GENERAL NOTES:

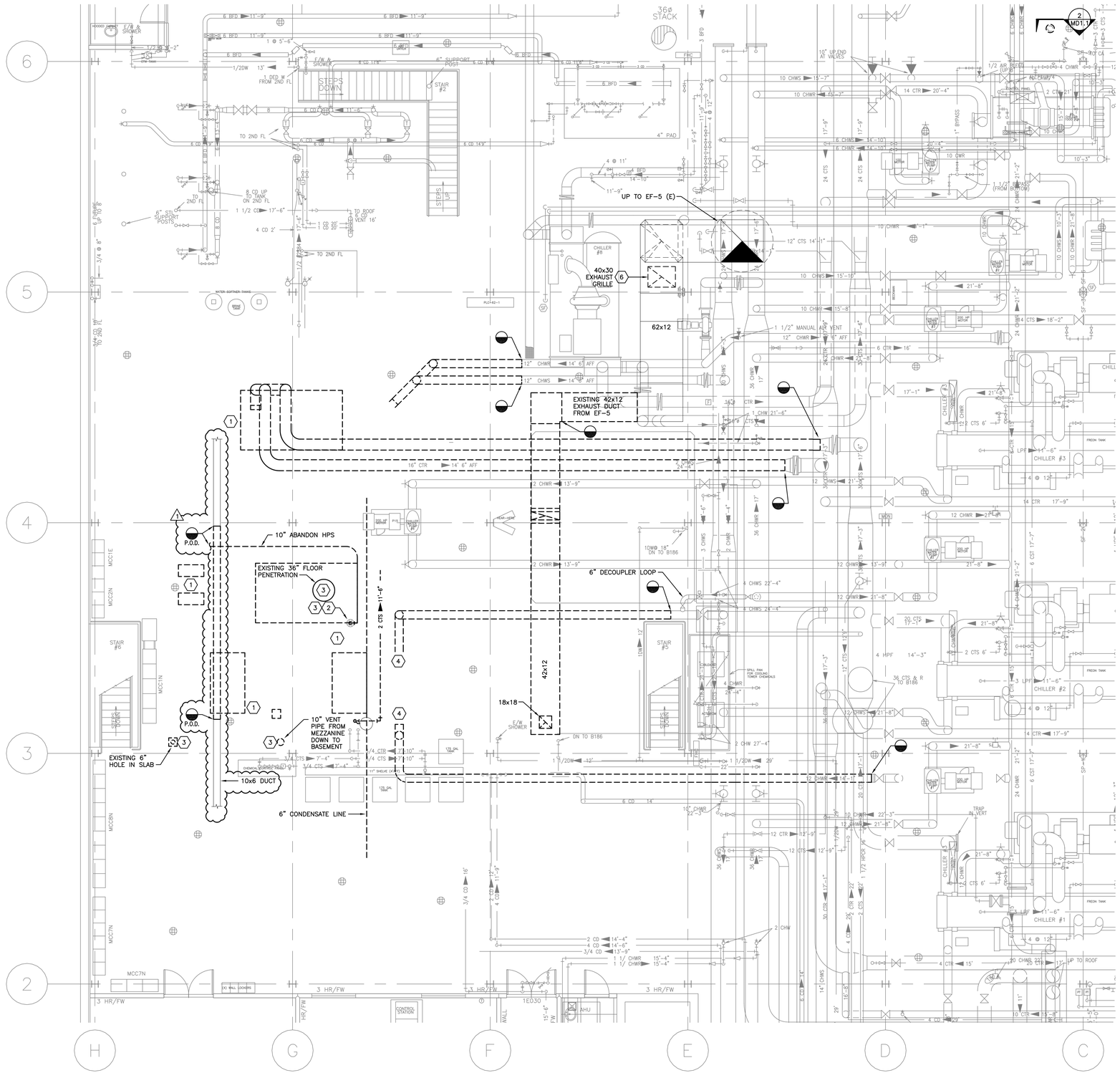
ALL MATERIAL AND EQUIPMENT REMOVED AND NOT SCHEDULED FOR REUSE SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE FOR DISPOSITION. ITEMS DEEMED UNSALVAGEABLE BY OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE TRANSPORTED BY HIM TO A LOCATION OFF THE PROJECT SITE.

DEMO ALL CONTROLS AND INSTRUMENTS IN PIPING SHOWN TO BE DEMO'D. DEMO ASSOCIATED CONTROL AND POWER WIRING AND CONDUIT BACK TO PANELS OR AS FAR AS POSSIBLE.

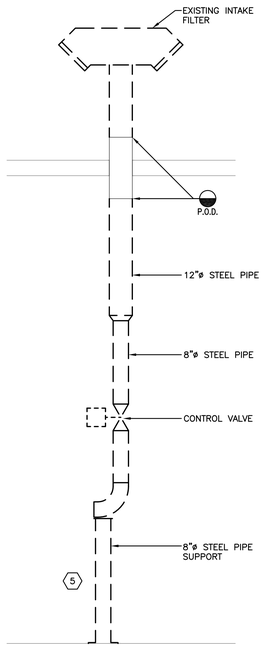
REMOVE HANGERS AND UNUSED SUPPORT HARDWARE FOR ALL PIPES SHOWN TO BE DEMOLISHED. ALSO REMOVE ABANDON SUPPORTS AND HARDWARE IN AREA OF WORK.

DEMOLITION KEYED NOTES:

1. DEMO EXISTING CONCRETE PADS AND SUPPORTS AND REPAIR SLAB TO MATCH EXISTING SURROUNDING SLAB.
2. REMOVE FLOOR DRAIN. PATCH AND REPAIR SLAB TO MATCH EXISTING SURROUNDING SLAB.
3. EXISTING SLAB PENETRATION TO BE PATCHED PER SLAB PATCH DETAIL.
4. REMOVE EXISTING DISCONNECTED ICS CONDUIT INCLUDING WIRING BACK TO COMMON MOST DISTANT POSITION POSSIBLE WITHOUT INTERRUPTIION TO PRESENT ICS. REMOVE TEMPERATURE CONTROL TRANSMITTERS, FLOW METERS, PRESSURE TRANSMITTERS AND RETURN TO OWNER. VERIFY ITEMS TO BE DEMOLISHED PRIOR TO BEGINNING WORK.
5. DEMO EXISTING PIPE, PIPE SUPPORT, CONTROL VALVE, AND INTAKE FILTER AS SHOWN. LEAVE 12" OF PIPE ABOVE AND BELOW ROOF AND PREPARE FOR WELDING. TEMPORARILY SUPPORT AND CAP REMAINING PIPE UNTIL NEW PIPE HAS BEEN INSTALLED.
6. DEMO EXISTING GRILLE.



1 MECHANICAL FIRST FLOOR DEMOLITION PLAN
SCALE: 3/16" = 1'-0"



2 VENT PIPE DEMO DETAIL
N.T.S.

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STATE OF TEXAS
SHAWN R. ALLEN
90064
LICENSED PROFESSIONAL ENGINEER
10-25-13

△1 ADDENDUM #3 10-25-13

DOMAIN - NEW 2500 TON CHILLER INSTALLATION
DOMAIN DISTRICT COOLING PLANT/AUSTIN ENERGY
CLM089 2012 M.E.P. Rotation List PA120000006
D.O. NO. 1307151736 9

3120 KRAMER LANE
AUSTIN, TEXAS 78758

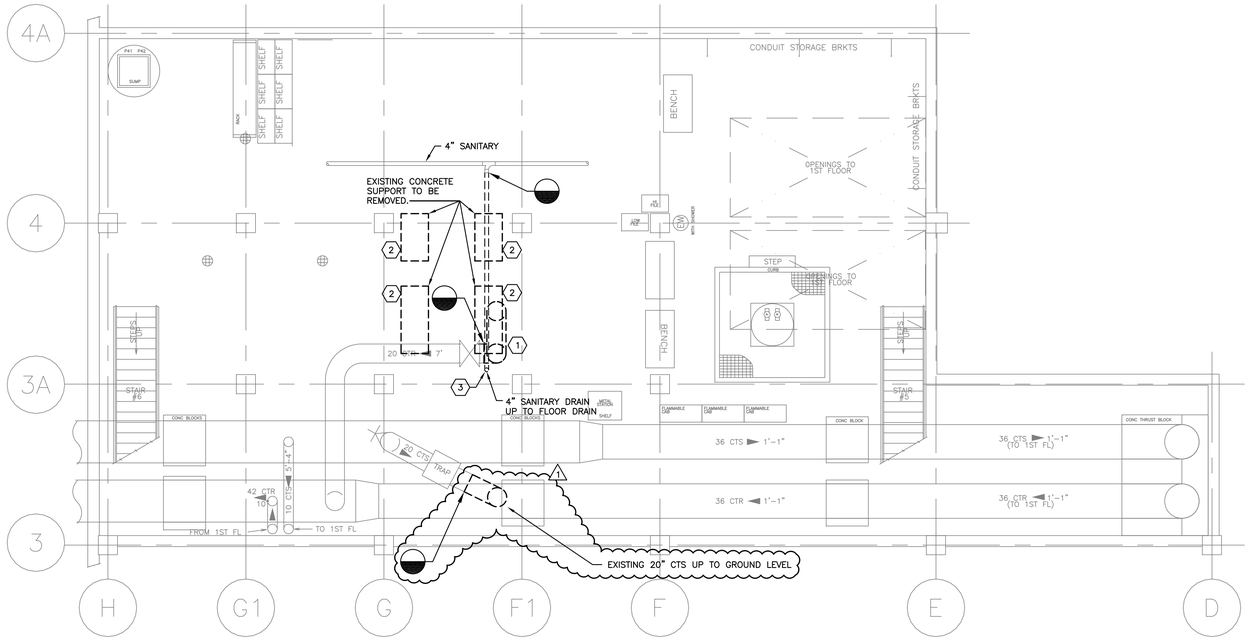
SHEET TITLE
MECHANICAL FIRST FLOOR DEMOLITION PLAN

ISSUED
FOR CONSTRUCTION
09.04.13

PROJECT NO.
13036.30

SHEET NO.
MD1.1

CADFILE: F:\13036_Domain_Chiller_Replacement\DRAWINGS\CAD\13036_MD1-1 - First Floor Mechanical Demolition Plan.dwg Plotted: Oct 25, 13 @ 10:17 am by: jhelman Scale: 1:64



1 BASEMENT MECHANICAL DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

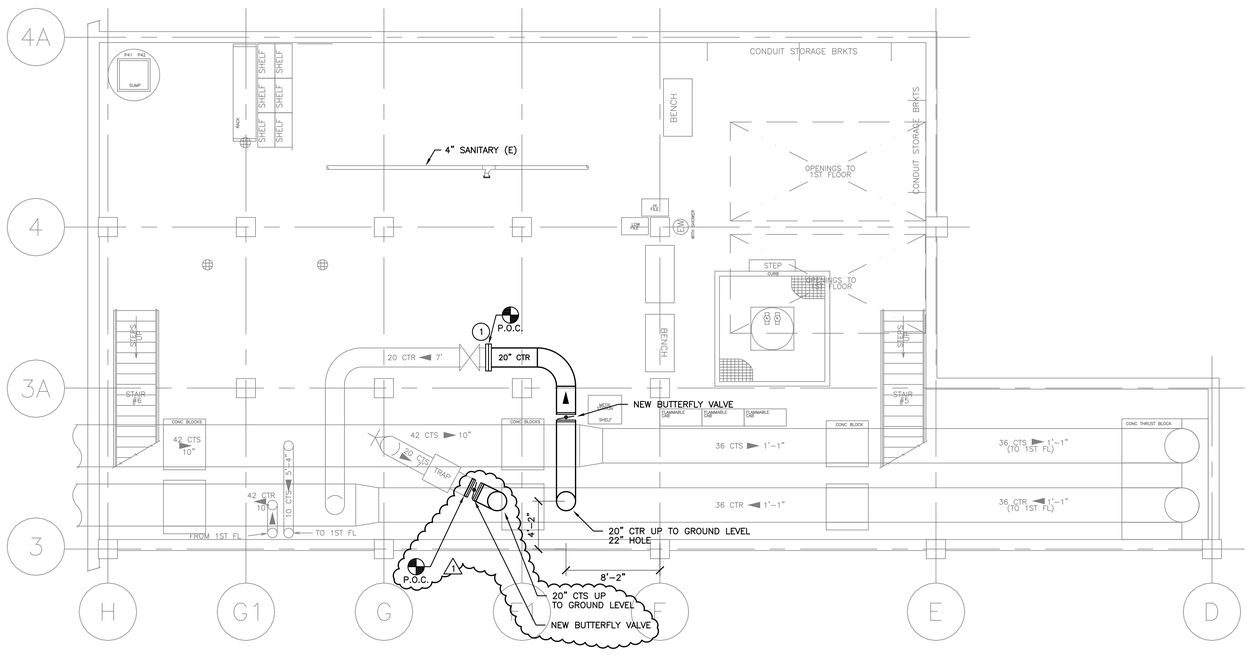
NORTH

GENERAL NOTES:

ALL MATERIAL AND EQUIPMENT REMOVED AND NOT SCHEDULED FOR REUSE SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE FOR DISPOSITION. ITEMS DEEMED UNSALVAGEABLE BY OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE TRANSPORTED BY HIM TO A LOCATION OFF THE PROJECT SITE.

DEMOLITION KEYED NOTES:

1. DEMO 20" PIPE BACK AS REQUIRED FOR NEW ELBOW AND PREPARE PIPE FOR NEW FLANGE.
2. DEMO EXISTING CONCRETE SUPPORTS AND REPAIR SLAB TO MATCH EXISTING.
3. REMOVE ASSOCIATED 4" PIPING BACK TO ACTIVE MAIN INDICATED AND CAP.



2 BASEMENT MECHANICAL FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH

GENERAL NOTES:

DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF DUCTWORK, PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

PROVIDE A HIGH POINT VENT AT THE HIGHPOINT OF EACH PIPING SYSTEM AND ANY POTENTIAL AIR TRAP PIPING CONFIGURATION.

PIPING ROUGH-IN AND FINAL CONNNECTION TO AND FROM OWNER PROVIDED EQUIPMENT SHALL BE COORDINATED AND PROVIDED BY THIS CONTRACTOR.

MECHANCIAL CONTRACTOR SHALL PRODUCE AND SUBMITT FOR APPROVAL A FULLY COORDINATED SET OF COMPOSITE PLAN DRAWINGS AND ELEVATIONS. COORDINATAION DRAWINGS SHALL INCLUDE THE WORK OF ALL OTHER TRADES AND DEMONSTRATE FULL COORDINATE WITH SUCH TRADES.

KEYED NOTES:

1. MAKE CONNECTION TO NEW PIPE BY WELDING A FLANGE TO EXISTING PIPE. DO NOT BUTT WELD NEW PIPE TO EXISTING PIPE.

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△1 ADDENDUM #3 10-25-13

DOMAIN - NEW 2500 TON CHILLER INSTALLATION
DOMAIN DISTRICT COOLING PLANT/AUSTIN ENERGY
CLM089 2012 M.E.P. Rotation List PA120000006
D.O. NO. 13071517369

3120 KRAMER LANE
AUSTIN, TEXAS 78758

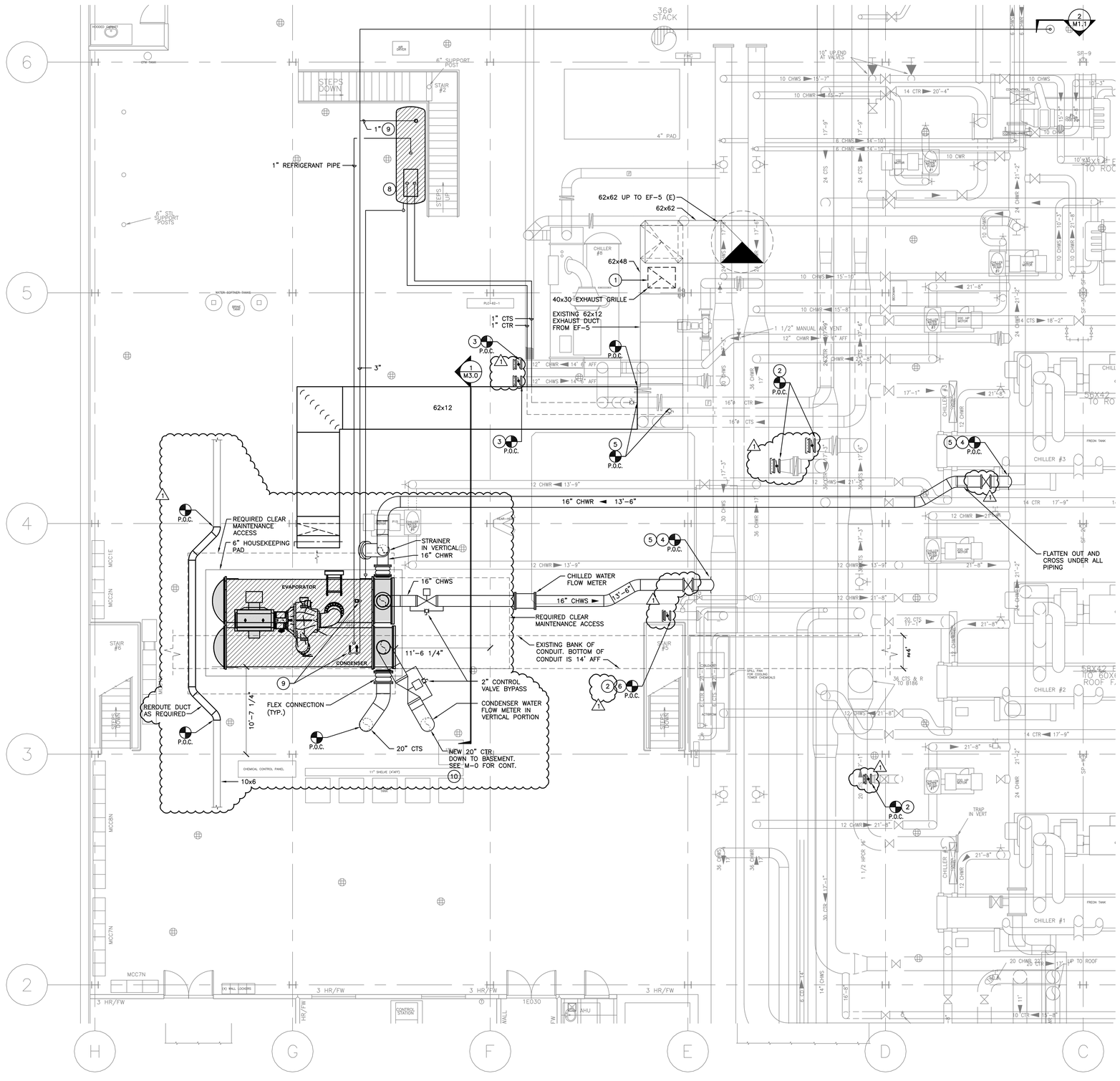
SHEET TITLE
MECHANICAL BASEMENT FLOOR PLANS

ISSUED
FOR CONSTRUCTION 09.04.13

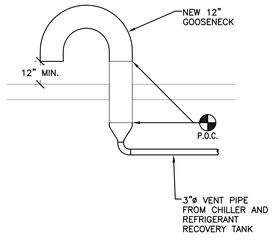
PROJECT NO.
13036.30

SHEET NO.
M1.0

CADFILE: F:\13036_Domain_Chiller_Replacement\DRAWINGS\CAD\13036_M1-0 - Basement Mechanical Plans.dwg Plotted: Oct 25, 13 @ 10:13 am by: jhellman Scale: 1:64



1 MECHANICAL FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"



2 VENT CONNECTION DETAIL
N.T.S.

GENERAL NOTES:

DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF DUCTWORK, PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

PROVIDE A HIGH POINT VENT AT THE HIGHPOINT OF EACH PIPING SYSTEM AND ANY POTENTIAL AIR TRAP PIPING CONFIGURATION.

PIPING ROUGH-IN AND FINAL CONNNECTION TO AND FROM OWNER PROVIDED EQUIPMENT SHALL BE COORDINATED AND PROVIDED BY THIS CONTRACTOR.

MECHANCIAL CONTRACTOR SHALL PRODUCE AND SUBMITT FOR APPROVAL A FULLY COORDINATED SET OF COMPOSITE PLAN DRAWINGS AND ELEVATIONS. COORDINATAION DRAWINGS SHALL INCLUDE THE WORK OF ALL OTHER TRADES AND DEMONSTRATE FULL COORDINATE WITH SUCH TRADES.

PROVIDE A 2 TON PUSH BEAM TROLLEY TO MOUNT ON THE TROLLEY BEAMS OVER THE NEW CHILLER. SEE STRUCTURAL DRAWINGS FOR BEAM SIZE AND INSTALLATION DETAILS. HARBOR FREIGHT OR APPROVED EQUAL.

KEYED NOTES:

1. INSTALL A MANUAL BALANCING DAMPER IN THE 40x30 OPENING AND MOUNT A NEW EXHAUST GRILLE TO THE DAMPER.
2. INSTALL NEW BUTTERFLY VALVE AND CAP WITH A BLIND FLANGE.
3. WELD A FLANGE TO EXISTING PIPE, INSTALL A BUTTERFLY VALVE AND CAP WITH A BLIND FLANGE TO SERVE AS A TEMP. CHILLER CONNECTION.
4. PROVIDE HOT TAP OF EXISTING MAIN SUFFICIENTLY SIZED TO MAINTAIN A 16" HOLE. REDUCE DOWNSTREAM OF VALVE TO 16" PIPE.
5. HOT TAP AT 30"-45° DOWN.
6. STAGE DEMOLITION OF PIPE, NEW FLANGE CONNECTION, AND NEW VALVE IN A WAY TO MINIMIZE THE AMOUNT OF TIME THE DECOUPLER LOOP IS OFFLINE. COORDINATE OUTAGE WITH PLANT PERSONNEL AS THE PLANT MAY HAVE TO OPERATE AS A VARIABLE PRIMARY SYSTEM WHEN DECOUPLER LOOP IS OFFLINE.
7. NOT USED
8. ROUTE NEW 1" CTS/R TO REFRIGERANT RECOVERY EQUIPMENT FOR CONDENSER COOLING. TERMINATE PIPING ABOVE UNIT WITH SUPPLY AND RETURN BALL VALVES AND CONNECT EQUIPMENT CONDENSER WATER HOSE BIBS. RE: DETAIL 4/M3.0
9. ROUTE PIPE SIZED TO MATCH THE RELIEF VALVES FROM EACH PRESSURE RELIEF VALVE ON THE CHILLER AND REFRIGERANT RECOVERY TANK INTO A 3" VENT PIPE AND ROUTE TO ROOF PENETRATION AS SHOWN.
10. IF CHEMICAL CONTAINMENT PAN IS DAMAGED DURING CORING OR PIPE INSTALLATION, REPAIR PAN TO ORIGINAL CONDITION.

△1 ADDENDUM #3 10-25-13

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STATE OF TEXAS
SHAWN R. ALLEN
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LICENSED PROFESSIONAL ENGINEER
10-25-13

DOMAIN - NEW 2500 TON CHILLER INSTALLATION
DOMAIN DISTRICT COOLING PLANT/AUSTIN ENERGY
CLM089 2012 M.E.P. Rotation List PA120000006
D.O. NO. 13071517369

3120 KRAMER LANE
AUSTIN, TEXAS 78758

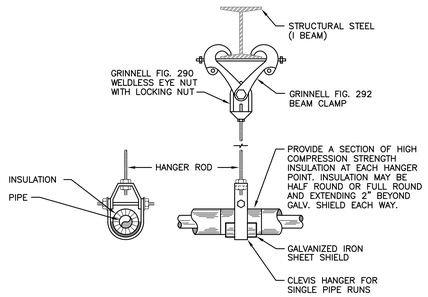
SHEET TITLE
MECHANICAL FIRST FLOOR PLAN

ISSUED
FOR CONSTRUCTION
09.04.13

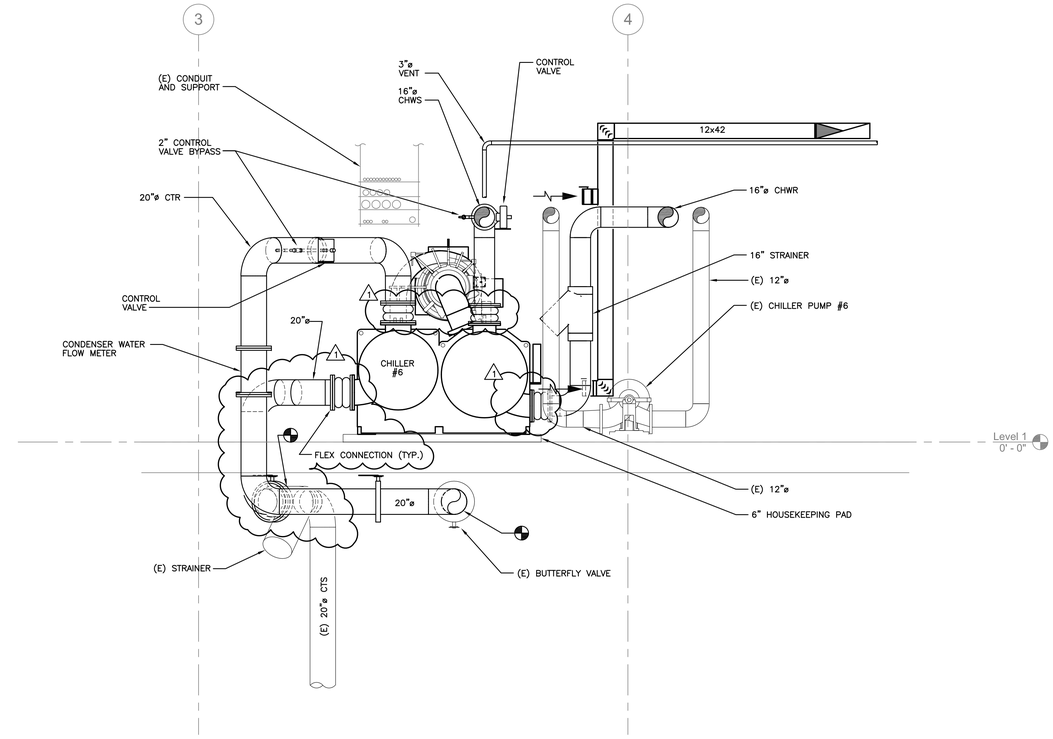
PROJECT NO.
13036.30

SHEET NO.
M1.1

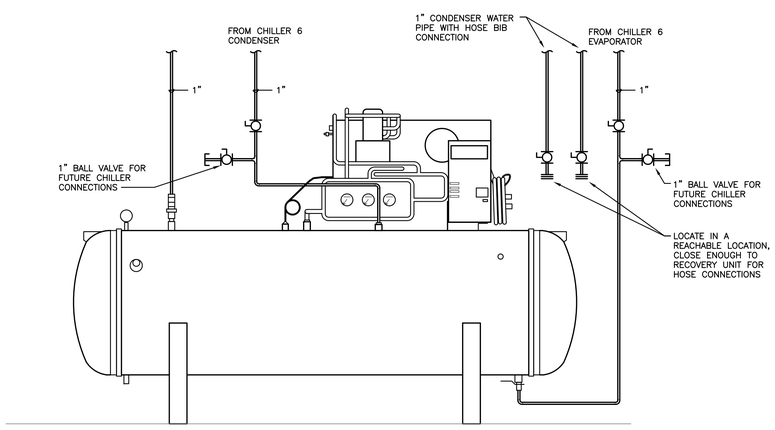
CADFILE: F:\13036_Domain_Chiller_Replacement\DRAWINGS\CAD\13036_M1-1 - First Floor Mechanical Plan-Partial.dwg Plotted: Oct 25, 13 @ 10:14 am by: jhellman Scale: 1:64



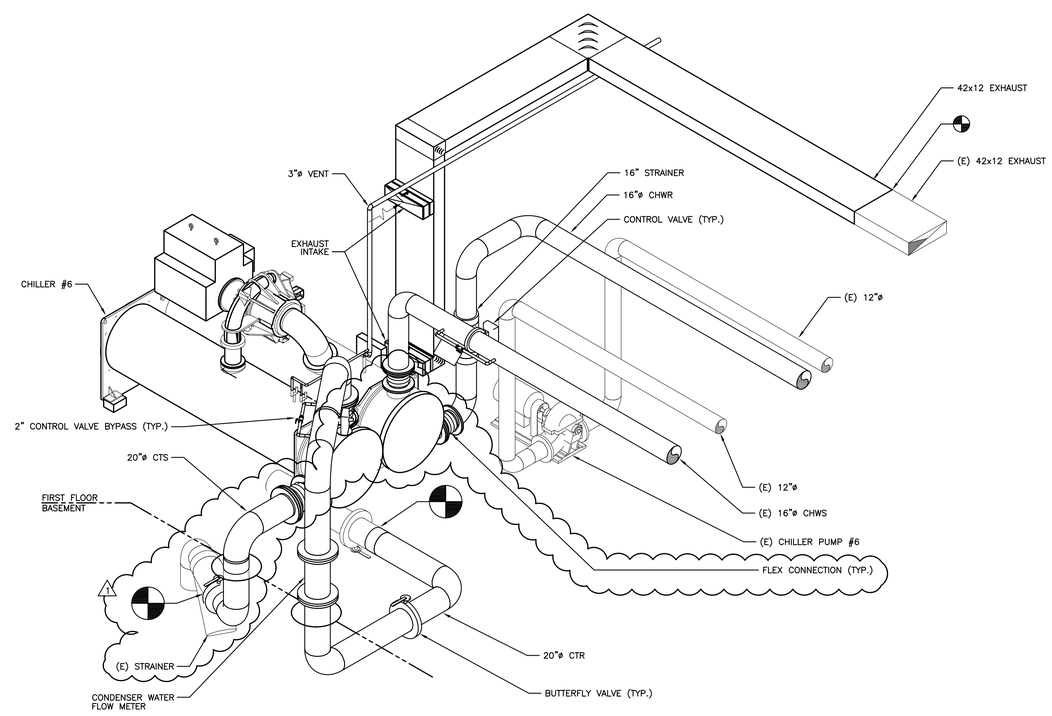
3 WATER PIPING HANGERS & SUPPORTS DETAIL
N.T.S.



1 CHILLER #6 SECTION
SCALE: 1/8" = 1'-0"



4 WATER PIPING HANGERS & SUPPORTS DETAIL
N.T.S.



2 CHILLER #6 ISOMETRIC
SCALE: 1/8" = 1'-0"

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10-25-13

1 ADDENDUM #3 10-25-13

DOMAIN - NEW 2500 TON CHILLER INSTALLATION
DOMAIN DISTRICT COOLING PLANT/AUSTIN ENERGY
CLM089 2012 M.E.P. Rotation List PA120000006
D.O. NO. 13071517369

3120 KRAMER LANE
AUSTIN, TEXAS 78758

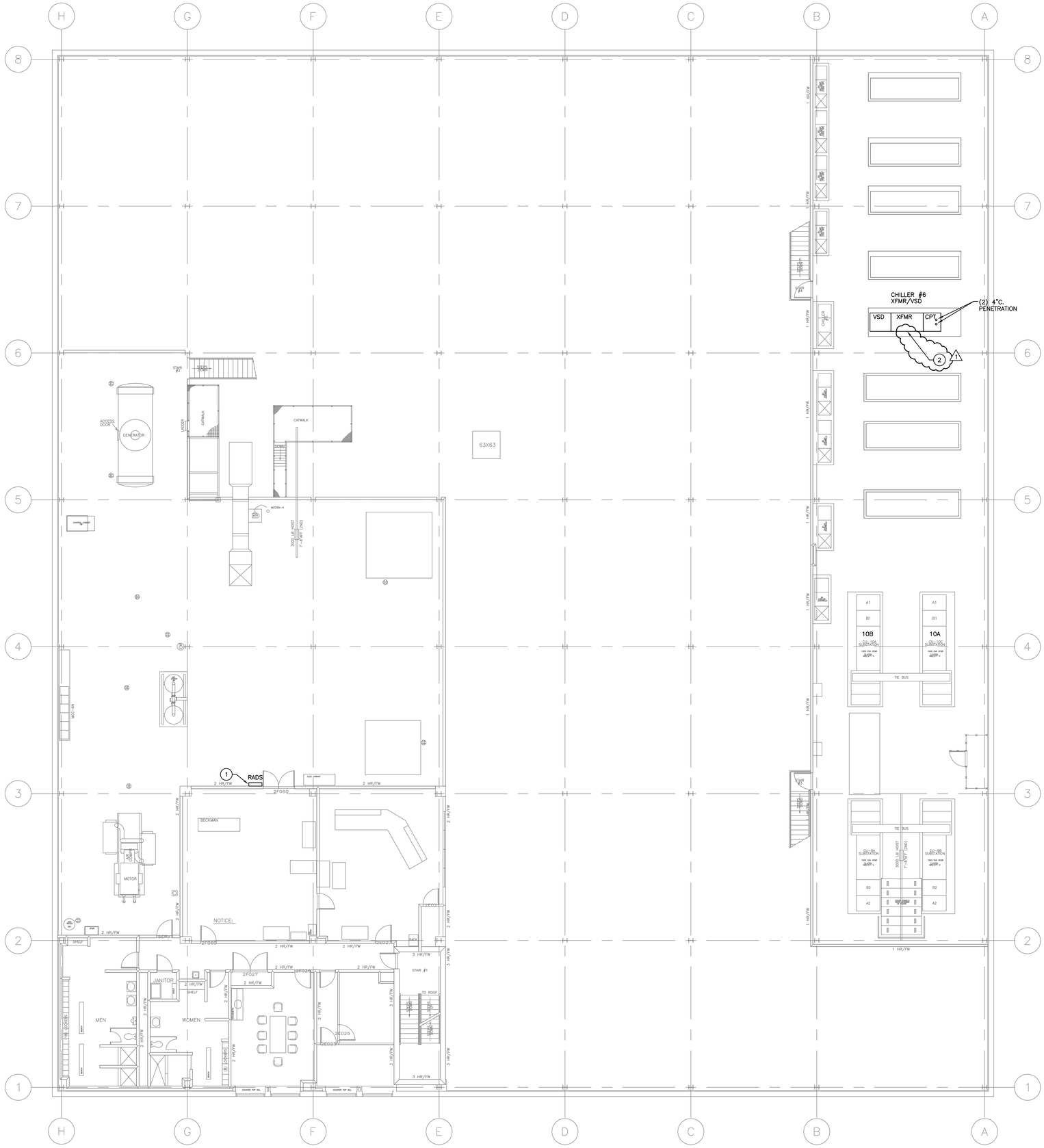
SHEET TITLE
MECHANICAL DETAILS AND SCHEDULES

ISSUED
FOR CONSTRUCTION 09.04.13

PROJECT NO.
13036.30

SHEET NO.
M2.0

CADFILE: F:\13036_Domain_Chiller_Replacement\DRAWINGS\CAD\13036_M2-0 - Mechanical Details & Schedules.dwg Plotted: Oct 25, 13 @ 10:16 am by: jhellman Scale: 1:48



1 ELECTRICAL SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF CONDUIT, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

KEYED NOTES:

1. TERMINATE RADS TO A NEW 20/1 CIRCUIT IN EXISTING PANEL PP-CEL2. PROVIDE AND INSTALL NEW CIRCUIT BREAKER WITH MOUNTING HARDWARE AS REQUIRED.
2. PROVIDE A WARNING LABEL ON THE XFMR/VSD THAT STATES "THE DISCONNECTING MEANS IS LOCATED IN THE CUBICLE A4 IN THE MSA LOCATED IN THE THE MAIN ELECTRICAL ROOM".

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COLBY U. BROCK
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10/25/2013

△1 ADDENDUM #3 10-25-13

DOMAIN - NEW 2500 TON CHILLER INSTALLATION
DOMAIN DISTRICT COOLING PLANT/AUSTIN ENERGY
CLM089 2012 M.E.P. Rotation List PA120000006
D.O. NO. 130715173 69

3120 KRAMER LANE
AUSTIN, TEXAS 78758

SHEET TITLE
ELECTRICAL SECOND FLOOR PLAN

ISSUED
FOR CONSTRUCTION 09.04.13

PROJECT NO.
13036.30

SHEET NO.
E1.2

CADFILE: F:\13036_Domain_Chiller_Replacement\DRAWINGS\CAD\13036_E1-2 - Second Floor Electrical Plan.dwg Plotted: Oct 25, 13 @ 9:46 am by: jhellman Scale: 1:96

STRUCTURAL GENERAL NOTES

CODES & DESIGN SPECIFICATIONS

1. BUILDING CODE: 2009 INTERNATIONAL BUILDING CODE
2. STRUCTURAL STEEL: AISC 360-05 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS"
3. STRUCTURAL CONCRETE: ACI 318-08 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"

GENERAL

1. STRUCTURAL ADEQUACY OF THE EXISTING STRUCTURE FOR THE INSTALLATION OF NEW EQUIPMENT AT THE DOMAIN DISTRICT COOLING PLANT HAS BEEN CONFIRMED BASED UPON INFORMATION CONTAINED IN THE EXISTING CONSTRUCTION DOCUMENTS PREPARED BY JOHN ALBERT VITQUIN, P.E. OF HENNINGSON, DURHAM & RICHARDSON, INC., DATED DECEMBER 14, 1978. SEE THE ACCOMPANYING LETTER PREPARED BY TIMOTHY J. ROSS, P.E. OF P.E. STRUCTURAL CONSULTANTS, INC., DATED SEPTEMBER 4, 2013 FOR MORE INFORMATION.
2. UNLESS NOTED OTHERWISE, SPECIFICATION ITEMS REFERENCED IN THESE DOCUMENTS ARE THE CURRENT CITY OF AUSTIN STANDARD SPECIFICATIONS.
3. LOCATIONS OF EQUIPMENT SHOWN ARE SCHEMATIC. SEE MECHANICAL / ELECTRICAL FOR MORE INFORMATION.
4. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS NOTED PRIOR TO ORDERING MATERIALS OR FABRICATING MEMBERS

DESIGN LOADS

1. DEAD LOADS INCLUDE THE WEIGHT OF THE STRUCTURAL COMPONENTS ALONG WITH ALLOWANCES FOR MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION.
2. FIRST FLOOR LIVE LOAD

   UNIFORM LIVE LOAD (OUTSIDE OF CHILLER FOOTPRINT) _____ 400 PSF (PER EXISTING DRAWINGS)
3. WEST MEZZANINE LIVE LOAD (AT HOIST BEAM)

   UNIFORM LIVE LOAD (FOR EXISTING BEAM EVALUATION) _____ 175 PSF (PER EXISTING DRAWINGS)

   HOIST BEAM CAPACITY (INCLUDING TROLLEY) _____ 10,000 LB

CONCRETE MIX GUIDELINES

1. PROVIDE CLASS C HYDRAULIC CEMENT CONCRETE FOR ALL CONCRETE IN ACCORDANCE WITH ITEM 4035, "CONCRETE FOR STRUCTURES".

CONCRETE REINFORCEMENT

1. IN ACCORDANCE WITH ITEM 4065, STRAIGHT BAR REINFORCING STEEL SHALL BE NEW DEFORMED BILLET STEEL CONFORMING TO ASTM A615 GRADE 60.
2. BAR DETAILING, SUPPORTS, SPACERS AND PLACEMENT SHALL BE IN ACCORDANCE WITH ITEM 4065, "REINFORCING STEEL". WHERE NOT SPECIFICALLY DETAILED IN THE PLANS, BAR DIMENSIONS SHALL SATISFY MINIMUM CLEAR COVER REQUIREMENTS AND STANDARD HOOK REQUIREMENTS OF ACI 318-08.
3. THE FOLLOWING MINIMUM CONCRETE CLEAR COVER SHALL BE PROVIDED FOR REINFORCEMENT:

   NOT EXPOSED TO EARTH OR WEATHER
   (#11 OR SMALLER) _____ 3/4"
4. INTENDED SPLICE LOCATIONS AND LENGTHS ARE DETAILED IN THE DRAWINGS. ANY OTHER SPLICES MUST BE SUBMITTED FOR APPROVAL BY THE ENGINEER OR RECORD.
5. ADHESIVE ANCHORING EPOXY SHALL BE SIMPSON STRONG-TIE SET-XP OR APPROVED EQUIVALENT.

FIRST FLOOR CONCRETE INFILL

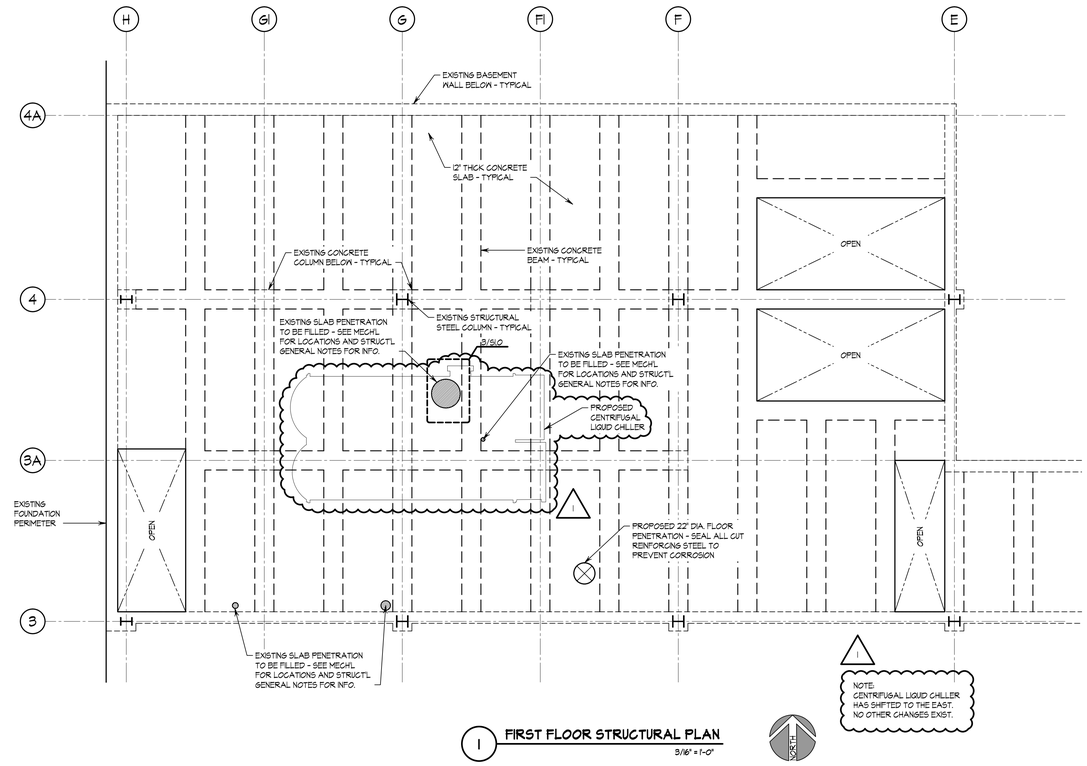
1. AT LOCATIONS INDICATED BY MECHANICAL, EXISTING FIRST FLOOR PENETRATIONS SHALL BE INFILLED BY ATTACHING STEEL DECK TO THE UNDERSIDE OF THE SLAB AND FILLING THE HOLE WITH CONCRETE IN ACCORDANCE WITH ITEM 4105 "CONCRETE STRUCTURES". DECK SHALL BE VULCRAFT 0.6G OR APPROVED EQUIVALENT. CONCRETE SCREWS SHALL BE 3/16" DIAMETER SIMPSON STRONG-TIE TITEN OR APPROVED EQUIVALENT.
2. PROVIDE CONCRETE FINISH TO MATCH EXISTING IN ACCORDANCE WITH ITEM 416 "SURFACE FINISHES FOR CONCRETE".
3. WHENEVER POSSIBLE, STEEL DECK SHALL EXTEND BEYOND THE EDGE OF THE OPENING BY A DISTANCE OF 4", PLUG DECK FLUTES AS REQUIRED TO PREVENT LOSS OF CONCRETE DURING CASTING.
4. SCREWS SHALL BE INSTALLED WITH A MINIMUM EMBEDMENT OF 1 - 1/2", A MINIMUM EDGE DISTANCE TO THE FLOOR PENETRATION OF 1 - 1/2", A MINIMUM EDGE DISTANCE OF 3/4" TO THE EDGE OF DECK AND A MINIMUM SPACING OF 2 - 1/2".
5. FOR EXISTING FLOOR PENETRATIONS LESS THAN 12" IN DIAMTER, PROVIDE ONE SCREW AT EACH CORNER OF THE DECK (4 SCREWS TOTAL).
6. PRIOR TO POURING CONCRETE, CLEAN AND ROUGHEN THE INSIDE OF THE FLOOR PENETRATION.
7. SEAL JOINTS BETWEEN EXISTING CONCRETE AND INFILL IN ACCORDANCE WITH ITEM 438 "CLEANING AND/OR SEALING JOINTS AND CRACKS".

STRUCTURAL STEEL

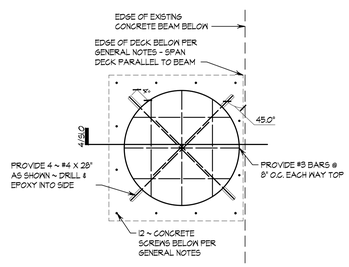
1. S-SHAPES SHALL BE "HIGH STRENGTH STRUCTURAL STEEL." IN ACCORDANCE WITH ITEM 7205 "METAL FOR STRUCTURES". ROUND HSS SHALL BE ASTM A500 GRADE B.
2. WELDING SHALL BE IN ACCORDANCE WITH ITEM 723 "STRUCTURAL WELDING".
3. WHERE WELD SIZE IS NOT INDICATED, PROVIDE WELD THICKNESS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT.

HOIST BEAM ASSEMBLY

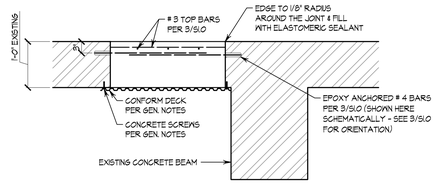
1. HOIST BEAM AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH ITEM 726 "STEEL STRUCTURES".
2. AFTER WELDING IS COMPLETE, HOIST BEAM AND ATTACHMENTS SHALL BE PAINTED TO MATCH EXISTING STRUCTURAL STEEL IN ACCORDANCE WITH ITEM 7225 "PROTECTIVE COATINGS".
3. HOIST BEAM HAS BEEN DESIGNED IN ACCORDANCE WITH THE CRANE MANUFACTURER'S ASSOCIATION OF AMERICA (CMAA) SPECIFICATION No. 74 "SPECIFICATIONS FOR TOP RUNNING & UNDER RUNNING SINGLE GIRDER TRAVELING CRANES UTILIZING UNDER RUNNING TROLLEY HOIST".
4. TROLLEY SHALL BE MANUALLY DRIVEN.



1 FIRST FLOOR STRUCTURAL PLAN
3/16" = 1'-0"



3 EXISTING PENETRATION INFILL DETAIL
3/4" = 1'-0"



4 EXISTING PENETRATION INFILL SECTION
3/4" = 1'-0"

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TBPE FIRM No. F-475
PESC PROJECT No. 10055-A

STATE OF TEXAS
TIMOTHY J. ROSS
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LICENSED PROFESSIONAL ENGINEER
10-25-13

DOMAIN - NEW 2500 TON CHILLER INSTALLATION
DOMAIN DISTRICT COOLING PLANT/AUSTIN ENERGY
CLM089 2012 M.E.P. Rotation List PA120000006
D.O. NO. 13071517369

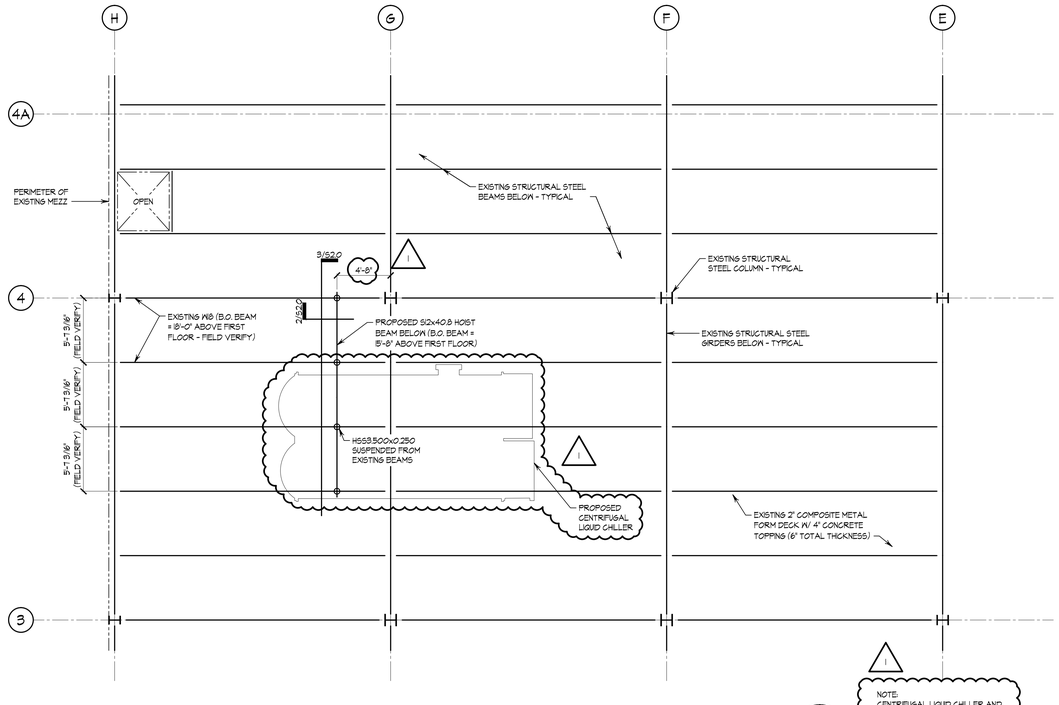
3120 KRAMER LANE
AUSTIN, TEXAS 78758

SHEET TITLE
STRUCTURAL GENERAL NOTES, PLANS & DETAILS

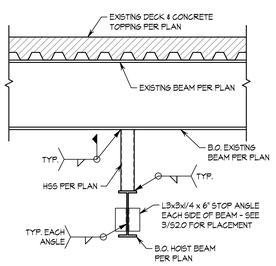
ISSUED
ADDENDUM 3
10-25-2013

PROJECT NO.
13036.30

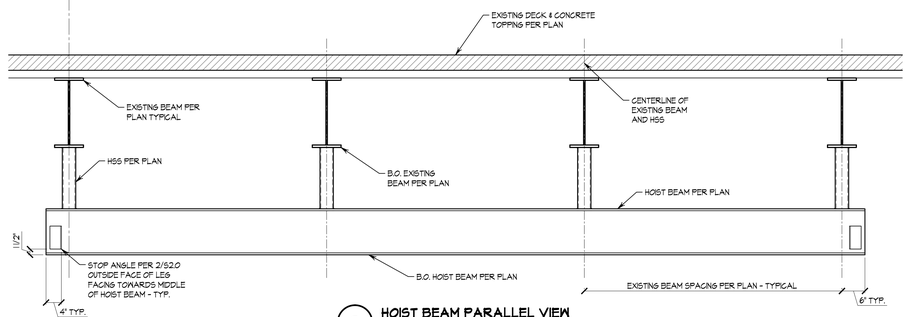
SHEET NO.
S1.0



1 WEST MEZZANINE STRUCTURAL PLAN
3/16" = 1'-0"



2 HOIST BEAM SECTION
3/4" = 1'-0"



3 HOIST BEAM PARALLEL VIEW
3/4" = 1'-0"

PESC STRUCTURAL CONSULTANTS INCORPORATED
8486 SPICEWOOD SPRINGS ROAD • AUSTIN, TEXAS 78759
512.250.5200 • FAX 512.250.5222 • WWW.PESTRUCTURAL.COM
PESC PROJECT No. 1033-A
TBPE FIRM No. F-4475

STATE OF TEXAS
TIMOTHY J. ROSS
98465
LICENSED
PROFESSIONAL ENGINEER
10-25-13

DOMAIN - NEW 2500 TON CHILLER INSTALLATION
DOMAIN DISTRICT COOLING PLANT/AUSTIN ENERGY
CLM089 2012 M.E.P. Rotation List PA120000006
D.O. NO. 13071517369
3120 KRAMER LANE
AUSTIN, TEXAS 78758

SHEET TITLE
STRUCTURAL HOIST PLAN & DETAILS

ISSUED
ADDENDUM 3
10-25-2013

PROJECT NO.
13036.30

SHEET NO.
S2.0