

ADDENDUM NO.: THREE

DATE OF ADDENDUM: April 4, 2014

**JOYNER HALL
NORTHWESTERN CONNECTICUT COMMUNITY COLLEGE
WINSTED, CT
BI – CT – 427**

Original Bid Due Date / Time:

1:00 PM

BID APRIL 15, 2014

Previous Addendums: Addendum 1 dated March 21, 2014, Addendum 2 dated April 3, 2014

TO: Prospective Bid Proposers:

This Addendum forms part of the "Contract Documents" and modifies or clarifies the original "Contract Documents" for this Project dated November 25, 2013. Prospective Bid Proposers shall acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form. Failure to do may subject Bid Proposers to disqualification.

The following clarifications are applicable to drawings and specifications for the project referenced above.

For clarification of the bid date:

The bid opening has changed from Wednesday, April 9, 2014 @ 1:00 PM to Tuesday, April 15, 2014 @ 1:00 PM

Item 1

Clarification: Wall types shown on ADA-02 have clarifications to notes. Refer to ADA-02 attached to this addendum.

Item 2

Question: "Dwg A-610. Detail #3 clearly shows and dimensions 2" brake metal trim at exterior (Head and Jambs) What is the 2 3/4" at the interior (Head and Jambs.) Details do not show any brake metal, it does however, show insulated metal panel system at all (4) sides. Please verify." RESPONSE: The 2" metal at the head and jamb shall be 1/8" aluminum trim as noted. The 2 3/4" was a graphic error showing a return that was omitted. The drawing has been corrected to show the insulated panel returning to the opening as shown correctly on the plan detail. Refer to ADA-03 attached to this addendum.

Item 3

Question: "Dwg A-040. Elevation # 11 – looking from vestibule, elevation G7 – louver while looking from the opposite side (Stair side) is shows typ G2 glass. Please verify which is intended, glass or louvers." RESPONSE: Elevation Number 11 is correct as shown with louvers. The stair side will be insulated panel. See revised elevation on ADA-04 and detail on ADA-05

Item 4

Question: "Recessed LED light typical for light wells open to corridor only as shown on Detail 5/A-311 and Detail 2 A-405. Fixtures and circuitry are not shown on Electrical drawings EL-120 or EL-130. Please advise." RESPONSE: Clarifying the LED fixture type for the light wells. Refer to sketch ADEL-01 attached to this addendum.

Item 5

Question: "Light fixtures quantities shown on A-501.1 for Stair B do not match the quantities shown on electrical drawing EL-120 or EL-130. Please advise." RESPONSE: Light fixtures are correctly shown on EL-120 and EL-130.

Item 6

Question: "Will it be allowed to use the onsite soils for general fill or backfill below the capping limits (geotechnical liner) as

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long as it is can be suitably compacted?" RESPONSE: On site materials are not suitable for re-use as fill. The site soils are considered 'undocumented fill' and the composition of the material maybe considerably variable.

Item 7

Question: " Drawing HP-120 Main level and Drawing HP-130 Upper level there is no branch piping shown going to the VAV'S". RESPONSE: Branch piping to equipment is required per HVAC General Note #11 on Drawing MEP-100. This note is also modified by this addendum per ADMEP-01. Added general note clarifying pipe run outs to various HVAC equipment, applicable to HP-100, HP110, HP-120, HP-130. Refer to sketch ADHP-01 attached to this addendum.

Item 8

Clarification: The dimensions of the small and large light wells have been added for clarity. Refer to sketch ADA-06 attached to this addendum.

Item 9

Clarification: Clarifying scope of duct smoke and smoke dampers on the HVAC unit shut down diagram. Refer to sketch ADMEP-02 attached to this addendum.

Item 10

Clarification: Revised radiant ceiling panel schedule. Refer to sketch ADMEP-03 attached to this addendum.

Item 11

Clarification: Revisions to the VAV Box Individual Performance Schedule. Refer to sketch ADMEP-04 attached to this addendum.

Item 12

Clarification: Revised FDC size from 4" to 6". Refer to sketch ADFP-01 attached to this addendum.

Item 13

Clarification: Revisions to location and quantity of duct smoke detectors and smoke/fire dampers in the basement. Refer to sketch ADH-01 attached to this addendum.

Item 14

Clarification: Revised diffuser size and type in room 118. Refer to sketch ADH-02 attached to this addendum.

Item 15

Clarification: Revised airflow information in the following rooms 129, 130, 125, 117, 116, 109. Refer to sketch ADH-03 attached to this addendum.

Item 16

Clarification: Revised air flow risers in regards to duct smoke and dampers locations. Refer to sketch ADH-04 attached to this addendum.

Item 17

Clarification: Added pipe sizes for boiler and pump connections. Refer to sketch ADH-05 attached to this addendum.

Item 18

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Clarification: Revised sequence for AHU-1S/E. Refer to sketch ADH-06 attached to this addendum.

Item 19

Clarification: Deleted duct smoke from the return air ductwork. Refer to sketch ADH-07 attached to this addendum.

Item 20

Clarification: Deleted duct smoke from the return air ductwork. Refer to sketch ADH-08 attached to this addendum.

Item 21

Clarification: Added pipe sizes for chiller pumps and chiller connections. Refer to sketch ADH-09 attached to this addendum.

Item 22

Clarification: Deleted two duplex outlets located above the dual sink in Training Dental room 107. Refer to sketch ADEP-01 attached to this addendum.

Item 23

Clarification: Revisions to duct smoke detectors location and quantity in the basement, added one more tamper switch. Refer to sketch ADES-01 attached to this addendum.

Item 24

Clarification: Revised civil symbol legend to include gas utility symbols. Refer to sketch ADC-01 attached to this addendum.

Item 25

Clarification: Revised gas utility notes, added conduit to drawing and schedule (#8) for telephone line to gas meter. Refer to sketch ADC-02 attached to this addendum.

Item 26

Clarification: Revised sanitary inverts to raise invert at building from 740.25 to 741.25. Refer to sketch ADC-03 attached to this addendum.

Item 27

Clarification: Adjust conduit and ductbank alignments south of the parking lot to have larger separation from the trees. Refer to sketch ADC-04 attached to this addendum.

Item 28

Clarification: Revised locations of gas meter pad, generator pad, and transformer pad, reconfigured gas utility, revised gas notes. Refer to sketch ADC-05 attached to this addendum.

Item 29

Clarification: Added gas meter piping schematic to drawings. Refer to sketch ADC-06 attached to this addendum.

Item 30

Clarification: Sketch shows plan view only of the gas meter pad detail. Refer to sketch ADC-07 attached to this addendum.

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Item 31

Clarification: Sketch shows profile view only of the gas meter pad detail. Refer to sketch ADC-08 attached to this addendum.

Item 32

Clarification: Revised the size of the generator concrete pad and gas meter pad. Reconfigured site layout around the transformer, generator and gas meter to accommodate revised sizes. Added saw cutting, milling and re-paving of route 44 as required for gas line connection. The changes also include new curb and traffic controls as required by the State of CT. Refer to revised drawings L-100, L-101a, L-102 and L-103 attached to this addendum. Refer to Item 33 for note describing State of CT paving requirements.

Item 33

Clarification: The depth of the re-paving of Route 44 shall be 2". At either end of repaved area the existing bituminous concrete shall be sawcut. Paving shall conform with note below describing State of CT paving requirements.

ITEM #0406267A - MILLING OF HOT MIX ASPHALT (HMA) – (0- 4 INCHES)

Description: This work shall consist of the milling, removal, and disposal of existing HMA pavement.

Materials: The existing HMA surface shall be disposed of offsite by the Contractor at an approved disposal facility unless otherwise stated in the contract documents.

Construction Methods: The Contractor shall remove the HMA material using means acceptable to the Engineer. The pavement surface shall be removed to the line, grade, and existing or typical cross-section shown on the plans or directed by the Engineer.

The equipment for milling the pavement surface shall be designed and built for milling flexible pavements. It shall be self propelled with sufficient power, traction, and stability to maintain depth and slope and shall be capable of removing the existing HMA pavement.

The milling machine shall be equipped with a built-in automatic grade averaging control system that can control the longitudinal profile and the transverse cross-slope to produce the specified results. The longitudinal controls shall be capable of operating from any longitudinal grade reference, including string line, contact ski (30 feet minimum), non-contact ski (20 feet minimum), or mobile string line (30 feet minimum). The transverse controls shall have an automatic system for controlling cross-slope at a given rate. The Engineer may waive the requirement for automatic grade or slope controls where the situation warrants such action.

The rotary drum of the machine shall utilize carbide tip tools spaced not more than $\frac{5}{8}$ inches apart. The forward speed of the milling machine shall be limited to no more than 45 feet/minute. The tools on the revolving cutting drum must be continually maintained and shall be replaced as warranted to provide a uniform pavement texture. The Contractor may request to perform a test strip to demonstrate that the same surface tolerance can be attained at an increased forward speed. The test strip shall be a maximum length of 500 feet and shall have the same criteria for surface tolerance as noted in this specification. The final decision for implementing the increased forward speed will be at the discretion of the Engineer.

The machine shall be equipped with an integral pickup and conveying device to immediately remove material being milled from the surface of the roadway and discharge the millings into a truck, all in one operation. The machine shall also be equipped with a means of effectively limiting the amount of dust escaping from the milling and removal operation.

When milling smaller areas or areas where it is impractical to use the above described equipment, the use of a lesser equipped milling machine may be permitted when approved by the Engineer.

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Protection shall be provided around existing catch basin inlets, manholes, utility valve boxes, and any similar structures. Any damage to such structures as a result of the milling operation is the Contractor's responsibility and shall be repaired at the Contractor's expense.

To prevent the infiltration of milled material into the storm drainage system, the Contractor shall take special care to prevent the milled material from falling into the inlet openings or inlet grates. Any milled material that has fallen into inlet openings or inlet grates shall be removed at the Contractor's expense.

Surface Tolerance: The milled surface shall provide a satisfactory riding surface with a uniform textured appearance. The milled surface shall be free from gouges, longitudinal grooves and ridges, oil film, and other imperfections that are a result of defective equipment, improper use of equipment, or poor workmanship. The Contractor, under the direction of the inspector, shall perform random spot-checks with a Contractor supplied ten-foot straightedge to verify surface tolerances at a minimum of five locations per day. The variation of the top of two ridges from the testing edge of the straightedge, between any two ridge contact points, shall not exceed $\frac{3}{8}$ inch. The variation of the top of any ridge to the bottom of the groove adjacent to that ridge shall not exceed $\frac{3}{8}$ inch. Any unsatisfactory surfaces produced are the responsibility of the Contractor and shall be corrected at the Contractor's expense and to the satisfaction of the Engineer.

The depth of removal will be verified by taking a measurement every 250 feet per each pass of the milling machine, or as directed by the Engineer. These depth measurements shall be used to monitor the average depth of removal.

Where a surface delamination between HMA layers or a surface delamination of HMA on Portland cement concrete causes a non-uniform texture to occur, the depth of milling shall be adjusted in small increments to a maximum of a +/- $\frac{1}{2}$ inch to eliminate the condition.

When removing a HMA pavement entirely from an underlying Portland cement concrete pavement, all of the HMA pavement shall be removed leaving a uniform surface of Portland cement concrete, unless otherwise directed by the Engineer.

Any unsatisfactory surfaces produced by the milling operation are the Contractor's responsibility and shall be corrected at the Contractor's expense and to the satisfaction of the Engineer.

No vertical faces, transverse or longitudinal, shall be left exposed to traffic unless it meets the requirements below. This shall include roadway structures (catch basins, manholes, utility valve boxes, etc.). If any vertical face is formed in an area exposed to traffic a temporary paved transition will be established according to the requirements shown on the plans. If the milling machine is used to form a temporary transition, the length of the temporary transition shall conform to Special Provision Section 4.06 - Bituminous Concrete, "Transitions for Roadway Surface", the requirements shown on the plans, or as directed by the Engineer. At all permanent limits of removal, a clean vertical face shall be established by saw cutting prior to paving.

Roadway structures shall not have a vertical face of greater than 1 inch exposed to traffic as a result of milling. All structures within the roadway that are exposed to traffic and greater than 1 inch above the milled surface shall receive a transition meeting the following requirements:

For roadways with a posted speed limit of 35 mph or less*:

1. Round structures with a vertical face of greater than 1 inch to 2.5 inches shall be transitioned with a hard rubber tapered protection ring of the appropriate inside diameter designed specifically to protect roadway structures.
2. Round structures with a vertical face greater than 2.5 inches shall receive a transition of bituminous concrete formed at a minimum 24 to 1 taper.
3. All rectangular structures shall receive a transition of bituminous concrete formed at a minimum 24 to 1 taper.

*Bituminous concrete tapers at a minimum 24 to 1 taper may be substituted for the protection rings if approved by the Engineer.

For roadways with a posted speed limit of greater than 35 mph:

1. All structures shall receive a transition of bituminous concrete meeting the temporary transition requirements in Special Provision Section 4.06- Bituminous Concrete, "Transitions for Roadway Surface".

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The milling operation shall proceed in accordance with the requirements of the "Maintenance and Protection of Traffic" and "Prosecution and Progress" specifications, or other contract requirements. The more stringent specification shall apply.

Prior to opening an area which has been milled to traffic, the pavement shall be thoroughly swept with a sweeper. The sweeper shall be equipped with a water tank and be capable of removing the millings and loose debris from the surface. Other sweeping equipment may be provided in lieu of the sweeper where acceptable by the Engineer.

Any milled area that will not be exposed to live traffic for a minimum of 48 hours prior to paving shall require a vacuum sweeper truck in addition to, or in lieu of, mechanical sweeping. The vacuum sweeper truck shall have sufficient power and capacity to completely remove all millings from the roadway surface including any fine particles within the texture of the milled surface. Vacuum sweeper truck hose attachments shall be used to clean around pavement structures or areas that cannot be reached effectively by the main vacuum. Compressed air may be used in lieu of vacuum attachments if approved by the Engineer.

Method of Measurement: This work will be measured for payment by the number of square yards of area from which the milling of asphalt has been completed and the work accepted. No area deductions will be made for minor unmilled areas such as catch basin inlets, manholes, utility boxes and any similar structures.

The depth of removal will be calculated by taking a measurement at a minimum every 250 feet per each pass of the milling machine, or as directed by the Engineer. The average depth of each section will determine which payment item is applicable.

Basis of Payment: This work will be paid for at the contract unit price per square yard for "Milling of HMA (0 to 4 inches) (greater than 4 to 8 inches) (greater than 8 inches)". This price shall include all equipment, tools, labor, and materials incidental thereto.

No additional payments will be made for multiple passes with the milling machine to remove the bituminous surface.

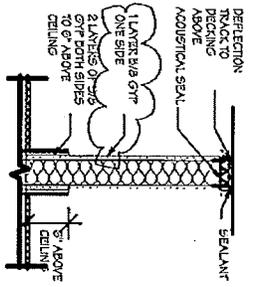
No separate payments will be made for cleaning the pavement prior to paving; providing protection and doing handwork removal of bituminous concrete around catch basin inlets, manholes, utility valve boxes and any similar structures; repairing surface defects as a result of the Contractors negligence; providing protection to underground utilities from the vibration of the milling operation; removal of any temporary milled transition; removal and disposal of millings; furnishing a sweeper and sweeping after milling. The costs for these items shall be included in the contract unit price.

Pay Item	Pay Unit
Milling of Hot Mix Asphalt (HMA) – (0- 4 inches)	Sq. Yd
Milling of Hot Mix Asphalt (HMA) – (greater than 4 to 8 inches)	Sq. Yd
Milling of Hot Mix Asphalt (HMA) – (greater than 8 inches)	Sq. Yd

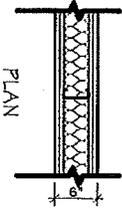
All questions must be in writing (not phone or e-mail) and must be forwarded to the consulting Architect/Engineer (Northeast Collaborative Architects 860-347-4075) with copies sent to the CT DCS Project Manager (Barbara Cosgrove 860-214-6502) and Construction Manager (Downes Construction Company LLC 860-225-3617)

End of Addendum THREE

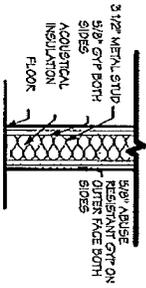
Mellanee Walton, Associate Fiscal Administrative Officer
Department of Administrative Services
On Behalf of the Division of Construction Services



HEAD

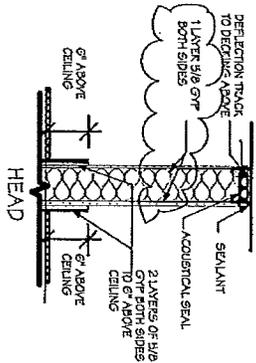


PLAN

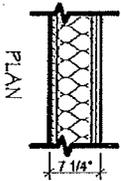


BASE

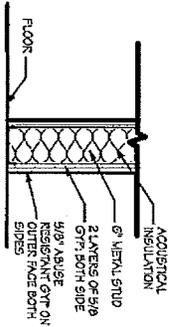
- TYPE 3
- TYPE 3A
- TYPE 3B
- TYPE 3C
- TYPE 3D
- TYPE 3E
- TYPE 3F



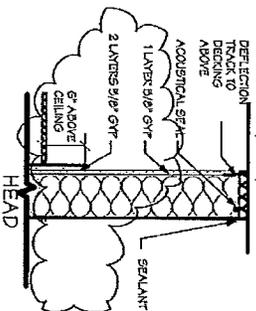
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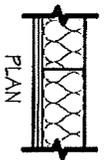
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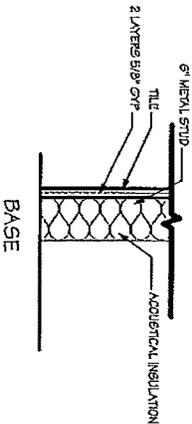
BASE
TYPE 10



HEAD



PLAN



BASE

- TYPE 11

WALL TYPE REVISIONS

SCALE: 1/2" = 1'-0"

01
ADA-02

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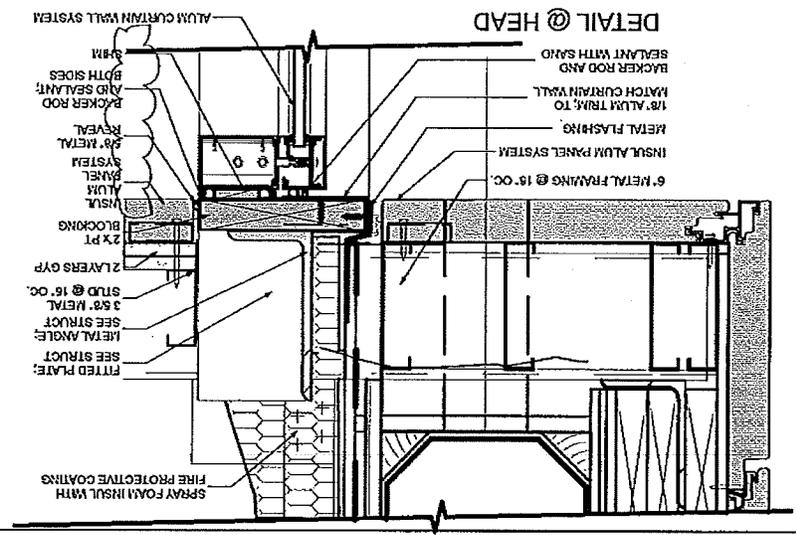
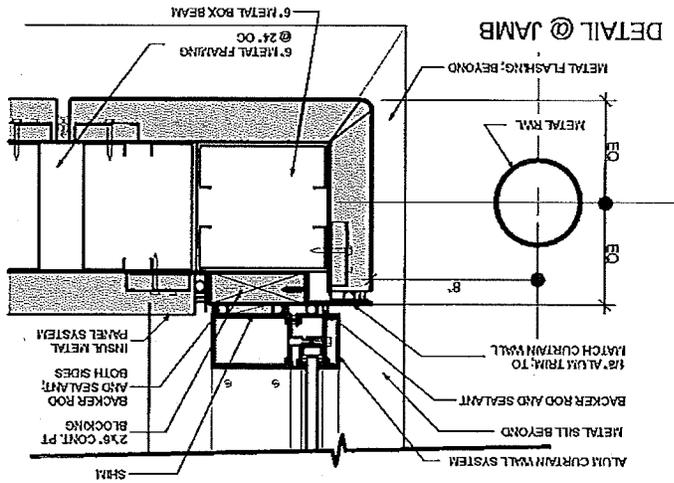
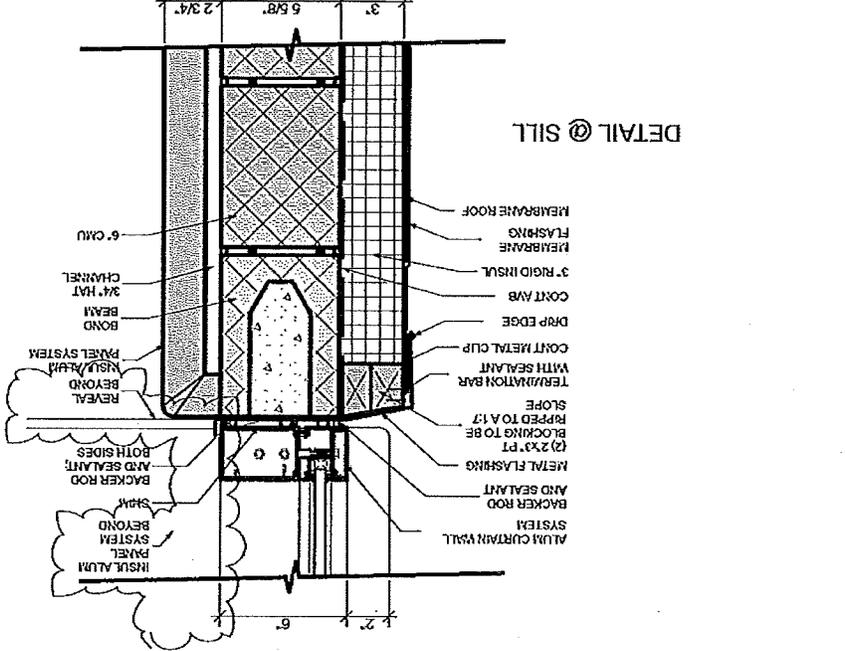
NCA PROJECT NO.

08290

DATE: 04/01/14

ADA-02

REVISION TO DETAIL 3/A-610



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WINSTED, CT
STATE PROJECT NO. B1-CTC-427

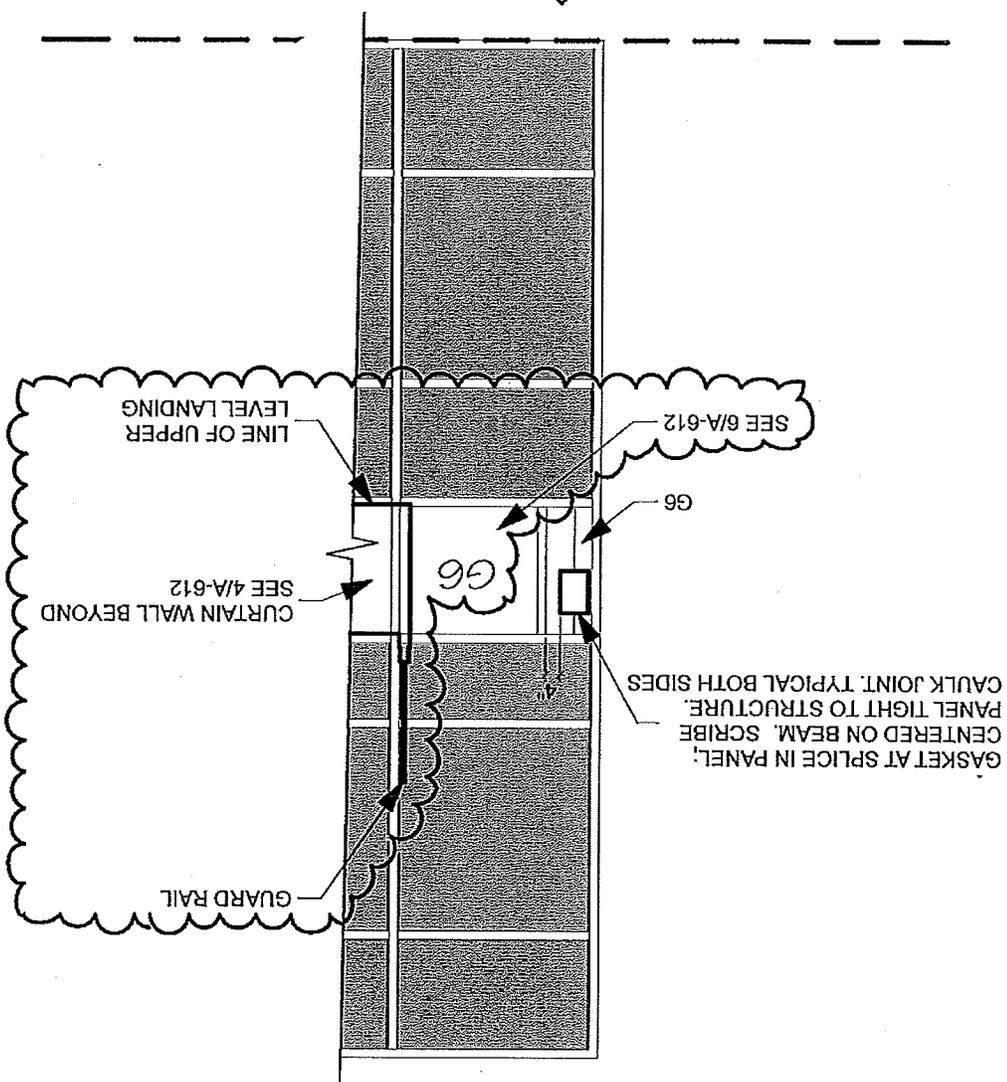
NCA PROJECT NO. 08290
DATE: 04/02/14
ADA-03

ADA-04
1

WINDOW TYPES REVISIONS A-040

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

11
STAIR-A SIDE



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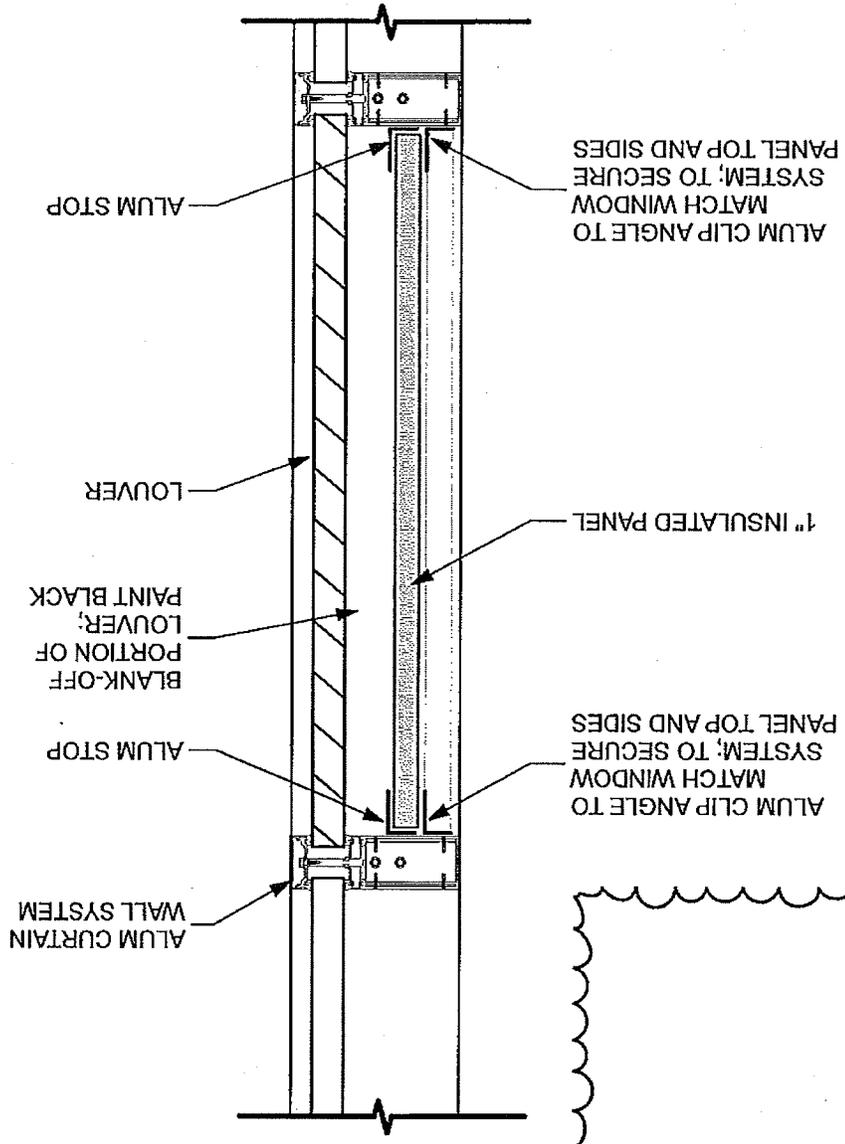
NCA PROJECT NO.
08290
DATE: 04/02/14
ADA-04

ADA-05
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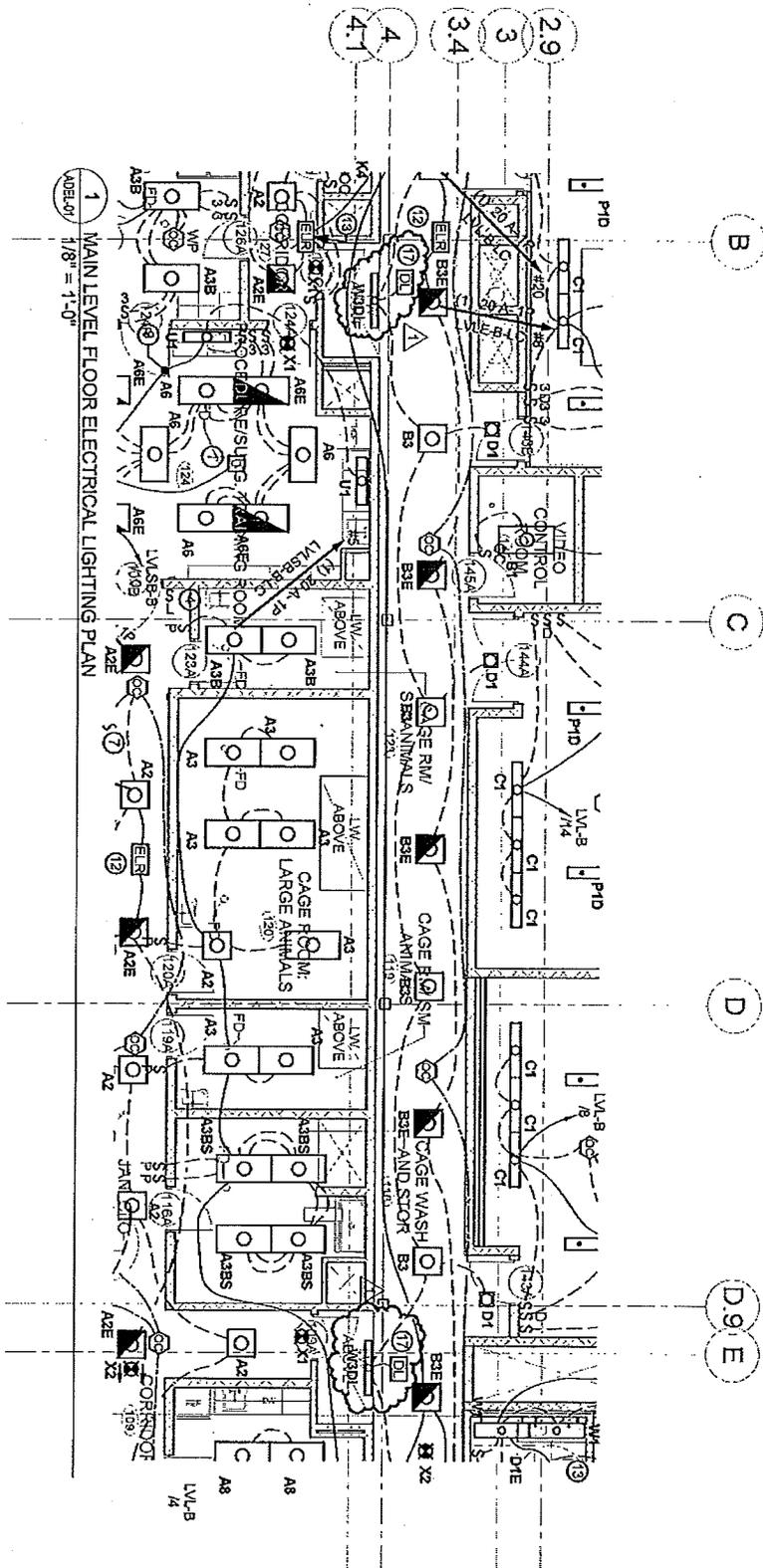
SCALE: 1 1/2" = 1'-0"

SECTION DETAIL @ WEST SIDE OF VEST. LOUVER

REVISION TO 6/A-612



NORTHEAST COLLABORATIVE ARCHITECTS 500 Plaza Middlesex Middletown, CT 06457 TEL: 860.344.9332 FAX: 860.347.4075 www.nearchitects.com		JOYNER HALL NORTHWESTERN CONNECTICUT COMMUNITY COLLEGE 100 SOUTH MAIN STREET WINSTED, CT STATE PROJECT NO. B1-CTC-427		NCA PROJECT NO. 08290	
				DATE: 04/02/14	
				ADA-05	



REVISING DAG. EL-120

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 STATE PROJECT NO. BI-CTC-427

NCA PROJECT NO.
 08280
 DATE: 04/01/14
 ADEL-01

MEPT GENERAL NOTES

1. **MISC**
PROVIDE THROTTLING VALVES AND SHUT-OFF VALVES AS SPECIFIED IN ADDITION TO THOSE INDICATED ON THE DOCUMENTS.
2. PROVIDE DUCT TAKE-OFF TYPES AND VOLUME DAMPERS PER THE SPECIFICATIONS AND DUCT TAKE-OFF DETAILS ON DRAWINGS. TAKE-OFFS SHOWN ON FLOOR PLANS DO NOT REPRESENT THE SPECIFIC TYPE OF TAKE-OFF REQUIRED. CONSULT THE DETAILS AND SPECIFICATIONS.
3. INSTALL SMOKE DETECTORS FOR AIR HANDLING EQUIPMENT PER THE MEP DETAILS. PROVIDE SMOKE DAMPERS AND INSTALL ASSOCIATED SMOKE DETECTORS AT DUCT PENETRATIONS OF SMOKE-BARRIERS, AT AIR HANDLING UNITS, AND AT ELEVATOR SHAFT VENTS PER THE MEP DETAILS AND CODE REQUIREMENTS. VAVS AND SYSTEMS SHALL BE THERMOSTATICALLY CONTROLLED. REVIEW THE PLANS AND SPECIFICATIONS OF ALL MEP TRADES FOR A COMPLETE SCOPE OF THE WORK.
4. FRINGES SHALL BE SUPPORTED FROM STRUCTURE ABOVE TO MAXIMIZE HEAD ROOM. INSTALL TIGHT TO BOTTOM OF BEAMS WHEN RUNNING PERPENDICULAR TO BEAM. INSTALL PIPING TIGHT TO FLOOR SLAB WHEN RUNNING PARALLEL TO BEAM. PROVIDE ALL NECESSARY FITTINGS AND TRANSITIONS.
5. PROVIDE FIRE DAMPERS AT ALL HIGH POINTS AND DRAINS AT ALL LOW POINTS.
6. PROVIDE IDENTIFICATION AND/OR MARKINGS OF IDENTIFIED CONDUITS, INCLUDING WALLS, SHAFTS AND FLOOR PENETRATIONS. OPERATIVE VENT ANCHORING PER THE SPECIFICATIONS.
7. PROVIDE PRESSURE RELIEF HOLES FOR ALL PRESSURE SYSTEMS PER THE EXHAUST SCHEDULE. PROVIDE A MEANS TO MAKE-UP AIR. SMOKE VENTS, ETC. EXCEPT DAMPER VENTILATION AND SMOKE EXHAUST AND PROVIDE A MEANS TO CONTROL PRESSURE DIFFERENTIALS.
8. PROVIDE HYDRO-PNEUMATIC TANKS FOR ALL PRESSURE SYSTEMS PER THE EXHAUST SCHEDULE. PROVIDE A MEANS TO MAKE-UP AIR. SMOKE VENTS, ETC. EXCEPT DAMPER VENTILATION AND SMOKE EXHAUST AND PROVIDE A MEANS TO CONTROL PRESSURE DIFFERENTIALS.
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REVISING DWG. MEP-100

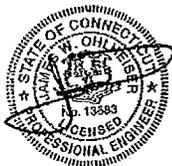
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 STATE PROJECT NO. BI-CTC-427

NCA PROJECT NO. 08290
DATE: 04/01/14
ADMEP-01

GENERAL NOTE:
 PROVIDE HYDRONIC PIPING RUNOUTS FROM DISTRIBUTION MAINS TO ALL
 TERMINAL EQUIPMENT. SEE UNIT SCHEDULES FOR RUNOUT PIPING SIZES.
 ALL RUNOUTS SHALL BE INDEPENDENT UNLESS NOTED OR INDICATED
 OTHERWISE (IE, VAV, UH, PPR, CUH, FCU, ROP, ETC.) SEE PIPING DETAILS
 FOR ADDITIONAL PIPE AND VALVE REQUIREMENTS.
 THIS NOTE APPLIES TO DRAWINGS HP-100, HP-110, HP-120, AND HP-130.



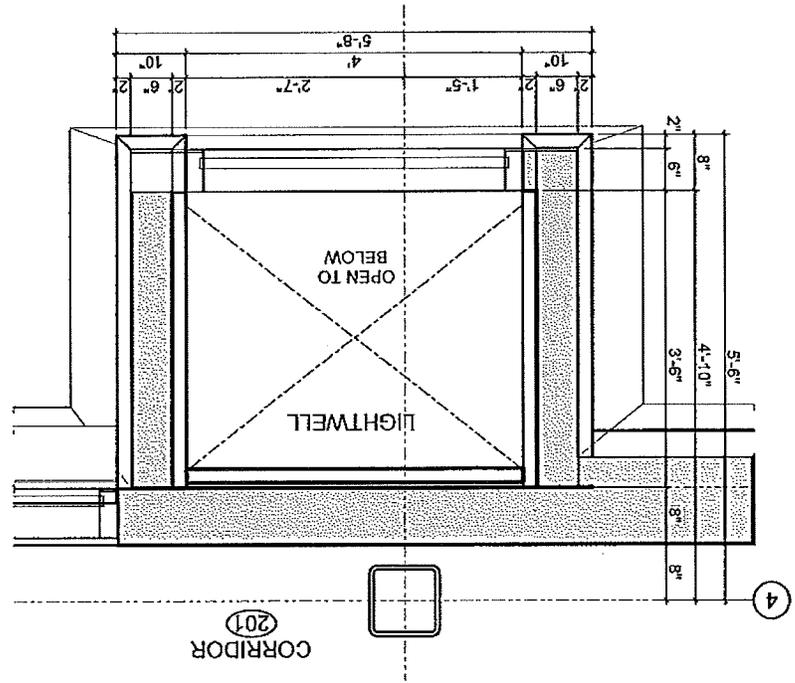
REVISING DWG. HP-100, HP-110, HP-120, HP-130

 BVH Integrated Services 50 Griffin Road South Bloomfield, CT 06002 Tel: (860) 286-9171	NORTHEAST COLLABORATIVE ARCHITECTS 600 Plaza Westpark Meriden CT 06457 TEL: 860-344-9332 FAX: 860-347-4075 www.ncarchitects.com	JOYNER HALL NORTHWESTERN CONNECTICUT COMMUNITY COLLEGE 100 SOUTH MAIN STREET WINSTED, CT STATE PROJECT NO. BI-CTC-427	NCA PROJECT NO. 08290
			DATE: 04/01/14
			ADHP-01

ADA-06
2

SCALE: 1/2" = 1'-0"

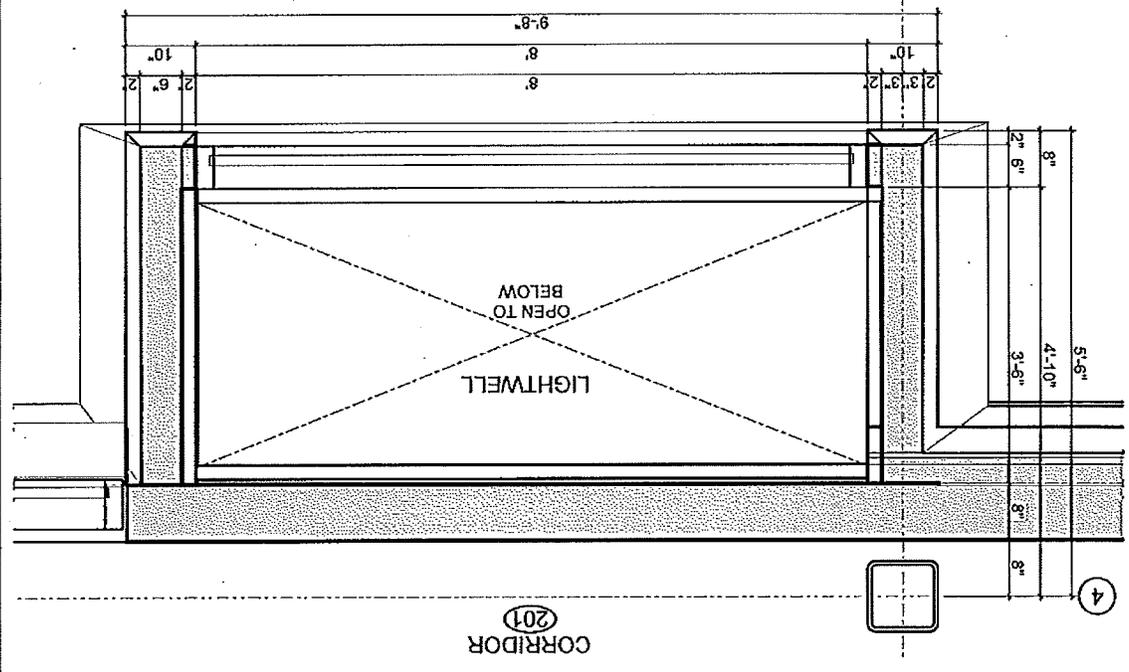
ENLARGED PLAN @ TYPICAL SMALL LIGHTWELL



ADA-06
1

SCALE: 1/2" = 1'-0"

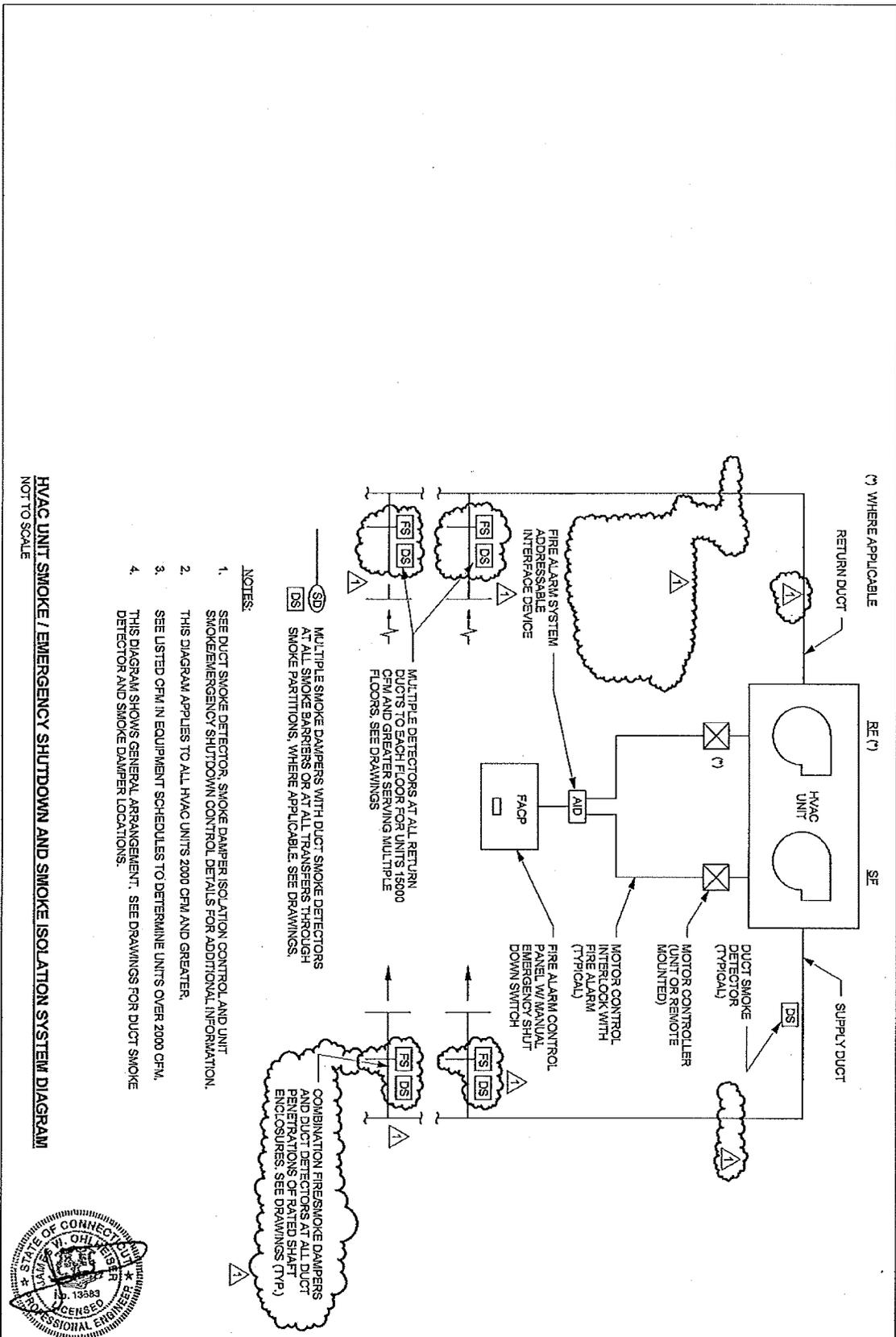
ENLARGED PLAN @ TYPICAL LARGE LIGHTWELL



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HVAC UNIT SMOKE / EMERGENCY SHUTDOWN AND SMOKE ISOLATION SYSTEM DIAGRAM
 NOT TO SCALE



REVISING DWG. MEP-102

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ADMEP-02

RADIANT CEILING HEATING PANEL SCHEDULE - HOT WATER											
TYPE	MODEL	STYLE	MAX LENGTH (FT)	WIDTH (IN)	BTU/HLF	GPM / CIRCUIT	PIPE RUNOUT SIZE	NUMBER OF TUBES	MOUNTING TYPE	EWT (°F)	LWT (°F)
ROP-A	AR-X		[1]	24	248	0.5	3/4"	4	[2]	150	130

GENERAL NOTES

1. BASIS OF DESIGN MANUFACTURER: AIRTITE
2. PANEL TUBES ARE SERIES LOOPED WITH MAXIMUM 100 L.F. OF TUBE PER CIRCUIT. PROVIDE MULTIPLE FEEDS AND CIRCUITS FOR CONTINUOUS LENGTHS THAT EXCEED CIRCUIT LENGTH (25 FT. PANEL); PROVIDE ZONE VALVES FOR EACH CIRCUIT REQUIRED.
3. PROVIDE RADIANT PANEL SPLIT AND INTERCONNECTING FIELD PIPING AT COLUMNS. SEE PLANS FOR LOCATIONS.

SCHEDULE NOTES

- [1] LENGTHS WALL TO WALL AS SHOWN ON PLANS. DEFINE EXACT LENGTHS WITH ARCHITECT AND CEILING DETAILS IN FIELD AS PART OF PARTITION SHOP DRAWING SUBMITTAL. PROVIDE FIELD AND INTERCONNECTING PIPING BETWEEN NOMINAL LENGTH SECTION TO CEILING WALL SET WELL LENGTHS PER MANUFACTURERS INSTRUCTIONS.
- [2] PROVIDE MOUNTING TYPE SUITABLE FOR CONSTRUCTION INVOLVED. COORDINATE WITH ARCHITECT AND DEFINE IN SHOP DRAWING SUBMITTAL.



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 ADMEP-03

VAV BOX INDIVIDUAL PERFORMANCE SCHEDULE

TAG ID	TYPE	MAX CFM [1]	MIN CFM [2]	SERVICE	REMARKS
VAV-B-1	F1	3025	3025	EXHAUST	
VAV-M-1A	A	200	100	SUPPLY	
VAV-M-1B	A1	200	100	EXHAUST	
VAV-M-2A	C	900	500	SUPPLY	
VAV-M-2B	C1	700	300	EXHAUST	
VAV-M-3A	A	200	100	SUPPLY	
VAV-M-3B	A1	400	300	EXHAUST	
VAV-M-4A	B	500	300	SUPPLY	
VAV-M-4B	B1	400	200	EXHAUST	
VAV-M-5A	E	1700	800	SUPPLY	
VAV-M-5B	E1	1500	600	EXHAUST	
VAV-M-6A	B	400	300	SUPPLY	
VAV-M-6B	B1	300	200	EXHAUST	
VAV-M-7A	A	250	250	SUPPLY	
VAV-M-7B	B1	350	350	EXHAUST	
VAV-M-8A	C	700	700	SUPPLY	
VAV-M-8B	C1	850	850	EXHAUST	
VAV-M-9A	C	750	300	SUPPLY	
VAV-M-9B	C1	1050	600	EXHAUST	
VAV-M-10A	A	250	250	SUPPLY	
VAV-M-10B	B1	350	350	EXHAUST	
VAV-M-11A	B	425	275	SUPPLY	
VAV-M-11B	B1	525	375	EXHAUST	
VAV-M-12A	A	250	200	SUPPLY	
VAV-M-12B	A1	150	100	EXHAUST	
VAV-M-13A	B	450	200	SUPPLY	
VAV-M-13B	B1	450	200	EXHAUST	
VAV-M-14A	B	600	350	SUPPLY	
VAV-M-14B	B1	700	450	EXHAUST	
VAV-M-15A	A	250	250	SUPPLY	
VAV-M-15B	B1	350	350	EXHAUST	
VAV-M-16A	D	1200	450	SUPPLY	
VAV-M-16B	D1	1200	450	EXHAUST	
VAV-M-17A	B	350	200	SUPPLY	
VAV-M-17B	B1	350	200	EXHAUST	
VAV-M-18A	B	500	200	SUPPLY	
VAV-M-18B	B1	500	200	EXHAUST	
VAV-M-19A	B	400	400	SUPPLY	
VAV-M-19B	B1	400	400	EXHAUST	
VAV-M-20A	B	400	200	SUPPLY	
VAV-M-20B	B1	400	200	EXHAUST	
VAV-M-21A	D	1400	500	SUPPLY	
VAV-M-21B	D1	1400	500	EXHAUST	
VAV-M-22A	D	1060	1000	SUPPLY	
VAV-M-22B	D1	1260	1260	EXHAUST	
VAV-M-23A	C	750	290	SUPPLY	
VAV-M-24A	A	200	100	SUPPLY	
VAV-M-25A	E	1890	550	SUPPLY	
VAV-M-26A	E	1740	550	SUPPLY	
VAV-M-27A	C	700	700	SUPPLY	
VAV-M-28A	C	700	700	SUPPLY	
VAV-M-29A	B	450	190	SUPPLY	
VAV-M-30A	A	250	100	SUPPLY	
VAV-M-31A	C	750	290	SUPPLY	
VAV-M-32A	B	300	190	SUPPLY	
VAV-M-33A	A	200	100	SUPPLY	
VAV-M-35A	B	500	190	SUPPLY	
VAV-M-36A	A	100	100	SUPPLY	
VAV-M-36B	B1	500	500	EXHAUST	
VAV-M-37A	C	750	750	SUPPLY	
VAV-M-38A	C	700	490	SUPPLY	
VAV-M-38B	C1	500	290	EXHAUST	
VAV-M-39A	A	300	300	SUPPLY	
VAV-M-39B	A1	300	300	EXHAUST	
VAV-U-1A	C	750	290	SUPPLY	
VAV-U-2A	E	1740	550	SUPPLY	
VAV-U-3A	D	1150	430	SUPPLY	
VAV-U-4A	E	1740	550	SUPPLY	
VAV-U-5A	B	475	475	SUPPLY	
VAV-U-6A	B	450	450	SUPPLY	
VAV-U-7A	E	1740	550	SUPPLY	
VAV-U-8A	D	1150	430	SUPPLY	
VAV-U-9A	B	450	190	SUPPLY	
VAV-U-10A	B	475	190	SUPPLY	
VAV-U-11A	A	300	165	SUPPLY	
VAV-U-12A	A	200	100	SUPPLY	
VAV-U-13A	A	200	100	SUPPLY	

GENERAL NOTES

1. NOT USED

SCHEDULE NOTES

- [1] FOR VAVS SERVED BY AHU-1, MAX CFM LISTED IS TO BE MAINTAINED UNDER OCCUPIED CONTROL MODE. SEE ANIMAL CLINIC VAV CONTROL SEQUENCE.
- [2] FOR VAVS SERVED BY AHU-1, MIN CFM LISTED IS TO BE MAINTAINED UNDER STANDBY CONTROL MODE. SEE ANIMAL CLINIC VAV CONTROL SEQUENCE.



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 ADMEP-04

FIRE PROTECTION DRAWING NOTES

- ① BURIED SPKRE SERVICE FROM 6"-Ø" OUTSIDE OF THE BUILDING. SEE CIVIL DRAWINGS FOR CONTINUATION.
- ② 6"ULFM DOUBLE CHECK VALVE ASSEMBLY. SEE DETAIL FOR ADDITIONAL INFORMATION.
- ③ WET ALARM CHECK VALVE ASSEMBLY.
- ④ 6"SPK RISER & 2"DRAIN RISER.
- ⑤ BASEMENT SPK ZONE VALVE ASSEMBLY. SEE DETAIL FOR ADDITIONAL INFORMATION.
- ⑥ SPK DRAIN RISER TO BUILDING EXTERIOR.
- ⑦ PROVIDE ADDITIONAL SPK COVERAGE BELOW WALKWAY.
- ⑧ 6"FDG PIPE. SEE CIVIL DRAWINGS FOR CONTINUATION. PITCH PIPING TO MECHANICAL ROOM FOR DRAINAGE.
- ⑨ PROVIDE COMPLETE SPK COVERAGE AT STAIRWELL. PROVIDE COVERAGE AT LOWER BASEMENT STAIR & VESTIBULE.
- ⑩ PROVIDE 212°F RATING FOR DATA RM. SPRINKLER HEADS
- ⑪ PROVIDE SPK COVERAGE BELOW STAIR.



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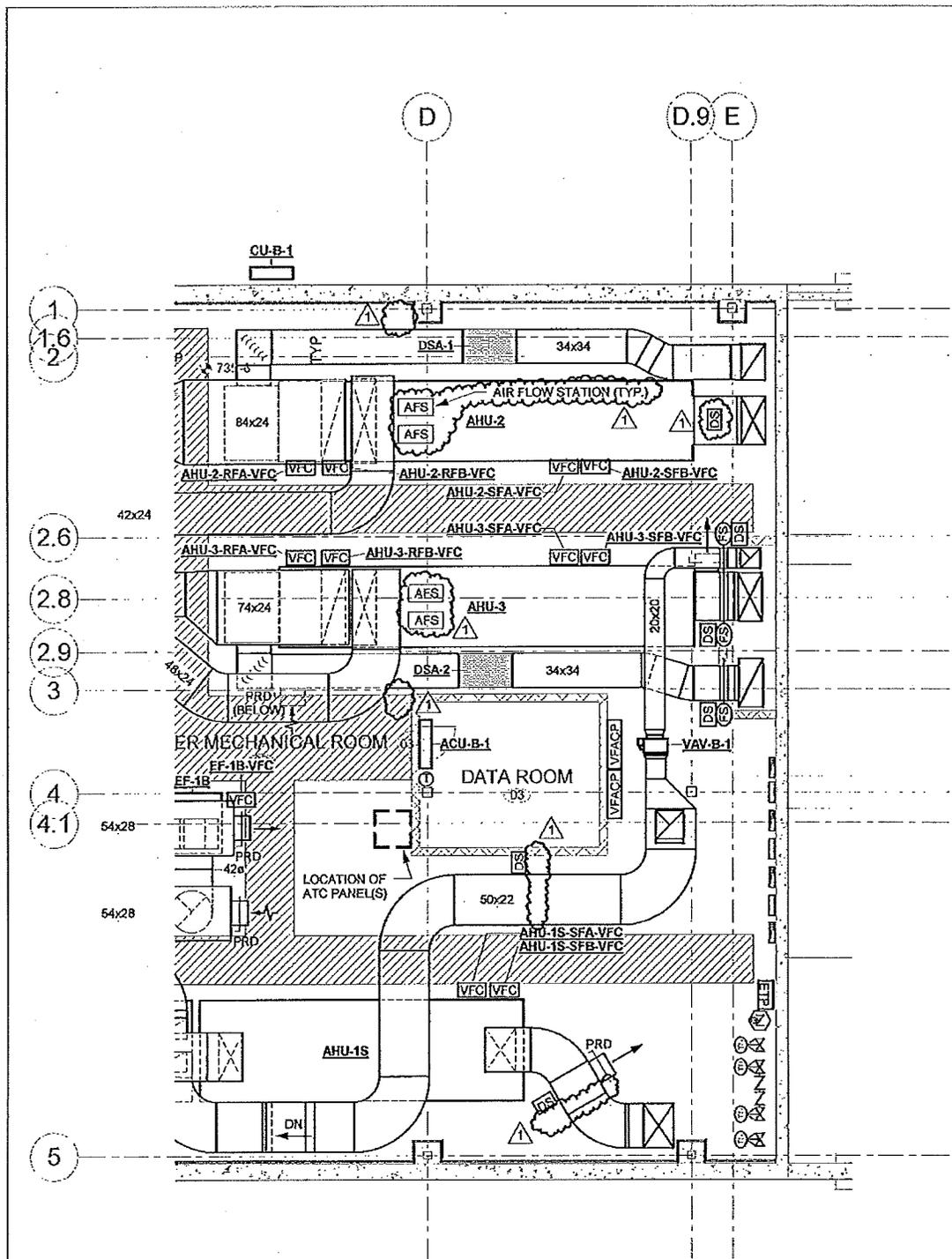


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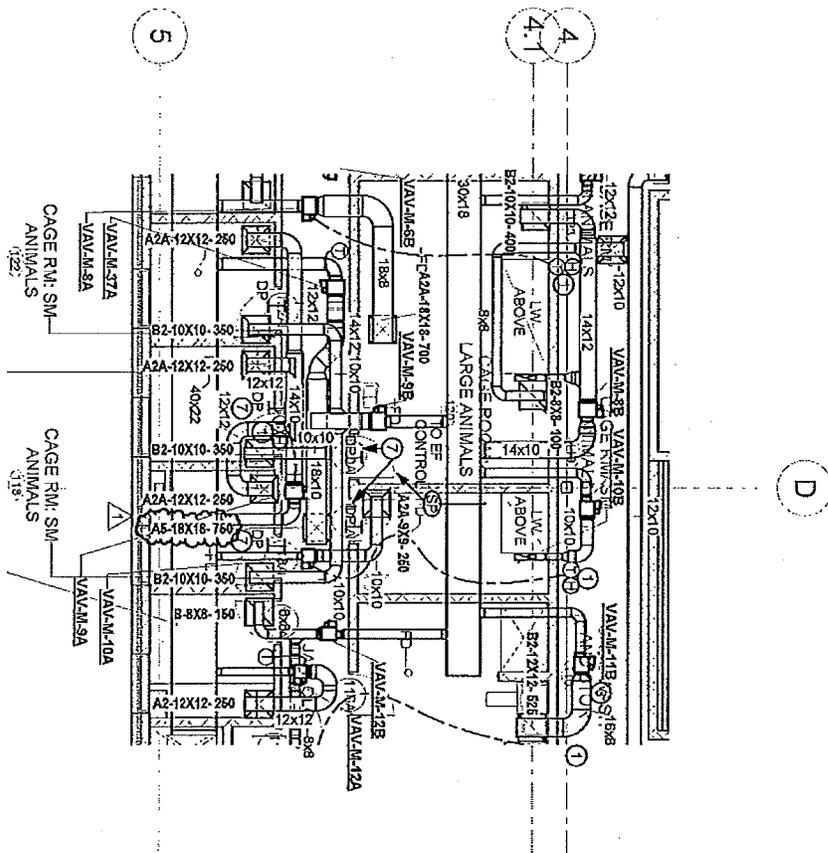


1 BASEMENT LEVEL HVAC PLAN
 ADH-01 1/8" = 1'-0"

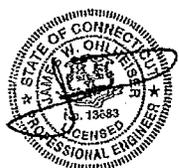


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1 MAIN LEVEL FLOOR HVAC PLAN
 ADH/2 1/8" = 1'-0"



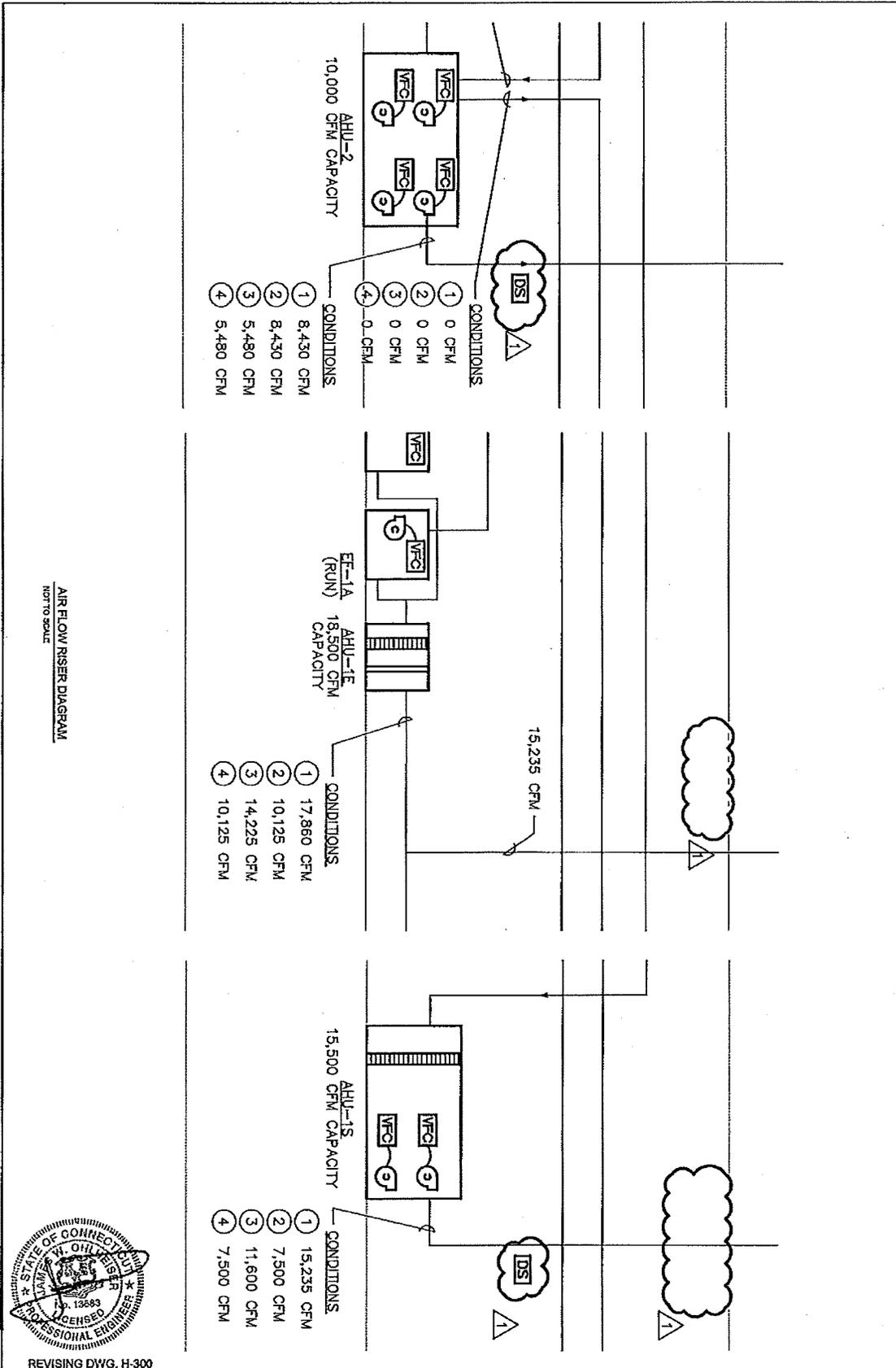
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AIR FLOW RISER DIAGRAM
NOT TO SCALE



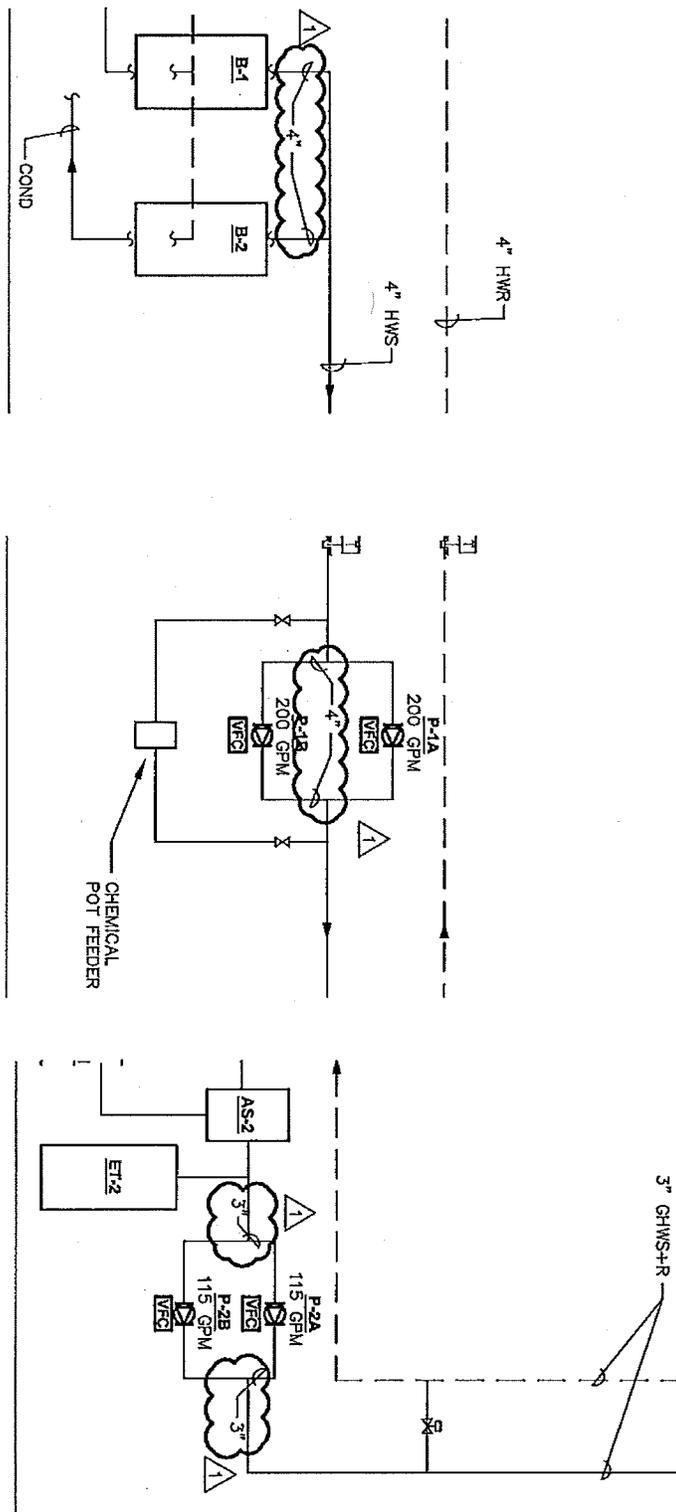
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HOT WATER PIPING RISER DIAGRAM
NOT TO SCALE



REVISIONS DWG. H-301

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TYPICAL ANIMAL CLINIC ZONE CONTROL (ZONES SEVED BY AHU-1S/E)
NOT TO SCALE

1. SEQUENCE OF OPERATION
- a. SYSTEM SHALL OPERATE 24 HOURS/7 DAYS PER WEEK. THE SUPPLY AND EXHAUST VAV BOXES SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE OF 74 DEGF COOLING (ADJUSTABLE)/ 72 DEGF HEATING (ADJUSTABLE) BUT SHALL NEVER GO BELOW ITS OCCUPIED DESIGN AIR VOLUME. ON A FURTHER DROP IN TEMPERATURE BELOW SETPOINT WHEN THE VAV BOX IS ALREADY AT MINIMUM THE REHEAT COIL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE.
 - b. THE EXHAUST SETPOINT SHALL MODULATE TO MAINTAIN ROOM AIR VOLUME OFFSET TO THE SUPPLY AIR ON AS INDICATED ON HADJ AIRFLOW PLAN DWG. H-121.
 - c. WHEN THE SPACE CO2 INDICATED LEVEL EXCEEDS 800 PPM (ADJ), THE MINIMUM BOX AIR FLOW SETPOINT SHALL BE RESET HIGHER.
 - d. FOR ALL ZONES EXCEPT ANIMAL CAGE ROOMS, EACH INDIVIDUAL ZONE SHALL GO TO STANDBY MODE AUTOMATICALLY IF ITS SPACE OCCUPANCY SENSOR INDICATES AN UNOCCUPIED CONDITION FOR MORE THAN 30 MIN (ADJ). DURING STANDBY MODE THE SUPPLY AIR VAV BOX SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE OF 78 DEGF COOLING (ADJ) OR 74 DEGF HEATING (ADJ) BUT SHALL NEVER GO BELOW THE SCHEDULED STANDBY MODE AIR VOLUME (ADJ) OR SET NEEDED TO MAINTAIN ROOM CHV OFFSET ON A FURTHER DROP IN TEMPERATURE BELOW SETPOINT WHEN THE VAV BOX IS ALREADY AT MINIMUM AIRFLOW, THE REHEAT COIL VALVE SHALL MODULATE TO MAINTAIN SETBACK SPACE TEMPERATURES.
 - e. DURING OCCUPIED MODE IF BOX DAMPER IS AT 100% OPEN AND LOW AIRFLOW CONDITION OF 25% (ADJ) BELOW COMMAND OCCURS, ALARM WORKSTATION.
2. ALARMS
- a. LOW/HIGH AIR VOLUME FOR SUPPLY OR EXHAUST
 - b. LOW/HIGH SPACE TEMPERATURE
 - c. LOW/HIGH SPACE HUMIDITY
3. GRAPHICS
- a. ALARM CONDITIONS
 - b. OCCUPIED/STANDBY MODE
 - c. OFFSET AIR VOLUME SETPOINT & ACTUAL
 - d. OCC SPACE TEMPERATURE SETPOINT
 - e. STANDBY ROOM TEMP SET POINT (WHERE APPLICABLE)
 - f. SPACE HUMIDITY (WHERE APPLICABLE)
 - g. SPACE TEMPERATURE
 - h. SUPPLY AIR VOLUME
 - i. EXHAUST AIR VOLUME
 - j. REHEAT VALVE COMMAND PERCENTAGE
 - k. SUPPLY DAMPER COMMAND PERCENTAGE
 - l. EXHAUST DAMPER COMMAND PERCENTAGE
 - m. DISCHARGE AIR TEMPERATURE
 - n. SPACE CARBON DIOXIDE LEVEL (WHERE APPLICABLE)



REVISION DWG. H-501

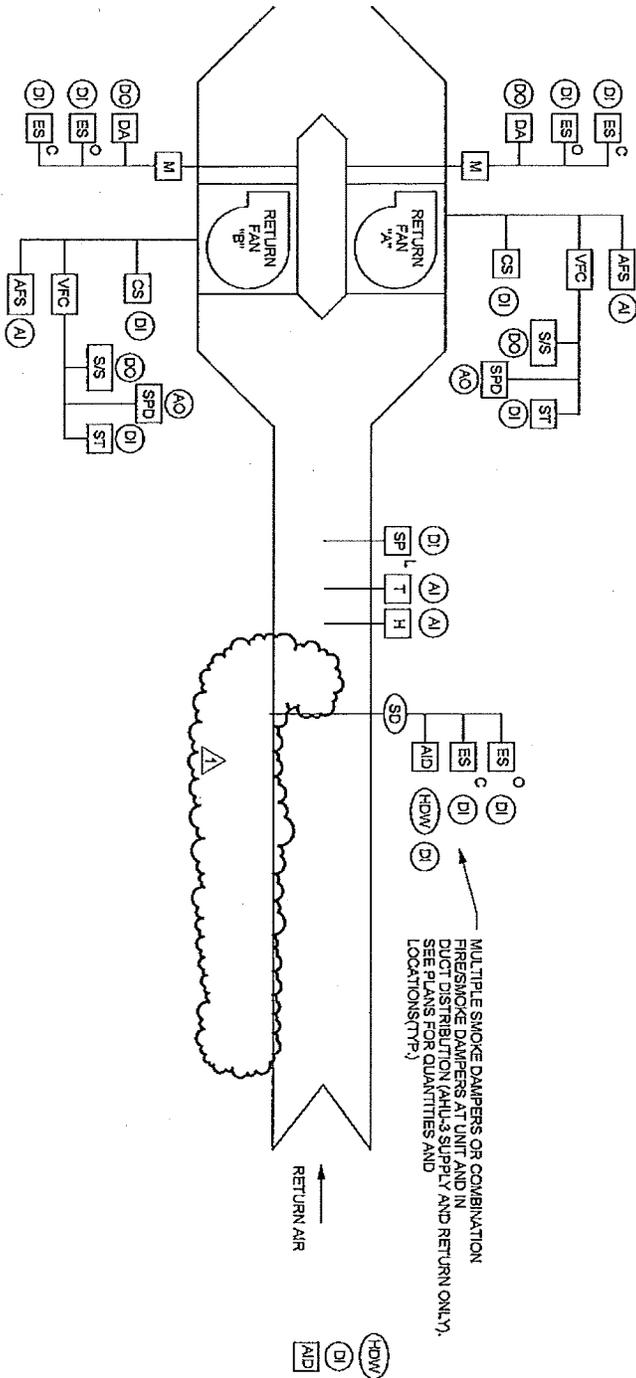
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TYPICAL AHU CONTROL SCHEMATIC (AHU-2, AHU-3)
NOT TO SCALE



MULTIPLE SMOKE DAMPERS OR COMBINATION
FIRE SMOKE DAMPERS AT UNIT AND IN
DUCT DISTRIBUTION (AHU-3 SUPPLY AND RETURN ONLY).
SEE PLANS FOR QUANTITIES AND
LOCATIONS (TYP.)

FIRE ALARM ADDRESSABLE
INTERFACE DEVICE FOR
EMERGENCY SHUTDOWN



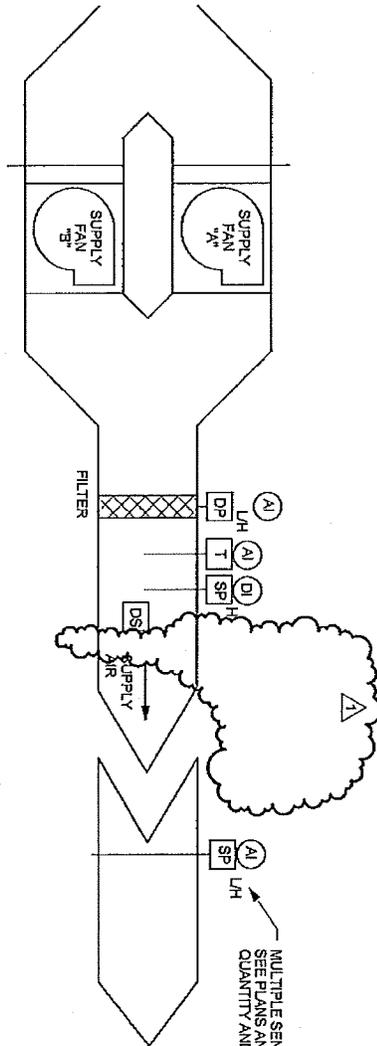
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ADH-07



DUAL FAN AIR HANDLER CONTROL (AHU-1S & AHU-1E)
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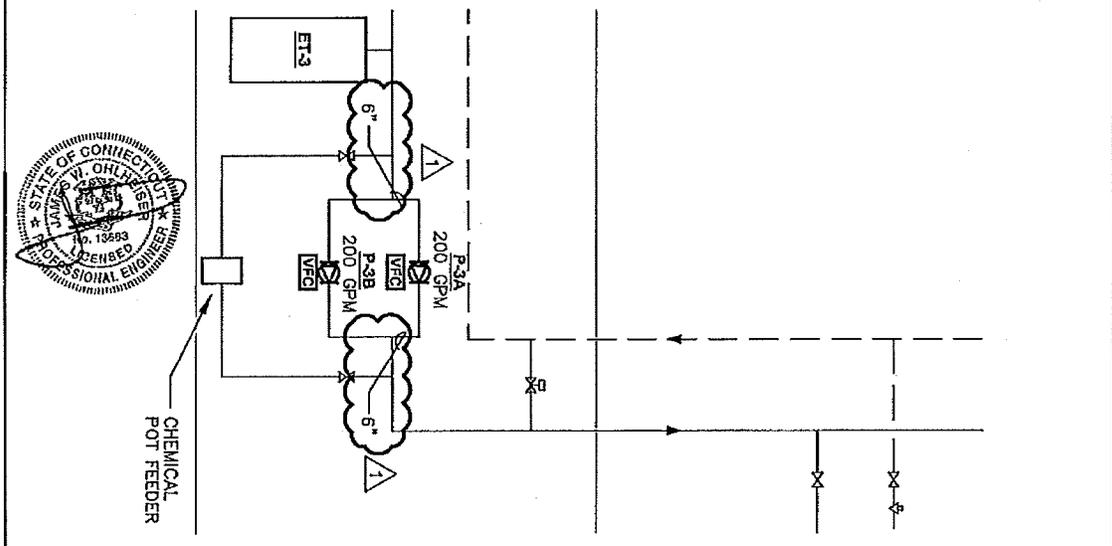
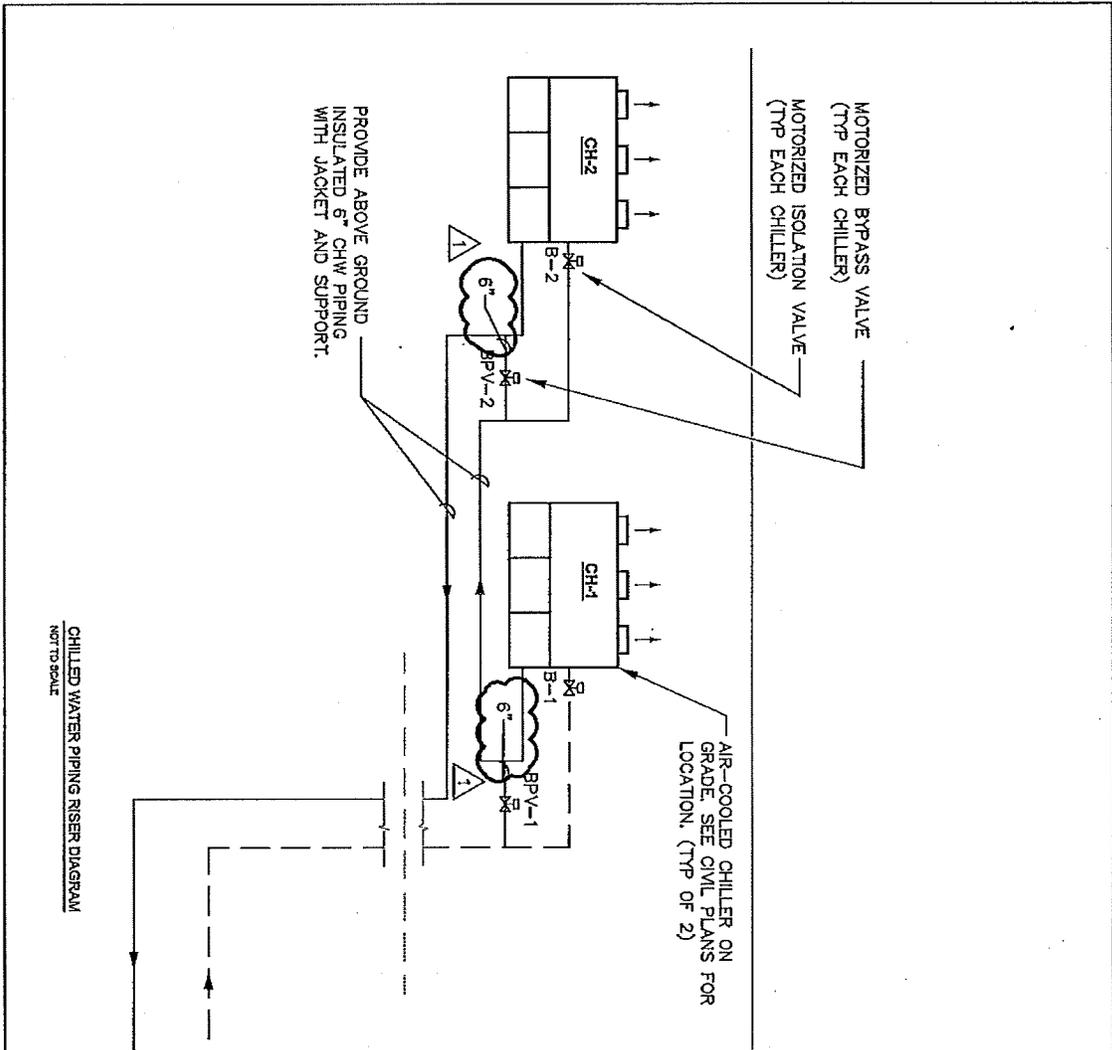
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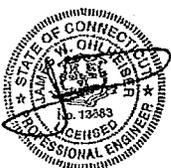
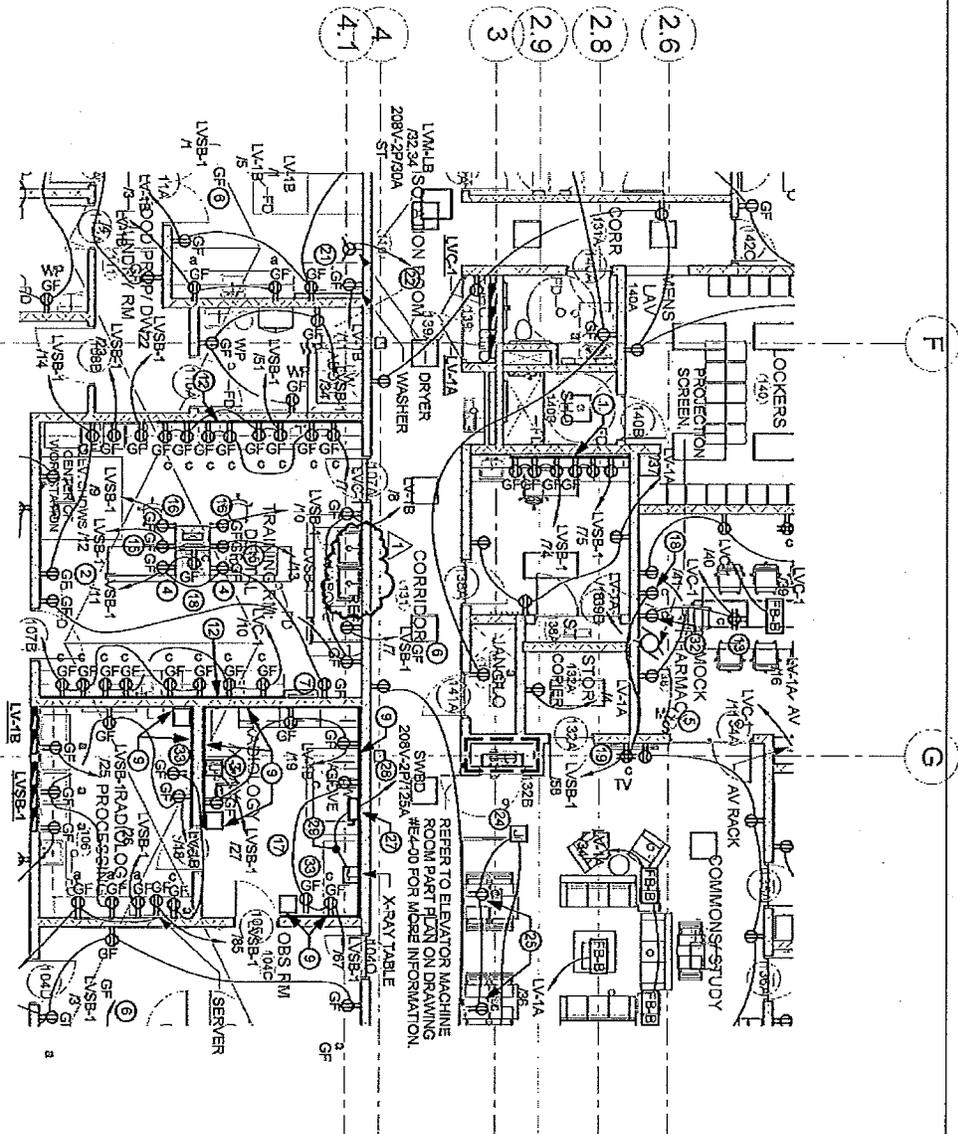
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1 MAIN LEVEL ELECTRICAL POWER PLAN
 JOYNER 1/8" = 1'-0"



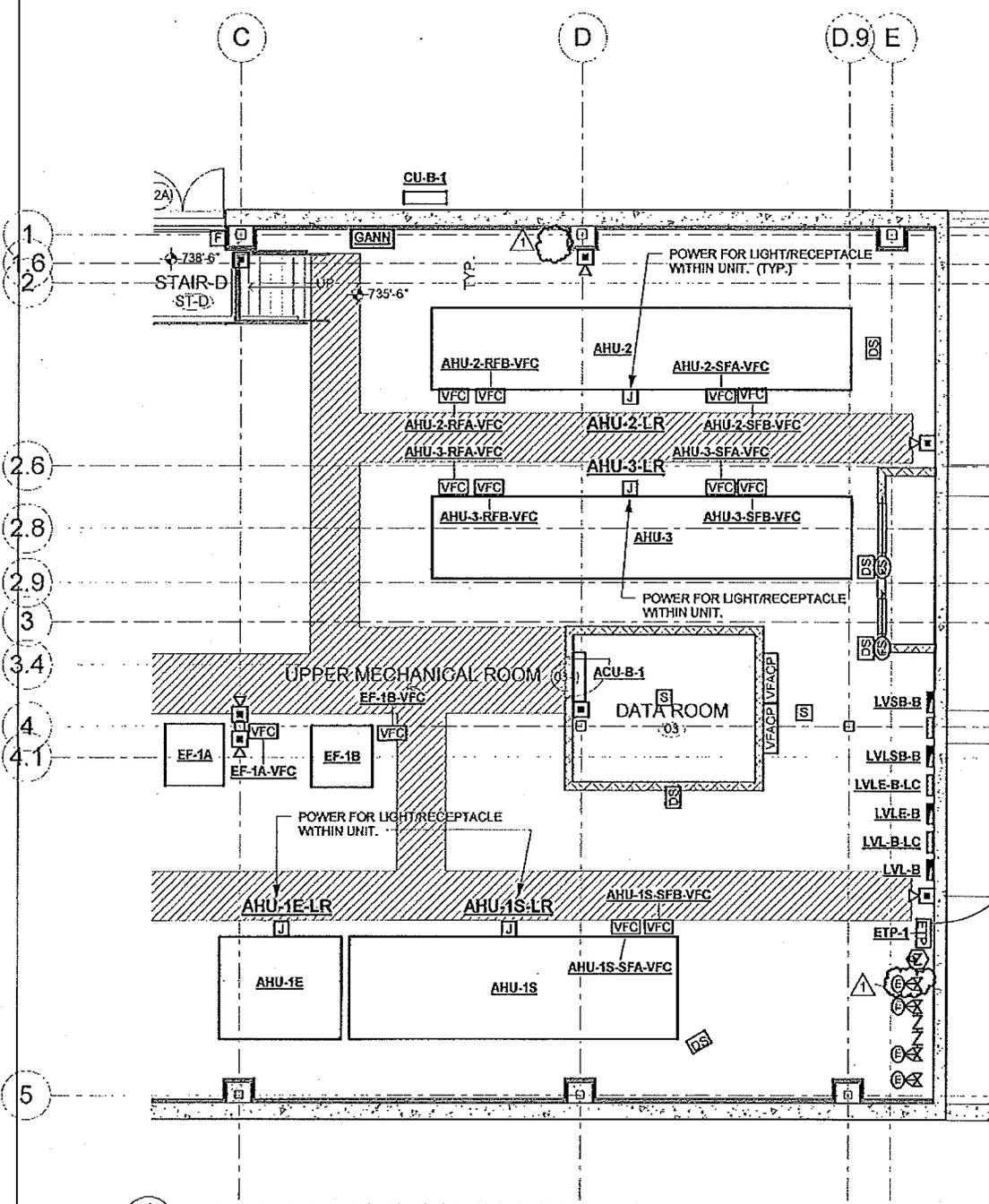
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1 BASEMENT LEVEL ELECTRICAL SPECIAL SYSTEMS PLAN
 ADES-01 1/8" = 1'-0"



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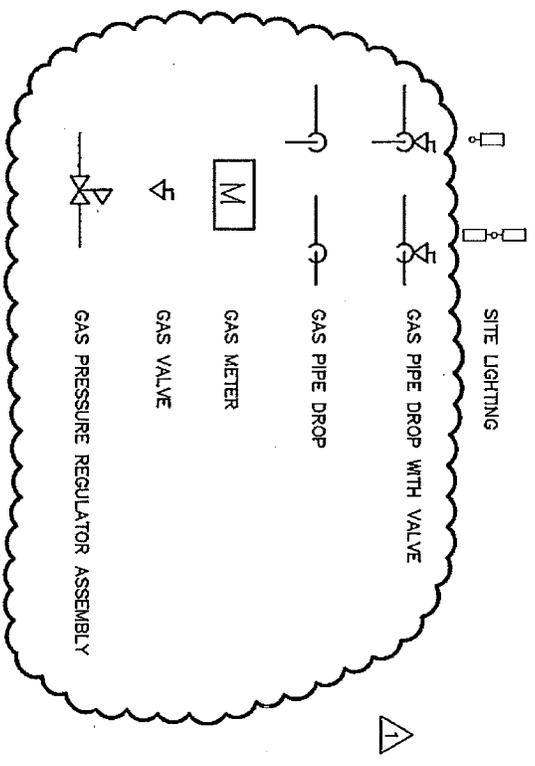
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NEW CIVIL SYMBOL LEGEND
(NOTE: NOT ALL SYMBOLS USED)



7
C-0

DETAIL REFERENCE NUMBER
SEE THIS DETAIL DRAWING

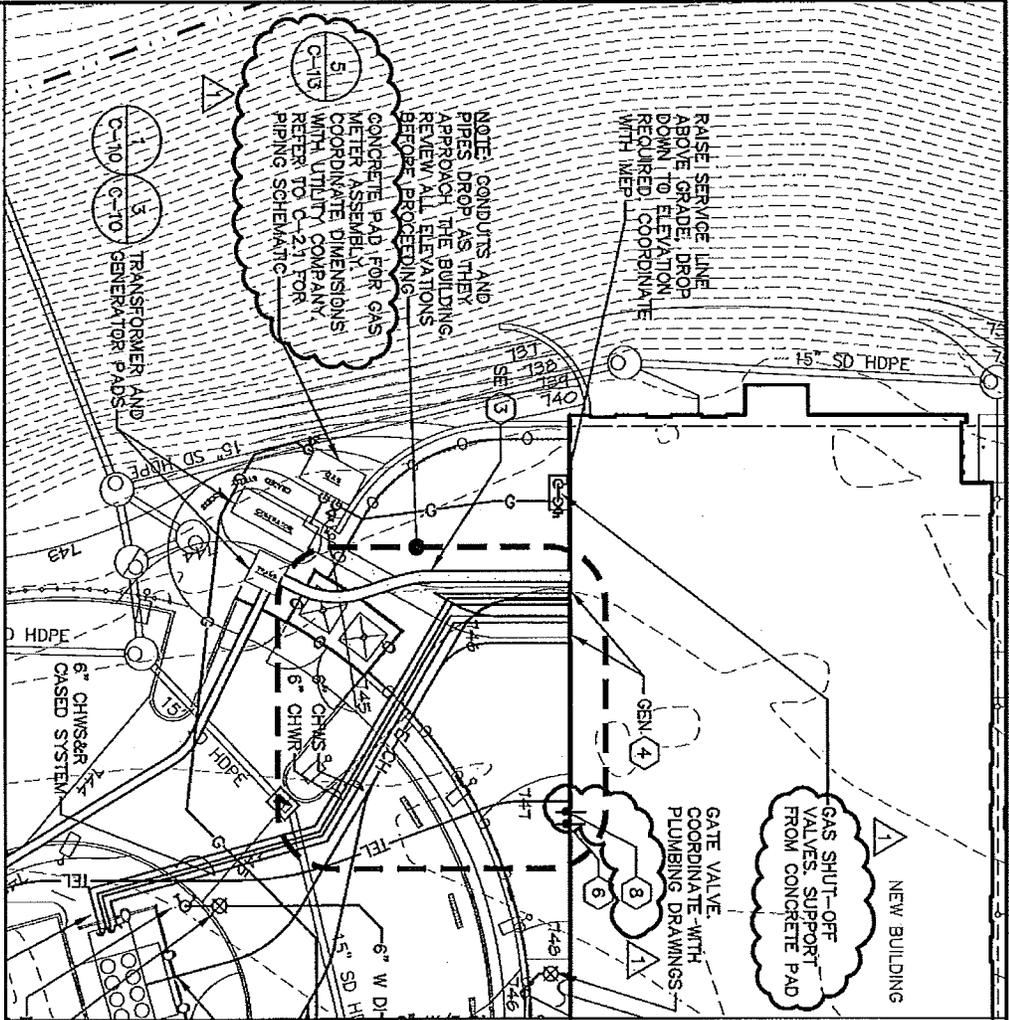


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SYMBOL LEGEND



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			DATE: 04/01/14
			ADC-01



1 GAS NOTE EDITS, ADD TELEPHONE LINE TO GAS METER
 ADC-02 1" = 20'

CONDUIT SCHEDULE

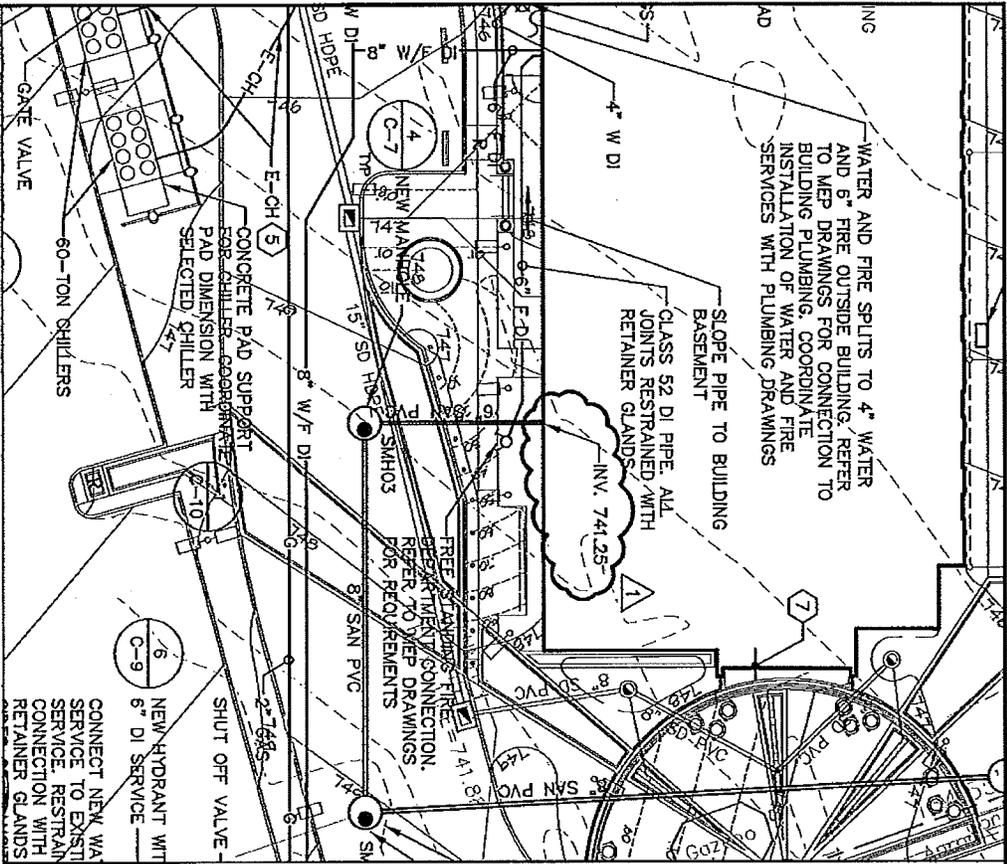
- 1 PE (2)-5" CONDUITS ENCASED IN CONCRETE, (1) ACTIVE AND (1) SPARE FOR PRIMARY ELECTRIC SERVICE.
- 2 TEL (2)-5" DIRECT-BURY CONDUITS, (1) WITH (4)-1" INNER DUCTS.
- 3 SE (6)-4" CONDUITS ENCASED IN CONCRETE, (5) ACTIVE AND (1) SPARE.
- 4 GEN PROVIDE THE FOLLOWING CONDUITS ENCASED IN CONCRETE FROM GENERATOR ENCLOSURE TO LOWER MECHANICAL ROOM:
 - (1)-1 1/2" FOR GROUNDING ELECTRODE
 - (3)-1" FOR POWER WIRING FOR BATTERY CHARGER, JACKET HEATER, AND ALTERNATOR WINDING
 - (2)-4" FOR STANDBY POWER ATS (ATS-SB)
 - (2)-4" SPARES
 - (1)-2" FOR CONTROL WIRING
 - (1)-4" FOR EMERGENCY POWER ATS (ATS-EM)
- 5 E-CH PROVIDE THE FOLLOWING DIRECT-BURY CONDUITS FROM LOWER MECHANICAL ROOM TO CHILLERS:
 - (1)-4" FOR POWER WIRING TO CHILLER #1
 - (1)-4" FOR POWER WIRING TO CHILLER #2
 - (1)-1" CONDUIT FOR ELECTRIC CIRCUIT TO HEATER AT CHILLER #1
 - (1)-1" CONDUIT FOR ELECTRIC CIRCUIT TO HEATER AT CHILLER #2
 - VERIFY EXACT LOCATION WITH SELECTED CHILLER MANUFACTURER
 - (1)-2" SPARE WITH PULL STRING FOR CONTROL WIRING TO CHILLER #1
 - (1)-2" SPARE WITH PULL STRING FOR CONTROL WIRING TO CHILLER #2
- 6 PROVIDE (5)-1" CONDUITS, 2 FOR EMERGENCY PHONES AND 3 FOR CAMERAS. SEE SE-100 AND TC-110 FOR LOCATIONS AND OTHER INFORMATION.
- 7 PROVIDE (2)-1" CONDUITS FOR CAMERAS. SEE SE-100 AND TC-110 FOR LOCATIONS AND OTHER INFORMATION.
- 8 PROVIDE (1) 1" CONDUIT FOR GAS METER. SEE TC-110 FOR OTHER INFORMATION.



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 STATE PROJECT NO. BI-CTC-427

NCA PROJECT NO.
 08280
 DATE: 04/01/14
 ADC-02



1 SANITARY SEWER INVERT REVISIONS
 ADC-03 1" = 20'

SANITARY MANHOLE SCHEDULE			
(NOTE: INVERT IS AT CENTER OF STRUCTURE. SEE SPECIFICATIONS FOR BENCH REQUIREMENTS)			
MH #	TYPE	T/F	INV.
SMH01*	MH	746.20	737.87
SMH02*	MH	749.10	739.36 (S**) 739.14 (N***) 739.14 (N***)
SMH03	MH	747.35	740.59

* EXISTING INVERTS FOR DOGHOUSE MANHOLES MUST BE VERIFIED IN FIELD. NOTIFY ENGINEER OF ANY CHANGES.

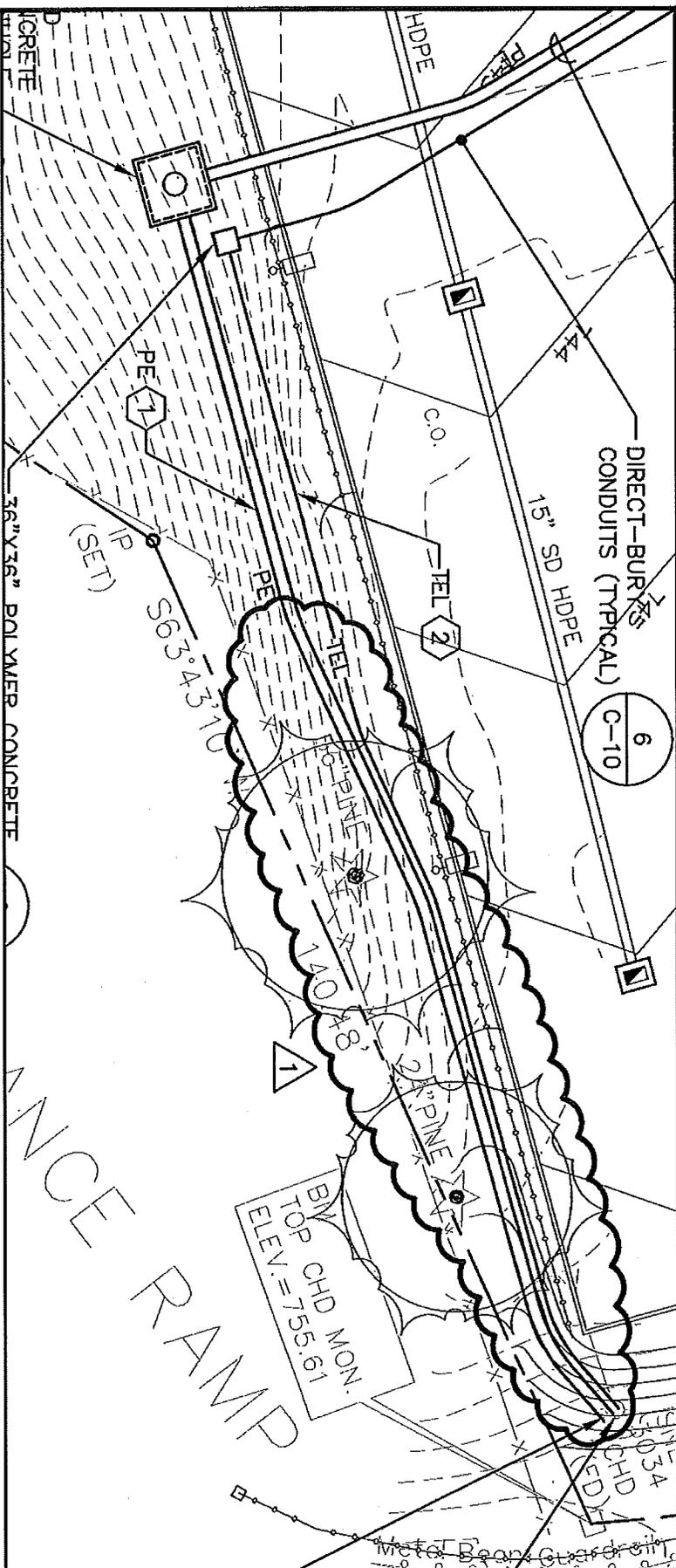
** THE SOUTHERN INVERT FOR SMH02 SHALL BE VERIFIED IN THE FIELD AFTER INTERCEPTING THE EXISTING SANITARY SERVICE PIPE. NOTIFY THE ENGINEER OF THE EXISTING INVERT AND ANY DISCREPANCIES FOUND IN THE FIELD.
 *** THE WESTERN INVERT (NEW SERVICE) SHALL BE PLUGGED UNTIL THE EXISTING SERVICE CAN BE TERMINATED AND THE SOUTHERN INVERT CAN BE PERMANENTLY PLUGGED. THE NORTH AND WEST INVERTS SHALL MATCH.
 THE NEW SERVICE MUST MAINTAIN A MINIMUM SLOPE OF 1% AS REQUIRED BY CODE.



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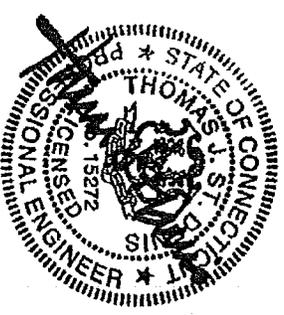
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 ADC-03



1
ADC-04 1" = 20'

CONDUIT ALIGNMENT REVISIONS



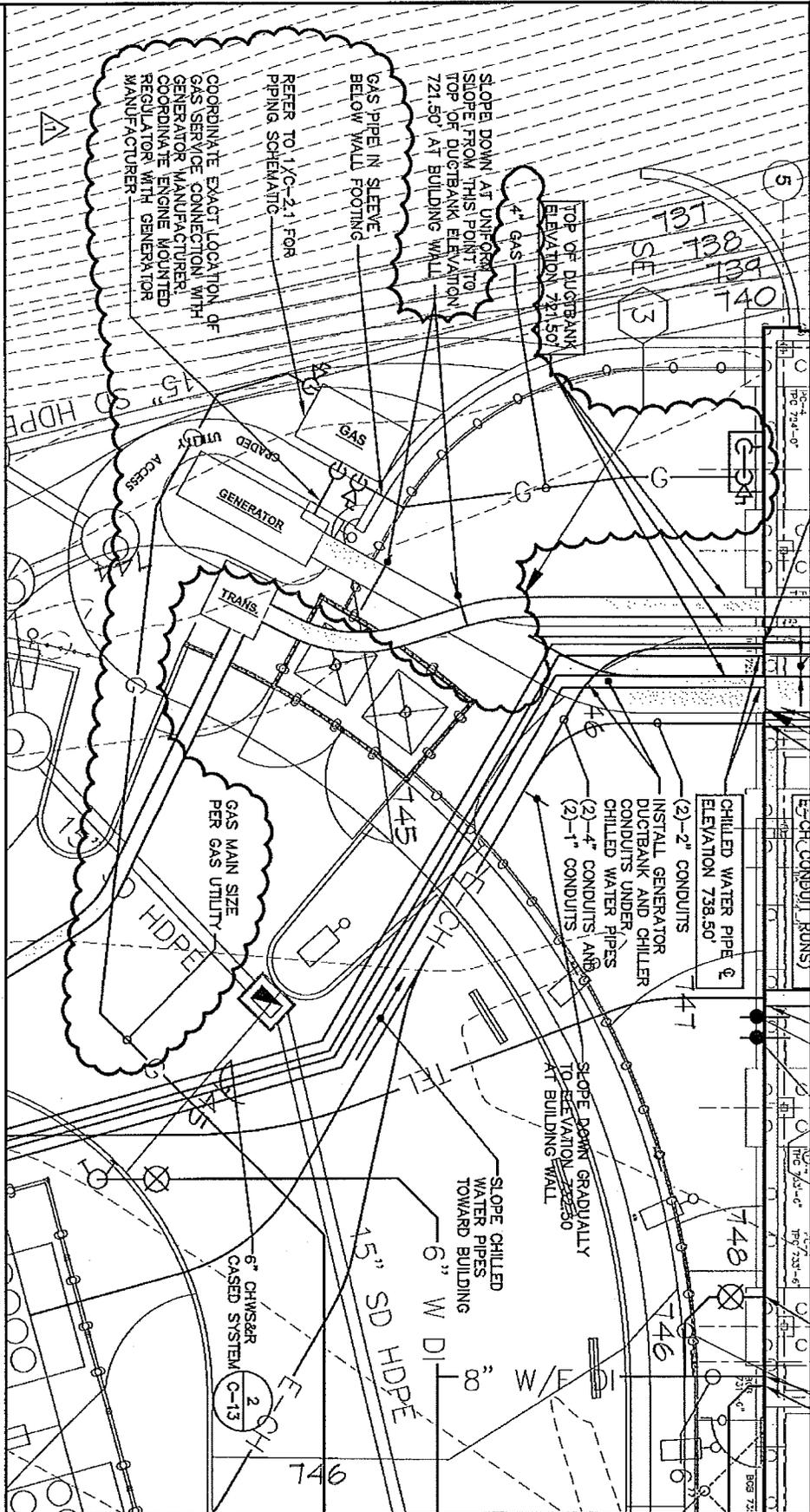
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 ADC-04

1
 ADC-09 1" = 10'

GAS UTILITY EDITS, REVISE GENERATOR LOCATION



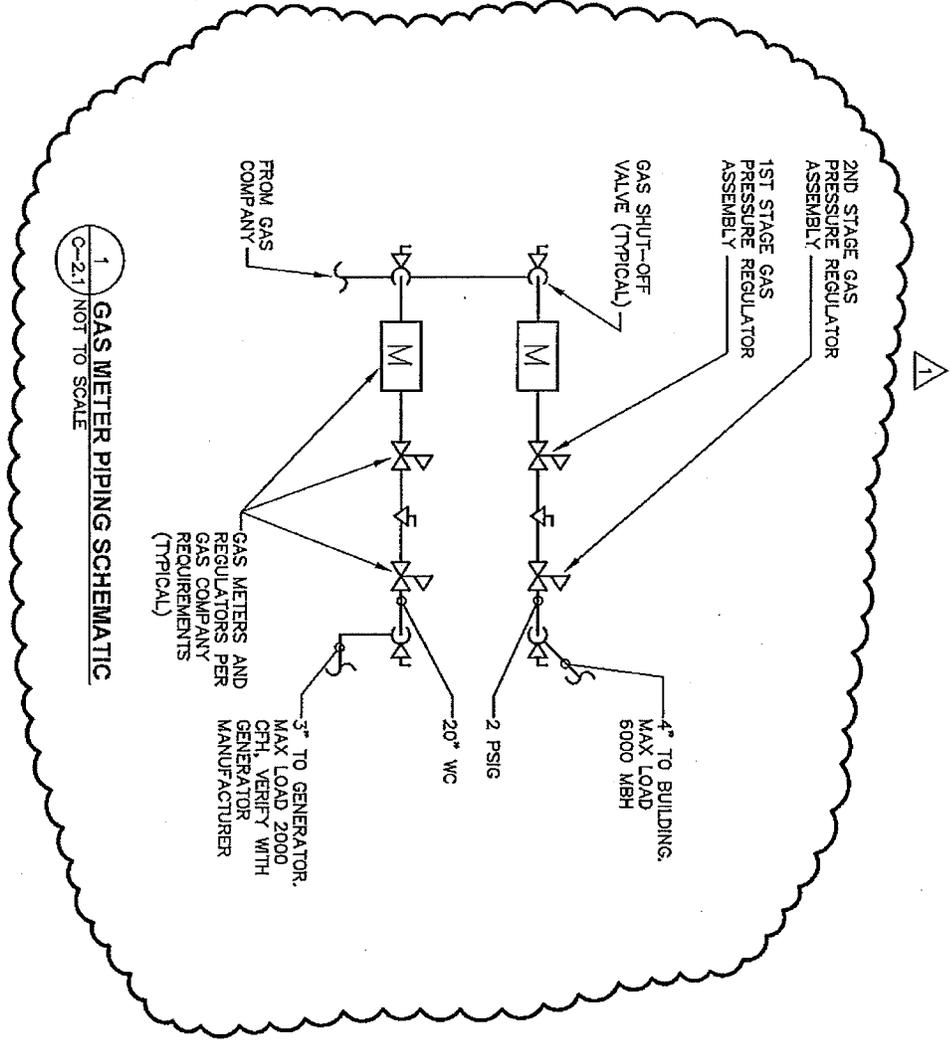
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REVISING DRAWING C-21

1 GAS METER PIPING SCHEMATIC
 ADC-06/ NOT TO SCALE



1 GAS METER PIPING SCHEMATIC
 C-21/ NOT TO SCALE



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		ADC-06

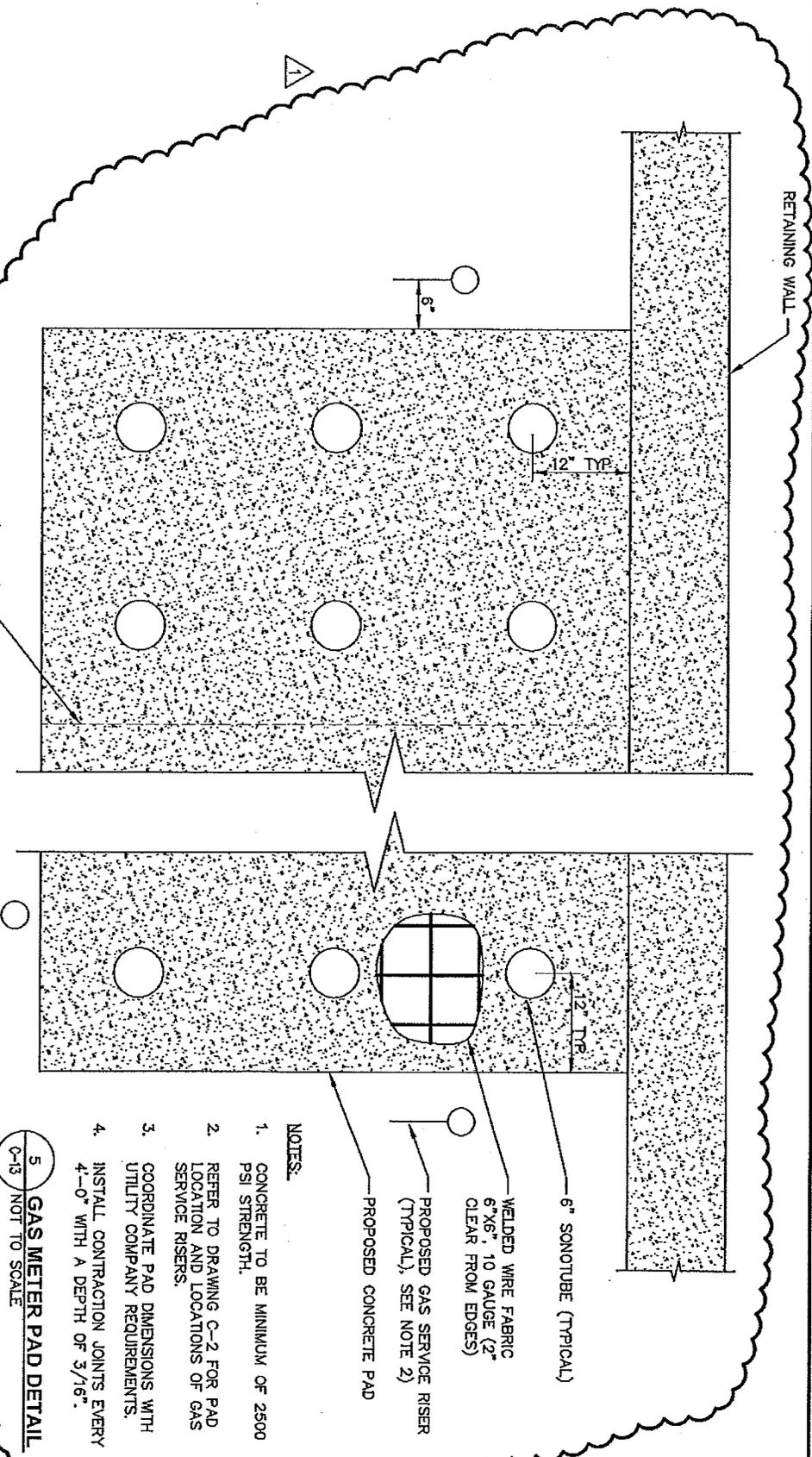
REVISIONS DRAWING C-21

1
ADC-07 NOT TO SCALE

GAS METER PAD DETAIL (PLAN VIEW)

PLAN

CONTRACTION JOINT (NOTE 4)



5
O-13 NOT TO SCALE

GAS METER PAD DETAIL

- NOTES:**
1. CONCRETE TO BE MINIMUM OF 2500 PSI STRENGTH.
 2. REFER TO DRAWING C-2 FOR PAD LOCATION AND LOCATIONS OF GAS SERVICE RISERS.
 3. COORDINATE PAD DIMENSIONS WITH UTILITY COMPANY REQUIREMENTS.
 4. INSTALL CONTRACTION JOINTS EVERY 4'-0" WITH A DEPTH OF 3/16".



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REVISIONS DRAWING C-13

1 GAS METER PAD DETAIL (PROFILE VIEW)

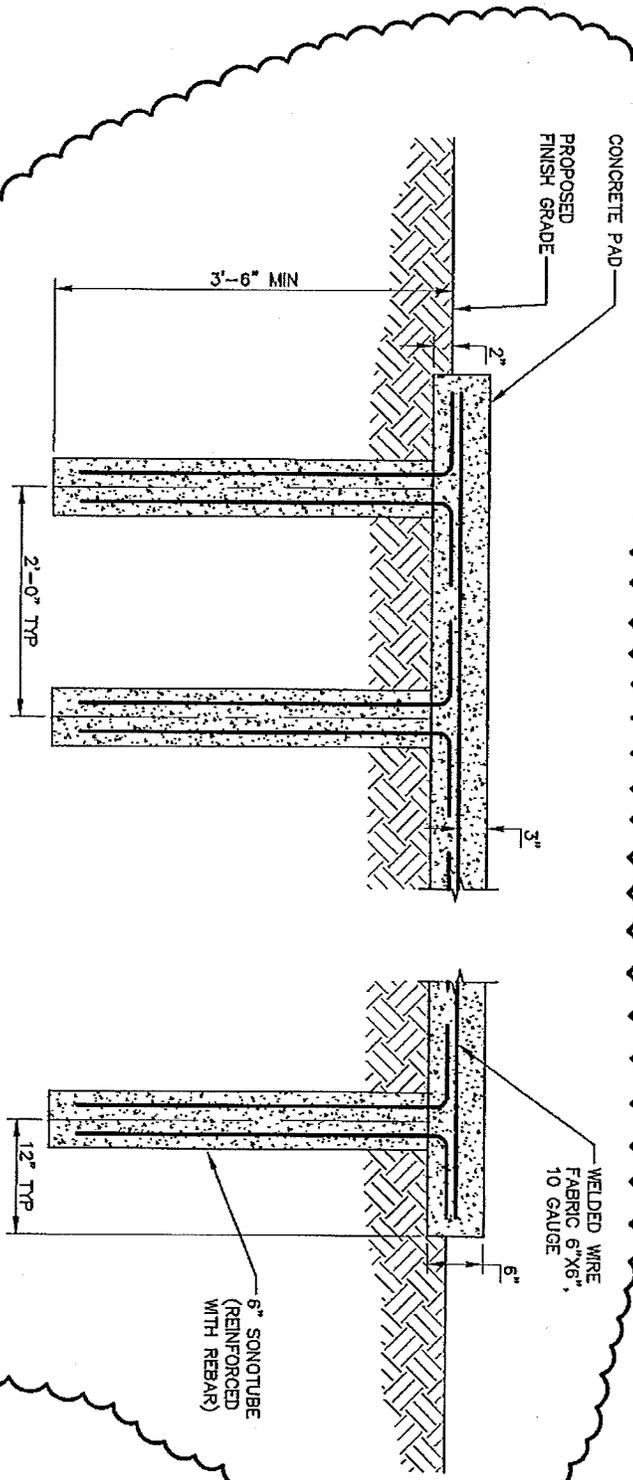
5 GAS METER PAD DETAIL

ADC-08 NOT TO SCALE

C-13 NOT TO SCALE

- NOTES:
1. CONCRETE TO BE MINIMUM OF 2500 PSI STRENGTH.
 2. REFER TO DRAWING C-2 FOR PAD LOCATION AND LOCATIONS OF GAS SERVICE RISERS.
 3. COORDINATE PAD DIMENSIONS WITH UTILITY COMPANY REQUIREMENTS.
 4. INSTALL CONTRACTION JOINTS EVERY 4'-0" WITH A DEPTH OF 3/16".

PROFILE



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REVISIONS DRAWING C-13