DURKEE BROWN VIVEIROS WERENFELS ARCHITECTS

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ADDENDUM TO THE CONTRACT DOCUMENTS

ADDENDUM No.: 2 **DATE :** 8/31/15

PROJECT:	New Town Hall Construction Project 26 Court Street Plymouth, MA	**OWNER:**	Town of Plymouth 11 Lincoln Street Plymouth, MA 02360	**OWNER'S PROJECT MANAGER:**	STV/DPM One Gateway Center 300 Washington Street Suite 951 Newton, MA 02458

The following items will amend the Contract Documents or provide clarification and are to be considered a part of the Bid Documents. Information provided in this addendum supersedes and supplements all portions of the Bid and Construction Documents with which it conflicts.

General:	Description:
Pre-Bid Conference	Refer to the attached sign-in sheet from 8/27/15.
Zinc Flashing & Trim Question	The zinc flashing and trim shown in Architectural Details #26/A501, #25/A501, #24/A501 & #12/A502 not specifically called out as the responsibility of a particular filed sub-bid contractor are the responsibility of the General Contractor.
Staging and Scaffolding Bid Question	Refer to Section 015000 Temporary Facilities and Controls, Paragraph 3.3.M for staging and scaffolding requirements.

Specification:	Description:
Section 00100 Instructions to Bidders	Page 7 - Item #4 - Add Sub-Item h. as follows: "h. Historic Qualifications."
Section 085113 Aluminum Windows	Paragraph 2.3.M.1 - Add Sub-Item b. as follows: "b. Cam handle operators will be acceptable if gear type operators are not available from the window manufacturer."
Section 230000 HVAC	Revise Paragraph 2.11 Air Handing Units, to read as follows: 2.11 AIR HANDLING UNITS (Refer to SECTION 019113 and 230800 COMMISSIONING for additional contract requirements.) A. Casing -Wall and roof panels shall be acoustical type and consist of 2 inch thick dual wall 16 gauge galvanized solid exterior skins and 22 gauge aluminum washdown solid interior skins enclosing 2 inch thick 3 pcf mineral wool insulation. Post and frame panel system is not acceptable. Center wall and fan wall construction shall be 16 gauge aluminum washdown material same as the interior panel construction with a minimum thickness of 2". A painted structural steel base shall support the housing, roll formed bases are not acceptable. The base includes a solid welded, water tight, checkerplate aluminum 12-gauge floor with 6" thick mineral wool insulation. The perimeter of the floor shall have a minimum one inch lip. The bottom face of the insulation shall be protected with a 22 gauge galvanized steel cover. Floor openings shall have perimeter lips turned up into unit and be covered by a protective grate. Lifting lugs shall be welded to the structural base. Unit exterior shall be painted with one coat of Sherwin Williams KEM 400 Alkyd Enamel. The color shall be "SEMCO Gray."

Specification:	Description:
Section 230000 HVAC (Continued)	B. Acoustical performance for both airborne noise transmission and radiated noise transmission shall be as follows: (2' Panels) Octave Band Frequency (Hz) 125 250 500 1000 2000 4000 Min. Absorption Coefficient 0.58 0.93 1.16 1.18 1.15 1.12 1.10 NRC Min. Transmission Loss (dB) 29 35 39 47 51 64 39 STC 1. Thermal performance of panels shall provide for a U-factor of 0.10 for 2" panels. 2. Panel performance data certified by an industry recognized independent acoustical testing laboratory shall be submitted to the engineer to verify that the completed enclosure will meet or exceed the requirements in this specification. Such data shall have been the result of certified independent testing of a representative sample of the manufacturer's regular product in accordance with applicable provisions of the American Society for Testing and Materials Procedures (423-77) and (E90-70). Performance of the enclosure shall not be impaired through prolonged exposure to noise, vibration, pressure or dampness. C. Access: Access shall be provided through large hinged, tightly sealed doors or removable access panels. Access doors shall be constructed of the same materials as the unit casing. Access doors shall be a minimum of 18” wide with a minimum height of 66”. When the unit plenum height is less than 66”, the door shall be no shorter than the plenum height less 12” with the shortest door acceptable being 30” in height. Doors shall be provided with a minimum of two Kason 1061 hinges and two SEMCO H-1 door latches operable from both sides of the door to achieve maximum sealing. All doors shall open against the air pressure. Removable panels shall be provided for heating and cooling coils. D. Fans - Fans shall have a sharply rising pressure characteristic extending through the operating range and continuing to rise beyond the peak efficiency to ensure quire and stable operation. Fans shall have a non-overloading design with self-limiting horsepower characteristics and shall reach a peak in the normal selection area. All fans shall be capable of operating over the minimum pressure class limits as specified in AMCA’s standard 2408-69. 1. Performance - Fans shall be tested in accordance with AMCA 211 and AMCA 311 test codes for air moving devices and shall be guaranteed by the manufacturer to deliver rated published performance levels. Fans shall be licensed to bear the AMCA certified ratings seal for both sound and air. 2. Construction - Fans shall be designed without a scroll type housing and shall incorporate a non-overloading type backward inclined airfoil blade wheel, heavy-gauge reinforced steel inlet plate, structural steel frame, and shaft and bearings in the AMCA Arrangement 3 configuration to form a heavy duty integral unit. 3. Frame and Inlet Plate - Inlet plates shall be of heavy-gauge reinforced steel construction. The inlet plate incorporates a removable spun inlet cone designed for smooth airflow into the accompanying inlet retaining ring of the fan wheel. 4. Fan Wheel - Wheels shall have a spun non-tapered style blade-retaining ring on the inlet side to allow higher efficiencies over the performance range of the fan. The wheels shall be non-overloading type. The blades shall be securely welded, die-formed backward curved (16” and smaller) or airfoil (18” and larger) type. All wheels shall be statically and dynamically balanced on precision electronic balancers to a level of G6.3 (per ANSI 2-19) or better. 5. Shaft - Shafts shall be AISI 1040 or 1045 hot rolled steel, accurately turned, ground, polished, and ring gauged for accuracy. Shafts shall be sized for the first critical speed of at least 1.43 times the maximum speed. All shafts must be dial indicated for straightness after the keyways are cut and straightened as required.

Specification:	Description:
Section 230000 HVAC (Continued)	6. Bearings - Bearings shall be heavy duty, grease lubricated, antifriction ball or roller, self-aligning, pillow block type and selected for a minimum average bearing life (AFBMA L-50) in excess of 200,000 hours at the maximum fan RPM. All bearings shall be equipped with re-greasable zerk fittings and, where necessary, extended lube lines for easy access for re-lubrication. 7. Drive - Motor sheaves shall be cast iron with fixed sheaves. Drives and belts shall be located external to the fan casing and rated for 150% of the required motor HP. 8. Finish and Coating - The entire fan assembly, excluding the shaft, shall be thoroughly degreased and deburred before application of a rust-preventative primer. After the fan is completely assembled, a finish coat of paint shall be applied to the entire assembly. The fan shaft shall be coated with a petroleum-based rust protectant. Aluminum components shall be unpainted. 9. Factory Run Test - All fans prior to shipment shall be completely assembled and test run as a unit at the specified operating speed or maximum RPM allowed for the particular construction type. Each wheel shall be statically and dynamically balanced in accordance with ANSI/AMCA 204-96 “Balance Quality and Vibration levels for Fans” to Fan Application Category BV-3, Balance Quality Grade G6.3. Balance readings shall be taken by electronic type equipment in the axial, vertical, and horizontal directions on each of the bearings. Records shall be maintained and a written copy shall be available upon request. 10. Motors and Guards - Fan motors shall be standard NEMA frame, inverter duty, high premium efficiency, with 1.15 service factor and open drip-proof TEFC enclosures. Protective guards shall enclose rotating fan and drive parts. 11. Seismic Fan Vibration Isolation - Fans assemblies shall have adjustable motor bases, motors and V-belt drives mounted with the assembly mounted on 1 2-inch deflection spring isolators with flexible connections between fan and fan wall. 12. Thrust Restraints - Fans assemblies shall have black type loaded thrust restraints, minimum of two per fan. (Acceptable restraint is Amber-Booth SW1A-500) 13. Fan Speed Control- Variable speed control of both supply and exhaust fans shall be accomplished by the use of variable frequency drives which will be provided by Division 260000. The inverter shall include all digital programming with a manual speed adjustment on the front of the inverter. Control of the inverter shall be as described in the sequence of operation. E. Airflow Measurement - A Piezometer Ring Airflow Measuring System will be included for the supply and exhaust plenum fans. The system consists of a Piezometer ring mounted at the throat and a static pressure tap mounted on the face of the inlet cone. A differential pressure transducer and digital display will also be provided to meet the requirements set forth by the control sequence of operation. The system is to be accurate within +/-5%. See Control Sequence for further definition of operation. F. Enthalpy Recovery Wheel - The rotor media shall be made of aluminum that is coated to prohibit corrosion. All media surfaces shall be coated with a non-migrating solid adsorbent layer prior to being formed into the honeycomb media structure to insure that all surfaces are coated and that adequate latent capacity is provided. The media shall have a flame spread of less than 25 and a smoke developed of less than 50 when rated in accordance with ASTM E87. In addition to the desiccant coating that is applied to the surfaces of the aluminum substrate, the two faces of the total energy recovery wheel shall be covered and sealed with a two part polymer heavy duty coating specifically developed for the selective adsorption of water vapor. The desiccant shall utilize a 3Å molecular sieve certified by the manufacturer to have an internal pore diameter distribution which limits adsorption to materials not larger than the critical diameter of a water molecule (2.8 angstroms). Submit certification by a qualified independent organization documenting equal sensible and latent efficiencies conducted in accordance with

Specification:	Description:
Section 230000 HVAC (Continued)	ASHRAE 84-78P and the results presented in accordance with ARI 1060 standards. An independent wheel test from a credible test laboratory shall document that the desiccant material utilized does not transfer pollutants typically encountered in the indoor air environment. The cross-contamination and performance certification reports shall be provided with the submittal package. 1. Media Cleaning - The media shall be cleanable with low-pressure steam (less than 5 PSI), hot water or light detergent, without degrading the latent recovery. Dry particles up to 800 microns shall pass freely through the media. 2. Purge Sector - The unit shall be provided with a factory set, field adjustable purge sector designed to limit cross contamination to less than .04 percent of that of the exhaust air stream concentration when operated under appropriate conditions. 3. Rotor Seals - The rotor shall be supplied with labyrinth seals only, which at no time shall make contact with any rotating surface of the exchanger rotor face. These multi-pass seals shall utilize four labyrinth stages for optimum performance. 4. Rotor Support System - The rotor media shall be provided in segmented fashion to allow for field erection or replacement of one section at a time without requiring side access. The media shall be rigidly held in place by a structural spoke system made of extruded aluminum. 5. Rotor Housing - The rotor housing shall be a structural framework that limits the deflection of the rotor due to air pressure loss to less than 1/32". The housing is made of galvanized steel to prevent corrosion. The rotor is supported by two pillow block bearings which can be maintained or replaced without the removal of the rotor from its casing or the media from its spoke system. 6. Drive System – The drive system will incorporate a gear-reduction motor with black V-Belt style belting, and idler/tensioner. Drive system shall be constant speed unless otherwise indicated in this specification. 7. Inline Gear-Reduction Motor – Shall include hardened steel, CBN ground Helical gearing for quiet operation and shock load resistance. The motor bearings shall be premium ball type. Lubricant shall be high-grade synthetic grease without necessity of expansion bladder. Shaft seals shall be quality NBR rubber, spring set lip type. Housing seals shall be machine slip fit “O” ring type. Housing shall be die cast aluminum, coated with electro coat process for harsh environment resistance. G. Passive Dehumidification Wheel (not required for AHU-4) - The rotor media shall be made of aluminum that is coated with desiccant and acid resistant coating to prohibit corrosion. The media shall have a flame spread of less than 25 and a smoke developed of less than 50 when rated in accordance with ASTM E-87. Cleaning, purge sector, seals, rotor housing/support and drive system shall be the same as the Enthalpy Wheel. H. Wheel Speed Control- Variable speed control of both Enthalpy and Passive type wheels shall be accomplished by the use of variable frequency drives which will be provided by Division 260000. The inverter shall include all digital programming with a manual speed adjustment on the front of the inverter. The drive system shall allow for a turndown ratio of 80:1 (20 rpm to 1/4 rpm). Control of the inverter shall be as described in the sequence of operation. I. Chilled Water Coils - Primary surface shall be round seamless 5/8 inch O.D. by 0.025 inch thick copper tube on 1.5-inch centers, staggered in the direction of airflow. All joints shall be brazed.

Specification:	Description:
Section 230000 HVAC (Continued)	1. Secondary Surface - Secondary surface shall consist of 0.0075 inch rippled aluminum plate fins for higher capacity and structural strength. Fins shall have full drawn collars to provide a continuous surface cover over the entire tube for maximum heat transfer. Bare copper tube shall not be visible between fins and the fins shall have no openings punched in them to accumulate lint and dirt. Tubes shall be mechanically expanded into the fins to provide a continuous primary to secondary compression bond over the entire finned length for maximum heat transfer rates. 2. Casings - Casings shall be constructed of continuous stainless steel with 3/8" diameter bolt holes for mounting on 6" centers. Coil side plates shall also be of continuous stainless steel of reinforced flange type for greater strength and ease of stacking coils in banks. 3. Coils - Coils shall have equal pressure drop through all circuits. Coils shall be circuited for counter flow heat transfer to provide the maximum mean effective temperature difference for maximum heat transfer rates. The use of internal restrictive devices to obtain turbulent flow will not be acceptable as they prevent complete drawing of the coil and give high water pressure drop. All coils exceeding 45" FL shall be furnished with four fin angles to properly position the coil core 4. Water Headers - Headers on coils shall be of non-ferrous materials using seamless copper tubing. The headers shall have intruded tube holes to provide a large brazing surface for maximum strength and inherent flexibility. Vent connections shall be provided at the highest point to assure proper venting. 5. Connections - The chilled water coil connection will be a copper sweat type. 6. Tests - The complete coil core shall be tested with 315 psig air pressure under warm water and be suitable for operation at 250 psig working pressures. Individual tube tests and core tests before installation of headers shall not be considered satisfactory. Water-cooling coils shall be circuited for drainability. Use of internal restrictive devices to obtain turbulent flow shall not be acceptable. Vents and drains shall be furnished on all water coils. Coils shall be rated in accordance with ARI standard 410. 7. Installation - Coils shall be mounted in galvanized stainless holding racks. Water coil supply and return connections shall be extended to the unit exterior. Water coil drain and vent connections are accessible from the interior of the unit and are not extended. Cooling coils shall be mounted in an insulated pitched 304 stainless steel condensate pan. 8. All coils including primary and secondary surfaces and headers shall have a factory applied corrosion resistant coil coating such as Electrofin e-coat with a flexible epoxy polymer coating process. J. Hot Water Coils - Primary surface shall be round seamless 5/8 inch O.D. by 0.025 inch thick copper tube on 1.5-inch centers, staggered in the direction of airflow. All joints shall be brazed. 1. Secondary surface - Secondary surface shall consist of 0.0075 inch rippled aluminum plate fins for higher capacity and structural strength. Fins shall have full drawn collars to provide a continuous surface cover over the entire tube for maximum heat transfer. Bare copper tube shall not be visible between fins and the fins shall have no openings punched in them to accumulate lint and dirt. Tubes shall be mechanically expanded into the fins to provide a continuous primary to secondary compression bond over the entire finned length for maximum heat transfer rates. 2. Casings - Casings shall be constructed of continuous stainless steel with 3/8" diameter bolt holes for mounting on 6" centers. Coil side plates shall also be of continuous galvanized steel of reinforced flange type for greater strength and ease of stacking coils in banks.

Specification:	Description:
Section 230000 HVAC (Continued)	3. Coils - Coils shall have equal pressure drop through all circuits. Coils shall be circuited for counter flow heat transfer to provide the maximum mean effective temperature difference for maximum heat transfer rates. The use of internal restrictive devices to obtain turbulent flow will not be acceptable as they prevent complete drawing of the coil and give high water pressure drop. All coils exceeding 45" FL shall be furnished with four fin angles to properly position the coil core. 4. Water Headers - Headers on coils shall be of non-ferrous materials using seamless copper tubing. The headers shall have intruded tube holes to provide a large brazing surface for maximum strength and inherent flexibility. Vent connections shall be provided at the highest point to assure proper venting. 5. Connections - The hot water coil connection will be a copper sweat type. 6. Tests - The complete coil core shall be tested with 315 psig air pressure under warm water and be suitable for operation at 250 psig working pressures. Individual tube tests and core tests before installation of headers shall not be considered satisfactory. Water-cooling coils shall be circuited for drainability. Use of internal restrictive devices to obtain turbulent flow shall not be acceptable. Vents and drains shall be furnished on all water coils. Coils shall be rated in accordance with ARI standard 410. 7. Installation - Coils shall be mounted in stainless holding racks. Water coil supply and return connections shall be extended to the unit exterior. Water coil drain and vent connections are accessible from the interior of the unit and are not extended. 8. All coils including primary and secondary surfaces and headers shall have a factory applied corrosion resistant coil coating such as Electrofin e-coat with a flexible epoxy polymer coating process. K. Pre-Filters (return & outside air) - Filters shall be MERV 8. Air filters shall be 2" thick, pleated, disposable type. Each filter shall consist of a non-woven cotton and synthetic fabric media; media support grid and enclosing frame. The filter media shall have an average efficiency of 25-30% on ASHRAE Test Standard. The filter shall be listed by UL as Class 2. A bank of stainless universal holding frames shall be arranged for upstream access. Provisions shall be made on the downstream side of the frames to prevent filter blowout from moisture or overloading. Filter pressure indicators shall be on every bank and shall be Dwyer Magnehelic - std. model 2001LT. L. Final Filtration - High efficiency filters shall be MERV 13, mounted in a final filter frame with 30/30 pre-filters shall be 12" deep, high performance filters, deep pleated, totally rigid and consisting of high density media, media support grip, contour stabilizers, diagonal support bracing and enclosing frame. The media shall have an average efficiency of 85 percent. The filter shall be listed as UL Class 2. M. Outdoor and Exhaust Air Damper - Damper shall have modulating electric actuators with feedback provided by ATC Contractor. 1. Frame - 5 inches x minimum 16-gage (127 x minimum 1.6 mm) roll formed, galvanized steel hat-shaped channel, reinforced at corners, structurally equivalent to 13-gauge (2.3 mm) U-channel. 2. Blades – shall be single skin with 3 longitudinal grooves with Opposed Action. Orientation shall be Horizontal with thrust washers. Blades shall be made of a minimum 16 gage (1.6 mm) equivalent thickness, galvanized steel with a nominal 6-inch width. 3. Bearings - Molded synthetic sleeve, turning in extruded hole in frame. 4. Blade and Jam Seals – Blades shall have Inflatable PVC coated fiberglass material and galvanized steel mechanically attached to blade edge. Jam seals shall be flexible metal compression type. 5. Linkage - Concealed in frame.

Specification:	Description:
Section 230000 HVAC (Continued)	6. Axles - minimum 1/2-inch (13 mm) diameter plated steel, hex-shaped, mechanically attached to blade. 7. Finish - Stainless steel 8. Performance – Damper shall be able to withstand -40 to 200 degrees F (-40 to 93 degrees C). Capacity of damper is to withstand maximum backpressure of 5 inches w.g @ a 12 inch blade length. in the closed position and maximum air velocity of 2,000 fpm in the open position. Leakage shall be a maximum of 3.7 cfm per sq ft at a 1-inch w.g. Blade operation shall be 0.01 in w.g. from start to open, and 0.05-inch w.g. fully open. Pressure drop shall be a maximum of 0.07-inch w.g. at 1,500 fpm across a 24 inch x 24 inch damper. N. Unoccupied/Recirculation Damper - Damper shall be integral to the interior wall of the unit to permit reduced flow of fresh air while maintaining circulation and humidity control within the space. Damper shall have modulating electric actuator with feedback by ATC Contractor. 1. Frame - 5 inches x minimum 16-gage (127 x minimum 1.6 mm) roll formed, galvanized steel hat-shaped channel, reinforced at corners, structurally equivalent to 13-gauge (2.3 mm) U-channel. 2. Blades – shall be single skin with 3 longitudinal grooves with Opposed Action. Orientation shall be Horizontal or Vertical with thrust washers. Blades shall be made of a minimum 16 gage (1.6 mm) equivalent thickness, galvanized steel with a nominal 6-inch width. 3. Bearings - Molded synthetic sleeve, turning in extruded hole in frame. 4. Blade and Jam Seals – Blades shall have Inflatable PVC coated fiberglass material and galvanized steel mechanically attached to blade edge. Jam seals shall be flexible metal compression type. 5. Linkage - Concealed in frame. 6. Axles - minimum 1/2-inch (13 mm) diameter plated steel, hex-shaped, mechanically attached to blade. 7. Finish - Stainless steel 8. Performance – Damper shall be able to withstand -40 to 200 degrees F (-40 to 93 degrees C). Capacity of damper is to withstand maximum backpressure of 5 inches w.g @ a 12 inch blade length in the closed position and maximum air velocity of 2,000 fpm in the open position. Leakage shall be a maximum of 3.7 cfm per sq ft at a 1-inch w.g. Blade operation shall be 0.01 in w.g. from start to open, and 0.05-inch w.g. fully open. Pressure drop shall be a maximum of 0.07-inch w.g. at 1,500 fpm across a 24 inch x 24-inch damper. O. Electrical - Unit shall require a 480-volt (as scheduled), 3 phase, 60 cycle power connection at the main electrical panel. The electrical panel shall be NEMA 3R *For outdoor units delete NEMA 12 and insert:* NEMA 3Rrated and mounted on the unit exterior as shown on the General Arrangement drawings. The electric panel shall consist of a non-fused disconnect, fused inverters IEC full voltage starters for each fan and variable constant speed wheel, control power transformer, and HOA switch for the unit. Electrical panels shall bear an ETL label. 1. All wiring 120 volt and higher and wire size #8 and smaller shall be run in MC cable. All wire size #6 and larger shall be run in EMT. Fan motors requiring wire run in EMT shall have a 2' length of sealtight at the motor junction box. Low voltage wiring shall use plenum cable, installed external to the conduit. Starter coils shall be 24 volt AC for contactors rated 65 amps or less and 120 volt AC for contactors rated greater than 65 amps. Confirm included.

Specification:	Description:
Section 230000 HVAC (Continued)	2. Lights & GFI Receptacle - Vapor tight lights shall be provided in access compartments as shown on the General Arrangement drawing. Lights shall be wired to a single switch on the unit exterior. A GFI receptacle shall be mounted next to the light switch. A separate 120-volt power connection is required at the GFI to provide power to the lights and receptacle. Lights and GFI will be wired line side of the main unit disconnect with its own fused disconnect and step down transformer to provide 120-volt power connection at the GFI receptacle to provide power for the lights and receptacle. P. Controls 1. General – Automatic Temperature controls for AHU unit shall be DDC (direct digital control type). All sensors, actuators, controls shall be provided by the ATC/DDC controls Sub-subcontractor. 2. Refer to Specification 230000 ATC control specification requirements and Control Diagram Drawings for AHU unit control requirements and expanded sequence of operation and required points list. 3. HVAC and ATC Contractors shall coordinate with unit manufacturer to ensure all sequence of operation and control points are achieved with the BMS to complete the specified sequence of operation and points lists. 4. AHU manufacturer shall provide the necessary time and documentation to the ATC sub-subcontractor to provide seamless communication and points to achieve the desired sequence and BMS interface. Q. Warranty - The unit manufacturer shall warrant to the Buyer that for a period of eighteen months from the date of shipment the goods to be delivered to the Buyer shall in all material respects be free from defects in material and workmanship when used in a proper and normal manner. Should any failure to conform to the above appear within eighteen months after the date of shipment, the unit manufacturer shall upon prompt notification thereof during the Warranty Period and confirmation to the unit manufacturer's satisfaction that the goods have been stored, installed, operated and maintained properly and in accordance with standard industry practice, correct the non-conformity at the unit manufacturer's option either by repairing any defective part or parts or by making available at the unit manufacturer's plant a repaired or replacement part. 1. Field Service – A factory trained personnel will provide unit start-up service at the job site. An appointment should be made with the manufacturer and Owner two weeks prior to the required start-up date. 2. Extended wheel warranty - Energy Recovery Wheels shall carry a full parts and labor warranty for (5) years. Warranty shall cover both thermodynamic performance and mechanical operation of the entire rotating assembly except for belts, motor, and A-C inverter. Energy Recovery Wheel manufacturer shall provide field service engineer for start-up adjustment and calibration of controls, and instruction to operating personnel. R. Manufacturers: Subject to compliance with requirements, provide air handling units of one of the following: 1. Semco. 2. Hakon. 3. Innovent. 4. Annex Air. 5. Or Equal.

Drawing No.:	Description:
Civil	
C-10	Replace this drawing in its entirety with the attached revised C-10 drawing sheet.

Drawing No.:	Description:
Landscape	

Drawing No.:	Description:
Landscape	
L1.0	1. Replace the drawing in its entirety with the attached revised sheet. a. Modifications have been made to the Russell Street plaza.
L1.1	1. Replace the drawing in its entirety with the attached revised sheet. a. Enlargement Area A – Layout and Dimension Plan: Modifications have been made to the layout and location of the sloped walkway and addition of a granite step. b. Enlargement Area A - Grading Plan: Modifications of grading have been made to accommodate the new sloped walk and step layout. c. Notes have also been modified to include requirement for shop drawings of salvaged granite walls.
L2.1	Omit details #3,4, 5 and 6. (Details are marked N.I.C.)
L2.2	1. Add "Granite Step Detail" at the Russell Street plaza as shown on attached sketch SKL-001.
L3.0	1. Replace the drawing in its entirety with the attached revised sheet. a. Plant list quantities have been modified. b. Plantings at the South Russell Street and Russell Street plazas have been modified. c. Plantings adjacent to the dumpster enclosure have been eliminated. d. Graphic scale has been modified to reflect the correct scale.

Drawing No.:	Description:
Architectural	
A806	#2 Window Types - New Addition: Revise window types "A1" through "A6" descriptions to read as "single-hung" in lieu of "double hung."

Drawing No.:	Description:
Plumbing	
P201	1. Below Slab Rain Leader piping revisions for Public Toilet Rooms; refer to sketch SKP001. 2. Rain Leader piping revisions for Public Toilet Rooms, Refer to sketch SKP002.

Drawing No.:	Description:
Mechanical	
M106	1. AHU-2 footprint & duct revisions, refer to sketch SKM001. 2. AHU-1, 3 & 4 footprint and duct revisions, refer to sketch SKM-002.
M206	1. DCU – Condenser pipe route revision, refer to sketch SKM003. 2. Mech. Room HHW & CHW revision (1/2), refer to sketch SKM-004. 3. Mech. Room HHW & CHW revision (2/2), refer to sketch SKM-005.
M301	AHU schedule revision, refer to sketch SKM-006.

Drawing No.:	Description:
Electrical	

Drawing No.:	Description:
Electrical	
E001	Add “ARA” Symbols to symbol list. Refer to sketch SKE001.
E002	Revise model/series of fixtures for clarification. Replace with the revised attached sheet.
E100	Bidder Question: Fixture “LSW4” is not found on the Lighting Fixture Schedule on Plan E002. *Response*: Type “LSW4” is a typo, fixture shall be type “LS4” as shown on fixture schedule.
E101	1. Revise ”UC” fixture, refer to sketch SKE006. 2. Remove daylighting sensors, add occupancy sensors, refer to sketch SKE002 & SKE003. 3. Bidder Questions: a. In Room 133 “Facility Maintenance Office” there is a light fixture identified as LR24 but the symbol shows a 2x2 troffer fixture. b. Fixtures RC1W, LP14, and LP18, are not found on the Lighting Fixtures Schedule on Plan E002. c. In Room 114 “Copy”; There is a light fixture symbol “UC” but no light fixture to measure. Please clarify light fixture size. *Response* a. Fixtures in rooms 133 and 134 shall be type “LR22” in line of “LR24” shown on drawings. b. “RC1W” is on the lighting fixtures schedule, “LP18” shall be type “LP8” and “LP14” is the same as “LP8” only an A4 foot length. “LP8/” = Philips #7806LCCQG087UNVEW. “LP4” = Philips #7806LCCQ047UNVEW. c. UC fixture to be 10’-0” mounted under cabinet, circuited to LP1-7.
E102	Revise lighting plan, see SKE004.
E103	1. Bidder Question: Fixture symbol “UC” located near the intersection of “K” and “5” doesn’t have a corresponding fixture on the plan. Please clarify the length of the fixture. *Response*: Fixture “UC” runs the length of the cabinet, +/- 20’-0” total (1@6’-0”, 1@14’-0”). 2. Revise “UC” and add (1) “LR22” fixture, see SKE002.
E200	Add “ARA” phone, refer to sketch SKE001.
E201	Add “SPR” station, refer to sketch SKE-001.
E202	Add “ARA” phones, refer to sketch SKE001.
E203	Add “ARA” phone, refer to sketch SKE-001.
E204	Add “ARA” phone, refer to sketch SKE-001.
E306	Revise conduit riser and AHU units, see SKE005, SKE007, SKE008, SKE009 & SKE010.
TC001	Add “ARA” phone, refer to sketch SKTC001.
TC100	Add “ARA” phone, refer to sketch SKTC001.
TC101	Add “SRP” station, refer to sketch SKTC001.
TC102	Add “ARA” phone, refer to sketch SKTC001.
TC103	Add “ARA” phone, refer to sketch SKTC001.
TC104	Add “ARA” phone, refer to sketch SKTC001.
TC300	Add smart rescue base station wring diagram, refer to sketch SKTC002.

Attachments:

Pre-Bid Conference Walk-Thru Sign-In Sheet, dated 8/27/15.

Sketch SKL001 "Granite Step at Russell St. Plaza," dated 8/28/15.
Drawing L1.0 "Landscape Plan," dated 8/28/15.
Drawing L1.1 "Landscape Enlargement Plans", dated 8/28/15.
Drawing L2.1 "Landscape Details Sheet 2," dated 8/28/15
Drawing L3.0 "Landscape Plan," dated 8/28/15.
Drawing C-10 "Post Phase I Site Grading Plan," dated 8/28/15.

SKP001 "Basement Plan Plumbing," dated 8/28/15.
SKP002 "First Floor Plan Plumbing," dated 8/28/15.

SKM-001 "AHU-2 Footprint and Duct Revisions," dated 8/28/15.
SKM-002 "AHU-1, 3 & 4 Footprint & Duct Revisions," dated 8/28/15.
SKM-003 "DCU Condenser Pipe Route Revision," dated 8/28/15.
SKM-004 "Mech Room HHW & CHW Revision (1/2)," dated 8/28/15.
SKM-005 "Mech Room HHW & CHW Revision (2/2)," dated 8/28/15.
SKM-006 "AHU Schedule Revision," dated 8/28/15.

SKE001 "Power Plan Revisions," dated 8/28/15
SKE002 "First Floor Lighting Revision," dated 8/28/15.
SKE003 "First Floor Lighting Revision," dated 8/28/15.
SKE004 "Second Floor Lighting Revision," dated 8/28/15.
SKE005 "Revised Telecommunications Conduit Riser," dated 8/28/15.
SKE006 "Revised Lighting Plans," dated 8/28/15.
SKE007 "Revised AHU-1," dated 8/28/15.
SKE008 "Revised AHU-2," dated 8/28/15.
SKE009 "Revised AHU-3," dated 8/28/15.
SKE010 "Revised AHU-4," dated 8/28/15.

Drawing E002 "Lighting Fixture Schedule & Details," dated 8/28/15.

SKTC001 "Technology Plan Revisions," dated 8/28/15.
SKTC002 "ARA Phone Base Station Wiring Diagram," dated 8/28/15

End of Addendum No. 2

PLYMOUTH
SIGN-IN SHEET

8/27/15

Peter Nowak	GTA Construction
NICK BEAN	GLANTONIO
ANNIE ROTONDI	WHITING-TURNER
Tim Costa	Costa Bros
Scott Bernstein	Cogswell Sprinkler
Edwin Chan	Dell Grock / TK Sanitan
John Costello	Costello Drafting
Joel Kent	Fontaine Bros.
Dan Wall	Garland / IMETCO
Steve Bratt	BRATT BUILDERS
Tyson Mello	Sparkler Co. Inc

Notes:

1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK AS INDICATED ON THIS PLAN INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT.
2. PROPOSED CONTOURS (SHOWN IN FULL TONE) ON THESE PLANS REPRESENT DESIGN ELEVATIONS AT THE COMPLETION OF DEMOLITION. THESE ELEVATIONS HAVE NOT BEEN FIELD VERIFIED AS CURRENT CONDITION.
3. THIS PLAN DOES NOT INCLUDE UTILITY WORK COMPLETED BY THE TOWN OF PLYMOUTH IN 2015.
4. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR IT'S REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS.
5.
6. EXISTING WATER SERVICES TO THE PROPERTIES HAVE BEEN CUT AND CAPPED BY THE TOWN OF PLYMOUTH.
7. EXISTING GAS AND ELECTRIC SERVICES HAVE BEEN TERMINATED BY EVERSOURCE AT THE REQUEST OF THE OWNER. CONTRACTOR SHALL VERIFY THAT THE BUILDING SERVICES HAVE BEEN TERMINATED AS SHOWN ON THE SITE DEMO PLAN.
8. BASE PLAN: THE PROPERTY LINES, TOPOGRAPHY AND PHYSICAL FEATURES SHOWN WERE TAKEN FROM AN AUTOCAD DRAWING FILE NAMED AND EXISTING CONDITIONS 1820 COURT HOUSE CORRIDOR DATED JUNE 8, 2013 PROVIDED BY THE OWNER.

Document Use

1. THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.

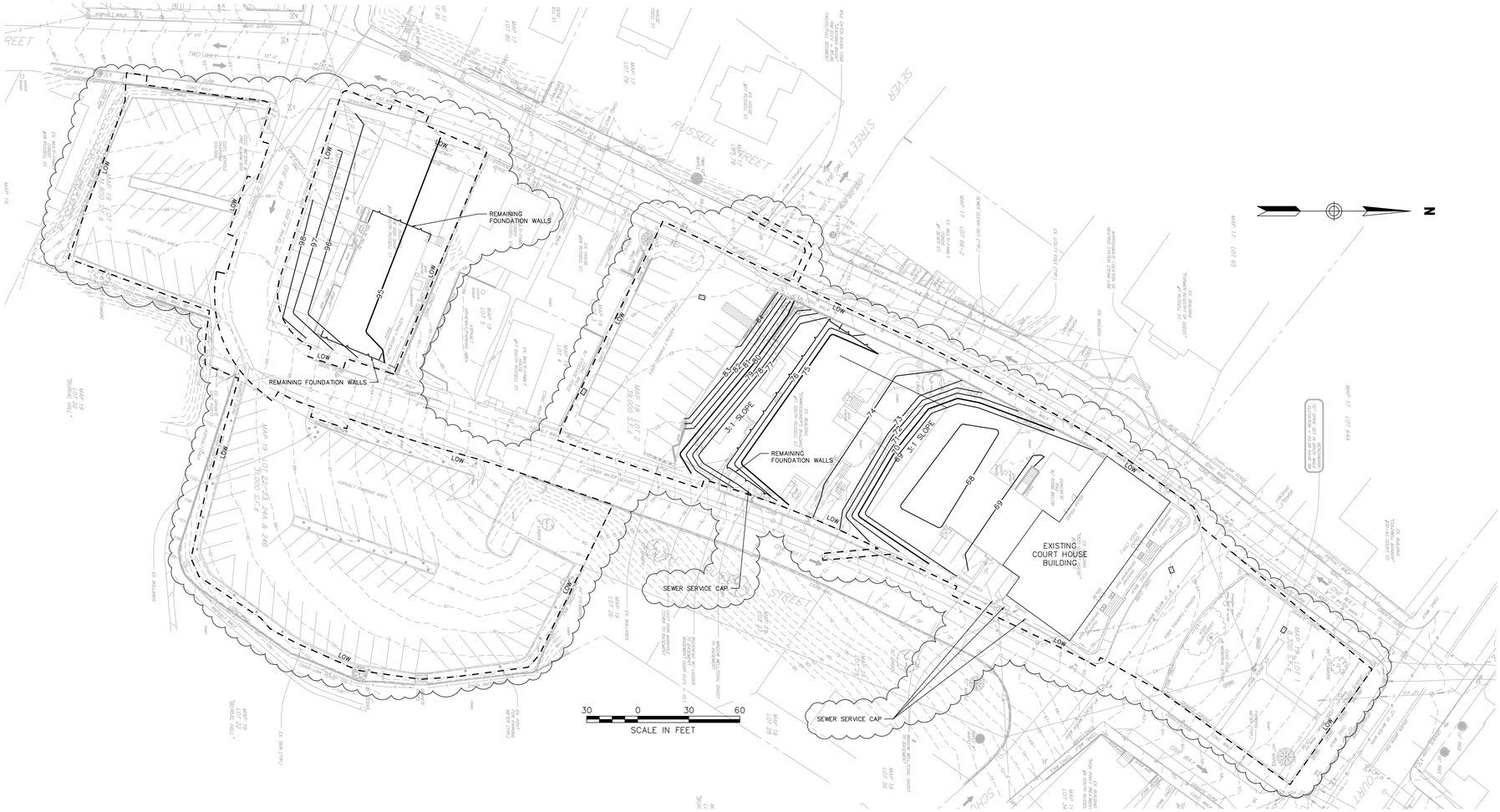
Phase 1 Fill Material

1. COMPACTED GRANULAR FILL SHALL CONSIST OF WELL GRADED, SANDY GRAVEL OR GRAVELLY–SNAD FREE OF ORGANIC MATERIAL, LOAM, TRASH, SNOW, ICE, FROZEN SOIL, OR OTHER DELETERIOUS MATERIAL, AND SHALL BE GRADED WITHIN THE FOLLOWING LIMITS:

SIEVE SIZE	% FINER BY WEIGHT
3 INCHES	100
NO. 4	30–95
NO. 40	10–50
NO. 200	0–8

PLACE GRANULAR FILL IN 9–INCH THICK MAXIMUM LOOSE LIFTS AND COMPACT TO A DRY DENSITY OF AT LEAST 92% OF THE MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D–1557.

SUBMIT GRAIN SIZE DISTRIBUTION TEST DATA AND MOISTURE DENSITY TEST DATA TO THE ENGINEER FOR APPROVAL. PRIOR TO BRINGING FILL MATERIAL ON–SITE.



REFERENCE DRAWING ONLY

THE PURPOSE OF THIS PLAN IS FOR REFERENCE TO WORK COMPLETED AS PART OF THE PHASE I DEMOLITION. THESE PLANS ARE BASED ON DESIGN PREPARED FOR BUILDING DEMOLITION AND DO NOT REPRESENT AN AS–BUILT OR SURVEY OF POST DEMOLITION CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS.

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Providence, Rhode Island 02903
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PHASE I DEMOLITION

PLYMOUTH, MA

TOWN OF PLYMOUTH

11 LINCOLN ST.
PLYMOUTH, MA 02360

NO	DATE	BY	DESCRIPTION
2	8/28/15	JS	CLARIFICATIONS

DATE: 10/31/2014

DRAWN BY: kc

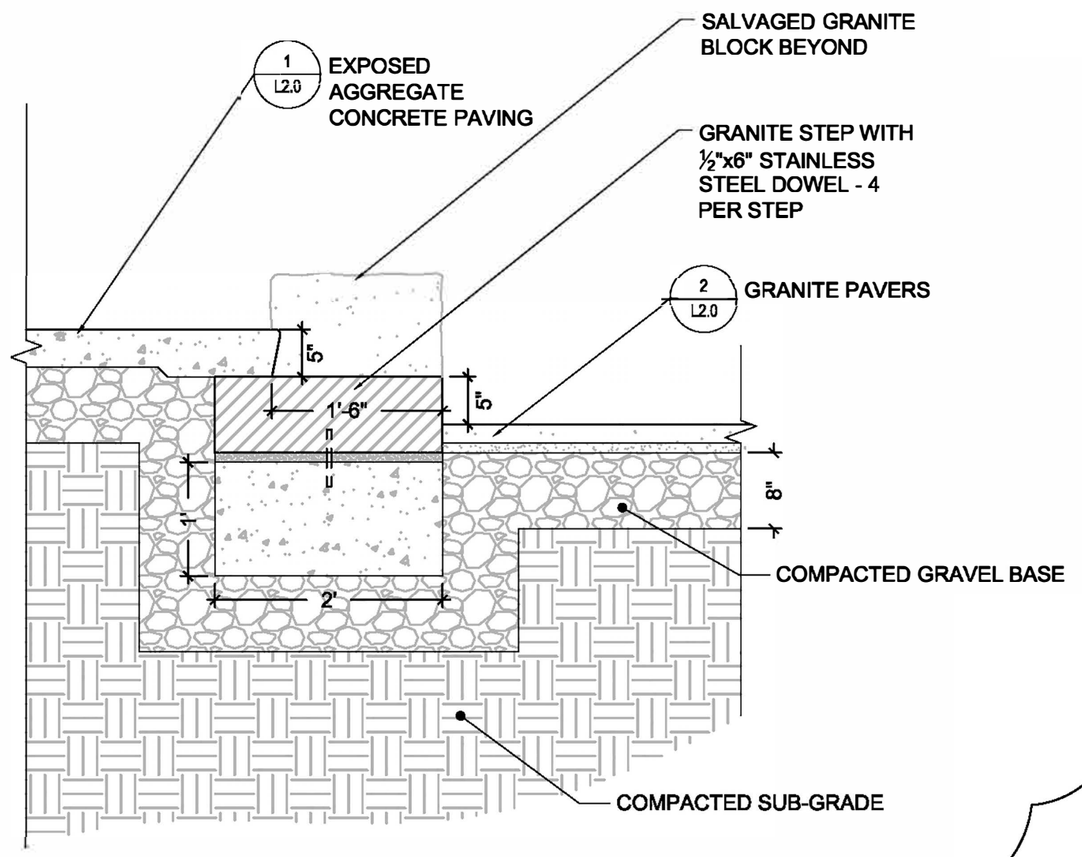
JOB NO: 1420

SCALE:

POST PHASE I SITE GRADING PLAN

C-10

REFERENCE



GRANITE STEP

SCALE: 3/4"=1'

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TOWN OF PLYMOUTH
11 LINCOLN ST.

PLYMOUTH, MA 02360

SCALE:	3/4" = 1'
DRAWN:	TB
JOB NO:	1420

PHASE II: PLYMOUTH TOWN HALL
PLYMOUTH, MA

GRANITE STEP AT RUSSELL ST. PLAZA

ISSUED FOR:	ADDENDUM 2
DATE ISSUED:	8/28/15
REVISION DATE:	

SKL001

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N

STREET

TREET

TWO WAY

6' DIA.

ONE WAY

STOP

6' DIA.

CONCRETE PAVING SEE CIVIL ENGINEERING PLANS

RUSSELL STREET

SEWER

STREET TWO WAY

GRANITE STEPS 1 L2.1

BRONZE STAIR RAIL 2 L2.2

12 L2.0 GRANITE CAP "TYPE A"

4 L2.0 GRANITE LANDSCAPE EDGE TYP.

ENLARGEMENT C 1 L1.2

1 L2.0 EXPOSED AGGREGATE CONCRETE PAVING (TYP.)

12 L2.0 GRANITE CAP "TYPE A"

ADD 2

CONCRETE PAVING SEE CIVIL ENGINEERING PLANS

SAWCUT

PROPOSED TOWN HALL

13 L2.0 GRANITE CAP "TYPE B"

ENLARGEMENT A 1.2 L1.1

4 L2.0 GRANITE LANDSCAPE EDGE TYP.

1 L2.0 EXPOSED AGGREGATE CONCRETE PAVING (TYP.)

BIKE RACK 5 L2.1

GRANITE LANDSCAPE EDGE TYP. 4 L2.0

SALVAGED GRANITE BLOCK "TYPE D" 3 L2.1

BLOCK 39 R

BLOCK 43 R

SOUTH RUSSELL STREET

ENLARGEMENT B 3.4 L1.1

FIRST FLOOR

ENLARGEMENT D 1 L1.3

TBD* (IN)

EXPOSED AGGREGATE CONCRETE PAVING (TYP.) 1 L2.0

4 L2.0 GRANITE LANDSCAPE EDGE TYP.

ONE WAY

SCALE IN FEET

0 10 20 40 80

20'-0

PHASE II
PLYMOUTH TOWN HALL
PLYMOUTH, MA

TOWN OF PLYMOUTH

11 LINCOLN ST.
PLYMOUTH, MA 02360

NO	DATE	BY	DESCRIPTION
1	8/28/15	TB	ADDENDUM 2

DATE: JULY 29, 2015

DRAWN BY: JL

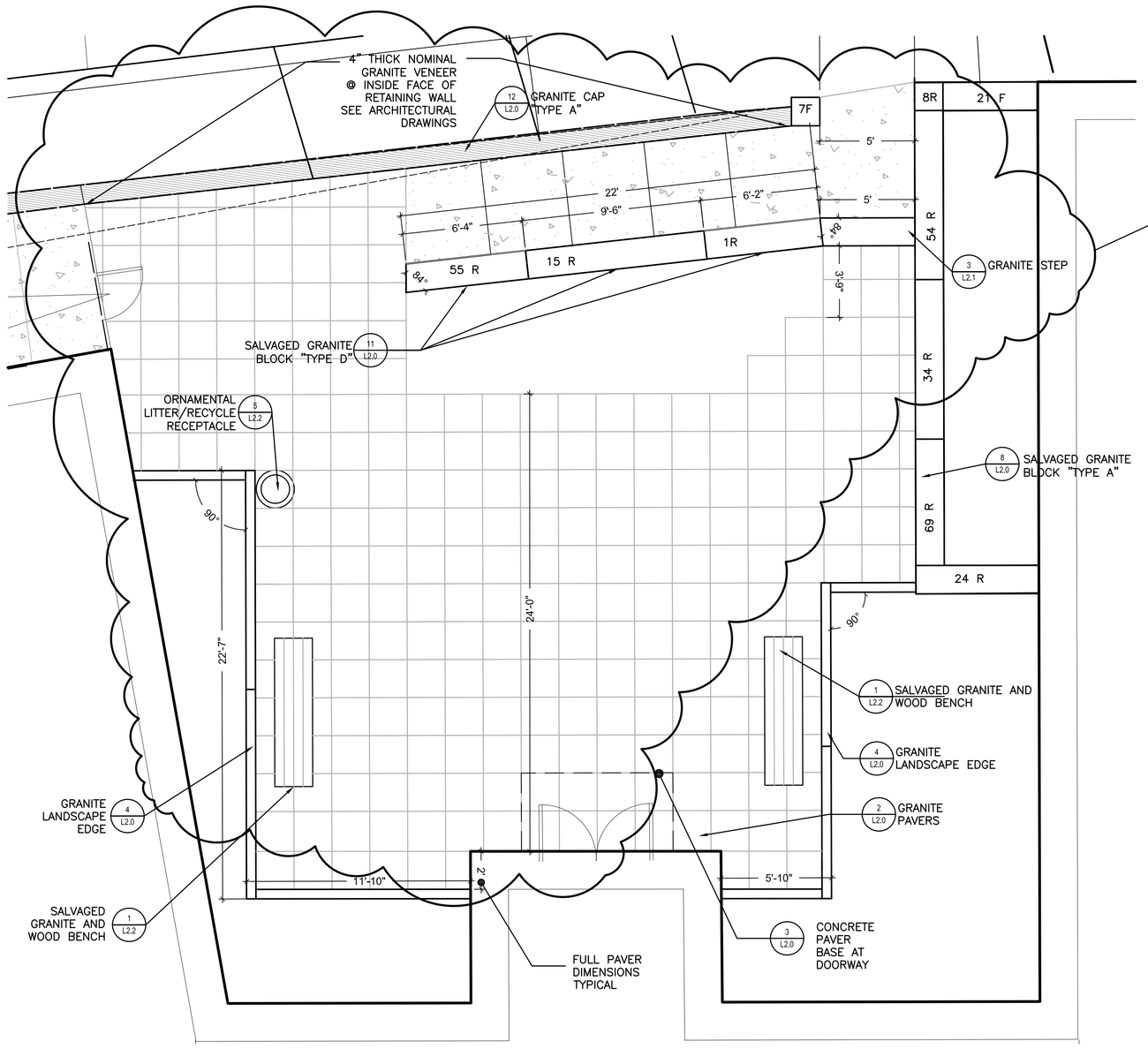
JOB NO: 1420

SCALE: 1"=20'-0

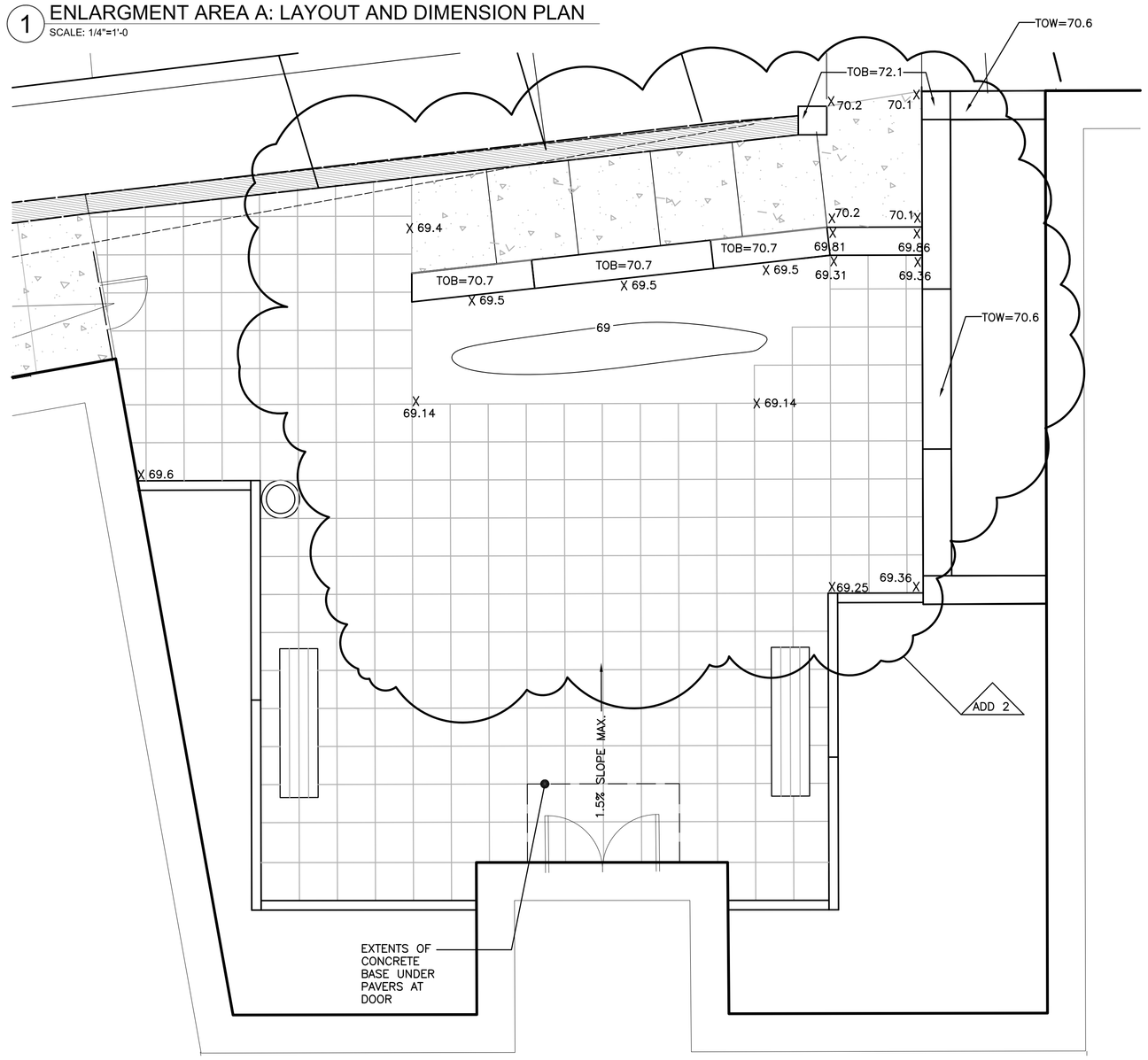
LANDSCAPE PLAN

L1.0

BID AND CONSTRUCTION



1 ENLARGMENT AREA A: LAYOUT AND DIMENSION PLAN
SCALE: 1/4"=1'-0



2 ENLARGMENT AREA A: GRADING PLAN
SCALE: 1/4"=1'-0

NOTES:

REFER TO 1820 COURTHOUSE PROJECT GRANITE INVENTORY FOR ALL BLOCK NUMBERS AND SIZES AND FINISHES.

ALL GRANITE LANDSCAPE EDGE SHALL BE OFFSET A MINIMUM OF 6" AWAY FROM BUILDING CORNERS.

REFER TO SHEET L2.1 FOR MONOLITHIC GRANITE WALL DETAILS AND PLAN.

CONTRACTOR SHALL NOT SCALE FROM PLANS FOR FABRICATION. CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY.

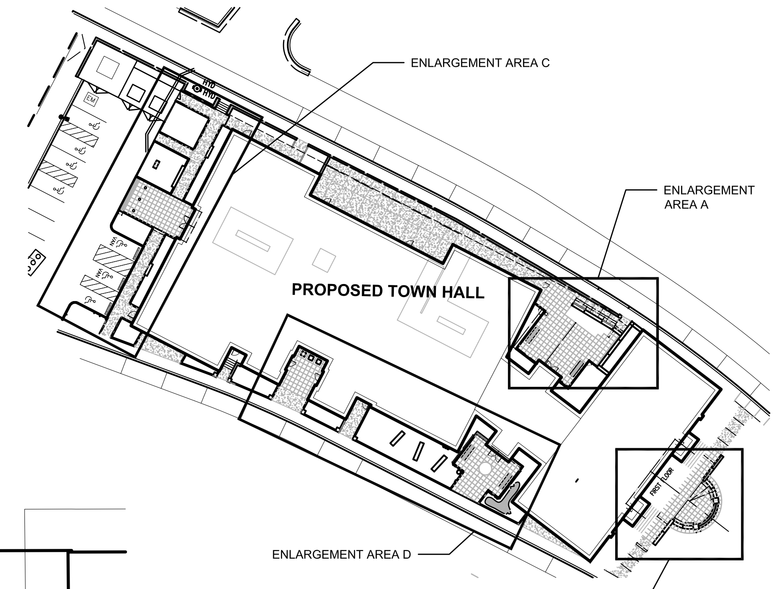
NOTE: CONTRACTOR SHALL FIELD VERIFY ALL DIMENSION OF SALVAGED GRANITE BLOCKS AND LANDSCAPE EDGE.

CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL SALVAGED GRANITE WALLS

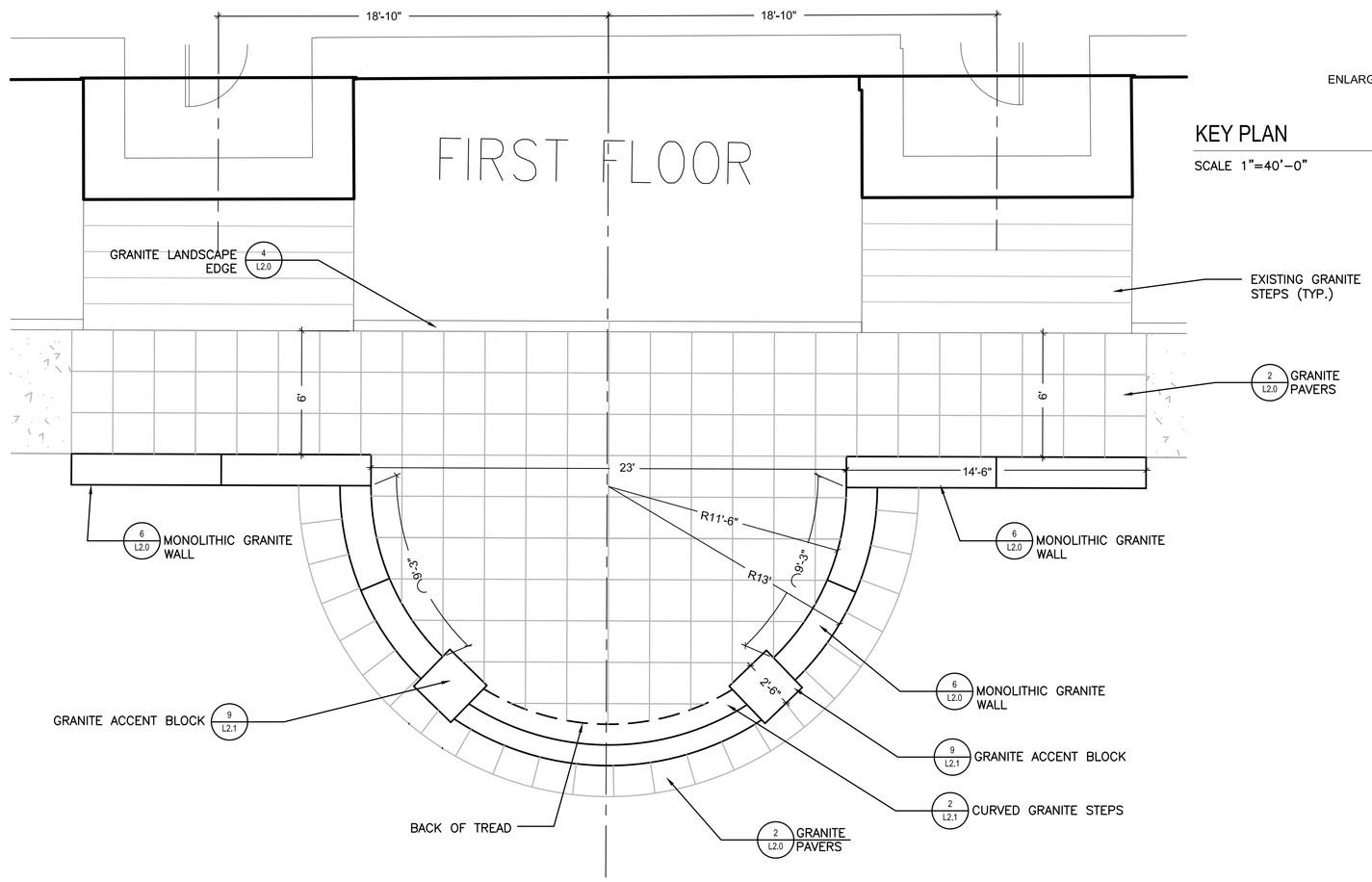
LEGEND:

TOB=	TOP OF BLOCK
TOW=	TOP OF WALL
–71.0–	CONTOUR
XX F	FLAT FACED BLOCK REFERENCE NO.
XX R	ROUGH FACE BLOCK REFERENCE NO.

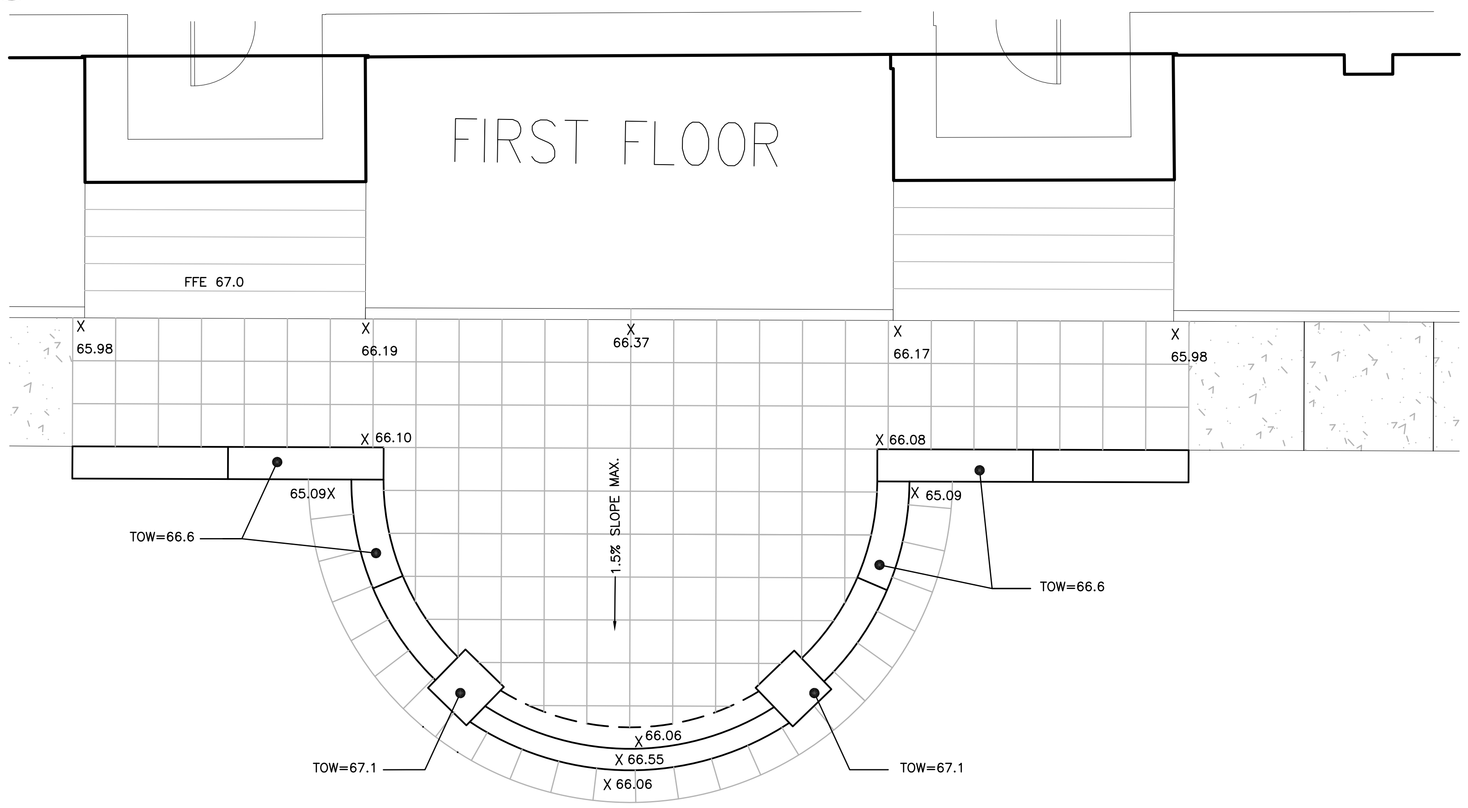
ADD 2



KEY PLAN
SCALE 1"=40'-0"



3 ENLARGMENT AREA B: LAYOUT AND DIMENSION PLAN
SCALE: 1/4"=1'-0



4 ENLARGMENT AREA B: GRADING PLAN
SCALE: 1/4"=1'-0

SCALE IN FEET
0 2 4 8 16
1/4"=1'-0

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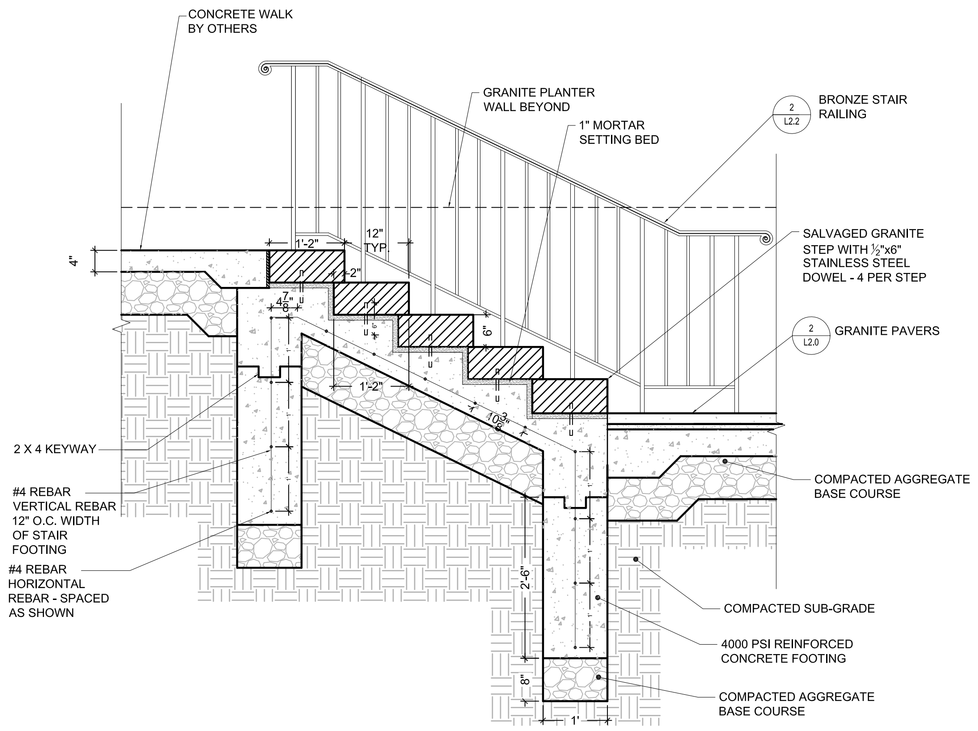
NO	DATE	BY	DESCRIPTION
1	8/28/15	TB	ADDENDUM 2

DATE: JULY 29, 2015
DRAWN BY: JL
JOB NO: 1420
SCALE: 1"=20'-0

LANDSCAPE ENLARGEMENT PLANS

L1.1

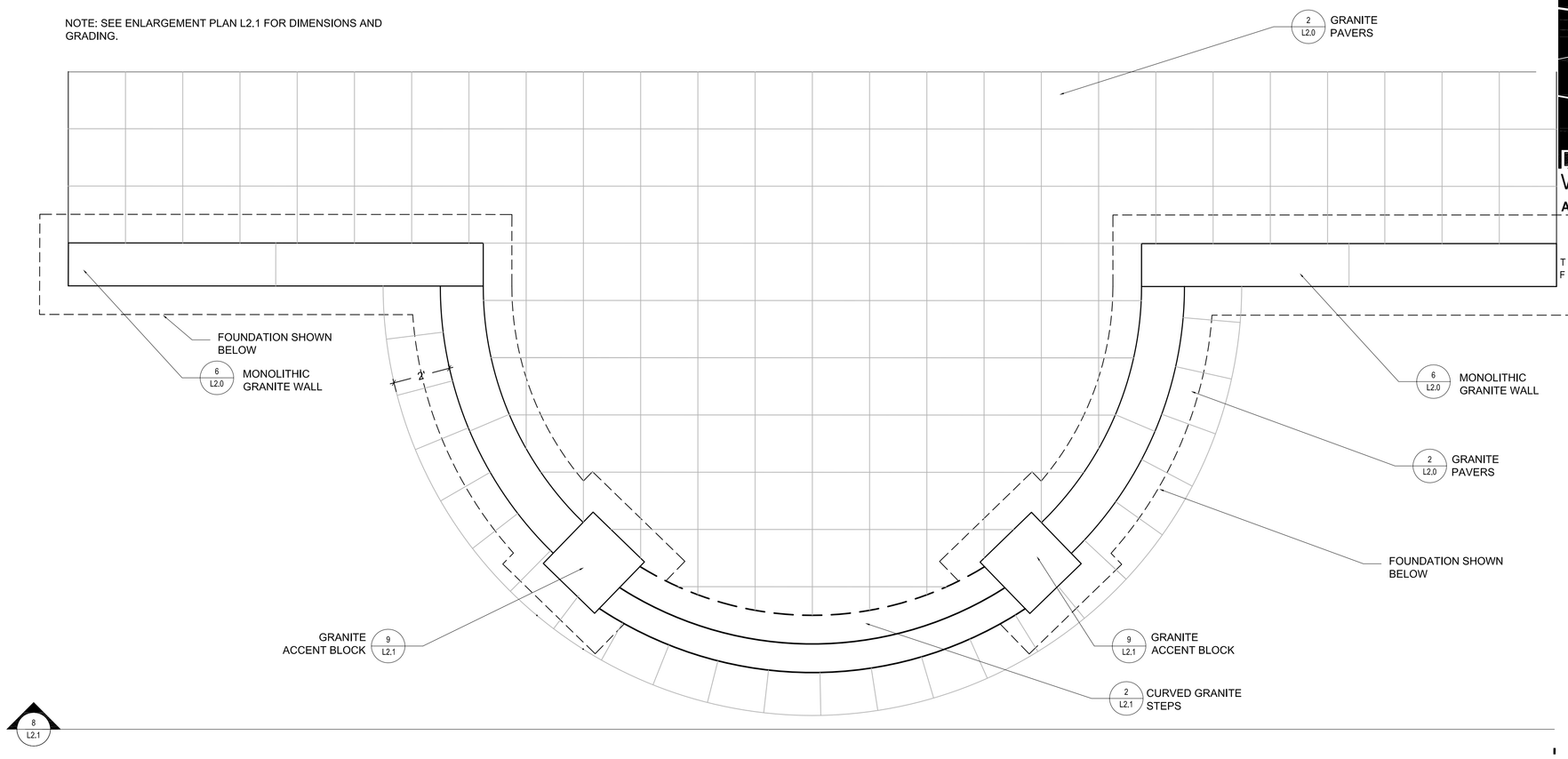
BID AND CONSTRUCTION



NOTE:
1. GRANITE TREADS SHALL HAVE A THERMAL FINISH ALL SIDES.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS.
3. CONTRACTOR TO VERIFY TREAD HEIGHTS WITH GRADING PLAN PRIOR TO CONSTRUCTION

1 GRANITE STEPS
SCALE: 3/4"=1'

NOTE: SEE ENLARGEMENT PLAN L2.1 FOR DIMENSIONS AND GRADING.



7 MONOLITHIC GRANITE WALL AND STEPS PLAN
SCALE: 3/8"=1'

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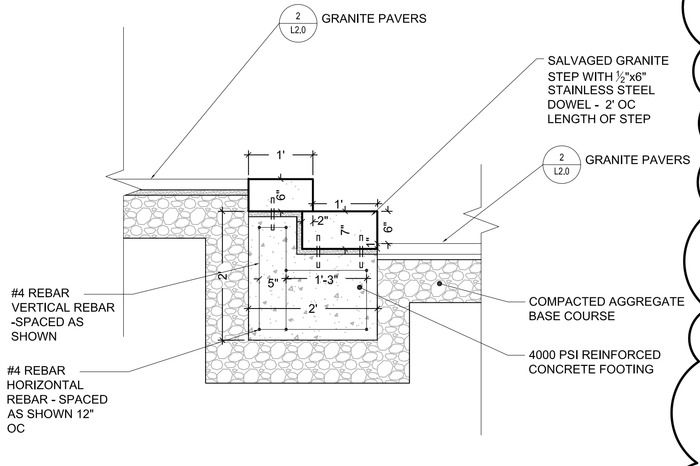
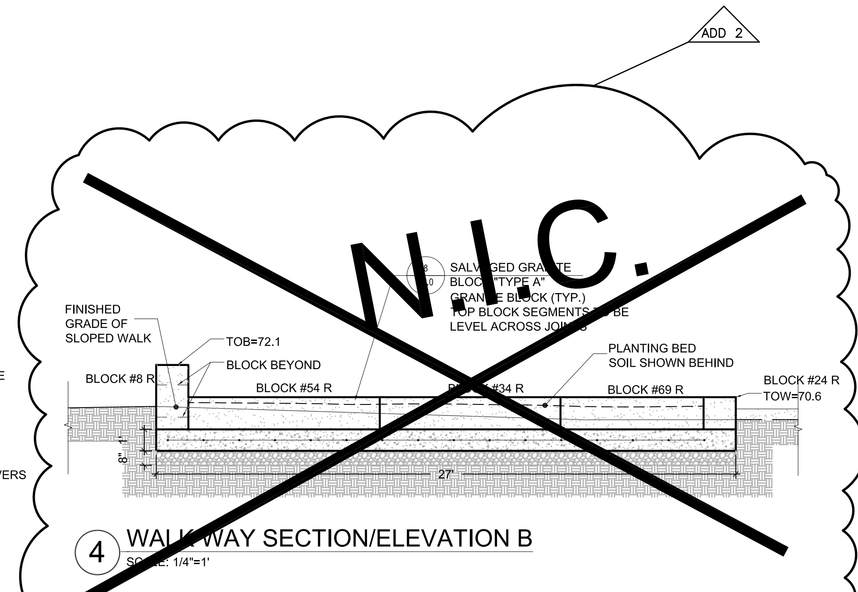
NOTE:
1. GRANITE TREADS SHALL HAVE A THERMAL FINISH ALL SIDES.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS.
3. CONTRACTOR TO VERIFY TREAD HEIGHTS WITH GRADING PLAN PRIOR TO CONSTRUCTION



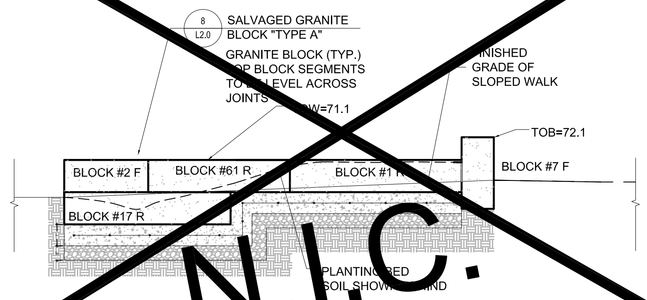
2 CURVED GRANITE STEPS
SCALE: 3/4"=1'

N.I.C.



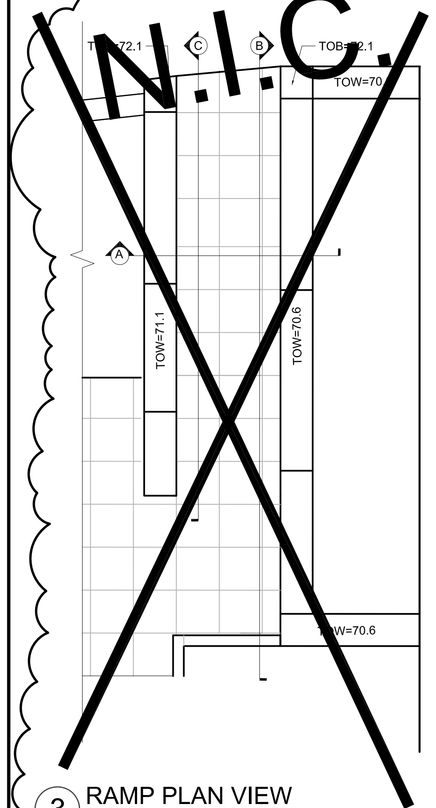
4 WALK WAY SECTION/ELEVATION B
SCALE: 1/4"=1'

N.I.C.



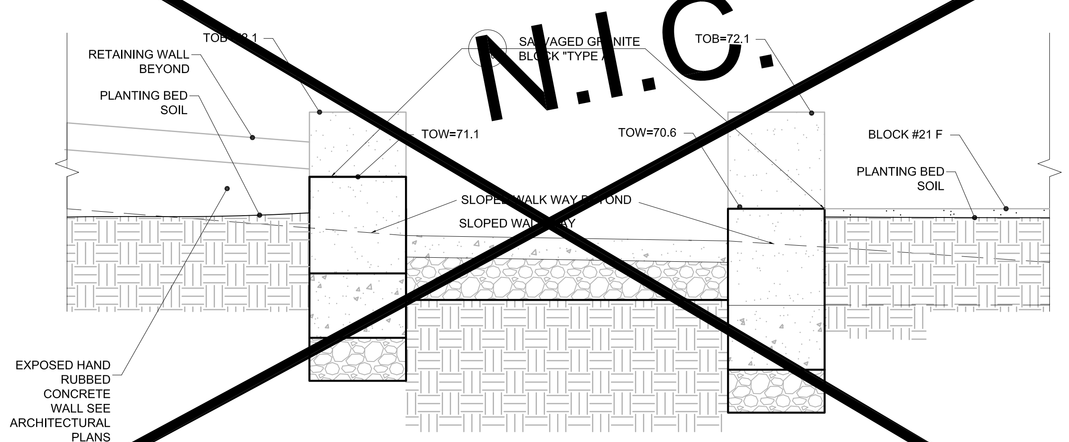
5 WALK WAY SECTION/ELEVATION C
SCALE: 1/4"=1'

N.I.C.



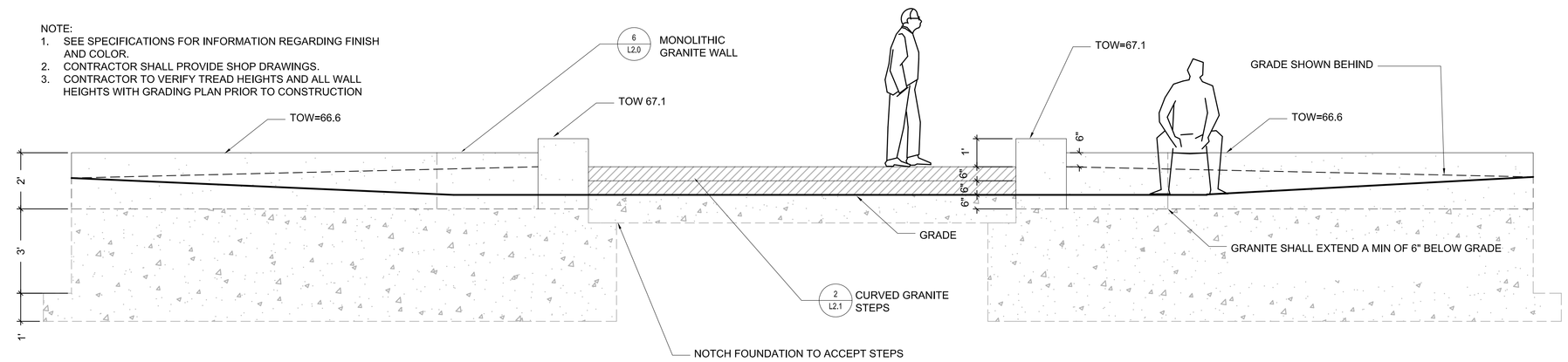
3 RAMP PLAN VIEW
SCALE: 1/4"=1'

N.I.C.

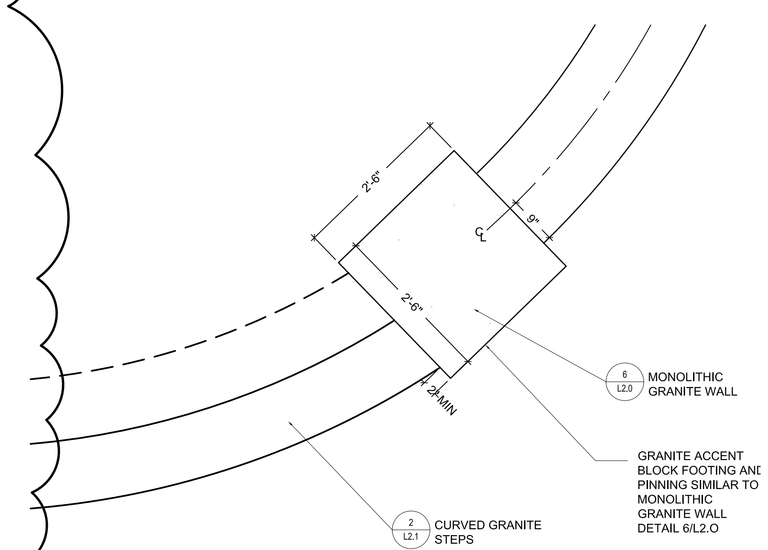


6 GRANITE WALL SECTION A
SCALE: 3/4"=1'

NOTE:
1. SEE SPECIFICATIONS FOR INFORMATION REGARDING FINISH AND COLOR.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS.
3. CONTRACTOR TO VERIFY TREAD HEIGHTS AND ALL WALL HEIGHTS WITH GRADING PLAN PRIOR TO CONSTRUCTION



8 MONOLITHIC GRANITE WALL AND STEPS ELEVATION
SCALE: 3/8"=1'



9 GRANITE ACCENT BLOCK
SCALE: 3/4"=1'

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TOWN OF PLYMOUTH

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NO	DATE	BY	DESCRIPTION
1	8/28/15	TB	ADDENDUM 2

DATE: JULY 29, 2015
DRAWN BY: JL
JOB NO: 1420
SCALE: 1"=20'

LANDSCAPE DETAILS
SHEET 2

L2.1

BID AND CONSTRUCTION

PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	NOTES
TREE					
AC	Amelanchier canadensis	Shadblow Servicoberry	1	5/6' clump	B&B
AROG	Acer Rubrum October Glory	October Glory Red Maple	12	2.5/3" cal.	B&B
BP	Betula papyrifera	White Birch	2	8/10' clump	B&B
CC	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	3	2"/2.5" cal.	B&B
JVC	Juniperus virginiana 'Canaertii'	Canaerti Eastern Red Cedar	16	6/7'	B&B
LT	Liriodendron tulipifera	Tulip Tree	4	3/3.5" cal.	B&B
NS	Nyssa sylvatica	Tupelo	2	2.5/3" cal.	B&B
PR	Pinus rigida	Pitch Pine	4	6/7'	B&B
TOT	Thuja occidentalis 'Techney"	Techney American Arborvitae	20	6/7'	B&B
TP	Thuja plicata 'Virescens'	Virescens Red Cedar	17	6/7'	B&B
SHRUB					
CSB	Cornus sericea 'Baileyi'	Bailey's Red Twig Dogwood	66	#3	Cont.
IVRS	Ilex verticillata 'Jim Dandy'	Jim Dandy Winterberry	18	#3	Cont.
IGC	Ilex glabra 'Compacta'	Compact Inkberry	61	#3	Cont.
HQ	Hydrangea quercifolia	Oakleaf Hydrangea 'Sikes Dwarf'	34	#3	Cont.
KL	Kalmia latifolia 'Olympic Fire'	Olympic Fire Mountain Laurel	27	#3	Cont.
PM	Prunus maritima	Beach Plum	12	#3	Cont.
PERENNIALS AND GROUNDCOVER					
CA	Calamagrostis x acutiflora 'Karl Forseter'	Karl Forester Feather Reed Grass	11	#2	Cont.
CP	Comptonia peregrina	Sweet Fern	27	3" av pot	Cont.
CMI	Carex morrowii 'Ice Dance'	Ice Dance Japanese Sedge	100	#1	Cont.
CPE	Carex pensylvanica	Pennsylvanica Sedge	30	#1	Cont.
JC	Juniperus conferta 'Blue Pacific'	Blue Pacific Shore Juniper	15	#2	Cont.
PH	Pennisetum 'Hameln'	Hameln Fountain Grass-dwarf	103	#1	Cont.
SAJ	Schizachyrium scoparium	Little Bluestem Grass	66	#1	Cont.

NOTE:
ALL DISTURBED AREAS TO BE LOAMED AND SEEDED

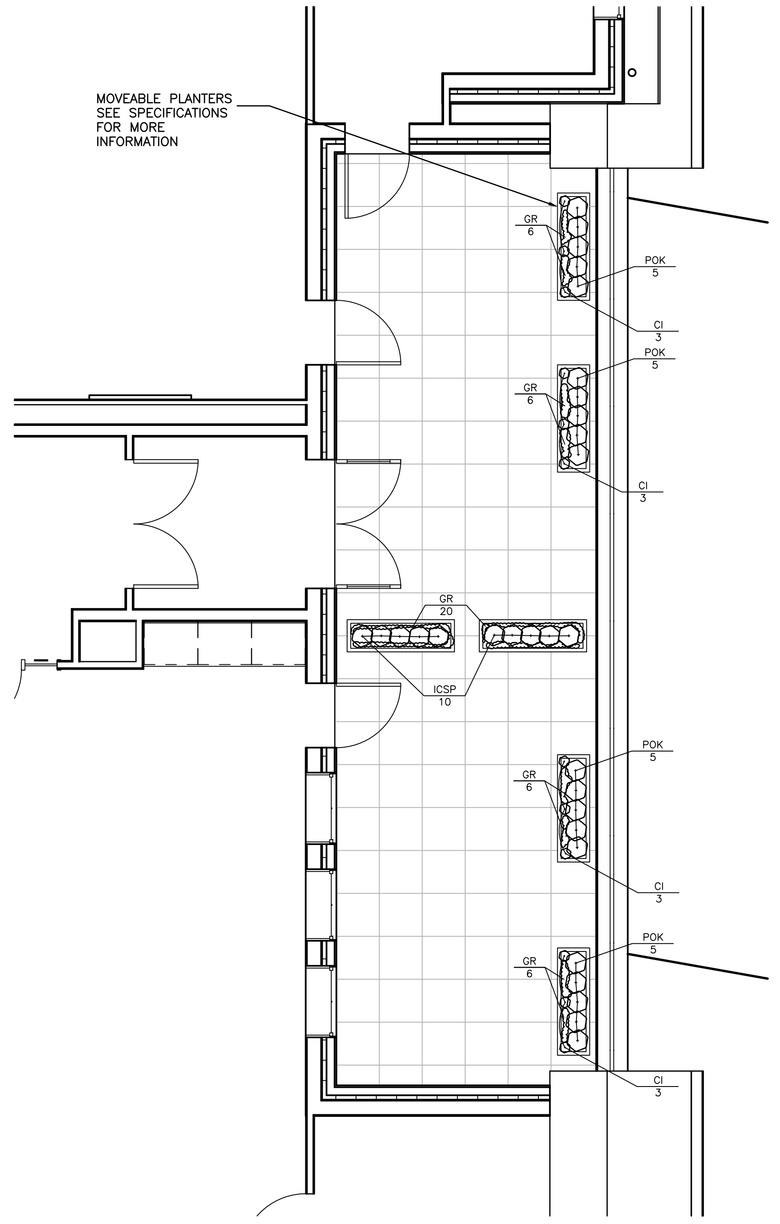
LIGHTING LEGEND

UPLIGHTS

SEE SHEET L2.2 FOR DETAIL AND ELECTRICAL ENGINEERING PLANS FOR MORE INFORMATION

ROOF DECK PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	NOTES
SHRUB					
ICSP	Ilex crenata 'Sky Pencil'	Sky Pencil Holly	10	#3	Cont.
PERENNIALS AND GROUNDCOVER					
CI	Clematis x 'Iiti'	Iiti Clematis	12	#1	Cont.
GR	Geranium 'Rozanne'	Rozanne Geranium	44	#1	Cont.
POK	Pennisetum oriental 'Karley Rose'	Karley Rose	20	#1	Cont.



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PHASE II
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TOWN OF PLYMOUTH

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PLYMOUTH, MA 02360

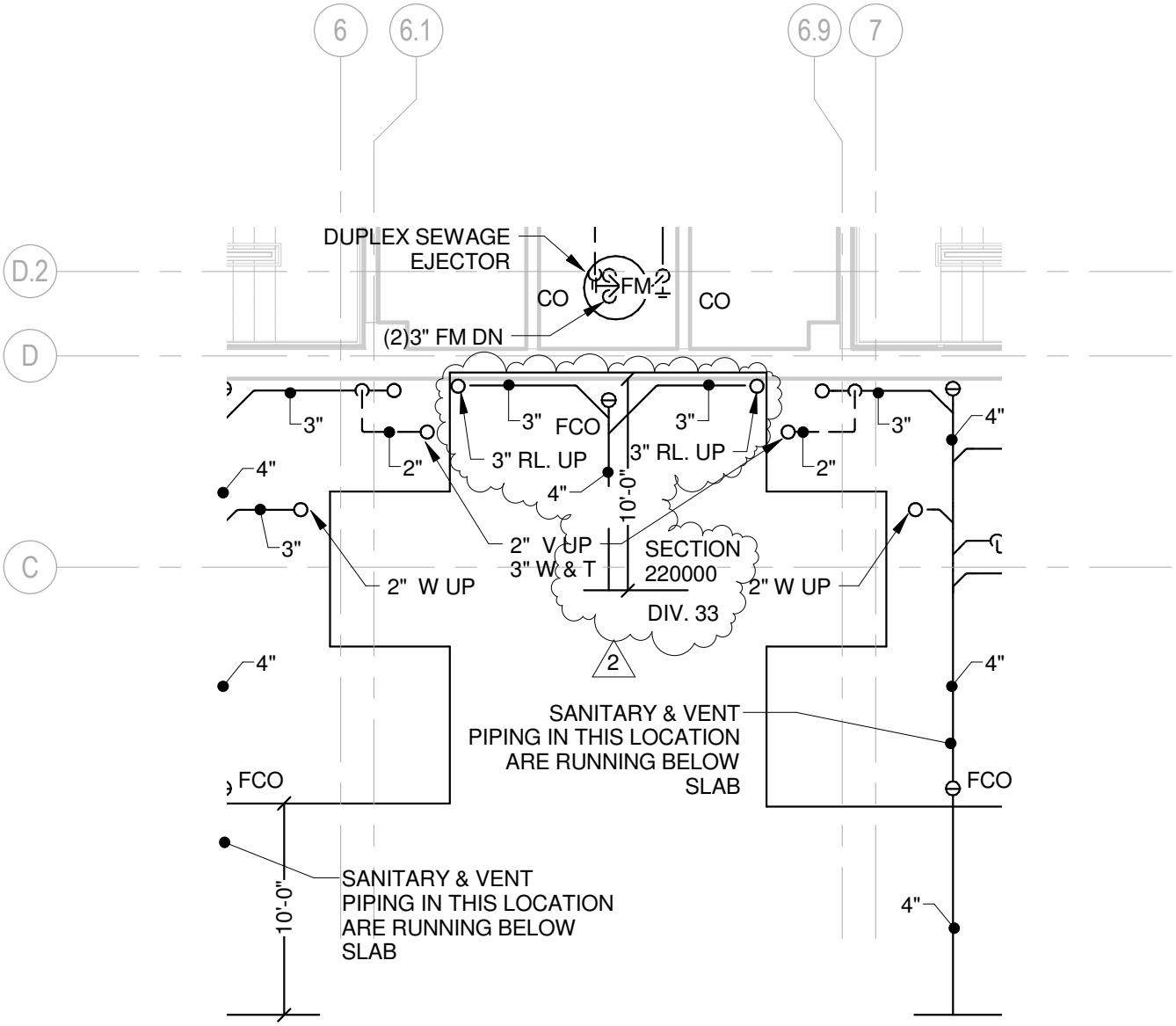
NO	DATE	BY	DESCRIPTION
1	8-25-15	TB	Addendum 1

DATE: JULY 29, 2015
DRAWN BY: JL
JOB NO: 1420
SCALE: 1"=20'-0

LANDSCAPE PLAN

L3.0

BID AND CONSTRUCTION



1 / SKP001 01.BASEMENT NEW - ADD 2

SCALE: 1/8" = 1'-0"

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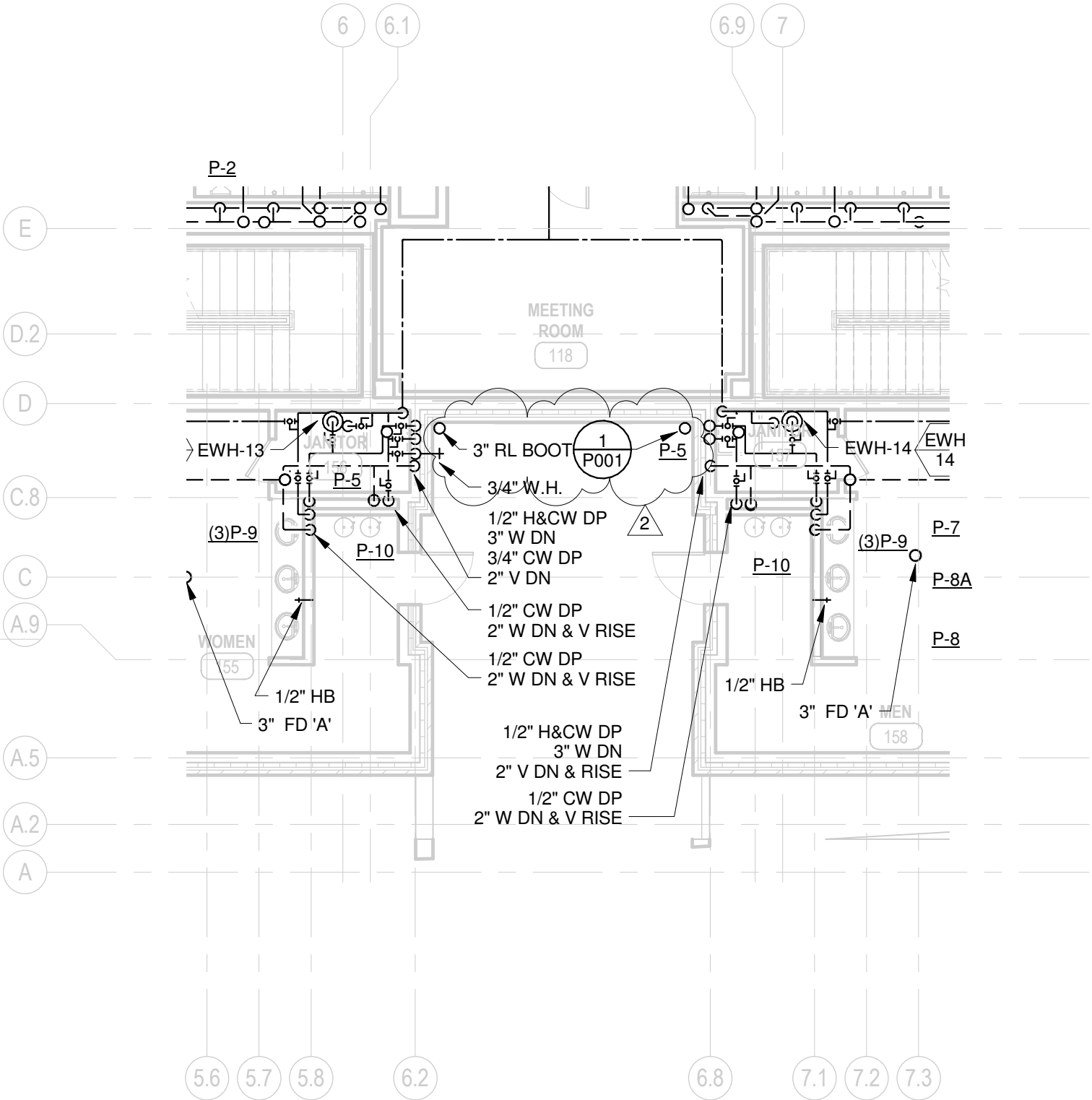
PLYMOUTH, MA 02360

PHASE II: PLYMOUTH TOWN HALL
PLYMOUTH, MA

BASEMENT PLAN PLUMBING

SCALE:	1/8" = 1'-0"
DRAWN:	JIG
JOB NO:	1420
ISSUED FOR:	ADDENDUM #2
DATE ISSUED:	08/28/15
REVISION DATE:	08/28/15

SKP001



1 / SKP002 02.FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

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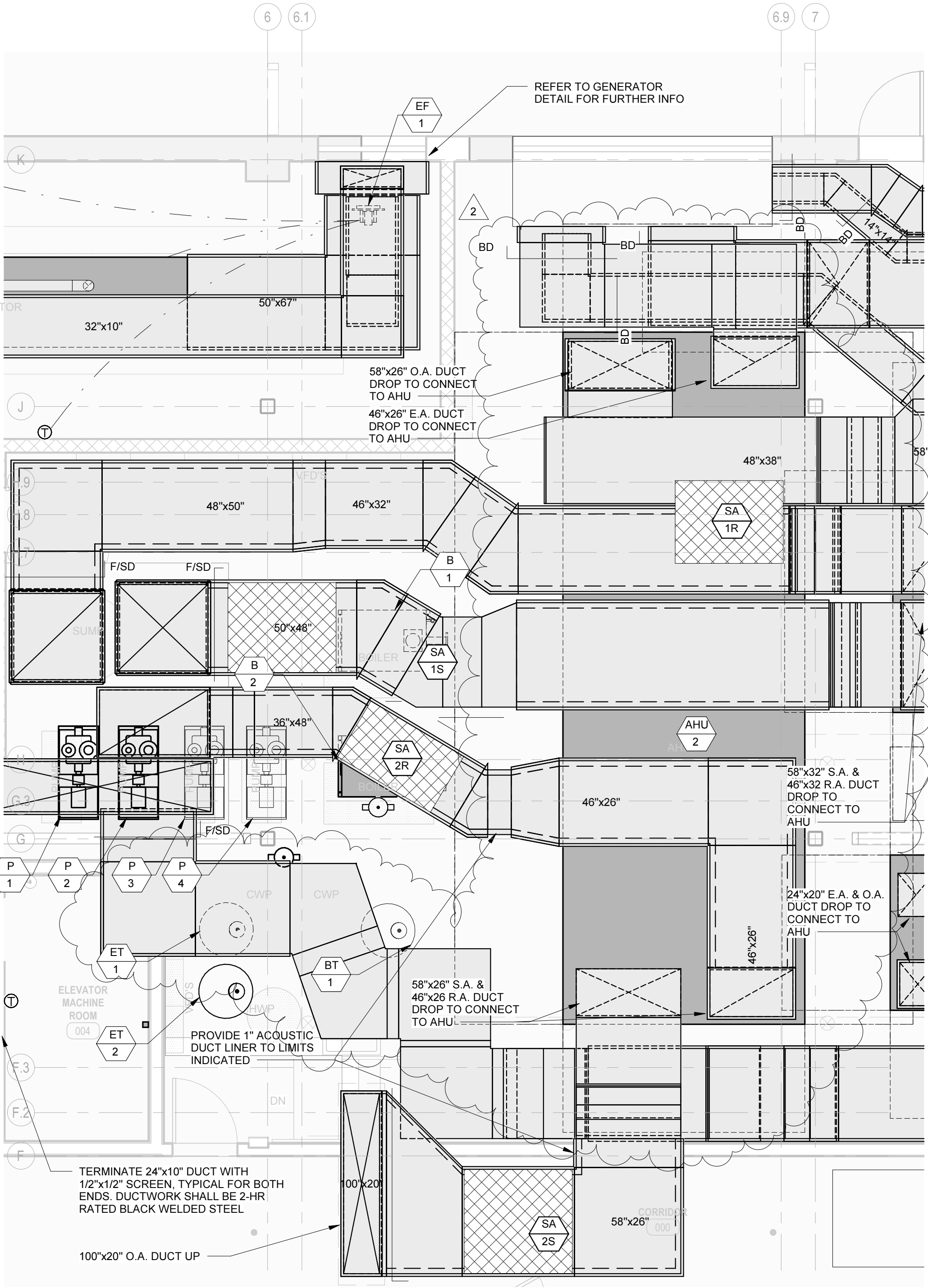
PHASE II: PLYMOUTH TOWN HALL
PLYMOUTH, MA

FIRST FLOOR PLAN PLUMBING

SCALE:	1/8" = 1'-0"
DRAWN:	JIG
JOB NO:	1420
ISSUED FOR:	ADDENDUM #2
DATE ISSUED:	08/28/15
REVISION DATE:	08/28/15

SKP002



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SCALE:	1/4" = 1'-0"
DRAWN:	RP
JOB NO:	1420

PHASE II: PLYMOUTH TOWN HALL
PLYMOUTH, MA

AHU-2 FOOTPRINT & DUCT REVISIONS

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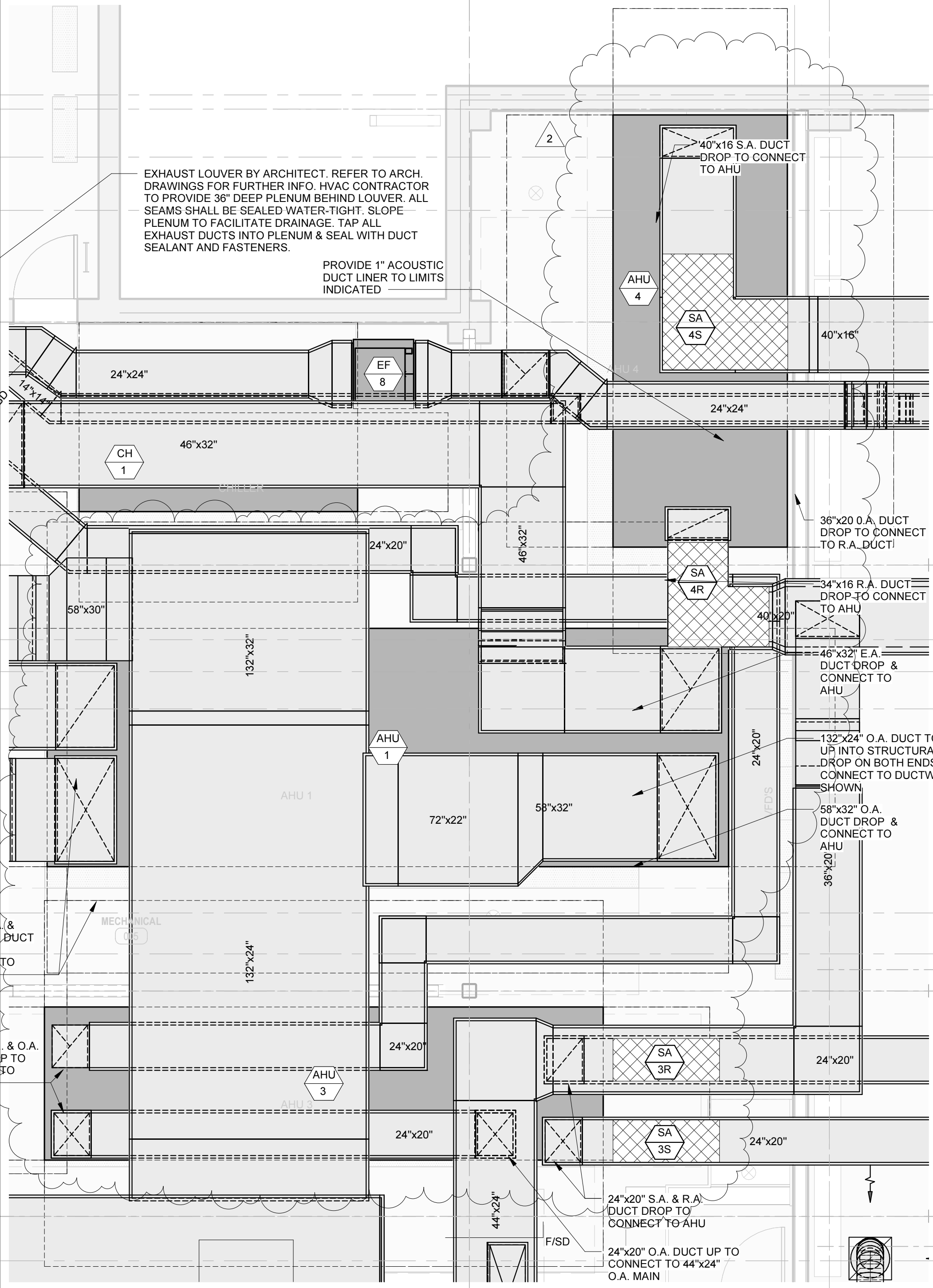
SKM-001



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PLYMOUTH, MA 02360

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PLYMOUTH, MA

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AHU-1, 3 & 4 FOOTPRINT & DUCT REVISION

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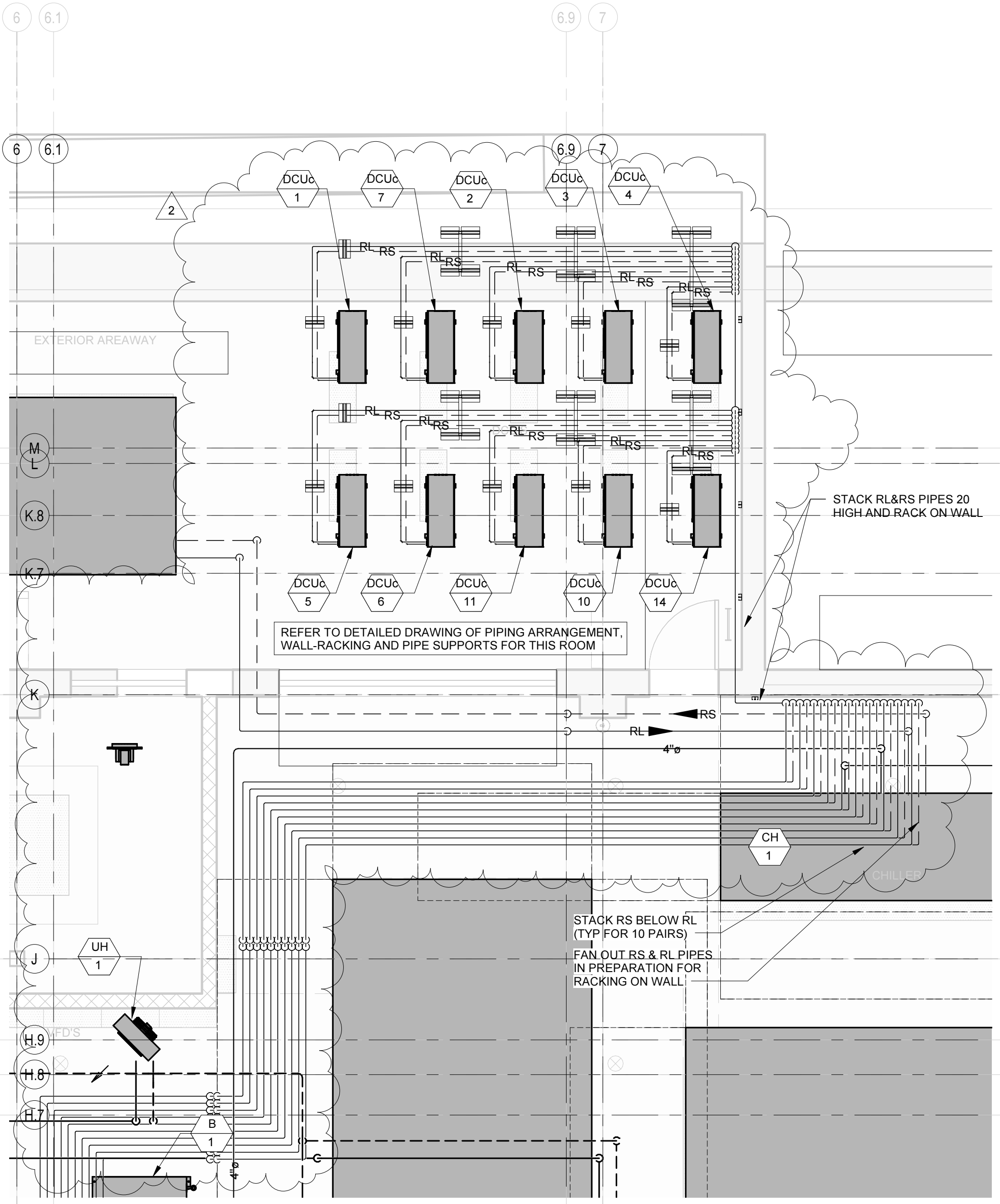
SKM-002



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DCU-CONDENSER PIPE ROUTE REVISION

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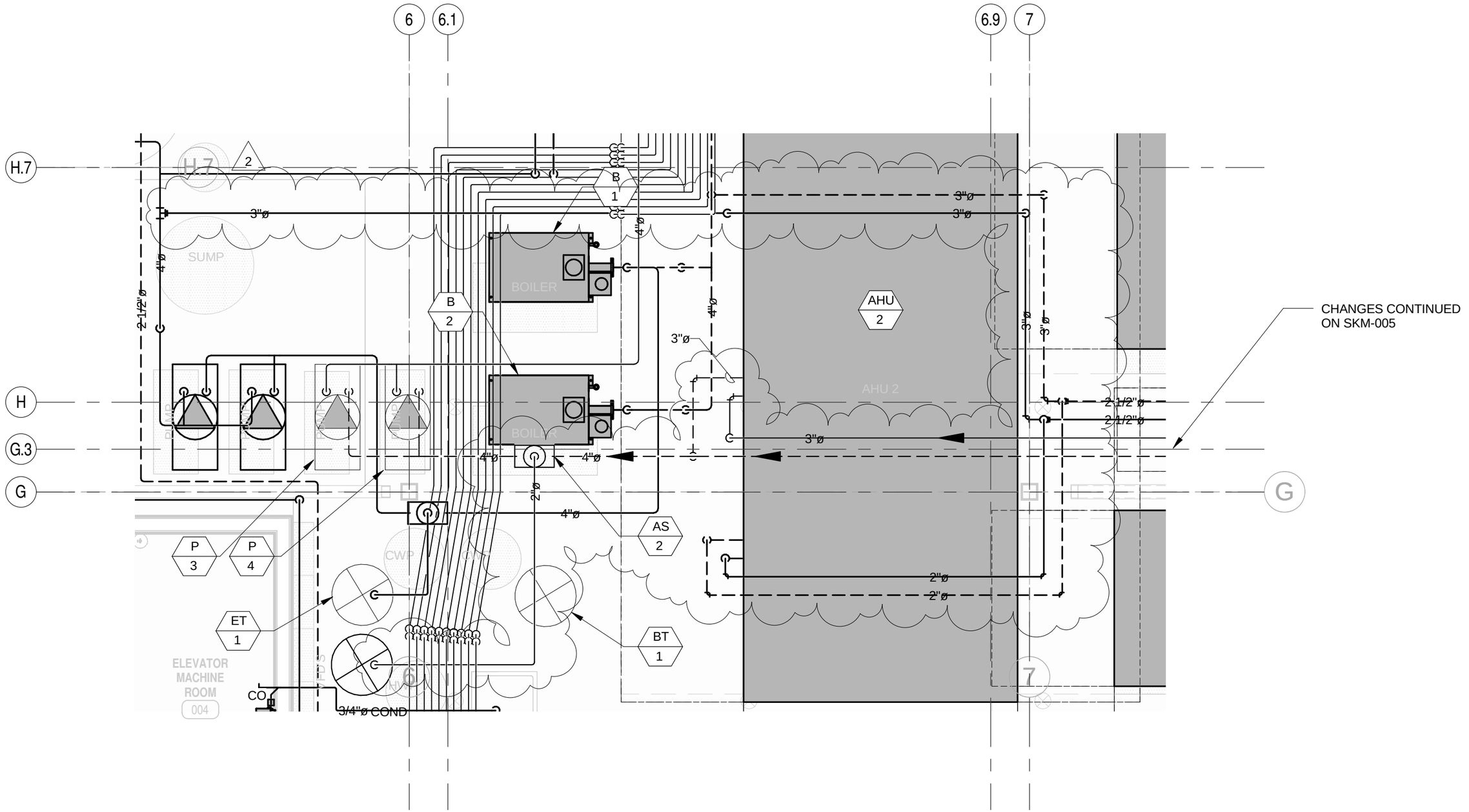
SKM-003



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MECH. ROOM HHW & CHW REVISION (1/2)

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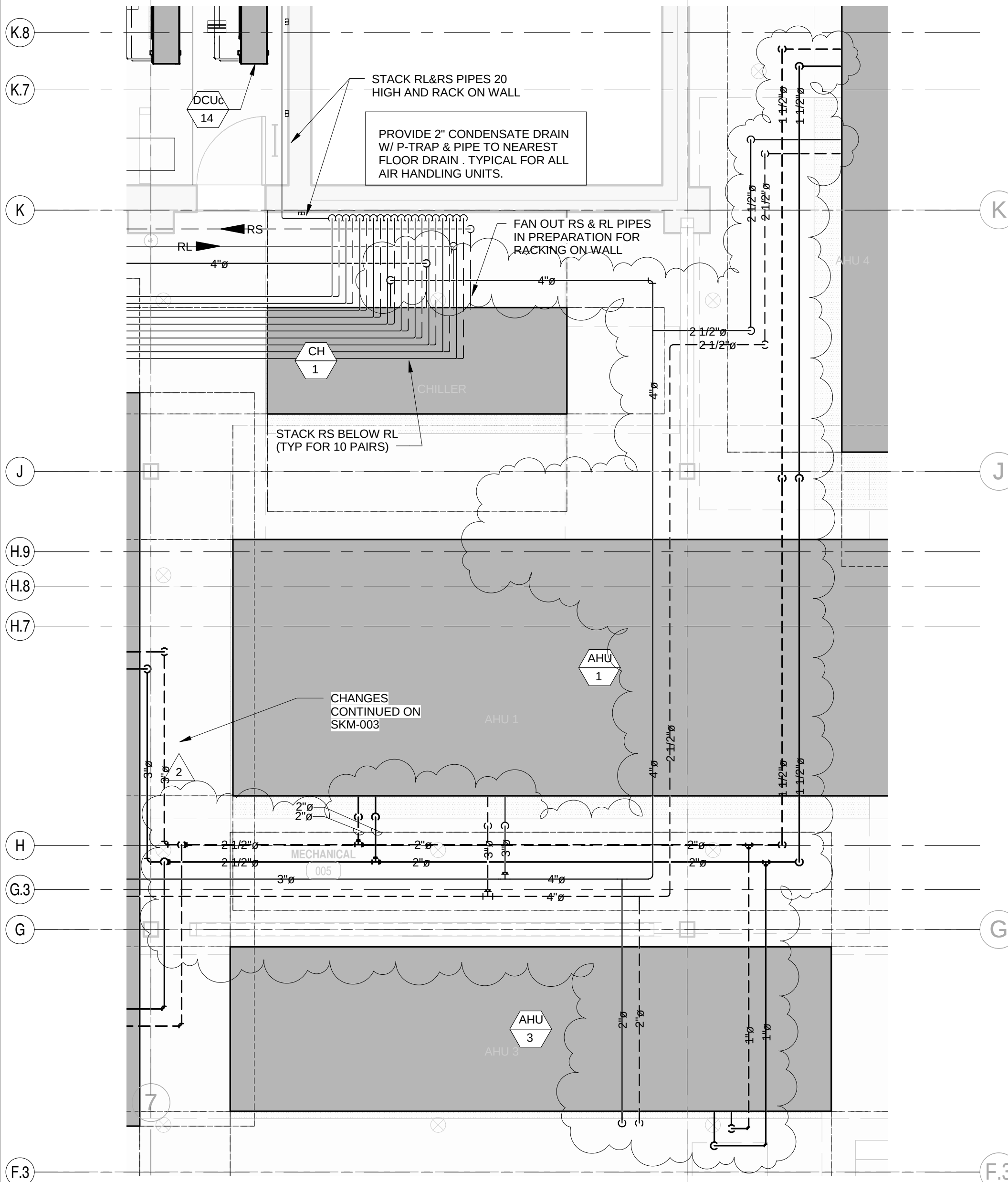
SKM-004



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TOWN OF PLYMOUTH
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PLYMOUTH, MA 02360

SCALE:	1/4" = 1'-0"
DRAWN:	PJA
JOB NO:	1420

PHASE II: PLYMOUTH TOWN HALL
PLYMOUTH, MA

MECH. ROOM HHW & CHW REVISION (2/2)

ISSUED FOR: ADDENDUM #2
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SKM-005

AIR HANDLING UNITS

UNIT NO. 2	MANUF. NO.	TOTAL C.F.M.	O.A. C.F.M.	HEATING COILS 2						ENERGY RECOVERY	FACE & BYPASS	CHILLED WATER COOLING COILS						
				ENT. AIR	LVG AIR	AIR P.D.	WAT. P.D.	HW GPM	HTG. M.B.H.			ENT. COND.		LVG COND.		MBH		GPM 2
												D.B.	W.B.	D.B.	W.B.	SEN.	TOT.	
AHU-1	PVSH-18	16,000	5,000	69.6	85.5	0.08	2.31	18.3	276.4	YES (x2)	YES	69.6	64.1	51.5	51.5	331.0	618.2	124.6
AHU-2	PVSH-18	14,000	3,600	69.9	86.5	0.07	1.71	15.7	251.5	YES (x2)	YES	66.2	63.1	51.8	51.8	232.7	487.3	98.7
AHU-3	PVSH-03	2,000	750	63.0	86.3	0.06	0.71	3.3	50.5	YES (x2)	YES	67.5	63.4	51.9	51.9	38.18	75.41	15.3
AHU-4	EPCH-09	6,500	1,500	71.0	88.5	0.06	1.14	7.7	123.7	YES (x1)	YES	77.6	66.9	52.3	52.3	179.6	288.4	57.7

SELECTIONS BASE ON "SEMCO"

AIR HANDLING UNITS SHALL HAVE VARIABLE FREQUENCY DRIVE FOR SUPPLY, EXHAUST, & ENERGY WHEEL MOTORS PROVIDED BY DIV. 26000.

NOTES: 1. HEATING EWT=160°F, LWT=140°F
2. COOLING EWT=44°F, LWT=54°F
3. 35% PROPYLENE GLYCOL IN HHW & CHW

VAV CONTROL		SUPPLY FAN MOTOR 2						RETURN FAN MOTOR						REMARKS
INLET VANES	VF DRIVE	EXT. S.P.	B.H.P.	V	PH.	R.P.M.	WHEEL DIA	EXT. S.P.	B.H.P.	V	PH.	R.P.M.	WHEEL DIA	
NO	YES	1.056"	22.88	460	3	1745		1.032"	21.8	460	3	2387		
NO	YES	0.926"	19.24	460	3	1952		0.860"	15.52	460	3	2118		
NO	YES	1.383"	2.88	460	3	3885		0.73"	1.0	460	3	3556		
NO	YES	0.705"	7.5	460	3	2205		N/A	N/A	N/A	N/A	N/A		

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SCALE: 1/8" = 1'-0"
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PHASE II: PLYMOUTH TOWN HALL
PLYMOUTH, MA

AHU SCHEDULE REVISION

ISSUED FOR: ADDENDUM #2
DATE ISSUED: 28AUG2015
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SKM-006

LIGHTING FIXTURE SCHEDULE (1) (6) (8)

TYPE	MANUFACTURER	MODEL / SERIES	MTG.	VOLTAGE	LIGHT SOURCE NO.	LIGHT SOURCE WATTS	LIGHT SOURCE TYPE	DESCRIPTION	MFG. OPTIONS	SCHEDULE NOTES
EL	KURTZON	WL-LPC-2-40-2/LEDR35-UNV	S	UNIVERSAL	N/A	75	LED/3500K	4' LINEAR UTILITY FIXTURE WITH PRISMATIC POLYCARBONATE LENS AND WET LOCATION GASKETING	(A)	(5)
J	PHOENIX	VA-W-LED-8-NW-FGC-G-DIM	W	UNIVERSAL	N/A	16	LED/4100K	UTILITY SERVICE FIXTURE WITH PRISMATIC GLASS GLOBE AND CAST GUARD	(B)	(6) (8)
LC1	ELLIPTIPAR (2)	S301-RXXK-S-00-V-00-0-30-EL	C	UNIVERSAL	N/A	14/L.F.	LED/3000K	CONTINUOUS LINEAR INDIRECT FIXTURE WITH ADJUSTABLE AIMING; RUNS PER PLANS	-	(6) (8)
LC2	LUMENPULSE	LCN-HO-120-12-30-CL-WH-DIM-N.B.	C	UNIVERSAL	N/A	6/L.F.	LED/3000K	LINEAR INDIRECT FIXTURE WITH ADJUSTABLE AIMING RUN IN CUPOLA. PROVIDE ALL CONNECTION CABLES AND DATA BRIDGE	-	(6) (8)
LDC	VODE (2)	907-BX-X-36-R1B-AT-1-10-277-Z-HO-30	S	UNIVERSAL	N/A	12/L.F.	LED/3000K	CONTINUOUS LINEAR DISPLAY CASE ACCENT FIXTURE WITH REMOTE DRIVER; RUNS AS INDICATED	-	(6) (8)
LP4	PHILIPS	7806 L C C Q G 04 7 UNV E W	AC	UNIVERSAL	N/A	94	LED/3000K	LINEAR DIRECT/INDIRECT WITH FROSTED ACRYLIC DIFFUSER	-	(6) (8)
LP8	PHILIPS	7806 L C C Q G 08 7 UNV E W	AC	UNIVERSAL	N/A	94	LED/3000K	LINEAR DIRECT/INDIRECT WITH FROSTED ACRYLIC DIFFUSER	-	(6) (8)
LPD1	VISA	CP5205-CLB-LCW-CMB-X-DIM	AC	UNIVERSAL	N/A	58	LED/4000K	48" H X 8" DIA. LUMINOUS CYLINDER FIXTURE WITH FROSTED ACRYLIC DIFFUSER	-	(6) (8)
LPD2	VISA	CP5404-CLB-LCW-CMB-X-DIM	AC	UNIVERSAL	N/A	32	LED/4000K	36" H X 4" DIA. LUMINOUS CYLINDER FIXTURE WITH FROSTED ACRYLIC DIFFUSER	-	(6) (8)
LPD3	LUKAS LIGHTING	P120	P	UNIVERSAL	N/A	32	LED/3000K	12" H X 25" DIA. SHADED PENDANT FIXTURE WITH LINEN ON ACRYLIC DIFFUSER. PROVIDE WITH CUSTOM LED LAMPING.	-	(6) (8)
LPD4	LUKAS LIGHTING	P149	P	UNIVERSAL	N/A	32	LED/3000K	12" H X 36" DIA. SHADED PENDANT FIXTURE WITH LINEN ON ACRYLIC DIFFUSER. PROVIDE WITH CUSTOM LED LAMPING.	-	(6) (8)
LPD5	BOCK LIGHTING	A30619185131-LVG01-1600LMB-CC6CWH	P	UNIVERSAL	N/A	32	LED/3000K	18" DIA. LUMINOUS FIXTURE WITH FROSTED GLASS DIFFUSER. DARK BRONZE FINISH	-	(6) (8)
LR22	PHILIPS	4122D1STL8CES12E	R	UNIVERSAL	N/A	30	LED/3000K	2' X 2' TROFFER FIXTURE WITH FROSTED ACRYLIC DIFFUSER	-	(6) (8)
LR24	PHILIPS	4124D1STL8CCS12E	R	UNIVERSAL	N/A	46	LED/3000K	2' X 4' TROFFER FIXTURE WITH FROSTED ACRYLIC DIFFUSER	-	(6) (8)
LRA	ALW	LP1RWWT-TGRID-X-HP1500-3000K -LED-DIM-UNV-WH	R	UNIVERSAL	N/A	15/L.F.	LED/3000K	CONTINUOUS LINEAR WALL-WASH FIXTURE WITH FROSTED ACRYLIC DIFFUSER; RUNS AS INDICATED	-	(6) (8)
LRS	PHILIPS	39S1LCEQS1XX12E	R	UNIVERSAL	N/A	11/L.F.	LED/3000K	CONTINUOUS LINEAR SLOT FIXTURE WITH FROSTED ACRYLIC DIFFUSER; RUNS AS INDICATED	-	(6) (8)
LS4	CREE	LS4-40L-30-10V	S/AC	UNIVERSAL	N/A	44	LED/3000K	4' LINEAR UTILITY FIXTURE WITH PRISMATIC ACRYLIC WRAPAROUND LENS	-	(6) (8)
LS8	CREE	LS8-80L-30-10V	S/AC	UNIVERSAL	N/A	88	LED/3000K	8' LINEAR UTILITY FIXTURE WITH PRISMATIC ACRYLIC WRAPAROUND LENS	-	(6) (8)
LSD1	G LIGHTING	GL-3553-W-D-NSN-D	S	UNIVERSAL	N/A	16	LED/3000K	"SCHOOLHOUSE" DECORATIVE FIXTURE WITH FROSTED ACRYLIC DIFFUSER	-	(6) (8)
LSG	ACOLYTE	RB245.030	S	UNIVERSAL	N/A	5/L.F.	LED/3000K	CONTINUOUS LINEAR ACCENT FIXTURE LENSED MOUNTING CHANNEL AND REMOTE DRIVER; RUNS AS INDICATED	-	(6) (8)
LSV4	KENALL	MLHA5-48-F-MW-PP-2-45L35K-DCC-1-DV	S	UNIVERSAL	N/A	45	LED/3000K	4' LINEAR VANDALPROOF FIXTURE WITH FROSTED POLYCARBONATE LENS AND WET LOCATION GASKETING	-	(6) (8)
LSV8	KENALL	MLHA5-96-F-MW-PP-2-45L35K-DCC-1-DV	S	UNIVERSAL	N/A	90	LED/3000K	8' LINEAR VANDALPROOF FIXTURE WITH FROSTED POLYCARBONATE LENS AND WET LOCATION GASKETING	-	(6) (8)
LV8	LITHONIA	FEM8 LED 4L/35 IMAFL WLF	S	UNIVERSAL	N/A	120	LED/3000K	8' LINEAR VAPORTIGHT FIXTURE FROSTED POLYCARBONATE LENS AND WET LOCATION GASKETING	-	(6) (8)
LW4	PEERLESS	SQW4 HI/HI 4FT R4 277 EZB LP830 CO32	W	UNIVERSAL	N/A	80	LED/3000K	4' LINEAR FIXTURE WITH UP/DOWN DISTRIBUTION, FROSTED ACRYLIC DIFFUSERS, AND SEPARATE UP/DOWN CONTROL	-	(6) (8)
LWS	PRUDENTIAL	PSTD FLSH LED3 XX SAL TMW D1 WTW SC UNV X1 DM01	R	UNIVERSAL	N/A	12/L.F.	LED/3000K	CONTINUOUS LINEAR WALLSLOT FIXTURE WITH FROSTED ACRYLIC DIFFUSER; RUNS AS INDICATED	-	(6) (8)
RC1	PHILIPS	C6L20NUVBZ10V/ C6L1520DL30KWCCDPVB	R	UNIVERSAL	N/A	32	LED/3000K	6" APERTURE DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR	-	(6) (8)
RC1A	PHILIPS	C4LA15NU210V/C4L15A30K9FL/ C4LACCDW	R	UNIVERSAL	N/A	27	LED/3000K	4" APERTURE ADJUSTABLE DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR	-	(6) (8)
RC1W	PHILIPS	C6L20NUVBZ10V/ C6L1520LW30KCCDPVB	R	UNIVERSAL	N/A	32	LED/3000K	6" APERTURE DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR	-	(6) (8)
RC2	PHILIPS	C3L085N2Z10V/C3L085DL0130K9/ C3LDLWCCDP	R	UNIVERSAL	N/A	20	LED/3000K	3" APERTURE DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR	-	(6) (8)
RC3	KENALL	HADL6VL2-13L30K-DV-5FW-G	R	UNIVERSAL	N/A	13	LED/3000K	6" APERTURE VANDALPROOF DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND POLYCARBONATE LENS	-	(6) (8)
SL1/3L	BEGA	9595LED IMS-L3 K3 BRZ	POLE	UNIVERSAL	N/A	78	LED/3000K	SINGLE AREA LIGHTING FIXTURE WITH TYPE III OPTICS AND 14' ROUND ALUMINUM POLE WITH ANCHOR BOLT COVER BASE	-	(4) (5) (6) (8)
SL2/3L	BEGA	(2)9595LED IMS-L3 K3 BRZ	POLE	UNIVERSAL	N/A	156	LED/3000K	TWIN AREA LIGHTING FIXTURE WITH TYPE III OPTICS AND 14' ROUND ALUMINUM POLE WITH ANCHOR BOLT COVER BASE	-	(4) (5) (6) (8)
SL3	BEGA	9558LED	BOL	UNIVERSAL	N/A	28	LED/3000K	LOW LEVEL PATHWAY FIXTURE WITH FULL CUT-OFF TYPE III DISTRIBUTION	-	(4) (6) (8)
SL4	WE-EF	OLV344 LED 622-7722	W	277	N/A	58	LED/3000K	PERIMETER LIGHTING FIXTURE WITH FULL CUT-OFF TYPE III DISTRIBUTION	-	(4) (6) (8)
SL5	PHILIPS	523-000059-00	W	UNIVERSAL	N/A	15	LED/3000K	ADJUSTABLE ACCENT FIXTURE WITH REMOTE DRIVER AND 36" HINGED MOUNTING ARM	-	(6) (8)
SL6	BRASS LIGHT GALLERY	EX-5714-GU24	CH	UNIVERSAL	N/A	45	LED/3000K	LONDON LANTERN 14" WIDE WITH CHAIN MOUNTING. PROVIDE WITH WIND BRACING CABLE	-	(6) (8)
SL7	LUMIERE	650-RD-10LED3012-BZ	R	UNIVERSAL	N/A	10	LED/3000K	IN-GROUND FIXTURE IN CUSTOM STONE BOLLARD. PROVIDE REMOTE 12 VOLT TRANSFORMER	-	(6) (8)
SL8	HYDREL	PDX10 B 18LED WHT30K MVOLT FL FLC 34S LDIM LP	R	UNIVERSAL	N/A	10	LED/3000K	IN-GROUND SITE LIGHTING FIXTURE	-	(6) (8)
SL9	HYDREL	PINE 9LED38 277 FL WSL JBB S3 L3 C2 BRS	R	UNIVERSAL	N/A	9	LED/3000K	IN-GROUND SITE LIGHTING FIXTURE	-	(6) (8)
UC	VODE	707-Z1-X-Z-C-AE-1-25-277-Z-SO-30	S	UNIVERSAL	N/A	7/L.F.	LED/3000K	CONTINUOUS UNDERCABINET FIXTURE WITH REMOTE DRIVER AND ACCESSORIES REQUIRED FOR RUNS INDICATED	-	(6) (8)
X	SIGNTEX	CRS-NB-1-G-C/M-W-XX-XX	U	UNIVERSAL	N/A	1	LED	SINGLE FACED EDGELIT ACRYLIC EXIT SIGN	-	(7)
X	SIGNTEX	CRS-NB-2-G-M-W-TW-XX	U	UNIVERSAL	N/A	1.2	LED	DOUBLE FACED EDGELIT ACRYLIC EXIT SIGN	-	(7)
XH	SIGNTEX	RPR-NB-1-G-W-TW	U	UNIVERSAL	N/A	1	LED	SINGLE FACED EDGELIT ACRYLIC EXIT SIGN FOR FLOOR PROXIMITY MOUNTING	-	(3)
XL	SIGNTEX	RPR-NB-1-G-W-TW-PSR	U	UNIVERSAL	N/A	1	LED	SINGLE FACED EDGELIT ACRYLIC EXIT SIGN FOR FLOOR PROXIMITY MOUNTING	-	(3)
XWP	SIGNTEX	RPR-NB-1-G-W-TW-PSR	U	UNIVERSAL	N/A	1	LED	SINGLE FACED DIECAST EXIT SIGN FOR ROUGH SERVICE APPLICATION	-	(3)
EB	EMERGI-LITE	12PR60M-2-MG-DA-D3	U	UNIVERSAL	2	20	MR16/HALOGEN	SELF-CONTAINED EMERGENCY LIGHTING FIXTURE WITH TWIN ADJUSTABLE HEADS	-	(3)

LIGHTING FIXTURE SCHEDULE NOTES ( )

1. LIGHTING FIXTURE PACKAGE SUBMITTALS SHALL BE FULLY COORDINATED BETWEEN THE ELECTRICAL CONTRACTOR, LIGHTING FIXTURE REPRESENTATIVE(S), AND LIGHTING MANUFACTURERS TO ENSURE ALL PRODUCT, INSTALLATION, AND CONTROL REQUIREMENTS ARE MET PRIOR TO SUBMISSION FOR REVIEW. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROVIDE A PACKAGE MEETING ALL REQUIREMENTS OF THE PROJECT FOR A COMPLETE AND FULLY FUNCTIONAL LIGHTING SYSTEM.
2. PROVIDE EXIT SIGN THAT COMPLIES WITH NFPA 101, UL 924, 521 CMR 26.1.2 AND ALL REFERENCED STANDARDS AND CODES.
3. PROVIDE FLOOR PROXIMITY SIGN IN ADDITION TO STANDARD SIGN ABOVE DOOR IN MAIN ELECTRIC ROOM; MOUNT SIGN AT 18" A.F.F. TO THE TOP ON THE STRIKE SIDE OF DOOR. SIGN SHALL BE RECESSED MOUNTED AND PROVIDED WITH FLUSH POLYCARBONATE SHIELD.
4. SITE LIGHTING HAS BEEN SPECIFIED WITH THE FOLLOWING BACKLIGHT, UPLIGHT, AND GLARE RATINGS AS DEFINED BY IES TM-15-07:
5. SITE LIGHTING POLES SHALL BE PROVIDED WITH FULL BASE COVERS TO MATCH PROFILE OF POLE; NUT COVERS ONLY ARE NOT ACCEPTABLE.
6. UNLESS OTHER NOTED, PROVIDE ALL FIXTURES WITH 0-10V DIMMING BALLAST, DRIVER, TRANSFORMER, OR LIGHT ENGINE REQUIRED FOR LAMP OR LED SOURCE SPECIFIED.
7. E.C. SHALL PROVIDE ADDITIONAL EXIT SIGNS (TO INCLUDE 100' OF MC CABLE BRANCH CIRCUITING) FOR FIELD PLACEMENT DURING CONSTRUCTION. REFER TO SPECIFICATIONS FOR QUANTITIES.
8. PROVIDE ALCS ADDRESSABLE INPUT/OUTPUT (I/O) MODULE FOR EACH FIXTURE UNLESS OTHERWISE NOTED. APPLICATIONS NOT REQUIRING INDIVIDUAL CONTROL (WHERE NOTED ON PLANS) SHALL BE PROVIDED WITH I/O MODULES ON A FIXTURE GROUPING BASIS. WHERE FIXTURES ARE LOCATED IN HARD CEILING AREAS THE I/O MODULE SHALL BE REMOTE MOUNTED IN ACCESSIBLE AREA ABOVE AN A.C.T. CEILING. WHERE FIXTURES ARE LOCATED OUTDOORS THE I/O MODULE SHALL BE LOCATED IN THE MAIN ELECTRICAL ROOM ADJACENT TO THE PANEL SERVING THE LIGHTING. REFER TO "AUTOMATED LIGHTING CONTROL SYSTEM - TYPICAL ONE-LINE DIAGRAM" AND SPECIFICATIONS FOR FURTHER INFORMATION.

MOUNTING DESIGNATIONS

C	COVE	U	UNIVERSAL
CH	CHAIN	W	WALL
P	PENDANT	AC	AIRCRAFT CABLE
R	RECESSED	BOL	BOLLARD
S	SURFACE	POLE	POLE
T	TRACK / RAIL / CABLE		

FIXTURE MANUFACTURER (EQUALS)

(A) PARAMOUNT, MORELITE, FAIL-SAFE
(B) EXCELINE, HUBBEL, RIG-A-LITE
(C) JESCO, ACLAIM, TIVOLI
(D) WAGNER, LUMENRAIL
(E) TIVOLI, CELESTIAL, BIRCHWOOD
(F) METALUMEN, SELUX, FORUM
(G) BETA CALCO, LUMINIS
(H) ZANEEN, EUREKA, ARTEMIDE
(I) ADVENT, VISA, G LIGHTING
(J) HUBBELL, SIMKAR, LITHONIA
(K) PINNACLE, LITECONTROL, NU-LITE
(L) INTENSE, AMERLUX, INTRA
(M) LIGHTNET, FOCAL POINT, POULSEN, LUMENWERX
(N) LUMIUM, BIRCHWOOD, VODE
(O) INDY, PEACHTREE, SPECTRUM
(P) PHILIPS, GOTHAM, PORTFOLIO
(Q) JUNO, NORA, PHILIPS
(R) NONE - MATCHING EXISTING
(S) HYDREL, KIM, LUMIERE
(T) BEGA, LIGMAN
(U) SPI, LIGMAN, INTENSE
(V) WILLIAMS, LITHONIA, HUBBELL
(W) INTENSE, AMERLUX, NORA
(X) LSI, INTRA, WILA
(Y) PHILIPS, FEELUX, i2
(Z) EVENLITE, DUAL-LITE, EMERGI-LITE

GENERAL (OR EQUAL) NOTES:

1. AESTHETICS OF OR EQUALS IN FINAL FIXTURE PACKAGE REQUIRES APPROVAL BY ARCHITECT PRIOR TO ACCEPTANCE OF FIXTURE AS PART OF FINAL BID PACKAGE.

LIGHTING GENERAL NOTES

1. MANUFACTURERS AND CATALOG NUMBERS IDENTIFIED IN THE "LIGHTING FIXTURE SCHEDULE" SHALL SERVE TO ESTABLISH THE BASIS OF DESIGN FOR EACH LIGHTING FIXTURE TYPE. PRODUCTS OF EQUAL APPEARANCE, CONSTRUCTION, PERFORMANCE, AND WARRANTY COVERAGE FROM MANUFACTURERS OTHER THAN THOSE IDENTIFIED MAY BE PROPOSED FOR USE ON THIS PROJECT, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND ENGINEER. THE "FIXTURE MANUFACTURER OPTIONS (OR EQUAL)" LISTING IS PROVIDED FOR GUIDANCE IN IDENTIFYING MANUFACTURERS CAPABLE OF PROVIDING EQUAL PRODUCTS, BUT IN NOW WAY LIMITS MANUFACTURERS OR PRODUCTS THAT MAY BE PROPOSED AS EQUALS FOR THE PROJECT.
2. "LIGHTING FIXTURE SCHEDULE" REMARKS, "LIGHTING FIXTURE SCHEDULE NOTES", "LIGHTING GENERAL NOTES", AND NOTATIONS ELSEWHERE MAY INDICATE FEATURES AND ACCESSORIES THAT ARE NOT INDICATED IN THE CATALOG NUMBER BUT ARE REQUIRED FOR THE PROJECT. PRODUCTS OTHER THAN THOSE SPECIFIED SUBMITTED SHALL BE DOCUMENTED FOR CONFORMANCE IN PERFORMANCE, CONSTRUCTION, AND APPEARANCE WITH THE CRITERIA ESTABLISHED BY THE SPECIFIED PRODUCT.
3. FURNISH ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET THE JOB REQUIREMENTS. VERIFY ROOM SURFACE CONSTRUCTION AND FINISHES PRIOR TO ORDERING FIXTURES TO ENSURE PROPER MOUNTING PROVISIONS AND FIXTURE FITTINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS.
4. VERIFY ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS WITH LATEST ARCHITECTURAL DRAWINGS. EXACT LOCATION OF FIXTURES SHALL BE CONFIRMED WITH THE ARCHITECT PRIOR TO START OF ROUGHING.
5. LED ARRAYS, MODULES, AND LIGHT ENGINES SHALL HAVE KELVIN COLOR TEMPERATURE AS SCHEDULED HAVING A MINIMUM COLOR RENDERING INDEX (CRI) OF 82 AND A MINIMUM L70 LIFETIME RATING OF 50,000 HOURS AT 25°C AMBIENT. LED DRIVERS SHALL HAVE 0-10V DIMMING CONTROL WITH FULLY ISOLATED CONTROL INPUTS AND MINIMUM POWER LEVEL OF 10%. LED FIXTURES WITH ARRAY / MODULE AND DRIVER PACKAGES OF LIGHT ENGINES SHALL HAVE PUBLISHED IESNA LM-79 AND LM-80 TESTING DATA AS A STANDARD MANUFACTURED OFFERING. INDIVIDUAL COMPONENT TESTING DATA WILL NOT BE ACCEPTED. ALL FIXTURES SHALL BE "DESIGN LIGHTS CONSORTIUM" (DLC) OR "ENERGYSTAR" LISTED, OR FURNISHED WITH DATA INDICATING CONFORMANCE WITH LATEST APPLICABLE LISTING CRITERIA.
6. FIXTURE LETTERS SHOWN ONCE ON A CONTINUOUS ROW OF FIXTURES SHALL BE TYPICAL FOR THAT ROW UNLESS OTHERWISE INDICATED. PROVIDE RUN LENGTH AS INDICATED (NUMERICALLY OR GRAPHICALLY) OR CONTINUOUS WHERE SHOWN BETWEEN TWO ARCHITECTURAL ELEMENTS (WALLS, SOFFITS, COLUMNS, ETC.).
7. LINEAR ROWS OF RECESSED, SURFACE, OR SUSPENDED FIXTURES SHALL BE INSTALLED TO PROVIDE CONTINUOUS RUN LENGTHS AS INDICATED ON THE DRAWINGS. PROVIDE ALL REQUIRED FITTINGS, CONNECTORS, SUPPORTS, TRIMS, ETC. SO THAT RUNS ARE A COMPLETE ASSEMBLY WITH THE APPEARANCE OF A SINGLE UNIT. ROWS SHALL BE CONFIGURED FOR MINIMUM NUMBER OF FEEDS, JOINTS, AND MOUNTINGS. PROVIDE ROW AND PATTERN CONFIGURATION DRAWINGS FOR REVIEW PRIOR AND APPROVAL PRIOR TO RELEASE OF MATERIAL ORDER.
8. PROVIDE FLAT ROUND CANOPIES FOR SUSPENDED FIXTURE LOCATIONS WHERE SUSPENSIONS MOUNTS TO UNFINISHED CEILING STRUCTURE (WHERE LOCATED IN FINISHED SPACES) AND WHERE PASSING THROUGH SUSPENDED CEILINGS (CONFIRM WHETHER IN TILE OR GRID). PROVIDE SWIVEL HANGERS FOR SUSPENSIONS WHERE REQUIRED FOR SLOPED CEILINGS. ENTIRE SUSPENSION ASSEMBLY SHALL BE SUPPLIED BY MANUFACTURER OF FIXTURES.
9. FIXTURES WITH LOUVERS SHALL BE PROVIDED WITH HIGH TRANSMISSION (95% OR BETTER) DIFFUSING LENSES OR FILMS TO OBSCURE DIRECT LAMP VIEWING.
10. FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF HUNG CEILINGS. DO NOT TAP METAL ROOF DECK FOR SUPPORT OF ANY ELECTRICAL EQUIPMENT. PROVIDE UNISTRUT AS REQUIRED FOR SUPPORT OF ALL ELECTRICAL EQUIPMENT.
11. REFER TO SPECIFICATIONS FOR SEISMIC SUPPORT, RESTRAINT, AND BRACING REQUIREMENTS OF THIS PROJECT.
12. PROVIDE TYPE AND QUANTITY OF DRIVERS AND/OR TRANSFORMERS AS REQUIRED TO PROVIDE CONTROL METHOD INDICATIONS ON THE PLANS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: SWITCHING SUBSCRIPTS, NOTES, SCHEDULE REMARKS / DESCRIPTIONS, AND DETAILS. QUANTITY OF DRIVERS AND/OR TRANSFORMERS SHALL BE THE MINIMUM REQUIRED TO PROVIDE CONTROL INDICATED TO MAINTAIN THE LOWEST CONNECTED LOAD OF LIGHTING SYSTEM POSSIBLE. TANDEM WIRING OF FIXTURES SHALL BE PROVIDED WHERE NECESSARY AND WITHIN THE WIRING DISTANCE RESTRICTIONS OF THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
13. ALL LAMPS, DRIVERS, AND CONTROLS SHALL MEET THE LATEST UTILITY COMPANY INCENTIVE REQUIREMENTS. REFER TO THE LATEST PROGRAM REQUIREMENTS DOCUMENTATION AND COORDINATE WITH THE UTILITY COMPANY TO ENSURE COMPLIANCE.
14. ALL EXIT SIGN LIGHTING SHALL BE CIRCUITED AHEAD OF ANY SWITCH CONTROL FOR CONSTANT "ON" OPERATION. PROVIDE LOCKING DEVICE ON CIRCUIT BREAKER SERVING EXIT SIGNS.
15. EXIT SIGNS TO BE PROVIDED WITH ARROWS AS INDICATED ON DRAWINGS. TYPICALLY MOUNT ON CEILING WHERE VISIBLE OR ON WALL WHERE CEILING MOUNTING IS NOT PRACTICAL. EDGE-LIT SIGNS SHALL GENERALLY HAVE CLEAR PANELS EXCEPT FOR DOUBLE FACED UNITS AND SINGLE FACED UNITS ABLE TO BE VIEWED FROM BEHIND WHICH SHALL HAVE OPAQUE / MIRRORED PANELS. REFER TO ARCHITECTURAL DRAWINGS FOR INDICATION OF MOUNTING REQUIREMENTS.
16. EXIT SIGNS SHALL BE THE SELF-CONTAINED TYPE WITH INTEGRAL BATTERY BACK-UP AND SELF-DIAGNOSTICS WHERE NO LIFE SAFETY POWER SOURCE IS AVAILABLE, REGARDLESS OF MODEL / SERIES SPECIFIED.
17. EXIT SIGNS INSTALLED IN ANY OTHER DESIGNATED AREAS SHALL BE PROVIDED WITH POLYCARBONATE FACE PLATE / SHIELD AS PART OF EXIT SIGN PACKAGE FROM SAME MANUFACTURER.
18. PROVIDE A SELF CONTAINED EMERGENCY LIGHTING UNIT WITH TWIN ADJUSTABLE HEADS (TYPE "EB" WHERE SCHEDULED) AT EACH FIRE ALARM CONTROL PANEL AND REMOTE ANNUNCIATOR. EXACT MOUNTING TO BE COORDINATED IN FIELD WITH ARCHITECT OR ENGINEER.
19. FIXTURES WITH MULTI WATTAGE DRIVERS SHALL BE LABELED FROM THE FACTORY FOR THE WATTAGE SPECIFIED TO ENSURE COMPLIANCE WITH ENERGY CODE CALCULATIONS.
20. FINISH FOR ALL FIXTURES SHALL BE SELECTED BY THE ARCHITECT FROM THE MANUFACTURER'S CATALOG OPTIONS.
21. WHERE FIXTURES OTHER THAN THE SPECIFIED PRODUCTS ARE PROPOSED, THE CONTRACTOR SHALL PROVIDE LIGHT LEVEL CALCULATIONS (WHEN REQUESTED BY ENGINEER) IN ACCORDANCE WITH IESNA STANDARDS TO JUSTIFY THAT THE SUBSTITUTED FIXTURES ARE OF EQUAL PERFORMANCE TO THE SPECIFIED PRODUCTS (APPLIES TO ALL FIXTURES IN ALL SPACES.)
22. EVERY SPACE ENCLOSED BY FLOOR TO CEILING WALLS SHALL BE PROVIDED WITH A MINIMUM OF ONE MANUAL LIGHTING SWITCH AND ONE CEILING MOUNTED OCCUPANCY SENSOR. ADDITIONAL CONTROLS SHALL BE AS INDICATED ON THE PLAN OR AS SPECIFIED ELSEWHERE.

ELECTRICAL GENERAL NOTES

1. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED, AND COORDINATION WITH ALL TRADES. SCOPE OF WORK IS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLIMENTARY. WORK INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.
2. COORDINATE WITH THE GENERAL CONTRACTOR, OTHER TRADES AND OF MANUFACTURERS EQUIPMENT AND MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E., POWER, CONTROL, INTERLOCK, ETC.
3. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE ELECTRICAL CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY CODES AND AUTHORITIES.
4. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, CODES, LOCAL AUTHORITIES AND REGULATIONS. INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, APPROVALS AND CERTIFICATIONS.
5. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.
6. FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE ELECTRICAL WORK COMPLETE AND READY FOR OPERATION.
7. SUPPORT ALL WORK FROM THE BUILDING STRUCTURE.
8. ALL MOUNTING HEIGHTS ARE TO CENTERLINE UNLESS OTHERWISE INDICATED.
9. IF EXACT MOUNTING OR RACEWAY ROUTINGS ARE NOT INDICATED (LOCATION OR HEIGHT) REQUEST CLARIFICATION PRIOR TO ROUGHING, OR INSTALLATION.
10. ELECTRICAL WORK SHALL BE RECESSED INTO WALLS OR INSTALLED ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.
11. DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE 24 INCH SPACING IN FIRE RATED WALLS.
12. PROVIDE ELECTRICAL OUTLET PLATE GASKET SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.
13. WIRE AND CONDUIT SIZES INDICATED ON HOMERUNS SHALL BE CONTINUOUS THROUGHOUT CIRCUIT.
14. FURNISH AND INSTALL CODE REQUIRED DISCONNECTS WHICH ARE NOT FURNISHED BY THE HVAC OR PLUMBING CONTRACTORS.
15. INSTALL A GREEN GROUNDING CONDUCTOR WITHIN EACH RACEWAY SIZED IN ACCORDANCE WITH THE ELECTRIC CODE.
16. PROVIDE WATERTIGHT AND GAS TIGHT SEALS INSIDE AND OUTSIDE OF CONDUITS THAT PENETRATE THE BUILDING BELOW GRADE. O.Z. GEDNEY OR APPROVED EQUAL. PROVIDE WEATHER TIGHT SEAL AT PENETRATIONS ABOVE GRADE.
17. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (SLAB TO SLAB) WALLS. FIRE STOPPING BY G.C., REFER TO SECTION 078413.
18. USE CAUTION TO AVOID DAMAGE TO EXISTING UTILITY LINES AND/OR HARM TO PERSONNEL WORKING IN THESE AREAS.
19. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER MINIMUM #12 AWG. SIZE UNLESS OTHERWISE INDICATED.
20. PROVIDE A PULL LINE IN EVERY EMPTY CONDUIT PROVIDED UNDER THIS SECTION.
21. WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
22. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
23. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE PROVIDED.
24. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
25. RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (THREE PHASE AND THREE NEUTRALS) AND GROUNDING CONDUCTOR, UNLESS OTHERWISE INDICATED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH SINGLE PHASE RECEPTACLE CIRCUIT UNLESS AN OVERSIZED NEUTRAL IS SPECIFICALLY INDICATED.

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PHASE II: PLYMOUTH TOWN HALL

PLYMOUTH, MA

TOWN OF PLYMOUTH

11 LINCOLN ST.
PLYMOUTH, MA 02360

NO	DATE	BY	DESCRIPTION
1	08/28/2015	MLP	ADDENDUM #2

DATE: 07/29/15

DRAWN BY: SH

JOB NO: 1420

SCALE:

LIGHTING FIXTURE SCHEDULE & DETAILS

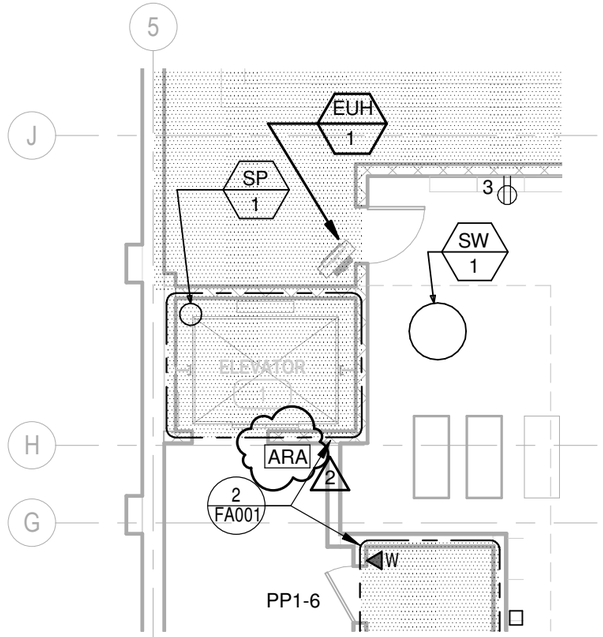
E002

Bid and Construction

TECHNOLOGY

SRP	SMART RESCUE PHONE. CUSTOM BACK BOX FURNISHED BY IT SUBCONTRACTOR AND INSTALL BY E.C. 1" CONDUIT W/PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.. DEVICE AND WIRING BY I.T. SUBCONTRACTOR.
ARA	AREA OF RESCUE ASSISTANCE BUTTON. CUSTOM BACK BOX FURNISHED BY IT SUBCONTRACTOR AND INSTALL BY E.C. 1" CONDUIT W/PULL STRING TO NEAREST ACCESSIBLE CEILING SPACE BY E.C.. DEVICE AND WIRING BY I.T. SUBCONTRACTOR.

2



1 / SKE001 BASEMENT PLAN - POWER
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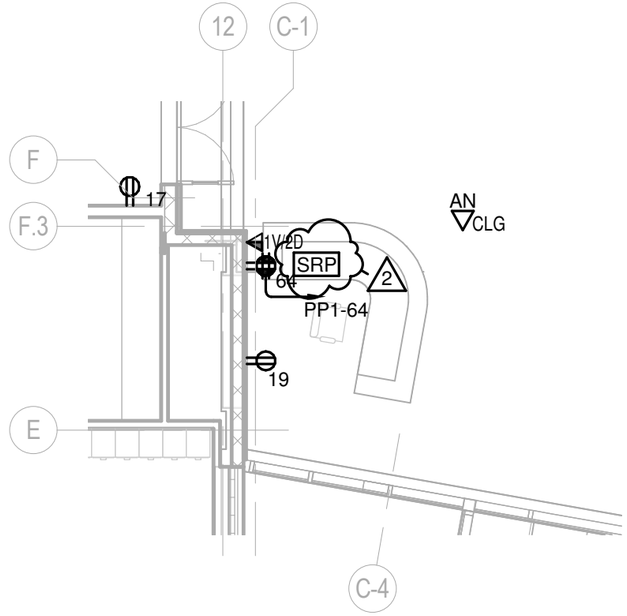

2 / SKE001 FIRST FLOOR PLAN - POWER
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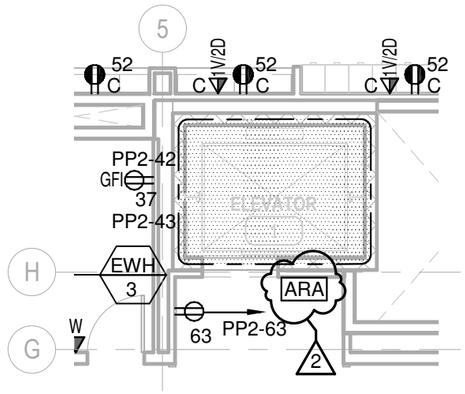

3 / SKE001 SECOND FLOOR PLAN - POWER
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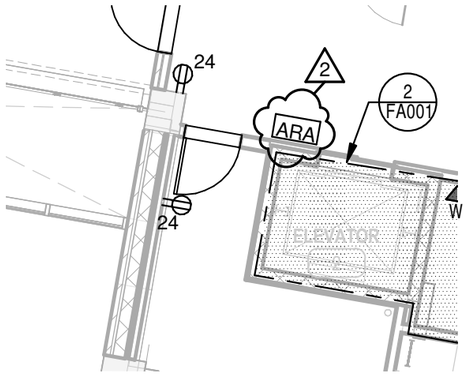

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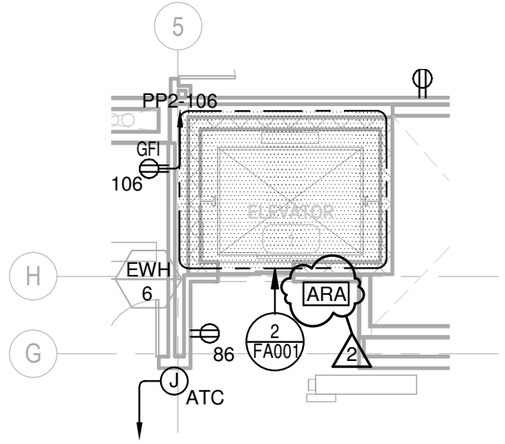

5 / SKE001 THIRD FLOOR PLAN - POWER
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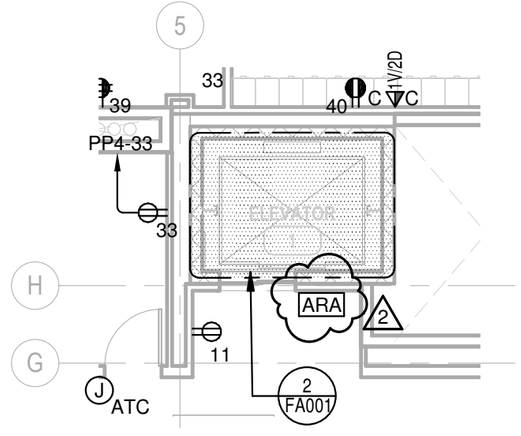

6 / SKE001 FOURTH FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

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PLYMOUTH, MA 02360

SCALE:	1/8" = 1'-0"
DRAWN:	MLP
JOB NO:	1420

PHASE II: PLYMOUTH TOWN HALL
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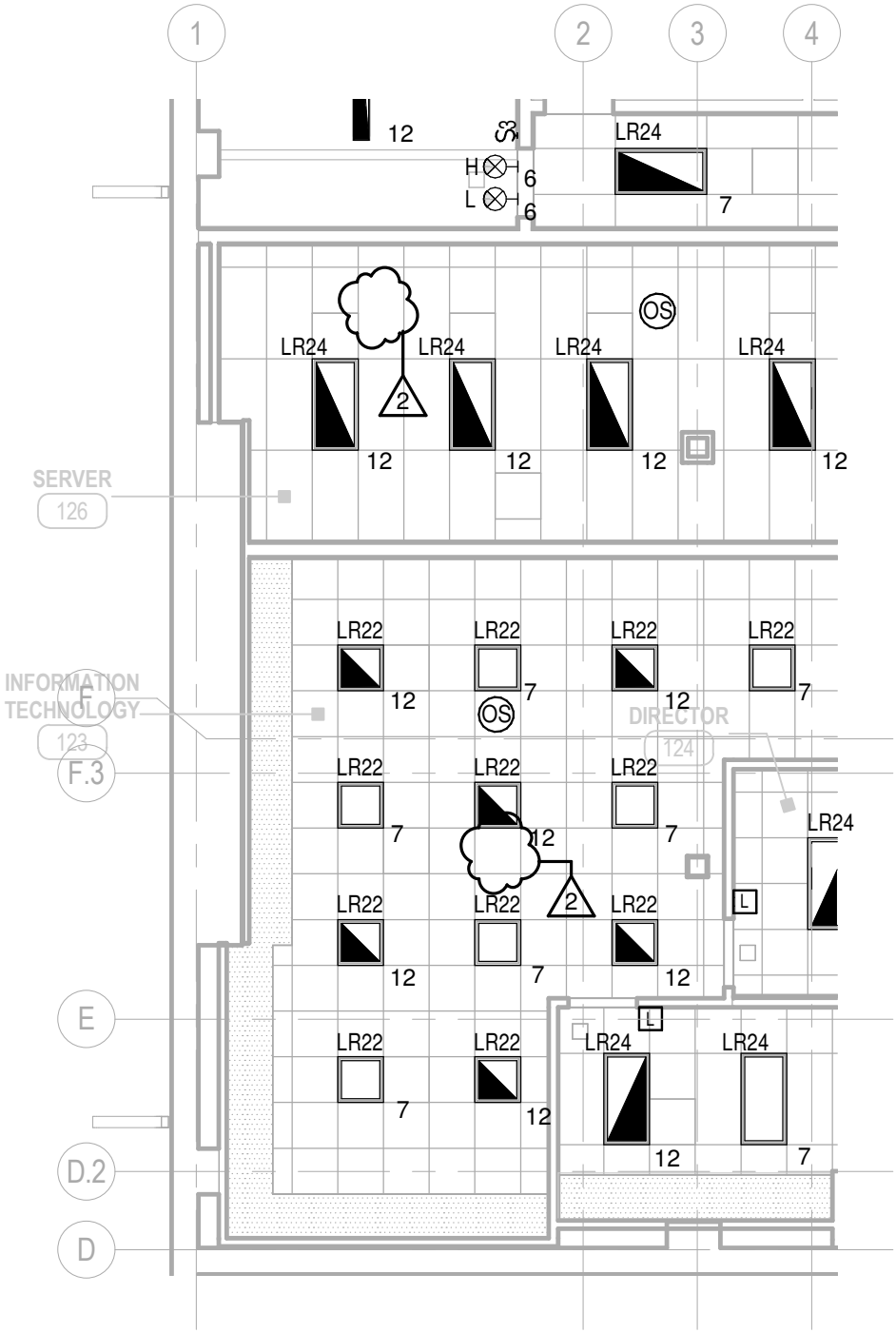
POWER PLAN REVISIONS

ISSUED FOR:	ADDENDUM #2
DATE ISSUED:	08/28/2015
REVISION DATE:	08/28/2015

SKE001



1 / SKE002 FIRST FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

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PHASE II: PLYMOUTH TOWN HALL
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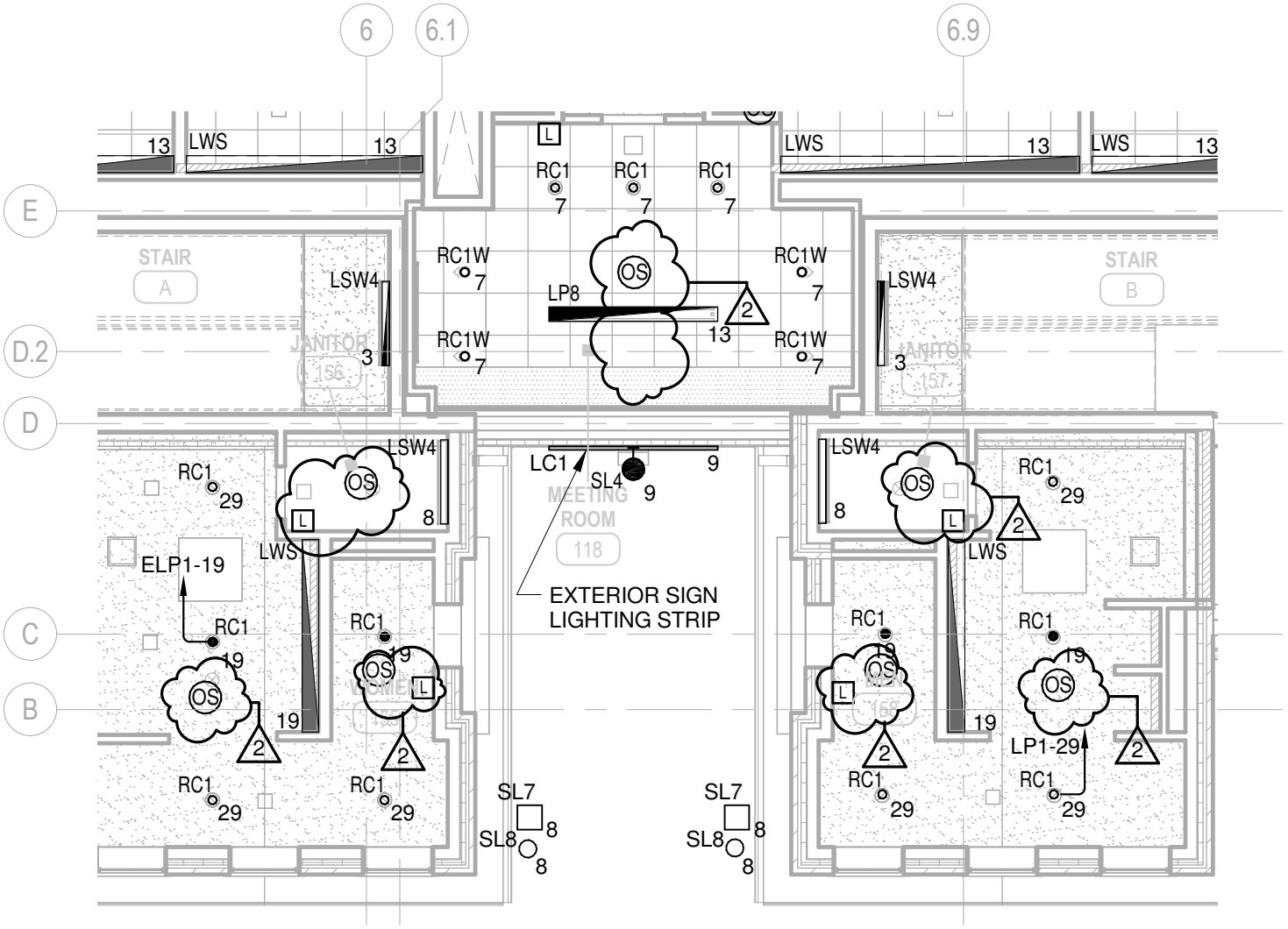
FIRST FLOOR LIGHTING REVISION

SCALE:	1/8" = 1'-0"
DRAWN:	Author
JOB NO:	1420
ISSUED FOR:	ADDENDUM #2
DATE ISSUED:	08/28/2015
REVISION DATE:	08/28/2015

SKE002



1 / SKE003 FIRST FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

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SCALE:	1/8" = 1'-0"
DRAWN:	MLP
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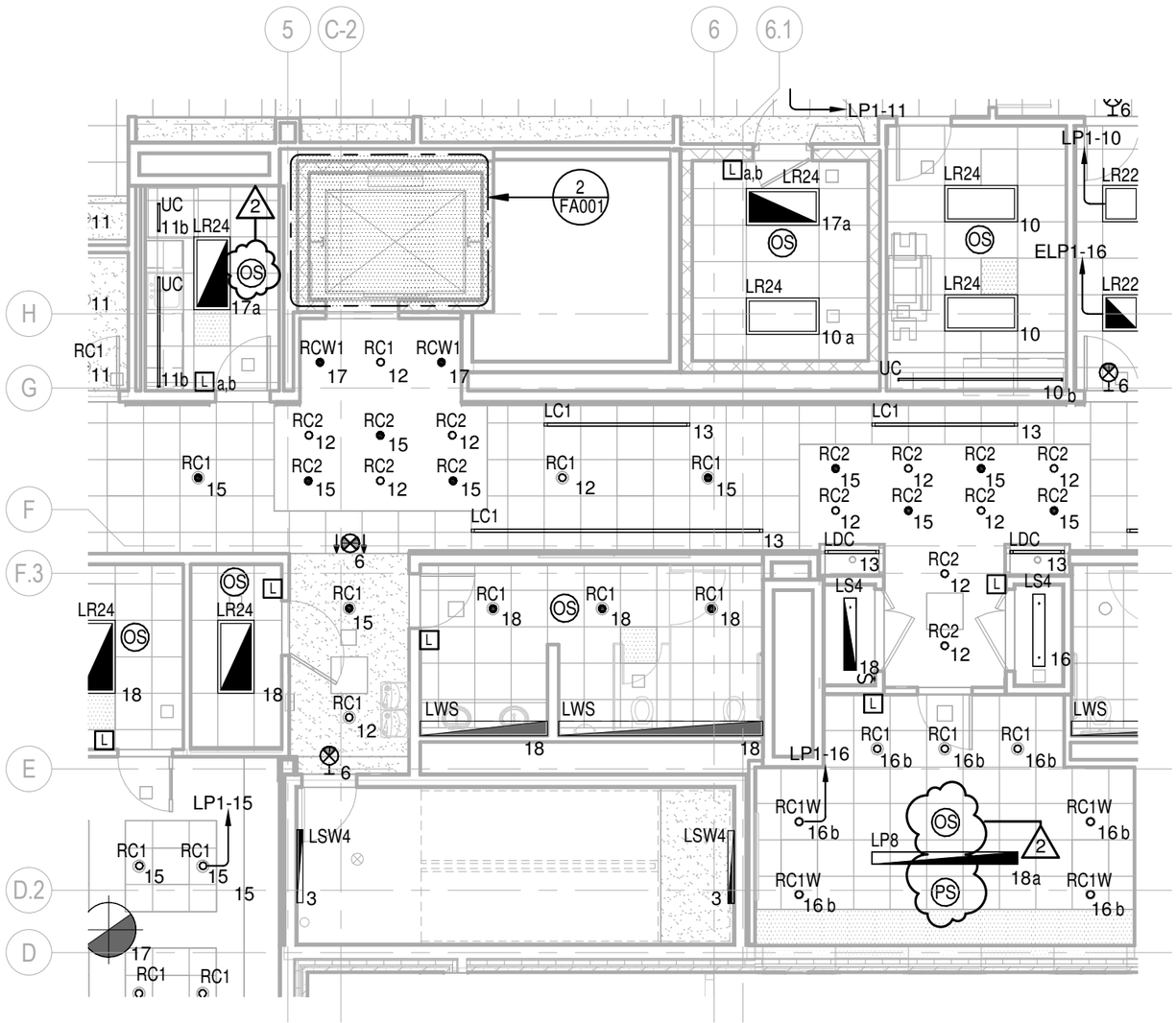
PHASE II: PLYMOUTH TOWN HALL
PLYMOUTH, MA

FIRST FLOOR LIGHTING REVISION

ISSUED FOR:	ADDENDUM #2
DATE ISSUED:	08/28/2015
REVISION DATE:	08/28/2015

SKE003



1 SKE004 SECOND FLOOR PLAN - LIGHTING

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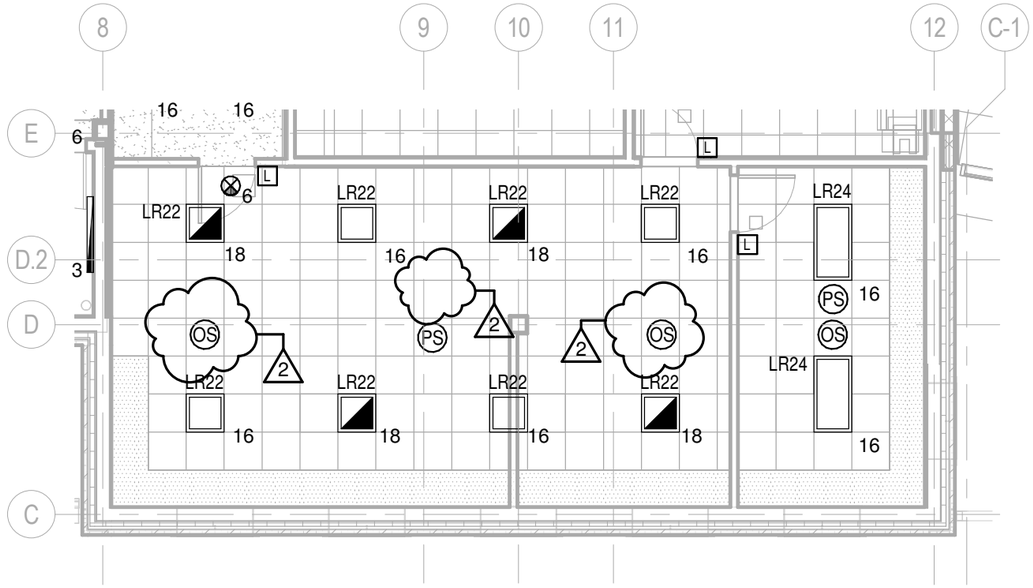

2 SKE004 SECOND FLOOR PLAN - LIGHTING

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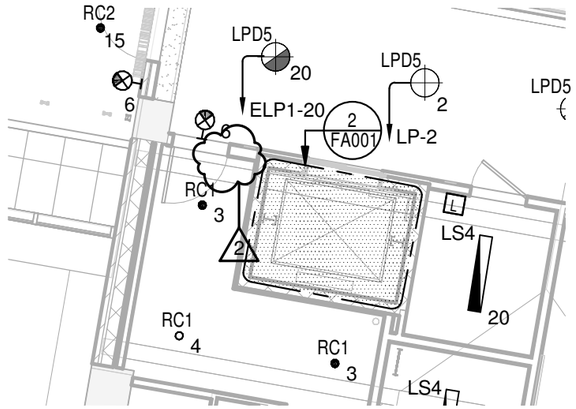

3 SKE004 SECOND FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

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SCALE:	1/8" = 1'-0"
DRAWN:	MLP
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PHASE II: PLYMOUTH TOWN HALL
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SECOND FLOOR LIGHTING REVISION

ISSUED FOR:	ADDENDUM #2
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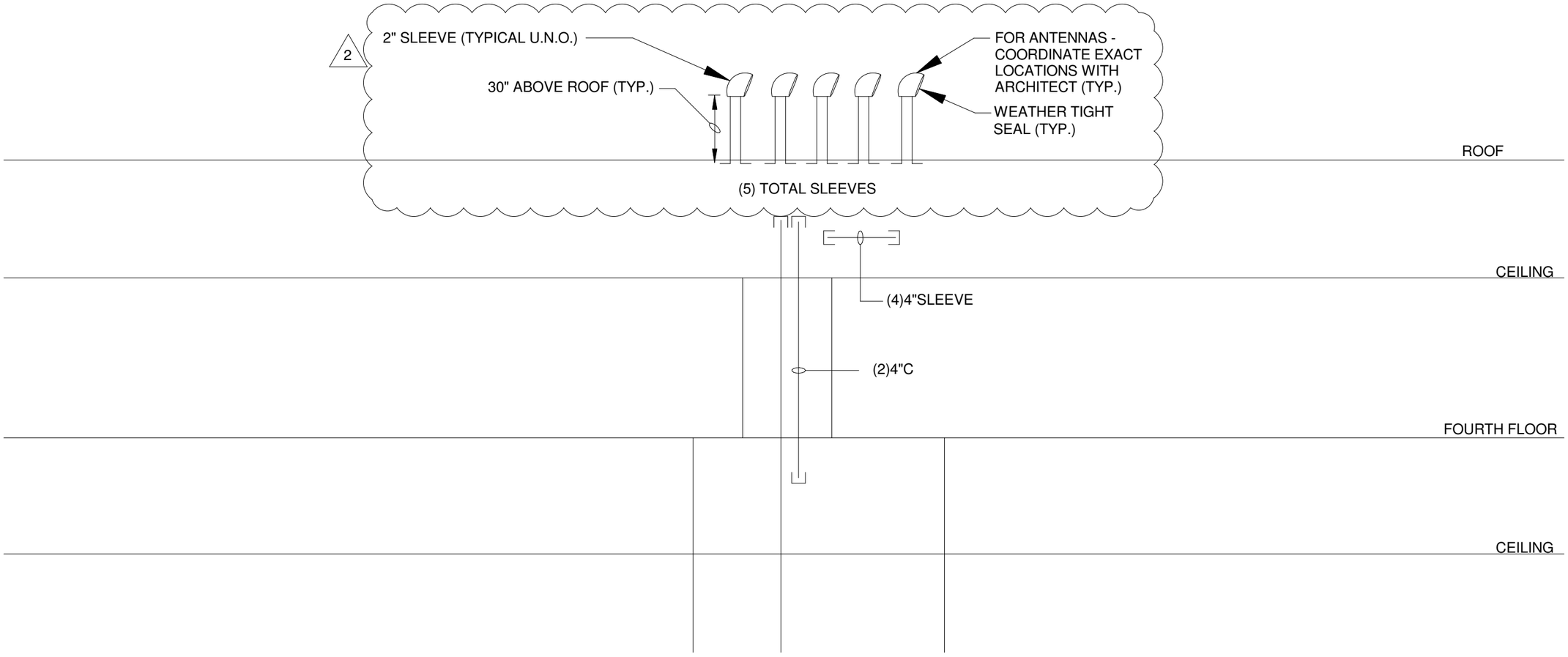
REVISION DATE:	08/28/2015

SKE004



1 / E306 TELECOMMUNICATIONS CONDUIT & GROUNDING RISER DIAGRAM

SCALE: NTS

NOTES:

1. COORDINATE ALL SLEEVE LOCATIONS WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
2. COORDINATE ALL CONDUIT ROUTING WITH TELECOMMUNICATIONS CONTRACTOR. PROVIDE PULL BOXES WHERE CONDUIT BEND EXCEEDS A TOTAL OF 180 DEGREES OR DISTANCE EXCEEDS 150'. ALWAYS ALIGN CONDUITS ON OPPOSITE ENDS OF PULL BOX.
3. PULL BOX SIZES FOR 4" CONDUITS SHALL BE MINIMUM 15" WIDE X 60" LONG X 8" DEEP. INCREASE WIDTH OF PULL BOX 8" FOR EVERY ADDITIONAL 4" CONDUIT.
4. ALL CONDUIT BENDS SHALL BE MINIMUM 36" RADIUS.
5. DO NOT RUN CONDUITS PARALLEL WITH POWER CONDUITS. MAINTAIN MINIMUM OF 4' CLEARANCE.
6. E.C. SHALL BOND ALL CABLE TRAY TO "TGB" IN RESPECTIVE DATA ROOM WITH #6 GROUND. THE CABLE TRAY SHALL BE ELECTRICALLY CONTINUOUS THROUGH. ENTIRE RUN INCLUDING ALL FITTINGS.

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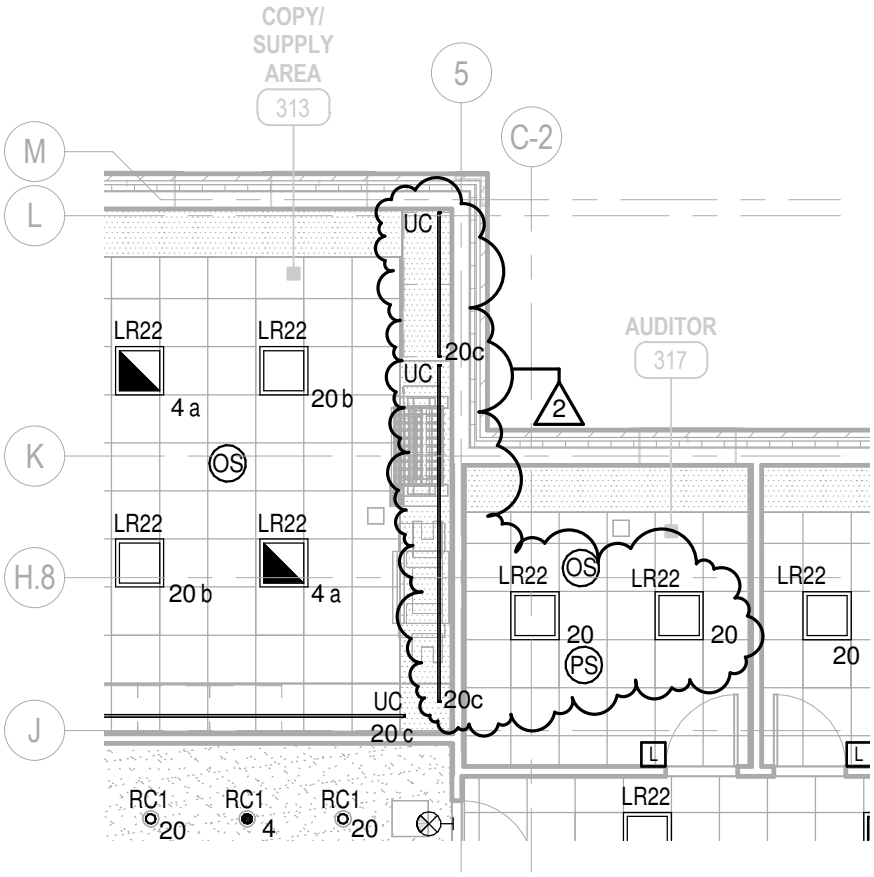
SCALE:	AS NOTED
DRAWN:	MLP
JOB NO:	1420

PHASE II: PLYMOUTH TOWN HALL
PLYMOUTH, MA
REVISED TELECOMMUNICATIONS CONDUIT RISER

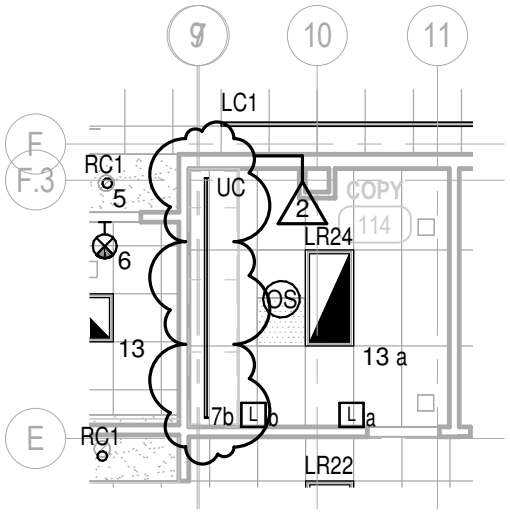
ISSUED FOR:	ADDENDUM #2
DATE ISSUED:	08/28/2015
REVISION DATE:	08/28/2015

SKE005



1 / SKE006 THIRD FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"



2 / SKE006 FIRST FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

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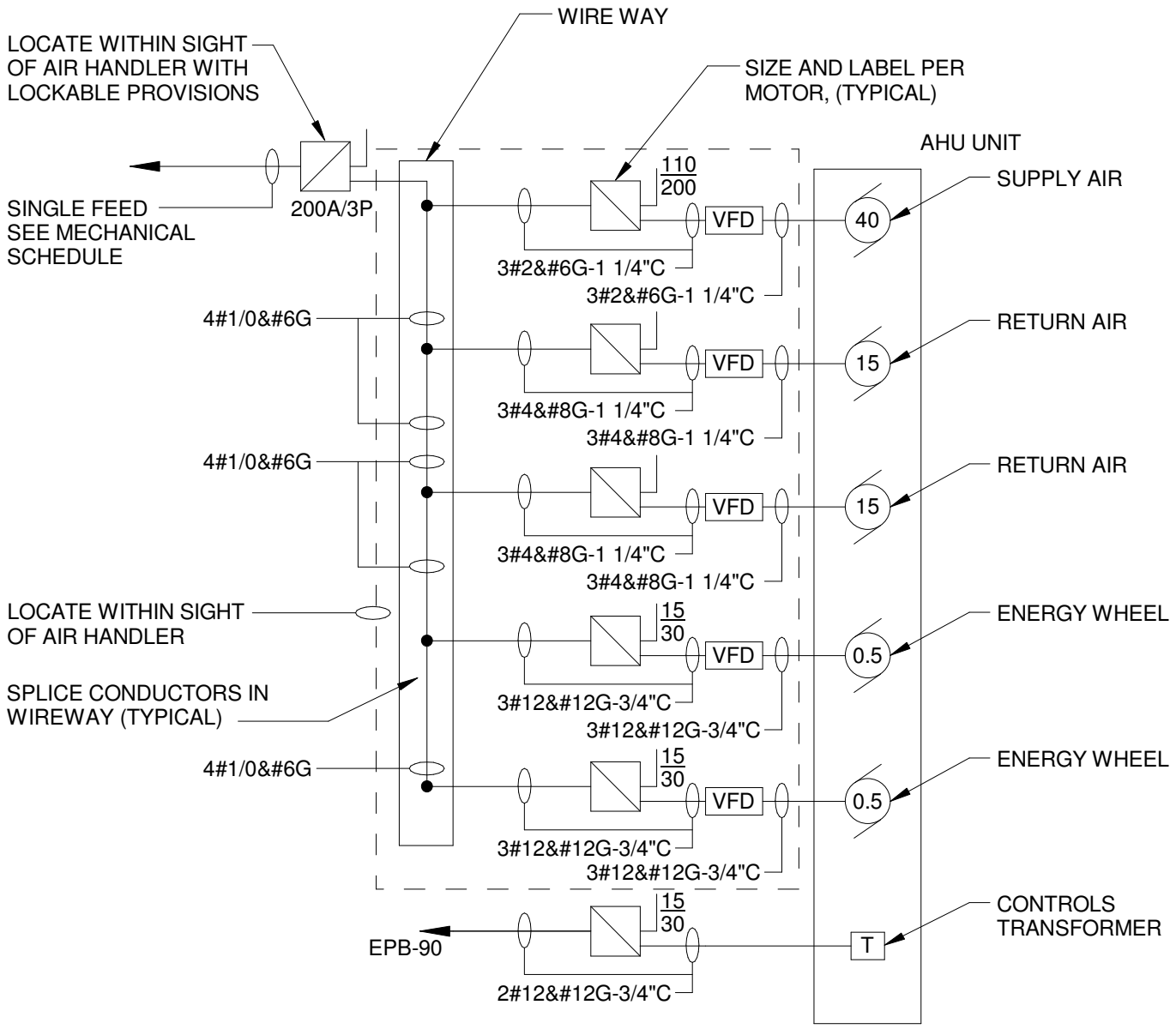
PHASE II: PLYMOUTH TOWN HALL
PLYMOUTH, MA

REVISED LIGHTING PLANS

SCALE:	1/8" = 1'-0"
DRAWN:	MLP
JOB NO:	1420
ISSUED FOR:	ADDENDUM #2
DATE ISSUED:	08/28/2015
REVISION DATE:	08/28/2015

SKE006



2

2 / E3.06 AHU-1 UNIT WIRING DIAGRAM

SCALE : N.T.S.

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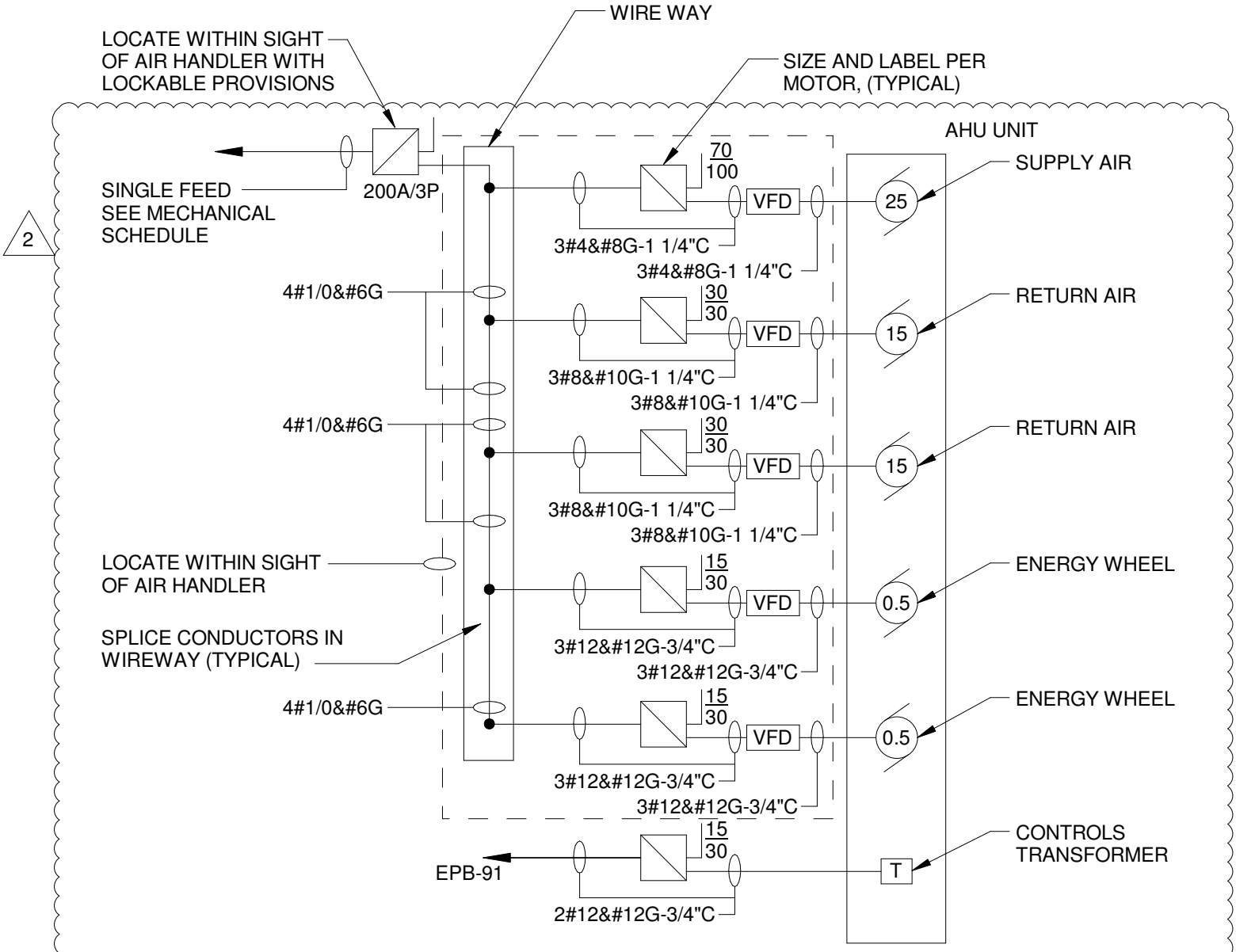
PHASE II: PLYMOUTH TOWN HALL
PLYMOUTH, MA

REVISED AHU-1

SCALE:	
DRAWN:	MLP
JOB NO:	1420
ISSUED FOR:	ADDENDUM #2
DATE ISSUED:	08/28/2015
REVISION DATE:	08/28/2015

SKE007



3
E3.06

AHU-2 UNIT WIRING DIAGRAM

SCALE : N.T.S.

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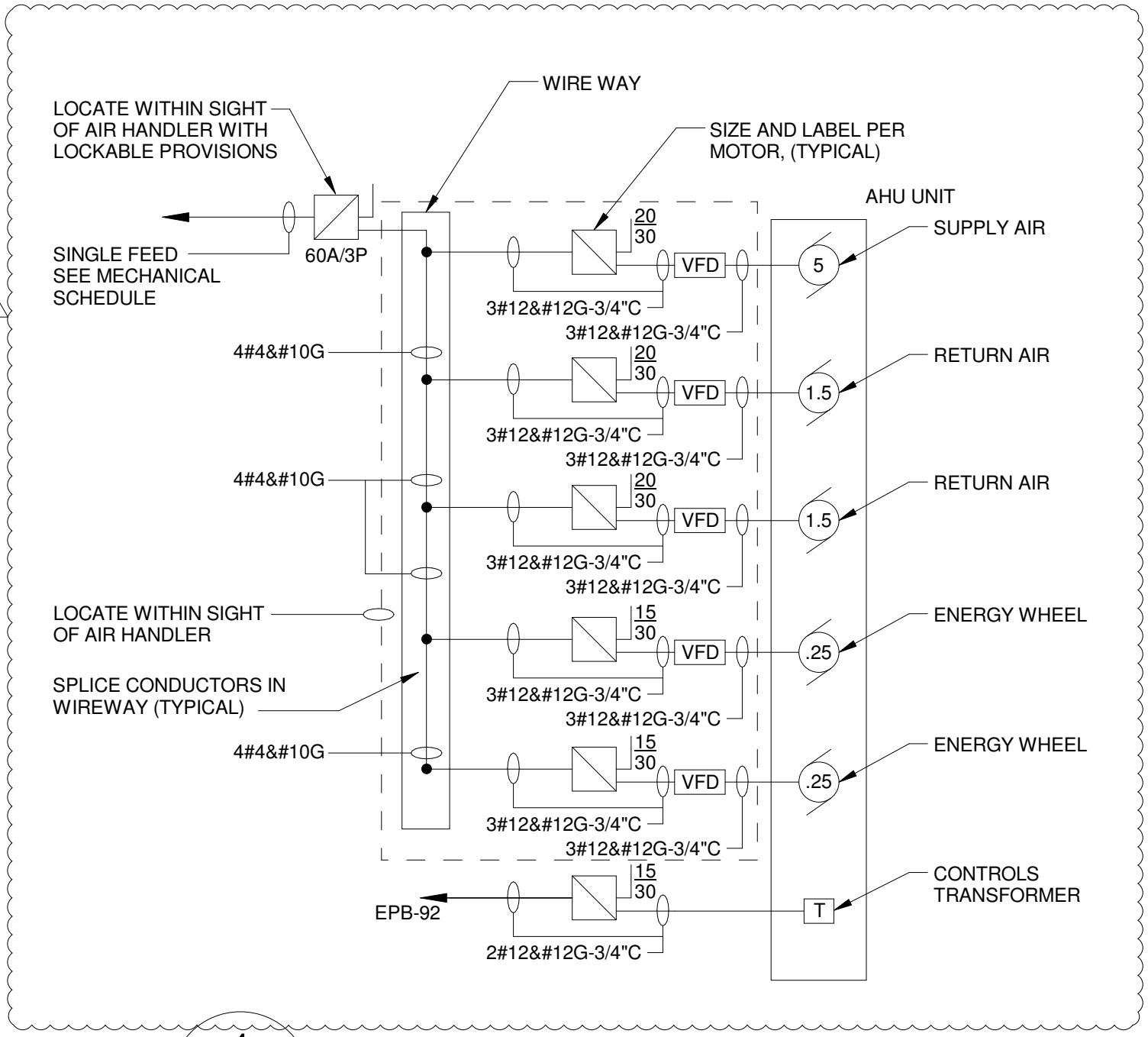
PLYMOUTH, MA 02360

PHASE II: PLYMOUTH TOWN HALL
PLYMOUTH, MA

REVISED AHU-2

SCALE:	
DRAWN:	Author
JOB NO:	1420
ISSUED FOR:	ADDENDUM #2
DATE ISSUED:	08/28/2015
REVISION DATE:	08/28/2015

SKE008



4
E3.06

AHU-3 UNIT WIRING DIAGRAM

SCALE : N.T.S.

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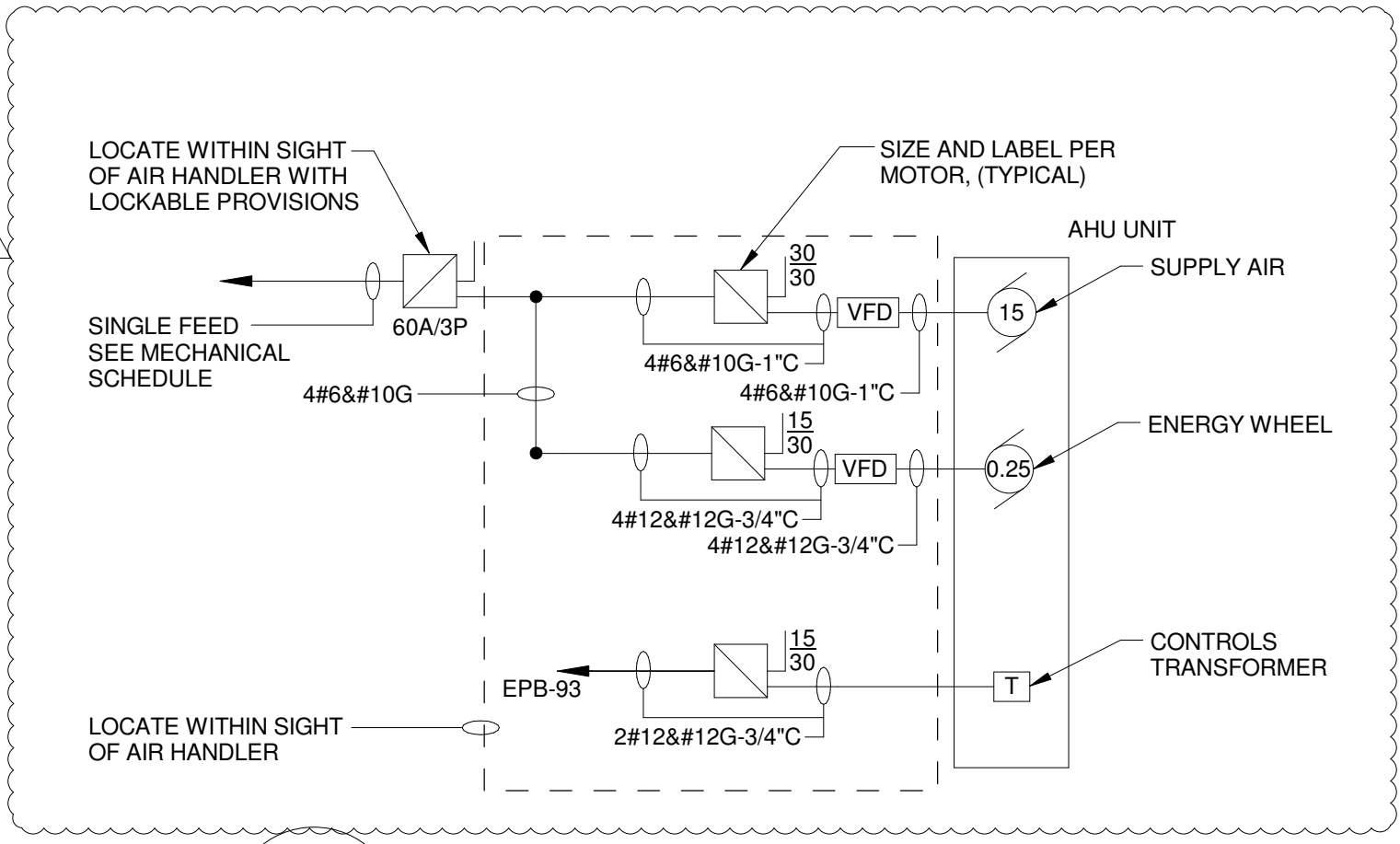
PLYMOUTH, MA

REVISED AHU-3

SCALE:	
DRAWN:	MLP
JOB NO:	1420
ISSUED FOR:	ADDENDUM #2
DATE ISSUED:	08/28/2015
REVISION DATE:	08/28/2015

SKE009



5
E3.06

AHU-4 UNIT WIRING DIAGRAM

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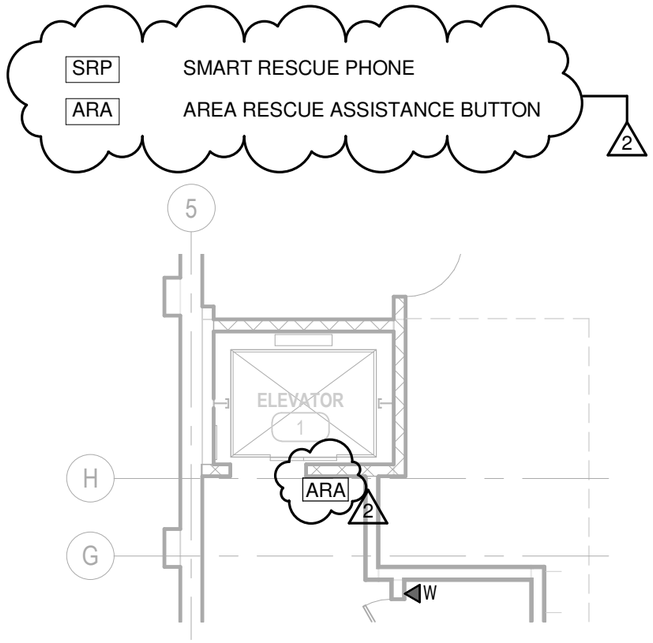
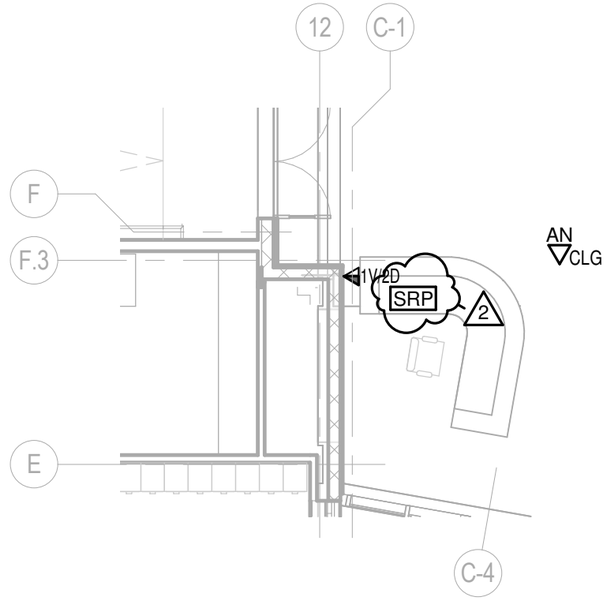
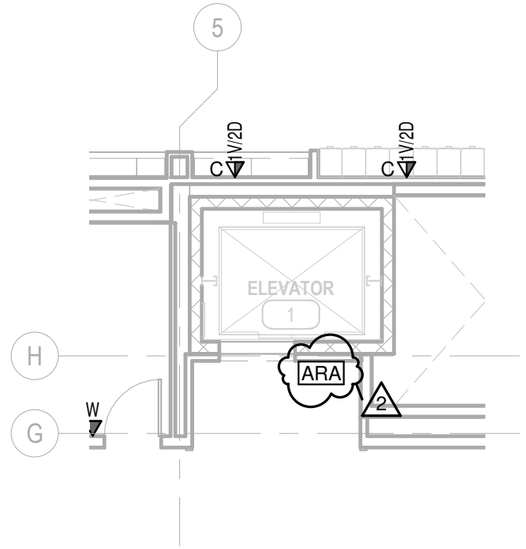
SKE010



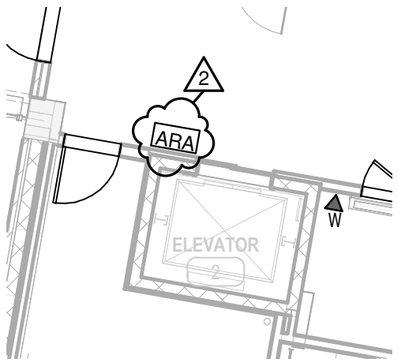
1 SKTC001 BASEMENT PLAN - TECHNOLOGY
SCALE: 1/8" = 1'-0"



2 SKTC001 FIRST FLOOR PLAN - TECHNOLOGY
SCALE: 1/8" = 1'-0"



3 SKTC001 SECOND FLOOR PLAN - TECHNOLOGY
SCALE: 1/8" = 1'-0"



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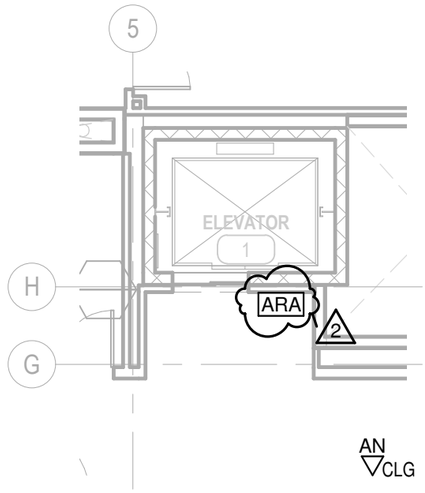
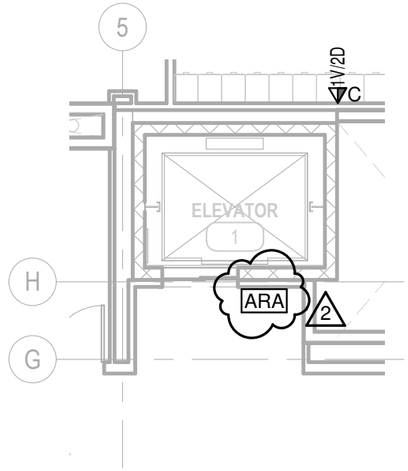
SCALE: 1/8" = 1'-0"



5 SKTC001 THIRD FLOOR PLAN - TECHNOLOGY
SCALE: 1/8" = 1'-0"



6 SKTC001 FOURTH FLOOR PLAN - TECHNOLOGY
SCALE: 1/8" = 1'-0"

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TECHNOLOGY PLAN REVISIONS

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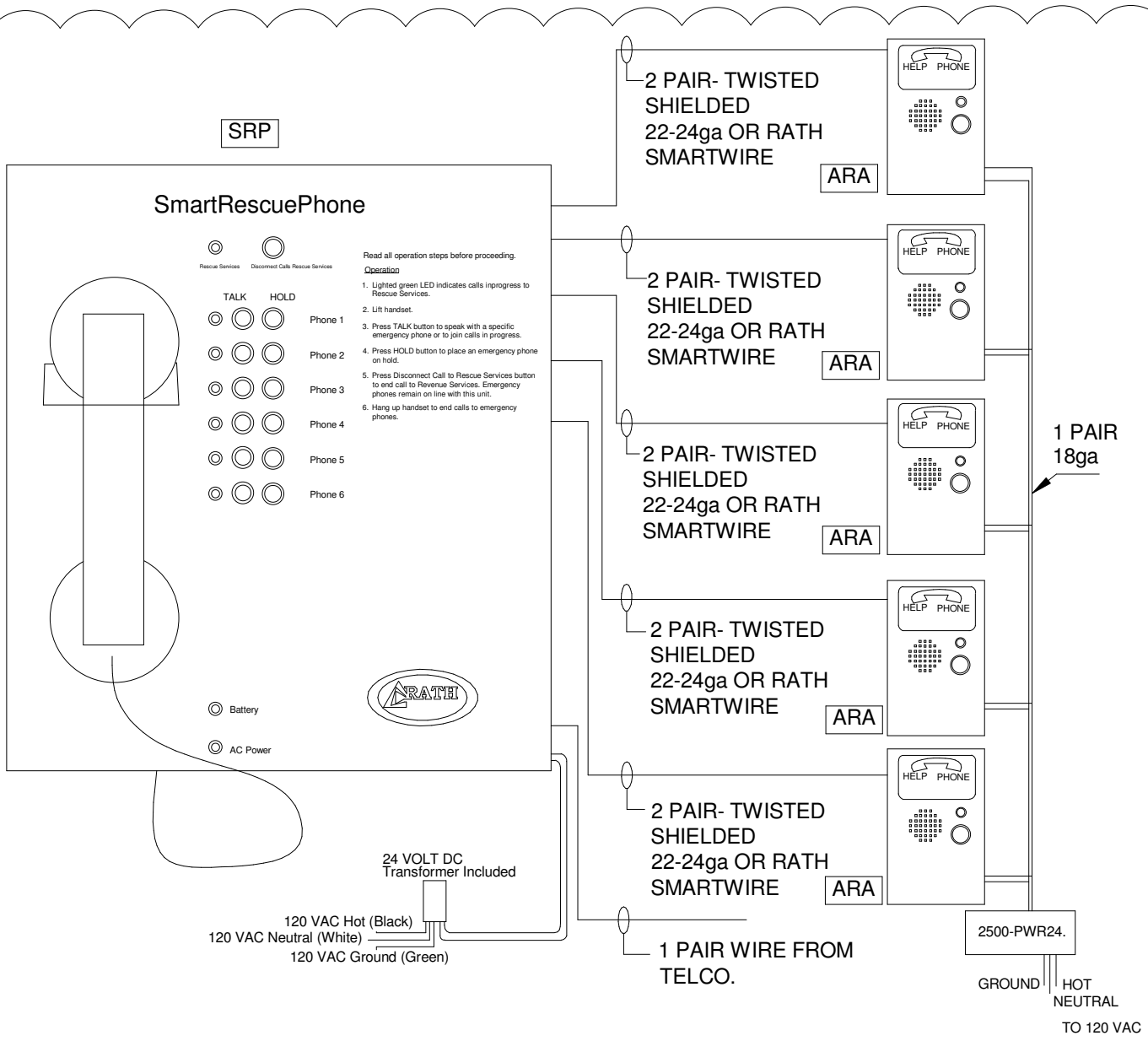
SKTC001



12

TC300

SMARTRESCUE BASE STATION WIRING DIAGRAM

SCALE: N.T.S.

SRP SMART RESCUE PHONE

ARA AREA RESCUE ASSISTANCE BUTTON

2

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ARA PHONE BASE STATION WIRING DIAGRAM

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SKTC002