN

<table>
<thead>
<tr>
<th>MARK</th>
<th>TYPE</th>
<th>RPM</th>
<th>COMPLETION</th>
<th>STATUS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SCHEDULE - FAN COIL UNIT

<table>
<thead>
<tr>
<th>MARK</th>
<th>TYPE</th>
<th>RPM</th>
<th>COMPLETION</th>
<th>STATUS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FAN COIL UNIT SCHEDULE GENERAL NOTES

1. UNIT SHALL BE PROVIDED WITH 5/16" ROD NUT DIRECTION FOR CONSTRUCTION PURPOSES WITH A 1/2" 
   TUBE.
2. FAN COIL UNIT STATIC PRESSURE LOSS INCLUDES LOSES DUE TO SUPPLY AND RETURN DUCTS, OPIEUDERS, AND 
   DOOR S, (3/8" FOR UFUs 1/2" FOR SO).
3. UNIT TO BE PROVIDED WITH FACTORY MOUNTED Disconnect Switch To Be Tested By Div. 26.
4. UNIT TO BE CONNECTED TO EMERGENCY POWER.

M-001

THESE GENERAL NOTES APPLY TO ALL MECHANICAL DISRUPTIONS. NO LOSS OF COOLING IN THE EVENT OF A SYSTEM MALFUNCTION OR POWER OUTAGE. THE SYSTEMS SHALL BE DESIGNED TO WITHSTAND A MAXIMUM DEGREE OF DISRUPTION AS PERMITTED BY THIS DOCUMENT.

MECHANICAL LEGENDS, GENERAL NOTES AND SCHEDULES

M-001

SWITCHGEAR REPLACEMENT

The University of Texas Health Science Center at Houston

UCF

REPLACEMENT
GENERAL NOTES

A. REFER TO DIFFUSER SCHEDULE FOR SIZE OF RUNOUT AND DIFFUSER CONNECTION SIZE.

B. PROVIDE DUCTWORK TRANSITIONS AS REQUIRED AT FAN COIL UNIT INLET AND DISCHARGE CONNECTIONS.

C. PROVIDE TURNING VANES IN ALL RECTANGULAR DUCT ELBOWS.

D. PROVIDE ACCESS DOORS IN DUCTWORK AT FIRE DAMPERS AND FIRE/SMOKE DAMPERS. IDENTIFY ACCESS DOORS IN ACCORDANCE WITH SPECIFICATIONS.

E. INSULATE EXTERIOR OF ALL SUPPLY AIR DUCTWORK.

F. INSULATE ALL CHILLED AND HOT WATER PIPING.

G. PROVIDE REDUCERS IN PIPING AT COIL CONNECTIONS AS REQUIRED.

KEYED NOTES - M-200

1 FIELD ROUTE FAN COIL UNIT CONDENSATE DRAIN TO NEARBY MECHANICAL ROOM FLOOR DRAIN.

2 HOT TAP NEW 2 1/2" CHS/R LINES IN EXISTING CHS/R MAINS. PROVIDE ISOLATION VALVE AT CONNECTION FOR NEW BRANCH PIPING.

3 EXISTING ELECTRICAL VAULT VENTILATION FAN TO BE DEMOLISHED.

4 EXISTING TO REMAIN OUTSIDE AIR DUCT AT THE LOCATION SHOWN.

5 PROVIDE NEW TEMPORARY VENTILATION INLINE FAN AT THE LOCATION SHOWN. SUPPORT FAN FROM FLOOR BELOW.

The University of Texas Health Science Center at Houston

UCT SWITCHGEAR REPLACEMENT

MECHANICAL ROOM BASEMENT

Wells Fargo Bank Plaza
221 N. Kansas Street
Suite 820
El Paso, Texas 79901
(915) 613-4576
www.pwarch.com

Ground Level
0' - 0"

Lower Level
-12' - 0"

2825 Wilcrest, Suite #350
Houston, Texas 77042
Ph. 713.780.7563 Fax. 713.780.9209

Philo Wilke Partnership
With New York Place
211 E. 23rd Street
New York, NY 10010
305.225.1974
www.pwarch.com

JERRY GARCIA
109887
1. REFER TO MECHANICAL DETAIL SCHEDULE FOR LOCATION OF MECHANICAL INSTALLATION DETAILS.

2. CONTRACTOR SHALL PROVIDE CLEARANCE IN FRONT AND AT SIDES OF ALL CONTROL PANELS AND J-BOX AS REQUIRED BY N.E.C. (36 INCHES).

3. PROVIDE DUCTWORK TRANSITIONS AS REQUIRED AT FAN INLET AND LOUVER CONNECTIONS.

4. REFER TO MECHANICAL DETAIL SCHEDULE FOR DUCT PENETRATION THROUGH FIRE RATED PARTITION DETAIL LOCATION. PROVIDE ACCESS DOORS IN DUCTWORK AT FIRE DAMPERS AND FIRE/SMOKE DAMPERS. IDENTIFY ACCESS DOORS IN ACCORDANCE WITH SPECIFICATIONS.

GENERAL NOTES

A. REFER TO MECHANICAL DETAIL SCHEDULE FOR LOCATION OF MECHANICAL INSTALLATION DETAILS.
B. CONTRACTOR SHALL PROVIDE CLEARANCE IN FRONT AND AT SIDES OF ALL CONTROL PANELS AND J-BOX AS REQUIRED BY N.E.C. (36 INCHES).
C. PROVIDE DUCTWORK TRANSITIONS AS REQUIRED AT RAIN INLET AND LOUVER CONNECTIONS.
D. REFER TO MECHANICAL DETAIL SCHEDULE FOR DUCT PENETRATION THROUGH FIRE RATED PARTITION DETAIL LOCATION. PROVIDE ACCESS DOORS IN DUCTWORK AT FIRE DAMPERS AND FIRE/SMOKE DAMPERS. IDENTIFY ACCESS DOORS IN ACCORDANCE WITH SPECIFICATIONS.

KEYED NOTES - M-201

1. REMOVABLE ARCHITECTURAL LOUVER WITH A MINIMUM FREE AREA OF 2 SQUARE FEET. RE: ARCHITECTURAL.

2. SUPPORT FAN FROM STRUCTURE ABOVE. PROVIDE SPRING ISOLATORS WITH MINIMUM 1" DEFLECTION.

3. FIRE SMOKE DAMPER SHALL UTILIZE 120V POWER. UPON SP CLOSURE OF FIRE SMOKE DAMPER, SF-2-1 SHALL BE DE-ENERGIZED.

4. REMOVE AND RELOCATE EXISTING LOUVER AND FSD AS INDICATED ON 2/M-201.

5. RELOCATED LOUVER AND FSD.

6. PROVIDE FRONT LOADING 2" FILTER RACK BETWEEN FIRE SMOKE DAMPER AND REMOVABLE ARCHITECTURAL LOUVER.

LEVEL 2 - MECHANICAL PLAN DEMOLITION

DEMOLITION LEGEND

EXISTING TO REMAIN TO BE DEMOLISHED

LEVEL 2 - MECHANICAL PLAN RENOVATION

RENOVATION LEGEND

EXISTING RENOVATION

M-201

2ND FLOOR RENOVATION

(CENTERPOINT VAULT)

The University of Texas Health Science Center at Houston

UCT SWITCHGEAR REPLACEMENT

The University of Texas

Wells Fargo Bank Plaza
221 N. Kansas Street
Suite 820
El Paso, Texas 79901
(915) 613-4576
www.pwarch.com

2825 Wilcrest, Suite #350
Houston, Texas 77042
(713) 780-7563
Fax: (713) 780-9209

Ph. 713.780.7563
Fax. 713.780.9209
www.pwarch.com

As indicated

M-201

No. Description Date

1 ISSUE FOR PRICING 01/18/2018

01/18/2018
### GENERAL NOTES

A. REFER TO MECHANICAL DETAIL SCHEDULE FOR LOCATION OF MECHANICAL INSTALLATION DETAILS.

B. CONTRACTOR SHALL PROVIDE CLEARANCE IN FRONT AND AT SIDES OF ALL CONTROL PANELS AND J-BOX AS REQUIRED BY N.E.C. (36 INCHES).

C. PROVIDE DUCTWORK TRANSITIONS AS REQUIRED AT FAN INLET AND LOUVER CONNECTIONS.

D. REFER TO MECHANICAL DETAIL SCHEDULE FOR DUCT PENETRATION THROUGH FIRE RATED PARTITION DETAIL LOCATION. PROVIDE ACCESS DOORS IN ELECTRICAL AND FIRE DAMPERS AND FIRE/SMOKE DAMPERS. IDENTIFY ACCESS DOORS IN ACCORDANCE WITH SPECIFICATIONS.

### KEVED NOTES - M-401

1. FAN COIL UNIT REFRIGERANT PIPING TO CU-4-1. PIPE SIZE TO BE DETERMINED AND ENGINEERED BY CONDENSING UNIT MANUFACTURER. SUPPORT REFRIGERANT PIPING ON WALLS. INSULATE SUCTION PIPE WITH 1" OF CLOSED CELL INSULATION.

2. PROVIDE HEAVY DUTY NEMA 3R DISCONNECT FOR CU-4-1, TO BE INSTALLED BY DIV. 26.

3. FIELD ROUTE 3/4" CONDENSATE DRAIN TO THE FLOOR DRAIN AT THE LOCATION SHOWN. SLOPE PIPING ACCORDING TO THE SPECIFICATIONS.
1. THE SUPPLY FAN WITH ECM MOTOR (IF EQUIPPED) SHALL BE USED TO DRY SATURATED AIR.
2. THE FAN OPERATES AT A CONSTANT SPEED.
3. A CURRENT MONITORING RELAY ON EACH FAN SHALL BE USED FOR AIR BALANCING.

2. THE DDC SHALL MONITOR THE SPACE TEMPERATURE AND ALARM WHEN SPACE TEMPERATURE REACHES 10°F ABOVE SETPOINT.

3. A CURRENT MONITORING RELAY ON EACH FAN SHALL BE USED FOR AIR BALANCING.
EVERY CHANGE TO OPEN DRAIN C.O. AT

DRAIN MIN. 1/8" PER FOOT

INTERIOR WALL FABRICATION SLEEVE AFTER S.S. NUTS AND BOLTS IN-LINE FAN MOUNTING DETAIL

CONDENSATE DRAIN DETAIL

PIPE PENETRATION THRU WALL DETAIL

CONCESSIONATE DRAIN SIZING CHART: PROVIDE DRAIN PIPING AS SHOWN

1. PROVIDE ACCESS SCALES SO SUBJECT WORK ACROSS EXISTING ACCESSIBLE SIDE OF
   WALL
2. REFER TO ARCHITECTURE PLANS FOR TOOLS DETAIL

NOTES (APPLIES TO BOTH BLOW-THRU AND DRAW-THRU UNITS):

AS REQUIRED FOR ROUTING THE CONDENSATE TO THE FLOOR DRAIN.

AS INDICATED IN AHU SCHEDULE.

INSULATE CONDENSATE PIPING; RE: SPECIFICATIONS.

THE P-TRAP PLUS ONE INCH FOR CLEANING, PLUS AN ADDITIONAL 1/8" PER FOOT

HEIGHT OF THE AHU BASE TO BE NO LESS THAN THE CALCULATED HEIGHT OF

AHU DRAIN PAN SP. PLUS 1/2"

DIELECTRIC UNION

UNION, PROVIDE

BLOW-THRU UNITS PLUG, TYP.

3" MIN. CAP OR 3/4" BALL VALVE WITH CAPPED HOSE ADAPTOR

FOR MOTOR POSITION

MOTOR; SEE FLOOR PLANS

FLOOR HOUSEKEEPING

SIDE VIEW

FRONT VIEW

2 WAY CONTROL VALVE COIL

3 CONNECTION DETAIL

CONVECTION UNIT REFRIGERANT

PUMP SCHEMATIC
1. ELECTRICAL SHUTDOWN FOR FIRE PUMP HIGH RISE AND LOW RISE
   a. This contractor shall provide prior to the meeting a detailed schedule of all activities of this shutdown.
   b. This contractor shall conduct a meeting with the building management to discuss the scope of this shutdown.
   c. Prior to shutting down existing normal power this contractor shall inspect existing normal power for any overheating.
   d. This contractor shall disconnect existing normal power from the fire pump control panel and terminate new normal power feeder after existing normal power feeder is disconnected and removed.
   e. Turn emergency and normal power back on.
   f. This contractor shall coordinate with the city of Houston fire department to have a fire truck at the site for the duration of this shutdown.

2. ELECTRICAL SHUTDOWN FOR PANEL E
   a. This contractor shall provide prior to the meeting a detailed schedule of all activities of this shutdown.
   b. This contractor shall conduct a meeting with the building management to discuss the scope of this shutdown.
   c. Prior to shutting off power to existing panel E, this contractor shall disconnect existing normal power from the fire pump control panel and terminate new normal power feeder after existing normal power feeder is disconnected and removed.
   d. At this time turn off power to existing main switchboard to panel E disconnect and remove existing wire and conduit from existing panel E to existing switchboard.
   e. At this time disconnect and remove existing panel E and install new panel. Terminate new feeder in new panel E and after all terminations are completed turn power on in new main switchboard.

3. ELECTRICAL SHUTDOWN FOR MCC1
   a. This contractor shall repeat same steps described above for shutdown for panel E listed above.

4. ELECTRICAL SHUTDOWN FOR PANEL PH
   a. This contractor shall provide prior to the meeting a detailed schedule of all activities of this shutdown.
   b. This contractor shall conduct a meeting with the building management to discuss the scope of this shutdown. This contractor shall prepare to present to the owner the duration of this shutdown and if temporary power is required with details.
   c. Turn off existing fuse box disconnect switch and install new ground busbar.
   d. Remove existing wire in existing conduit and install new as shown on one-line diagram. Make all terminations.
   e. After all terminations are completed turn power on.

5. ELECTRICAL SHUTDOWN FOR BUS RISERS EAST AND WEST
   a. This contractor shall provide prior to the meeting a detailed schedule of all activities of this shutdown.
   b. This contractor shall conduct a meeting with the building management to discuss the scope of this shutdown.
   c. Prior to shutting off power to existing bus risers this contractor shall disconnect existing normal power from the fire pump control panel and terminate new normal power feeder after existing normal power feeder is disconnected and removed.
   d. At this time shut off power in existing switchboards to existing bus risers. After power is off, this contractor shall remove existing bus from level 1 to existing switchboards in the main and new switchboard on the east side of the garage.
   e. Install new tap boxes in existing electrical room on level 1. Refer to drawing E021.
   f. Make final terminations of new feeders in new tap boxes.
   g. After all terminations are completed turn power on.

6. ELECTRICAL SHUTDOWN FOR PANEL 204PH
   a. This contractor shall provide prior to the meeting a detailed schedule of all activities of this shutdown.
   b. This contractor shall conduct a meeting with the building management to discuss the scope of this shutdown.
   c. Install new feeder from new main switchboard as shown on the one-line diagram (E020) to the proximity of the new pull box on level 4 of the garage. Refer to drawing E024.
   d. Turn off existing breaker feeding existing panel 204PH. Install new pull box to interrupt existing feeders. Remove existing conductors and wire not used and splice conductors new with existing in new pull box.
   e. After all terminations are completed turn power on.

7. ELECTRICAL SHUTDOWN FOR ATS-A AND ATS-B (4TH FLOOR)
   a. This contractor shall provide prior to the meeting a detailed schedule of all activities of this shutdown.
   b. This contractor shall conduct a meeting with the building management to discuss the scope of this shutdown. This contractor shall be prepared to present to the owner the duration of this shutdown and if temporary power is required with details.
   c. Install new feeder from new main switchboard as shown on the one-line diagram (E025) to the proximity of the new pull box on level 4 of the garage. Refer to drawing E024.
   d. Transfer ATS-A & ATS-B to emergency power. Keep the generator on for the duration of the shutdown.
   e. Install new pull box to interrupt existing feeders. Remove existing conductors and wire not used and splice conductors new with existing in new pull box.
   f. After all terminations are completed transfer ATS-A & ATS-B to normal power and shut off generator.
1. Field verify existing conditions prior to work.
2. New Switch Room Above.
3. Coordinate structural engineer and existing conditions.
4. New switch by Square D #ETBMB, Copper, 1600A, 3P, 4W, 480V.
5. Install new transition joint between existing busway and new cable tap box. Coordinate with Square D. Make all terminations and turn power back on.
6. After turning off power for busway riser A, this contractor shall remove existing elbow and remove existing busway riser back to existing switchboard MSBA. At this time install new tap box by Square D #ETBMB, Copper, 1600A, 3P, 4W, 480V. This contractor shall provide a 12" transition joint between the existing busway and new cable tap box. Coordinate with Square D. Make all terminations and turn power back on.
7. Repeat the same steps for busway riser B.
8. New feeders shall be field verified. Coordinate routing with existing sprinkler piping.
9. Wire and connect to existing 277V circuit above ceiling of existing corridor (2#12, 1#12G, 3/4"C).

**GENERAL NOTES - GE201**

A. All removed items shall be turned over to the owner unless otherwise directed by the owner.

**KEYED NOTES - E201**

1. Coordinate structural engineer and existing structure before starting work. Coordinate with existing conditions.
2. The contractor shall verify existing conditions and mark them.
3. The contractor shall remove existing elbow and remove existing busway riser back to existing switchboard MSBA. At this time install new tap box by Square D #ETBMB, Copper, 1600A, 3P, 4W, 480V. This contractor shall provide a 12" transition joint between the existing busway and new cable tap box. Coordinate with Square D. Make all terminations and turn power back on.
4. After turning off power for busway riser A, this contractor shall remove existing elbow and remove existing busway riser back to existing switchboard MSBA. At this time install new tap box by Square D #ETBMB, Copper, 1600A, 3P, 4W, 480V. This contractor shall provide a 12" transition joint between the existing busway and new cable tap box. Coordinate with Square D. Make all terminations and turn power back on.
5. Repeat the same steps for busway riser B.
6. This contractor shall verify the proposed routing of new feeders. Coordinate routing with existing sprinkler piping.
7. Wire and connect to existing 277V circuit above ceiling of existing corridor (2#12, 1#12G, 3/4"C).

**EXISTING BUS RISER A & B - EXISTING CONDITIONS**

1. New switch above.
2. Existing CNP switch above.
3. Existing CNP vault below.
4. New switch room above.
5. New tap box.
6. Door.
7. Existing busway risers A and B to remain.
8. New switch room above.

**EXISTING TAP BOX contamination:**

1. Coordinate with structural engineer.
2. Coordinate with existing conditions.
3. New tap boxes.
4. Cable tap box detail.

**CABLE TAP BOX DETAIL**

No. Description Date
1. ISSUE FOR PRICING 01/18/2018
The University of Texas
Health Science Center at Houston

POWER RENOVATION PLAN - 2ND FLOOR

GENERAL NOTES - GE202

1 PROVIDE SERVICE RATED SWITCHBOARD 2500A 480/277V, 3PH, 4W, 60HZ, 3 PHASE WYE, SOLIDLY GROUNDED 100KA RMS. 2500A SILVER PLATED COPPER SINGLE SECTION NO MAIN BUS (1). 25x1.75 IN/6x44 mm CU GROUND BUS. TYPE 1 FREE STANDING. U.L. DEAD FRONT AND SUITABLE FOR USE AS SERVICE ENTRANCE (ST1). PROVIDE WITH SURGE PROTECTION DEVICE (SPD), PHASE FAILURE RELAY (PFR), GROUND FAULT (GF), SHUNT TRIP (MX1), BLOW FUSE DETECTION (BFD) AND CAPACITOR TRIP UNIT (CTU).

GENERAL NOTES - GE202

A. FILED VERIFY EXISTING CONDITIONS PRIOR TO NEW WORK.

No. Description Date

1 ISSUE FOR PRICING 01/18/2018

POWER RENOVATION PLAN - 2ND FLOOR

KEYED NOTES - E202

1 PROVIDE 2#10, 1#10G, 3/4"C TO WIRE AND CONNECT TO EXISTING PANEL EA (BASEMENT).

2 PROVIDE SERVICE RATED SWITCHBOARD 2500A 480/277V, 3PH, 4W, 60HZ, 3 PHASE WYE, SOLIDLY GROUNDED 100KA RMS. 2500A SILVER PLATED COPPER SINGLE SECTION NO MAIN BUS (1). 25x1.75 IN/6x44 mm CU GROUND BUS. TYPE 1 FREE STANDING. U.L. DEAD FRONT AND SUITABLE FOR USE AS SERVICE ENTRANCE (ST1). PROVIDE WITH SURGE PROTECTION DEVICE (SPD), PHASE FAILURE RELAY (PFR), GROUND FAULT (GF), SHUNT TRIP (MX1), BLOW FUSE DETECTION (BFD) AND CAPACITOR TRIP UNIT (CTU).
GENERAL NOTES - CE203

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO WORK.

2. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND NEW WORK BY OTHER TRAJECT.

KEYED NOTES - E203

THIS CONTRACTOR SHALL PROVIDE A NEW PULL BOX TO INTERCEPT EXISTING 3-3 1/2" CONDUITS AND REMOVE ALL OTHERS. REMOVE EXISTING WIRING AND INSTALL NEW AS SHOWN ON DRAWING E030.

THIS CONTRACTOR SHALL COORDINATE NEW CONDUIT ROUTING WITH EXISTING CONDITIONS.
POWER RENOVATION - 4TH FLOOR

GENERAL NOTES - GE204
1. PROVIDE ALL NEW CONDUIT AND FITTINGS TIGHT TO EXISTING STRUCTURE. COORDINATE WITH EXISTING SPRINKLER PIPES AND CHILLED WATER PIPES.

KEYED NOTES - E204
1. PROVIDE 42"x42"x18" PULL BOX. INSTALL TIGHT AGAINST STRUCTURE.
2. PROVIDE 36"x36"x18" PULL BOX TO INTERCEPT EXISTING FEEDERS. FOR SPLICES USE LONG BARRELL INLINE COMPRESSION LUGS WITH SPLICE KIT 3M#5314 TO SPLICE NEW WITH EXISTING WIRING.

No. Description Date
1 ISSUE FOR PRICING 01/18/2018 01/18/18

POWER RENOVATION PLAN - 4TH FLOOR

The University of Texas Health Science Center at Houston

UCT SWITCHGEAR REPLACEMENT
GENERAL NOTES - GE205
1. ALL NEW CONDUITS SHALL ROUTE TIGHT TO EXISTING STRUCTURE. COORDINATE WITH EXISTING SPRINKLER PIPES AND CHILLED WATER PIPES.

KEYED NOTES - E205
1. NEW CLEARANCES TO SERVE SWITCHGEAR BLOCKS. ROUTE CONDUITS TIGHT TO EXISTING STRUCTURE. ROUTE DOWN TO FIRST FLOOR. REFER TO DRAWING E201 FOR CONTINUATION AND FINAL CONNECTIONS.
2. NEW FEEDERS TO SERVE EXISTING BUSWAY RISER A. ROUTE CONDUITS TIGHT TO EXISTING STRUCTURE. ROUTE DOWN TO FIRST FLOOR. REFER TO DRAWING E201 FOR CONTINUATION AND FINAL CONNECTIONS.
3. NEW FEEDERS TO SERVE EXISTING BUSWAY RISER B. ROUTE CONDUITS TIGHT TO EXISTING STRUCTURE. REFER TO DRAWING E201 FOR CONTINUATION AND FINAL CONNECTIONS.
4. PROVIDE DISCONNECT/STARTER 30A, 208V, 1PH, SIZE 1

No. Description Date
1 ISSUE FOR PRICING 01/18/2018

01/18/18

01/18/18
GENERAL NOTES - GE206

1. COORDINATE NEW WORK WITH EXISTING CONDITIONS.

KEYED NOTES - E206

1. EXISTING BUS PLUG 300A, 208V, 3PH, 3W, SERVING PANEL PHH IN PENTHOUSE.
2. REMOVE EXISTING CABLES SERVING EXISTING PANEL PHH AND INSTALL NEW.
3. INSTALL NEW GROUND BUS BAR.
4. THIS CONTRACTOR TO REMOVE EXISTING CABLES SERVING EXISTING PANEL PHH AND INSTALL NEW. REFER TO ONE-LINE DIAGRAM. (ALTERNATE 01)
2. **NOTE:**

   EXPANSION FITTING, OAS.

   FOR EMT, USE O-Z/GEDNEY TYPE EXPANSION FITTING, OAS.

   TYPE EX AND SEAL W/ DRILL HOLE 4"C OR EMT CONDUIT RGS

---

1. GALVANIZED 3" X 3/4" LONG CONCRETE ANCHOR.

2. GALVANIZED P1386 UNISTRUT BEAM CLAMP WITH HARDWARE CLAMP.

3. GALVANIZED 1/2" DIAMETER ALL-THREAD ROD.

4. GALVANIZED P1000 UNISTRUT CHANNEL CLAMP.

5. SUPPORT EMT AT 10'-0" MINIMUM SPACING.

   SUPPORT CLAMP.

6. EXPANSION FITTING.

7. SUPPORT WALL MOUNTED CONDUIT WITH BRACE CLAMPS AND MISC. STEEL, TYP.

---

**EXPANSION FITTING DETAIL:**

- **NOTE:**

---

**TYPICAL SLEEVE FOR CONDUIT THROUGH FLOOR SLAB:**

- **NOTE:**

---

**TYPICAL DEVICE ELEVATION AND MOUNTING DETAIL:**

- **NOTE:**
GENERAL NOTES - GE602

A. SEE SECTION 26 05 26 FOR GROUNDING SYSTEM REQUIREMENTS. SEE SECTION 26 41 00 FOR LIGHTING PROTECTION SYSTEM REQUIREMENTS.

B. ALL GROUNDING CONDUCTORS ROUTED INSIDE BLDG SHALL BE INSTALLED IN RMC OR EMT; SEE SECTIONS 26 05 33 & 26 05 26. BOND GROUNDING CONDUCTOR TO RACEWAY AT EACH END OF METALLIC RACEWAY. RACEWAY EMBEDDED IN CONCRETE COLUMNS SHALL BE PVC.

C. LABEL ALL CONNECTIONS AT GROUND BUSBARS, EQUIPMENT, AND TEST WELLS. APPLY METAL TAGS TO CABLES; LABELS SHALL INDICATE CABLE PURPOSE AND POINT OF TERMINATION FOR OPPOSITE END OF CABLE. USE SECTIONS 26 00 00.

KEYED NOTES - E602

1 PROVIDE CABLE TAGS FOR ALL CONNECTIONS TO BUSBAR FOR BOTH REVERSIBLE (BOLTED) AND NON-REVERSIBLE (CADWELD) CONNECTIONS. RE: SECTION 26 00 00 FOR LABEL REQUIREMENTS.

2 CONNECT TO TELECOMMUNICATIONS GROUND BUSBAR AT MAIN DATA RM. USE #2/0 AWG GREEN-INSULATED COPPER W/CLASS-B STRANDING.

No. Description Date

1 ISSUE FOR PRICING 01/18/2018

01/18/18

No.

Description

Date

Page

No.

Description

Date

No.

Page

No.

Description

Date

Page
<table>
<thead>
<tr>
<th>No.</th>
<th>Circuit Description</th>
<th>Trip</th>
<th>Poles</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Poles</th>
<th>Trip</th>
<th>Circuit Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SWITCHBOARD RM</td>
<td>20 A</td>
<td>1</td>
<td>720 VA</td>
<td>0 VA</td>
<td>1</td>
<td>20 A</td>
<td>SPARE</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SWITCHGEAR</td>
<td>20 A</td>
<td>1</td>
<td>512 VA</td>
<td>0 VA</td>
<td>1</td>
<td>20 A</td>
<td>SPARE</td>
<td></td>
</tr>
</tbody>
</table>

**Total Amps:**
- 15 A
- 16 A
- 8 A

**Total Load:**
- 1640 VA
- 1839 VA
- 920 VA

**Total Est. Demand Current:**
- 12 A
- 12 A
- 4398 VA

**Total Est. Demand:**
- 1 A
- 1 A
- 640 VA

**Total Conn. Load:**
- 8 A
- 8 A
- 6319 VA
### Plumbing Legend

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DW</td>
<td>Domestic Cold Water</td>
<td>F</td>
<td>Fire Water</td>
</tr>
<tr>
<td>SW</td>
<td>Sanitary Waste</td>
<td>SE</td>
<td>Automatic Sprinklers</td>
</tr>
<tr>
<td>MT</td>
<td>Main Drain</td>
<td>RDR</td>
<td>Commercial Drain</td>
</tr>
<tr>
<td>SD</td>
<td>Sanitary Vent</td>
<td>HC</td>
<td>Cold Water</td>
</tr>
<tr>
<td>CD</td>
<td>Condensate Drain</td>
<td>SD</td>
<td>Existing</td>
</tr>
</tbody>
</table>

### Plumbing Fixture Roughin Schedule

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Sink</th>
<th>Tub</th>
<th>Cold Water</th>
<th>Hot Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>0.75</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### General Notes
1. Prior to work contractor shall coordinate plumbing work with other trades.
2. Provide a union downstream from each threaded valve.
3. Make rough-in and final connections to all plumbing fixtures.
4. All new work shall conform to the 2012 edition of the International Plumbing Code unless otherwise noted or shown.
5. Drawings are diagrammatic in nature. Not all required pipe elbows, tees, and associated fittings are shown. Contractor shall provide a complete working plumbing system per the specifications and plumbing code.
6. Verify location of all floor drains with the equipment roughin location.
7. Contractor shall provide a complete working plumbing system per the specifications and plumbing code.
8. Verify location of all floor drains with the equipment roughin location.
9. Provide an isolation valve for each single plumbing fixture, or where fixtures are grouped one valve per group, prior to floor drain.

### Fire Protection Notes
1. The area is currently protected by a dry automatic sprinkler system. The existing sprinkler system shall be reconfigured in order to be compliant with NFPA 13 and the specifications and to be coordinated with HVAC, refrigerating of spaces.
2. New and reconfigured sprinkler heads shall match existing in orifice sizes, temperature rating, finish, etc.
3. Coordinate sprinkler head locations and piping around other trades.
4. The fire protection engineer is intended to deduce the location of the existing main supply piping and downstream pipe as well as areas intended for the sprinkler protection. This includes the identification of valves, isolation valves, and other related hardware. The contractor shall coordinate the location of fire protection systems and the location of the systems in accordance with the University and local fire regulations.
5. All areas shall be light hazard occupancy as outlined in NFPA 13 unless otherwise noted.
6. Provide upright sprinkler heads in areas without ceilings, unless otherwise noted.
7. Provide an isolation valve for each single plumbing fixture, or where fixtures are grouped one valve per group, prior to floor drain.

### Drawing List Information

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ISSUE FOR PRICING</td>
<td>01/18/2018</td>
</tr>
</tbody>
</table>
GENERAL NOTES

A. COORDINATE EXISTING PLUMBING AND FIRE PROTECTION SYSTEMS WITH OWNER PRIOR TO WORK.
B. PLUMBING AND FIRE PROTECTION SYSTEMS TO REMAIN UNLESS OTHERWISE NOTED.
C. NEW PLUMBING AND FIRE PROTECTION PIPE MATERIAL TO MATCH EXISTING, AS NECESSARY.
D. PRIOR TO FIRE PROTECTION GENERAL NOTES ON P201.

KEYED NOTES - P201

1. ISSUE FOR PRICING 01/18/2018

PLUMBING AND FIRE PROTECTION PLAN - 1ST FLOOR

REFERENCE SHEET:

No. Description Date

1. ISSUE FOR PRICING 01/18/2018

1/4" = 1'-0"
GENERAL NOTES
A Coordinate dimensioning of existing plumbing & protection systems with owner prior to work.
B Plumbing & Fire protection from owner.
C Plumbing & Fire protection from owner.
D Plumbing & Fire protection from owner.
E Plumbing & Fire protection from owner.
F Plumbing & Fire protection from owner.
G Plumbing & Fire protection from owner.
H Plumbing & Fire protection from owner.

KEYED NOTES - P202
1 Rework the existing fire protection piping to be outside of new electrical switchgear room. Sprinklers shall not be required in new electrical switchgear room per NFPA 13 Section 8.15.11.3. Refer to electrical plans for exact location and extents of new room.
2 In all areas of electrical renovation and scope of project, closely coordinate all existing sprinkler heads, sprinkler branches, fire mains, and fire protection appurtenances with new walls, conduits, electrical equipment, etc. and rework as necessary.
3 Offset existing sanitary vent piping to be located outside of new electrical switchgear room and coordinate with architectural extents of new electrical room.

FIELD VERIFY EXISTING CONDITIONS PRIOR TO WORK. COORDINATE DOWNTIME OF EXISTING PLUMBING & FIRE PROTECTION SYSTEMS WITH OWNER PRIOR TO WORK.

PLUMBING & FIRE PROTECTION - 2ND FLOOR

1/4" = 1'-0"
KEYED NOTES - P204

1. ISSUE FOR PRICING 01/18/2018

GENERAL NOTES

- Key all items to prevent confusion.
- Coordinate all existing sprinkler heads, sprinkler branches, fire mains and fire protection systems with the new systems.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
- All work performed in accordance with the applicable codes and standards.
KEYED NOTES - P205

1. REROUTE THE EXISTING FIRE PROTECTION SPRINKLER PIPING TO BE OUTSIDE OF NEW ELECTRICAL/SWITCHGEAR ROOM. SPRINKLERS SHALL NOT BE REQUIRED IN NEW ELECTRICAL/SWITCHGEAR ROOM PER NFPA 13 SECTION 8.15.11.3. REFER TO ELECTRICAL PLANS FOR EXACT LOCATION AND EXTENT OF NEW ROOM.

2. IN ALL AREAS OF ELECTRICAL RENOVATION AND SCOPE OF PROJECT, CLOSELY COORDINATE ALL EXISTING SPRINKLER HEADS, SPRINKLER BRANCHES, FIRE MAINS, AND FIRE PROTECTION APPURTENANCES WITH NEW WALLS, CONDUIT, ELECTRICAL EQUIPMENT, ETC AND REWORK AS NECESSARY.

3. NOT TO SCALE ON LEVEL 4.

GENERAL NOTES

- COORDINATE EXISTING SPRINKLER PIPING & FIRE PROTECTION SYSTEMS PRIOR TO WORK.
- PLUMBING & FIRE PROTECTION ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- NEW PLUMBING & FIRE PROTECTION PIPING MATERIAL TO MATCH EXISTING, AS NECESSARY.
- REFER TO FIRE PROTECTION GENERAL NOTES ON P001.

FIELD VERIFY EXISTING CONDITIONS PRIOR TO WORK.

COORDINATE DOWNTIME OF EXISTING PLUMBING & FIRE PROTECTION SYSTEMS WITH OWNER PRIOR TO WORK.

PLUMBING & FIRE PROTECTION ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

NEW PLUMBING & FIRE PROTECTION PIPING MATERIAL TO MATCH EXISTING, AS NECESSARY.

REFER TO FIRE PROTECTION GENERAL NOTES ON P001.