LAVALLEE | BRENSINGER ARCHITECTS

ADDENDUM NO. 3

March 4, 2016

Re: Sanford High School and Technical Center
12-067-00

To: Bidders and All Others to Whom Bidding Documents have been issued.

All items in this Addendum shall supersede or clarify the Bidding Documents as originally issued. The cost of the Work of all trades affected by the changes in this Addendum shall be included in the Base Bid or Alternates, on the Proposal Form, as applicable. Failure to do so may subject the Bidder to disqualification. This Addendum forms a part of the Contract Documents. It supplements and/or modifies them as follows:

Item No. 3.1 **Reference Specification 10 44 00:** Question: In the fire protection specialties spec section 10 44 00 under Schedule it says to include one cabinet mounted fire extinguisher FE36 type 5BC in all computer labs and classrooms. What exactly do you define as a classroom? Is it just the rooms labeled Classroom? There are many different types of rooms in the building that could be considered classrooms – Please clarify.
Answer: 10 44 00, 3.03 A, Delete item 4. And replace with "Twelve Cabinet Mounted Fire Extinguishers FE-36 Type 5BC to be located by the Architect during construction (in computer intense classrooms/labs)"

Item No. 3.2 **Reference Specification 32 12 93:** Question: The specification for Greenfields turf requires a fiber length of 2" while Field Turf requires a 2.5" fiber. Please clarify is this is correct.
Answer: This is correct. To further clarify, the average Gmax (per ASTM F355 and F1936) rating for any system should not exceed 125 at completion and will not exceed 165 for a period of 8 years. The manufacturer shall submit verification including testing data of this at the time of submittals. Should additional infill or fiber length be needed to obtain this rating, the manufacturer shall provide this at no additional cost.

Item No. 3.3 **Reference Drawing A8.52.** Question: Drawing A8.52/B1 (SPARTANS) calls for 34" cast aluminum letters. Will fabricated aluminum letters at 34" x 2" be acceptable?
Answer: Fabricated Aluminum will be accepted with a minimum thickness of 12 gage.

Item No. 3.4 **Reference Specification 10 50 00** Question: Please confirm if all sub trades are responsible for their own rigging, hoists, cranes, lifts, staging, etc. required for their work. Section 01 50 00 part 3.03 D 4 seems to imply that.
Answer: 01 50 00 3.03 D 3 states the Contractor (GC in this case) is responsible for all hoisting equipment unless its "peculiar" to the needs of a subcontractor in which case per 3.03 D 4 the subcontractor needs to provide. The Contractor (GC) needs to make sure ultimately all hoisting is covered and know what his/her selected subcontractor has or has not carried.

Item No. 3.5 **Reference Specification 06 10 00** Question: Please provide additional details and/or sketches of the proposed wood framed building per specification section 06 10 00. Also please provide the final location where this building will be installed.
Answer: See drawing A5.41. This is within the residential wiring lab. Also, the notes for wood framing at the gables and roof of the storage building on A8.01 should also refer to 06 10 00 rather than 06 10 54.

Item No. 3.6 **Reference Specification 31 23 15** Question: Please confirm that section 31 23 15 Building Pad Earthwork is expected to be completed by Sub-Bid Package F contractor. The individual section is not designated as such.
Answer: Yes, Section 31 23 15 should be part of Filed Sub Bid Package F per Section 1-B.

Item No. 3.7 **Reference Specification 09 21 16** Question: Please clarify if the term "install" in Sub-Bid Package B's section 09 21 16 3.03G.
Answer: The blocking should be furnished and installed as part of the 06 10 54 which is NOT in Filed Sub Bid Package B. There is coordination necessary between the subcontractor of 09 21 16 and 06 10 54. In addition, to properly engineer the metal studs, Filed Sub Bidders will need coordinate with the General Contractor to verify where loads are being applied to the walls and the placement of blocking necessary to accommodate those loads. Submittals for Filed Sub Bid Package B (shop drawings) should show locations for blocking with anticipated loads noted.

Item No. 3.8 **Reference Electrical Specifications.** Question: The Spec calls for a MTS but I cannot find it on the one line. Can you advise as to what is required? Answer: There is no MTS on this project.

Item No. 3.9 **Reference Specification 12 36 00**. Question: Please clarify what edge is to be provided on the epoxy resin counter tops. Spec section 123600-2.02-A7 calls for the edge to be 3/16 inch radius bullnose corner. We do not find bullnose edges available from any of the listed manufacturer's. Edges shown on drawing for lab casework are shown as square edge. The standard detail from Durcon show what is be provided with Machined radius front edge with radius corners at ¼" radius. Answer: Manufacturers standard ¼" radius, machine edge, is acceptable.

Item No. 3.10 **Reference Addendum 2.** Question: ITEM No. 2.80. What rooms are to receive phone list per A0.60 and what size should these be?
Answer: At all rooms with an information center (IC), as noted on drawings. Size to be 8.5 x 11 acrylic window sign as manufactured by Graphic Components, or equal.

Item No. 3.11 **Reference Specification 32 84 00** Question: Irrigation specs for synthetic field system are very vague – please provide specs on HDPE piping system, fittings, pump if needed, heads, swing joints, valves, etc…
Answer: Irrigation Head specifications for the synthetic field system were provided in Addendum #2, HDPE piping, fittings, valves and other relevant materials are provided in Section 32 84 00 – Irrigation Components and/or systems.

Item No. 3.12 **Reference Specification 32 84 00** Question: Related to irrigation, would be possible to install heads on outer playing surface of synthetic field? I fully understand trying to water all areas but 10 boxes with mechanical fitting inside the playing surface
Answer: Yes, heads at the outer playing surface would be acceptable, if modified contractor will be responsible for submitting alternate design for approval and to ensure equal coverage and application rate.

Item No. 3.13 **Reference Specification 32 84 00** Question: Are the three irrigation meter/backflow set ups to be above ground? If so need specs on pads and enclosures (I could not find detail)
Answer: Yes, the Sanford Water District requested that the meter and backflow be aboveground. A detail is included on Sheet 65.

Item No. 3.14 **Reference Specification 32 84 00** Question: Is there any irrigation on field #2 softball?
Answer: No, there is a stub provided for future irrigation.

Item No. 3.15 **Reference Specification 32 84 00** Question: I see one controller for fields #1 but two water set ups – would it be possible to have one service for these fields to cut down on overall costs and future maintenance?
Answer: This would be acceptable.

Item No. 3.16 **Reference Specification 08 80 00** Question: Section 88000, page 2 calls for types IG-1 & IG 1A, IG-2, IG-3 to have clear glass. Page 7 calls for same to use Guardian Sunguard Light Blue 63 and Sunguard 15. Per the manufacturer those products do not exist. The Light Blue 63 was discontinued and is not available, and the Sunguard 15 doesn't exist at all. Please provide what glass is to be used for IG1/1A, IG2 & IG3.
Answer: Provide clear glass with coatings equal to the basis of design to be selected from Manufacturer's full range. Revise specification 08 80 00 for revised glass selections at IG-1, IG-1a, IG-2 and IG-3 as follows:

2.05 SEALED INSULATING GLASS UNITS

A. Sealed Glass Assemblies Basis of Design:

1. IG-1: Sunguard ~~Light Blue 63~~ ***Super Neutral 68*** on Clear Low-E (#2) and Sunguard ~~15~~ ***IS-20*** (#4); panels fabricated by Guardian Sunguard Advanced Architectural Glass.
1. IG-1A: Sunguard Super ~~Neutral 68~~ ***Neutral 50*** on Clear Low-E (#2) and Sunguard ~~15~~ ***IS-20*** (#4); panels fabricated by Guardian Sunguard Advanced Architectural Glass.
2. IG-2: Sunguard ~~Light Blue 63~~ ***Neutral 50*** on Clear Low-E (#2) and opacifier panel by Guardian (#4); panels fabricated by Guardian Sunguard Advanced Architectural Glass.
3. IG-3: Sunguard ~~Light Blue 63~~ ***Neutral 50*** on Clear Low-E (#2) and satin-deco etched panel by Guardian (#3); panels fabricated by Guardian Sunguard Advanced Architectural Glass.

Item No. 3.17 **Reference Specification 08 80 00, 08 51 13, 08 43 13 08 44 13 and Related Drawings.** Question: Please clarify what type of windows are used in what locations.
Answer: The following is a clarification on the correct specification section for the windows and aluminum framing.

- Revise specification section 08 80 00 2.08 C. to "Insulated Sliding Glass Window"
- 08 51 13 Aluminum Windows: Types: W1 through W8
- 08 80 00 Insulated Sliding Glass Window: W9
- 08 43 13 Aluminum Storefront (with entrance doors and windows as indicated in 08 43 13 where shown): S1-5, S7-12, S15, S17, S18, S21 –S33, IC2, IC3, IS1-12-35, IS37-38
- 08 44 13 Curtain Wall (with entrance doors and windows as indicated in 08 43 13 where shown): C1-C19, IC1, IC4, IC5, IC6, IC7, IC8
- 08 80 00 Sliding Glass Window: IS36

Item No. 3.18 **Reference Specification 08 44 13** Question: Section 84413, the system specified at 2" wide is not available for 4 side SSG. We would need a system that is 2 ½" wide.
Answer: 2.5" wide is acceptable where the manufacturer cannot accommodate the system in a 2" format.

Item No. 3.19 **Reference Specification 08 44 13** Question: Section 84413 page 3, calls for a 13" deep cover, the drawings are detailed using a 9" deep cover. Which is correct?
Answer: 9" is correct. Revise Specification 08 44 13 2.02 Curtain Wall A. 1. a. 2) to the following: Type 2: EFCO 12L8 9" deep pin on sunshade cover. Provide pressure plate as required by manufacturer

Item No. 3.20 **Reference Specification 08 44 13** Question: Section 84413, page 4 line 4 calls out a custom 6" x 6" post "as indicated on drawings" We went through the details and do not find this condition drawn. If this exists, please provide the location & detail for such.
Answer: Detail J4/A3.61 shows the condition. The location is at Curtain Wall C6. Revise the detail call out for the lower portion of the left jamb (at the IG-2 glazing) to be J4/A3.61.

Item No. 3.21 **Reference Specification A0.38, A0.39, A0.45** Question: Many of these curtain wall frames do not appear to have any mid-span anchor points available. Those points need to be available and/or the mullion depth will need to increase substantially
Answer: The following Curtain Walls exceed unbraced height limitation of curtainwall and mid-span anchors are required: C1, C2, C6, C7, C8, C16. Anchor points to structural steel are available – anchor similar to details J4/A3.17 and E5/A3.35. C7 should be designed to be jamb anchored and span horizontally.

Item No. 3.22 **Reference Electrical Site Drawings** Question: The ES dwgs do not utilize "match lines". Without the "match lines", we are unable to accurately measure the ductbanks as the drawing areas do appear to overlap slightly. Please consider reissuing these dwgs with "match lines".
Answer: Match lines were added to all site drawings, see ES attached drawings.

Item No. 3.23 **Reference Drawings ES2.02** Question: The site electrical dwgs show what appear to be hand-holes tagged EHH, LHH1 and THH1. I see details for EHH and CHH on ES2.06 and LHH1 on ES2.03. Please advise what THH1 is and if and where CHH is to be utilized?
Answer: THH1 and CHH1 are the same. Telecom Hand Hole/Communications Hand Hole shall be all labeled THH1.

Item No. 3.24 **Reference Drawings ES1.01, 1.04, 1.08** Question: ES1.01, ES1.04, and ES1.08 have note 3 indicating Alternate 7 and that the fixture head and wiring is an "add alternate". Section 012300 indicates that Alternate 7 is fencing. However Alternate 15 is a deduct to eliminate signage lighting. Please advise the correct way to price the Base bid and these alternates?
Answer: Drawing note 3 on sheets ES1.01, ES1.04, and ES1.08 shall reference Alternate 15 as described in specification section 012300. Drawing note 3 shall be revised to say "TYPE G1 SIGNAGE FIXTURES AND WIRING ARE TO BE REMOVED UNDER ALTERNATE #15. UNDER BASE BID, PROVIDE DIRECT BURY POLE AND BASE (SEE F1/G1 FIXTURE DIRECT BURIAL POLE MOUNTING DETAIL ON DRAWING ES2.04), FIXTURES, CONDUIT, AND CIRCUITING AS INDICATED. UNDER

ALTERNATE #15, PROVIDE DIRECT BURY POLE AND BASE, AND CAPPED CONDUITS WITH PULL STRINGS FOR FUTURE USE."

Item No. 3.25 **Reference Specification 26 01 00** Question: 260100-1.01-D-1 and E-1 calls for us to include CMP's fees. I had a conversation with the CMP contact listed on dwg C35. He has indicated that CMP has not been provided with enough information as of yet and that CMP will NOT have fixed pricing available. We advise that the specification be amended for Utility fees be excluded from our filed-sub-bid or specify an Allowance amount for us to include.
Answer: See Addendum 2.53

Item No. 3.26 **Reference Specification Divisions 26 and 27** Question: Division 26 spec section are all titled with (Electrical Trade Bid Required). Division 27 spec sections are all titled with (Telecommunication Trade Bid Required). Section 1-B indicates that Sub-Bid Package E includes Div 26 Electrical and Div 27 Communications. Please confirm that we shall provide a single bid inclusive of Div 26 and Div 27?
Answer: Yes, Division 26 and 27 is a single filed sub-bid by the electrical contractor under Field Sub Bid Package E

Item No. 3.27 **Reference Specification 26 71 00** Question: 267100-2.18: Line A calls for us to provide, but line B says furnished by Div 8. Please confirm who is to furnish and install the door holder-closers?
Answer: To be provided by Division 8 and wired by the Electrical Contractor.

Item No. 3.28 **Reference Specification 26 71 00, 2.01** Substitution Request Simplex Grinnell 4100ES shall not be an acceptable substitution for the specified Silent Knight Fire Alarm System.

Item No. 3.29 **Reference Specification 08 80 00** Question: Type IG-4 is described as a custom profile panel, to match details as drawn. When you look at the said detail, there is no custom profile shown. If a custom profile is required please confirm and detail as such.
Answer: Specification description is correct. In details J8/A3.36 and J11 /A3.36 revise the IG-4 insulated metal panel profile to be flush with the Mullion Cover Type 1. In detail J5/A3.64, revise the IG-4 insulated metal panel profile to be flush with the Mullion Cover Type 1 and replace the 08 44 13 SSG frame at the jamb to 08 44 13 Mullion Cover Type 1

Item No. 3.30 **Reference Drawing A0.39** Question: Drawing A0.39 shows designation for type IG-4, but also has reference to those areas as being panels under division 7 spec?
Answer: In the Glazing Schedule for IG-4: replace "07 40 00 – INSUL MTL PANEL" with "08 80 00 – INSUL GLASS – OPAQUE PANELS"

Item No. 3.31 **Reference Drawing A0.39** Question: Drawing A0.39, there is a frame with type IG-1 called out, but is also drawn with a different infill shading than the other areas marked IG-1?
Answer: C2/A0.39 – change IG-1 tags at stippled area to indicate IG-2 08 80 00 INSUL GLASS – SPANDREL C16/0.39 – IG- 1A and 4 only (no IG-1 or 2)

Item No. 3.32 **Reference Specification 13 12 55 and Drawing A8.06** Clarification: See attached Specification 13 12 55 for the away side (smaller) bleacher. Bleacher shall be 500 seat and as shown on the drawings, A8.06. All references on A8.06 should point towards section 13 12 55 instead of 13 12 50 as currently noted.

Item No. 3.33 **Reference Addendum #2** Question: Subcontractor bid form issued w/ Add #2, Section 2-B-3 Item 2.1 Mass Rock Excavation and Off Site Disposal has Add/Deduct Pricing. Is this pricing in reference to the 5,000 c.y. listed in 01 21 00 Allowances, 2.01A? Answer: This is related to 01 21 00 as well as 01 22 00 1.07 B 1.

Item No. 3.34 **Reference Specifications** Question: How are trench and mass rock removal to be paid for?
Answer: See sectiions 01 21 00 as well as 01 22 00 1.07 B 1.

Item No. 3.35 **Reference Specification 31 23 15** Section 31 23 15 Building Pad Earthwork, 1.04B states testing by owner and paid from testing allowance, but we cannot find the testing allowance or who carries it.
Answer: The owner will carry the testing allowance / pay for this testing.

Item No. 3.36 **Reference Specification 32 12 16** Section 32 12 16, Asphalt Paving, 1.06A.1 & 2.01B refers to"prime coat. We have not seen a "prime coat" requirement for many years and may require a special DEP permit. Is the prime coat required? Answer: Both of these references are for tack coat between binder and surface layers

Item No. 3.37 **Reference Specification 01 50 00** Question: Section 01 50 00,Temporary Facilities, 1.09A reads that no temporary fencing is required, while Note 25, Plan C3 states that temporary fencing is required and to be carried by the Site Contractor. Please clarify. Answer: Temporary fencing is not required.

Item No. 3.38 **Reference Specification Section 01 00 00** Question: Does the term 'CONTRACTOR' refer to the General Contractor?
Answer: The Term contractor shall refer to either the General Contractor or the Sub Contractor. Generally the filed sub bid specification sections use the term as the Sub-Bidder.

Item No. 3.39 **Reference Civil Specifications** Question: Please confirm that any fill material (granular borrow) required for muck/peat replacement is incidental. Answer: Yes.

Item No. 3.40 **Reference Specification 22 13 00** Question: Section 22 13 00, Sewers, Drains & Site Piping, 1.02A1.d, states that the Site Contractor is responsible for electrical/telecom conduit. Please confirm that this is to be supplied and installed under Subbid E
Answer: Please refer to Addendum 2 for clarification. The electrical contractor will be responsible for the electrical/ telecom conduit.

Item No. 3.41 **Reference Civil Drawings** Question: Regarding the existing 36" sewer that sanitary manholes 5, 13 & 14 tie into: What material is the existing sewer? We would like to see a detail on the proposed 48" diameter manhole and how is to be installed on the existing 36" sewer
Answer: The existing 36" sewer is reinforced concrete pipe. Please refer to the sewer manhole doghouse structure detail on Sheet 63 for the connection. A standard 48" diameter manhole will not be acceptable.

Item No. 3.42 **Reference Addendum 2.** Question: ITEM No. 2.80. What rooms are to receive these map signs?
Answer: All rooms with an IAO, E, A2, A3, or A1 occupancy classification. (refer to Code Plans)

Item No. 3.43 **Reference Drawings ES2.01, 2.02** Question: The 1-line indicates 8 sets of 4-#500 in 4"C + 1 spare. ES2.01 indicates P2 as 4"C w 4-#600. ES2.02 indicates trench B as 15x P2 + 2 spares. Please confirm that 8 sets + 1 spare is desired for each service? Please advise if #500 of #600 is required for the service?
Answer: The one-line is correct; 8 sets of 4-#500 in 4"C + 1 spare. Drawings ES2.01 and ES2.02 have been updated and are attached.

Item No. 3.44 **Reference Drawing ES2.02** Question: There is clearly intent to have site and stadium cameras as well as press box communications run to the stadium electrical building. Trench detail F on ES2.02 does not contain a communication conduit. Please advise as to how, or modify ES dwgs, to provide for a backbone pathway from the school to the stadium electric room. Answer: Trench detail was updated – drawing attached.

Item No. 3.45 Question: Please confirm that we should provide a communications pathway from the pressbox, down the bleacher structure, and underground to the stadium electrical building? Note 3 on ES1.10 indicates power only to the pressbox. Answer: Pathway from pressbox to electric room required.

Item No. 3.46 **Reference Drawing T1.31** Question: T1.31 indicates communications in the prefabricated pressbox. Please advise how we are to cable this area? Should we plan on using Wiremold or surface EMT?
Answer: Provide Wiremold Raceway System**.**

Item No. 3.47 **Reference Electrical Site Drawings** Question: ES1.01, 2, 3, 4 has note calling for a spare 1.5" C. Is that the conduit between THH1 handholes? If not, what is the conduit size between THH1's? This conduit line appears to be used for the pole cameras on ES1.04, 7, 8, and 10 but empty again on ES1.12, 13, and 14 where there is no note for spare conduit.
Answer: Drawing notes refer to lighting system. THH1 requires 2-2"C between handholes. 1 for fiber and 1 spare for the future.

Item No. 3.48 **Reference Electrical Drawings and Specifications** Question: Please confirm quantity and location of the site security cameras:
a. According to the Site Lighting Schedule, the "C" in R2C and S4C indicates to provide for camera mounting. According to the Security Phone spec, the Blue Phones are to be provided with an integral camera. Answer: **Mount**
b. I see 1x 180 camera on R2C light poles on each ES1.04 and 1.07. Answer: **Correct.**
c. There is an R2C shown on ES1.10, but no camera is shown at this location. Please advise if we should provide a camera and fiber optic cabling? Answer: **Camera and cabling not required. Pole only for future location.**
d. There is a 360deg camera shown on the Blue Phone on E1.10 with copper cabling to the stadium electrical building. Answer: **Yes**
e. ES1.08 has a Blue Phone and S4C pole light in the same vicinity with a 360deg camera. Is this camera to be mounted on the Blue Phone, the light pole, or should we provide a camera on each? Answer: **Camera is on blue phone location on mount provided with pedestal.**

Item No. 3.49 **Reference Electrical Drawings** Question: Blue Phone spec indicates that 120V is required. ES2.04 shows a 120 duplex receptacle in the pole mounted box for the media converter. None of the ES dwgs indicate providing 120V power to either the site phones or camera locations. Please modify the ES dwgs to include conduit and wiring (size and source) as required. There appears to be a conduit from CHH1 running to E127B in ES1.08; Is this for 120V to this Blue Phone and S4C?
Answer: See attached Drawings. Should read THH1 in lieu of CHH1. This is for fiber optic cabling. Power for blue light phones added to attached updated drawings (ES1.08, 1.10).

Item No. 3.50 **Reference Electrical Drawing E2.41.** Main electric room closet (2-hour rated) and equipment layout was revised. See updated Drawing. See attached sketch SKA-AD3.50 for revised Emerg Elec room B054B. Revise door B054B to a single 42x84 HM door. Revise Hardware to set 019.

Item No. 3.51 **Reference Drawing C9.** Question: What does the concrete curb sit on in the permeable paver parking area? Answer: See attached updated drawing C66 with added detail for this condition.

Item No. 3.52 **Reference Specification 03 30 00, 2.05, C:** Change the concrete specification for elevated slabs item 3. Elevated slabs (section 2.05 C), page 8 of 20 within specification 03 30 00) to read:

3. Elevated slabs:
    a. Strength: 4,000 psi at 28 days
    b. Aggregate: 3/4" **Maximum**, Light Weight, **Presoaked**
    c. Design Air Dry Density: 115 pcf Light Weight
    d. W/C Ratio: 0.52 maximum **based on active water, or as determined per ACI 211.2.2.3, Method 1 (Weight Method, Specific Gravity Pycnometer) or Method 2 (Trial Mixtures)**
    e. Entrained Air 5 1/2% +/- 1 1/2%
    f. Slump: 4" maximum **at point of discharge from conveying equipment**

Item No. 3.53 **Reference Drawing C66.** Question: Plan C66 shows 4" depth of loam in landscape areas & C70 shows 4" depth amended loam & 8" depth of Type 'B' sand. We cannot find the demarcation borders between the two finishes.
Answer: Sheets 15 and 16 include a call out that points to the edge of field and reads "limits of typical field section." The same would apply to the softball field shown on Sheet 17. The outer edge of field areas is the demarcation between the two finishes.

Item No. 3.54 **Reference Civil Drawings.** Question: There are numerous test pits shown on the plans marked 'STI-TP xxx' but we cannot find in the Geotechnical Report. Is this information available?
Answer: Test pits with the STI designation were performed by Sebago Technics and are not included in the geotechnical report. They are enclosed as part of Addendum 3, along with the Soils Map. See attached.

Item No. 3.55 **Reference Civil Drawing C64.** Question: Plan C64 shows a headwall detail w/ notes to see reinforcing plan. Where is this shown?
Answer: The reinforcing headwall section is part of the overall detail for the headwall.

Item No. 3.56 **Reference Civil Drawing C64.** Question: Plan C64-Typical Foundation Section shows a vapor retarder. What subbid section should include this?
Answer: The General Contractor should include the vapor retarder per architectural drawings.

Item No. 3.57 **Reference Civil Drawing C65.** Question: Plan 65, regarding the above ground water meters, which section(s) should include the enclosure, heating system and meter?
Answer: The meter, valves, pipe and fitting shall conform to Section 221113. A detail for the enclosure system shall be provided by the contractor for approval, as it is not covered in the specifications. A heating unit is not required as part of this project.

Item No. 3.58 **Reference Specification 22 13 00, 2.02 A-H.** Substitution Request SC 740 by ADS Stormtech shall not be an acceptable substitution for the specified S-29 by Triton by NDS. .

Item No. 3.59 **Reference Drawing S1.6, S1.3, S1.5, S1.9.** Question: Line CE-1 from line C-1 to match line shows both sections 4/S2.2 & 4A/S2.2. Please verify.
Answer: Attached drawings S1.3, S1.5, S1.6 &S1.9 clarify this section and other foundation sections in certain locations. Rammed Aggregate Pier loads are clarified on S1.9. Note 4A/S2.2 specifies a 4 foot wide footing. Note 7 "Sim"/S2.2 specifies a 4 foot wide footing.

Item No. 3.60 **Reference Sub-bid Package F and Specification 03 30 00.** Question: Are the following items included with the building package or the site package? a. Concrete door stoops b.CTE and Field Storage buildings foundations and slabs c. Bleachers seating foundations and slab d. Visitors seating foundation and slab.
Answer: Concrete door stoops with a frost wall foundation underneath (detailed on the structural drawings) shall be by the General Contractor. CTE and Field Storage Buildings foundations and slabs (detailed on the structural drawings) shall be by the General Contractor. Bleachers seating foundations and slab (detailed on the structural drawings) shall be by the General Contractor. Visitors seating foundation and slab (detailed on the structural drawings) shall be by the General Contractor. These items shall be excluded from Filed Sub Bid Package F.

Item No. 3.61 **Reference Specification 12 34 00.** Question: Please clarify what test reports are to be submitted for the Fume Hoods as called for in spec section 123400-1.03-A-1. We have not found any test requirements.
Answer: Delete requirement for test reports under section 12 34 00 1.03 A-1.

Item No. 3.62 **Reference Specification 12 34 00 and 12 36 00 and Drawings A6.20 and P1.14.** Question: Please clarify what size sinks are to be provided in the Fume Hoods as shown on elevation F1 on drawing A6.20. Plumbing drawing P1.14 notes call for these sinks to be provided by others and no sizes are noted.
Answer: The 12 36 00 Lab Sink sizes for fumes hoods are listed under 12 36 00 2.02 C 2.d.

Item No. 3.63 **Reference Civil Drawings.** Question: On the detail for the tennis courts it calls for a 9ga 2" mesh fabric. Typical for tennis courts is a 1 3/4" mesh. Which one would you like? Answer: Please use 1 3/4" mesh.

Item No. 3.64 **Reference Civil Drawings.** Question: The detail for the tennis courts also shows the footings belled out at the bottom. Can we go with a standard 12" x 48" deep hole? -otherwise we would have to get the posts precast in concrete
Answer: Footings need to be belled as currently shown. Posts need to be a minimum 54 inches deep with concrete to a depth of 60 inches. Diameters at the top and bottom shall be coordinated with the manufacturer, but the footing diameters shown in the details on Sheet 68 shall be the minimum

Item No. 3.65 **Reference Civil Drawings and Specifications 32 31 13** Question: On the Pedestrian Guardrail (ornamental fence) it shows the spacing or panel sections at 5'. They come 8' from the manufacturer. Can we go with 8' sections or do you want us to cut them all down to 5' sections? Answer: 8 foot sections is acceptable.

Item No. 3.66 **Reference Civil Drawings and Specifications 32 31 13** Question: On the 4',6' and tennis court fencing, I would like a clarification if you want bottom tension wire or bottom rail. There is contradiction between the details and specs? Answer: Bottom rail.

Item No. 3.67 **Reference Specifications 32 31 13.** Question: Related to fencing, the spec for the pipe is 2oz compared to typical 1.8oz. This is extremely rare to go with 2oz, not to mention the extreme increase in costs, but just wanted to confirm. Also you are asking for an alt for vinyl coated. Would you want 2oz vinyl coated pipe as well?
Answer: 1.8 oz. is acceptable.

Item No. 3.68 **Reference Drawing ES2.01 and Civil drawing C7.** Question: Which Sub-bid carries the transformer and generator pad?
Answer: The Generator Pad and the Transformer Pad should be carried by the General Contractor and excluded from Sub Bid Package F. Site Preparation for the pads including fill materials shall be by the Site Contractor under Package F. Change/clarification of discrepancy: there are three pads required at this location. Final sizes will need to be verified with the equipment. At this time, the General Contractor should assume two 10'x10' pads for transformers, and one 10'x15' for the generator. For all three pads, see detail on ES2.01.

Item No. 3.69 **Reference Drawing 26 56 68.** Question: Are the bases for the stadium lights in Subbid F?
Answer: Stadium light foundations are by electrical contractor – see section 26 56 68**.**

Item No. 3.70 **Reference Sub Bid Package F.** Question: Are the exterior concrete slabs that are doweled into the building foundation in Sub Bid F? If so, who is responsible for installing the dowels?
Answer: For exterior slabs without a foundation underneath, which are provided by the Site Work Contractor under Sb Bid Package F, the dowels are site work contractor, package F.

Item No. 3.71 **Reference Electrical Drawings.** Question: Regarding Filed Sub Bid Package F, concrete duct encasement, is reinforcing required and if so, is there a detail?
Answer: Reinforcing is not required.

Item No. 3.72 **Reference Drawing C28 and C70.** Question: Regarding the Artificial Turf & Track: C-43 shows a 12" & 8" collector drains around the perimeter at the edge of track and the field. C-28 shows a 4" UD in the same location. C-70 shows a trench drain. Is the trench drain continuous around the track and if so, should the 4"
Answer: Disregard the notes referring to a '4" perimeter track UD' on Sheet 28. The track trench drain is continuous around the track. The 'TRACK DRAIN CATCH BASIN & COLLECTOR SYSTEM' detail shown on Sheet 70 is correct.

Item No. 3.73 **Reference Specification 01 23 00.** Question: Regarding Alternate 16: If the J drains are deleted are they replaced with something else?
Answer: J-drains will not be replaced. If the question's intent is how to handle the void left by the j-drain then assume it is replaced by surrounding material.

Item No. 3.74 **Reference Drawing C-65.** Question: Plan C-65 has a detail of 'INLET CONTROL STRUCTURE' with a label stating to see Note 4. Where is Note 4?
Answer: The special structure notes were incorrectly included as part of the infiltration basin on Sheet 64. The call out on the 'INLET CONTROL STRUCTURE' should read "see special structure note 3 for wall thickness requirements."

Item No. 3.75 **Reference Drawing C-63.** Question: Detail 'GROUNDWATER RELIEF DRAIN', Plan C-63 states the pipe to be PVC. Is HDPE acceptable? Answer: Perforated HDPE with the perforations faced up is acceptable.

Item No. 3.76 **Reference Civil Drawings.** Question: Numerous notes on the details (porous pavement C-66, subsurface sand filter C-65, etc.) refer to inspections by a P. E. Is this cost to be included in Sub bid F?
Answer: No, this is a cost to the owner. These notes are required on the plans for State permitting. The contractor is responsible for coordinating with the inspecting engineer.

Item No. 3.77 **Reference Drawing C68.** Question: Is there a specification section for the ornamental fence detailed on C-68? Answer: Refer to Section 129300.

Item No. 3.78 **Reference Specification 31 20 00.** Question: Should the Site Work Contractor follow the Earthwork Specification (Section 312000) or the Geotechnical Report for earthwork considerations? The specification section indicates the Geotechnical Report takes precedence, but then indicates the "report is not a part of the contract documents and is furnished only for the information and convenience to the contractor." The specification section and the Geotechnical Report differ on acceptable use of material for fill applications
Answer: The geotechnical report takes precedence. Refer to Section 312000 1.01.D.

Item No. 3.79 **Reference Specification 27 74 00** Question: Spec section 27 74 00; 2.03, A. 1 specifies a "cleave and polish" style connector for fiber optic terminations, would a "cleave and crimp" style be acceptable? Please note this is a standard type of termination which complies with TIA requirements for terminations and testing.
Answer: Fiber terminations per specification are bonded by epoxy to fiber and more reliable. While accepted by standards there is higher possibility/probability of fiber pulling from crimp type connections.

Item No. 3.80 **Reference Specification 26 23 00** Question: 262300, 2.03.C – Are circuit breakers with solid state adjustable trip units acceptable in lieu of the thermal magnetic trip unit that is specified?

Answer: Solid state adjustable trip breakers are acceptable.

Item No. 3.81 **Reference Specification 26 23 00** Question: 262300, 2.04.B & D – Which ATS mode of operation is intended for this project – 'Adjustable dwell period' or 'in-phase monitor'? Answer: In-phase monitor.

Item No. 3.82 **Reference Specification 26 23 00** Question: 262300, 2.07 – There is no maximum sound level specified for the sound attenuated enclosure. The typical industry offering would be 75 dB(A) @ 23' under full load conditions. Is this acceptable? Answer: Standard enclosure is acceptable.

Item No. 3.83 **Reference Specification 26 32 00** Question: 263200, 2.09.G – It appears that the specified 48 hour capacity fuel tank is the only fuel tank for the system. Does paragraph 'G' (electrically operated fuel transfer pump) apply here? If so, what are the distance and elevation change to the underground fuel tank?
Answer: Skid-mounted fuel tank, only – no transfer pump needed.

Item No. 3.84 **Reference Electrical Drawings** Question: Confirm HP for Item Number: CP-1, CP-3, B-1, B-2, B-3, B-4 & B-5 Answer: Various information on mechanical equipment schedule is correct.

Item No. 3.85 **Reference Electrical Drawings** Question: PP-2 is designated to be a combination starter. Unit is single phase 1/8HP. Please confirm if this is correct?
Answer: **Equipment PP-2 is 120V, single-phase – change "2" in the column to a "1" (manual starter). Drawing to be re-issued.**

Item No. 3.86 **Reference Electrical Drawings** Question: Feeder to Transformer ST1 shown as 500A, panel schedule shown as 600AET.
Answer: Panel P4SBB1 – panel schedule should show 500ET, to match the one-line. See attached Revised Drawing.

Item No. 3.87 **Reference Electrical Drawings** Question: Panel has a 150AF feeder, maximum available is 100AF/3P. Maximum allowable circuits is 42, schedule has 54.
Answer: Panel P4LSB1 – Eliminate 150A feeder from panel, and make panel 42 poles – modified one-line diagram. See attached Revised Drawing.

Item No. 3.88 **Reference Electrical Drawings** Question: Panel P2LSB1 has a 125AF feeder, maximum available is 100AF/3P. Answer: Change 125 amp feeder breaker to 100 amp. See attached Revised Drawing.

Item No. 3.89 **Reference Electrical Drawings** Question: Panel P2N1C6 - One-line shows ET MCB, panel schedule does not. Answer: Panel P2N1C6 – panel schedule should show ET on MCB. See attached Revised Drawing.

Item No. 3.90 **Reference Electrical Drawings** Question: Panel D2N1D1 – panel schedule should show 1000A ET MCB. Answer: Panel schedule changed. See attached Revised Drawing.

END OF ADDENDA #3

SECTION 13 12 55
HEAVY DUTY ALL-ALUMINUM FRAME BLEACHER

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Bleacher Seating System

1.02 RELATED REQUIREMENTS

A. Section 03 30 00 – Cast in Place Concrete

B. Division 31 – Earthwork

C. Division 32 – Site Construction

D. Division 26 - Electrical: Equipment wiring.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordinate all foundation systems between manufacturer and Structural Engineer. Current drawings shown have been coordinated with the Basis of Design manufacturer. Concrete Slab shown is on bid document drawings, in order to establish an equal bidding opportunity for all participants. Slab changes may be required with some manufacturers. Additional Costs (if any) for foundation changes required by the manufacturer must be included within the bid.

B. Coordinate with all Structural Design Loads for the project. See Structural Drawings. Guardrail loads shall comply with current building codes and requirements (State of Maine).

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide manufacturer's data showing configuration, sizes, materials, finishes, hardware, accessories, electrical characteristics and connection locations.

C. Shop Drawings: Include: For custom fabricated systems indicate, in large scale detail, construction methods; method of attachment or installation; type and gage of metal, hardware, and fittings; plan front elevation; sections, section details, seat details, seat materials, elevations and dimensions; utility requirements as to types, sizes, and locations. Seating plan indicating aisles, walkways, seating sections and exits and showing exit calculations using appropriate tables and requirements of the Maine State Building Code. Footings and foundation sizes and types and relationships to finish grade in compliance with construction documents. Exposed portions of foundations, pier height and top elevations shall be subject to customer approval.

F. Samples: Submit samples representative of materials and finished products as may be requested by the Architect.

G. Product Certificate: Prepare written statement on manufacturer’s letterhead certifying that product complies with requirements in the Construction Documents.

H. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than ten years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified with minimum five years of experience.

C. Installation: Installation shall be performed by factory trained and certified representatives of the grandstand manufacturer. Installer shall have completed at least three installations of similar size.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to project site in manufacturer's original packaging with factory original labels attached.

B. Store products indoors and elevated above floor; prevent warping, twisting, or sagging.

1.08 WARRANTY

A. See Section 01 78 00 - Warranties, for additional warranty requirements.

B. Product shall be guaranteed for (5) years on the structure and (3) years on the finishes together with labor.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design: Dant Clayton Corporation – Alum-A-Stand system

B. Acceptable Manufacturers, subject for product review:
   1. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PRODUCT COMPONENTS

A. See Drawings for design intent.

B. All material and workmanship shall be in accordance with the following:

AISC Manual, 8th Edition
ACI Building Code for Reinforced Concrete
Aluminum Association of America
Maine State Building Code

A. Design Loads:

Dead Load	6 psf	seat and footboards risers, etc.
Live Load	120 psf	to structural member
	120 plf	seatboards
	120 plf	footboards (individually)
Design Wind Speed 75 mph		on projected vertical surface
Sway	24 plf	parallel per ft. of seat parallel to seat run
	10 plf	perpendicular per foot of seat
Guardrail Loads	50 plf distributed or 200 lb concentrated load applied in any direction	

B. Understructure Criteria:

The following criteria is used to establish a minimum requirement for strength, stiffness, and rigidity of the understructure components.

Moment of inertia of	.822
Section modulas of	.576
Radius of gyration of	.975
Axial loading of	.889

C. Code Compliance: Submittals shall be based on specifications contained in the bid documents or the latest code edition adopted at the time of bidding.

2.03 MATERIALS

A. Understructure:
1. Understructure shall be fabricated from 6061-T6 alloy aluminum extrusions.
2. Vertical members shall be 2 7/8" o.d. tubing or minimum L3.5"x3.5"x1/4" angles.
3. Horizontal members and footboard supports shall be 3" x 2 7/8" channel or minimum L2.5"xL2.5"x3/16" angles.
4. Cross braces and diagonals shall be 2 ¼" x 7/8" channel or 2"x2" angle.
5. Handrail support shall be 2 5/8" o.d. tubing.
6. The understructure shall be assembled from the above items in an interlocking design and 7/16" x 3 ½" hot-dipped galvanized bolts.
7. The structure shall be designed so that in the event of accidental damage, the sub-component parts may be replaced using common hand tools. Field welding for repair purposes shall not be considered.
8. Primary structural members shall be bolted together, or calculations must be submitted verifying that the structure has taken into account the weakening of aluminum associated with welding per 2005 AA ADMI sections 7.2.1 and 7.2.3

B. Guardrail Systems:
1. Guardrails shall be of anodized aluminum extruded channel, 3 x 2 7/8", 6061-T6 alloy, anodized to clear 204R1.
2. The guardrail system shall be of interlocking design with positive through bolt fastening. The top rail shall be designed to fully cover the rail support posts for a totally snag-free area and eliminate the potential of sharp edge contact with the spectators.
3. Grabrails shall be extruded aluminum pipe of 6063-T6 alloy, 1 – 15/16" o.d.
4. Chain link fence shall be 2" mesh, 6 gauge vinyl coated fabric

C. Hand & Grab Rails
1. Hand and Grab Rails shall be located in all areas required by building code.
2. Hand and Grab Rails shall be 1 15/16" O.D. extruded aluminum pipe.
3. Two-Line mid-aisle handrails shall be located in all interior aisles. All mid-aisle rails shall feature internal fittings for both lines of rail. External fittings are not permitted.

D. Extrusions

1. Seats shall be 6063-T6 extruded aluminum with a fluted surface and a wall thickness of .078". Seatboards shall be a minimum of 9½" wide actual, with outside legs of 1 ¾" actual vertical height, and shall have two internal legs with a vertical height of 2 5/8". Seatboards shall attach with one 3/8" diameter bolt and shall be designed for positive physical fastening. Bolt clips, bolt runners or other friction type fastening devices are not acceptable. Seats shall be pre-treated and clear anodized.
2. Footboards shall be 6063-T6 extruded aluminum with a fluted surface and a wall thickness of .078". Each footboard member (individually) shall have two internal legs with 2 1/8" actual vertical height. All footboards shall attach without the use of hardware. Attachment shall be positive snap and interlock with the support structure. Use of bolt clips, bolt runners, or other friction type fastening devices are not acceptable.
3. Riserboards shall be 6063-T6 extruded aluminum and shall be pre-treated and powder coated in color selected by architect from manufacturers standard color options.

E. Walking Surface Requirement

All aluminum footboards shall have an enhanced stain resistant and slip resistant finish at all locations intended for use as a walking surface.

a. This finish shall be produced by the bleacher manufacturer in addition to the mill extrusion process and shall be uniform in appearance. The slip and stain resistant surface treatment shall be achieved either with a blasted and anodized process or an applied slip and stain coating. The metallic media blasting option must be performed in a controlled factory environment to ensure consistency. Hand processes or sand blasting is prohibited as they produce an inconsistent finish that is not uniform in appearance or performance.
b. This surface finish shall prevent oxidation staining and be resistant to staining from beverage spills and organic matter. Oxidation staining prior to warranty expiration shall be grounds for product replacement at the manufacturer's expense.
c. This surface finish shall exhibit enhanced slip resistance beyond the mill extrusion process, resulting in an improved coefficient of friction under wet conditions in all directions of travel.
d. Untreated mill finish aluminum with raised extruded "flutes" or "ribs" does not meet this requirement.

F. Stairs:

i. Shall conform to all above pertinent criteria consistent with the component design of the grandstand.
ii. Shall be self-supporting and shall not attach to or be suspended from any footboard of decking member.

G. Aisles: Aisles shall be designed so that all vertical and horizontal areas within the 6' bay of the aisles area shall be fully closed.

H. Ramps and Ramp Platforms:

i. Frames shall be 9" x 1.40 extruded aluminum mill finish channel with 3" x 1.4" extruded aluminum mill finish vertical channel columns.

ii. Treads shall be 6063-T6 extruded aluminum with a fluted surface and a minimum wall thickness of .078". Minimum vertical height of treads shall be 1.75" actual. Treads shall be mill finish.

I. Hardware:
   i. Bolts used for field installation shall be hot dipped galvanized.
   ii. Primary connections, i.e. seat, crossbrace, handrail (rail and posts) shall be made with minimum of 3/8" diameter hardware.
   iii. End Caps – All end caps (seatboard, footboard and handrail) shall be cast aluminum.

PART 3 EXECUTION

3.01 EXAMINATION

A. Take field measurements to ensure proper fitting of work. If taking field measurements before fabrication will delay work, allow for adjustments within recommended tolerances.
B. Inspect areas and conditions before installation. Notify Architect in writing of unsatisfactory or detrimental conditions. Do not proceed until conditions have been corrected. Commencing installation constitutes acceptance of work site conditions.
C. Verify that electrical services are correctly located and of the proper characteristics.
D. Examine all existing conditions with installer present for compliance with requirements for installation tolerances and other conditions affecting performance of the work.
E. Prepare written report, endorsed by installer, listing conditions detrimental to performance of the work.
F. Proceed with installation only after unsatisfactory conditions have been corrected.

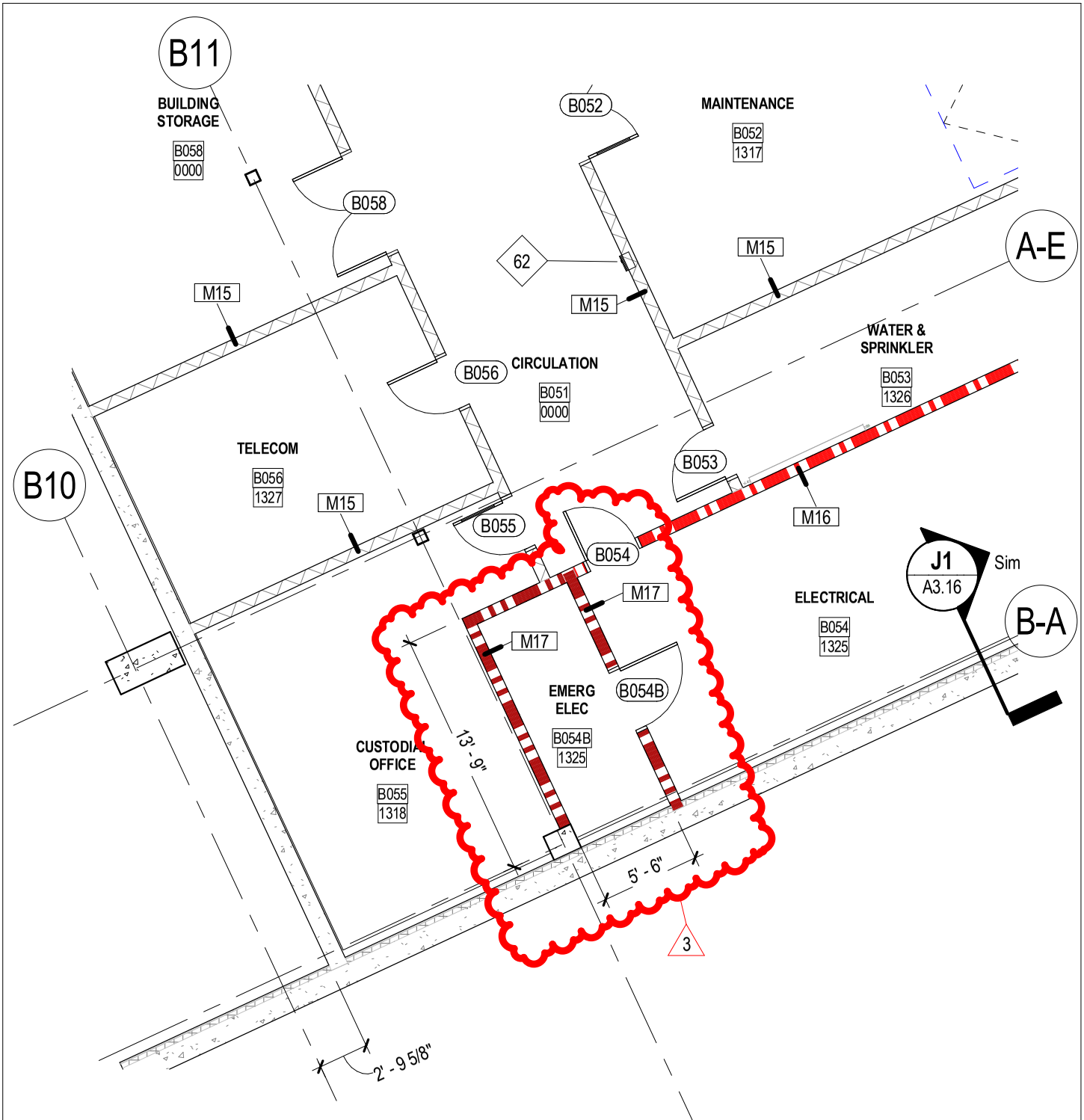
3.02 INSTALLATION

A. Install grandstand and all components according to manufacturer's written instruction and the approved shop drawings.
B. Install equipment rigid, straight, plumb, and level.
C. Secure all equipment with manufacturer's recommended anchoring devices.
D. Install all components securely, with fasteners tight
E. Separate dissimilar metals to prevent electrolytic corrosion

3.03 ADJUSTING, CLEANING AND PROTECTIONI

A. Verify proper placement of equipment.
B. Use cleaning solutions and methods that do not damage the finishes or the adjacent surfaces
C. Remove all metal burrs, sharp edges or other cutting, unsafe conditions.
D. Touch up finishes as recommended by manufacturer to the satisfaction of the architect

END OF SECTION



1
SKA-AD3.50

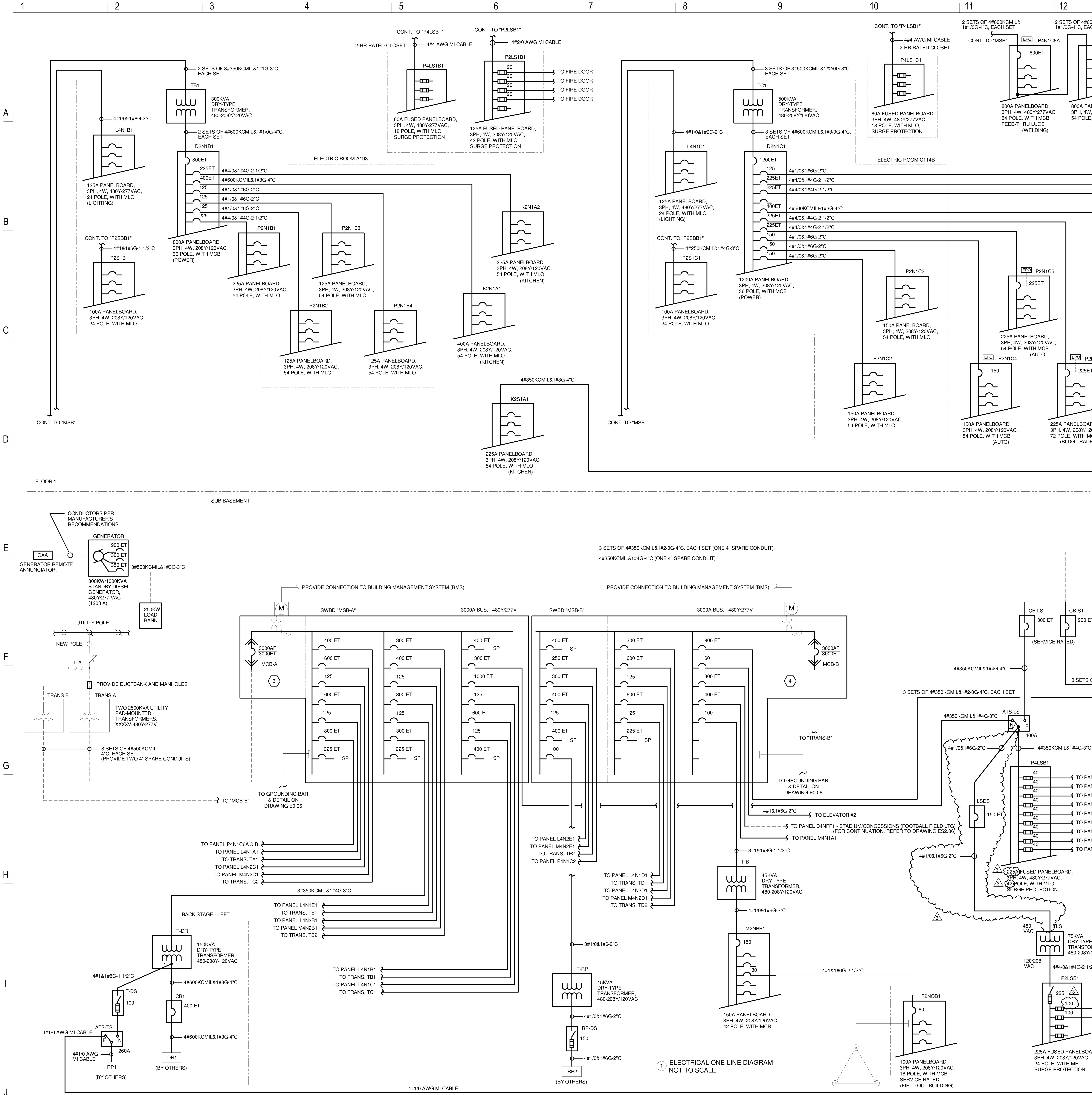
SKA-AD3.50
1/8" = 1'-0"

LAVALLEE | BRENSINGER ARCHITECTS
Boston | Manchester | Portland
www.LBPA.com

REVISED EMERG ELEC ROOM B043B

PROJECT: Sanford School Department and State of Maine Department of Education
SANFORD HIGH SCHOOL and TECHNICAL CENTER

PR NO: 12-067-00	DATE: 03/04/16	SKA-AD3.50
SCALE: 1/8" = 1'-0"		



1 ELECTRICAL ONE-LINE DIAGRAM
NOT TO SCALE

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. CONTRACTOR SHALL PROVIDE SIGNAGE MOUNTED ON THE FRONT OF THE SWITCHBOARD ADJACENT TO THE MAIN CIRCUIT BREAKER (A). THE PLAQUE SHALL BE RED WITH 3/4" HIGH WHITE LETTERING INDICATING "BUILDING SERVICE DISCONNECT 1 OF 2".
4. CONTRACTOR SHALL PROVIDE SIGNAGE MOUNTED ON THE FRONT OF THE SWITCHBOARD ADJACENT TO THE MAIN CIRCUIT BREAKER (B). THE PLAQUE SHALL BE RED WITH 3/4" HIGH WHITE LETTERING INDICATING "BUILDING SERVICE DISCONNECT 2 OF 2".

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
ELECTRICAL ONE-LINE DIAGRAM

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

E0.02

Project Phase
BID DOCUMENTS

LAVALLEE BRENSINGER ARCHITECTS

Boston | Manchester | Portland

155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450

305 Commercial Street, Portland, ME 04101
207.558.7200

www.LBPA.com

Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED
PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

EQUIPMENT								SUPPLY						ACCESSORIES	
ITEM NUM.	NAME	ROOM LOC.	AMPS	HP.	KW.	PHASE	SYSTEM VOLTS	PANEL OR CONTROL CENTER	CIRCUIT BREAKER	POWER WIRING FROM PANEL TO CONTROL UNIT AND FROM CONTROL UNIT TO EQUIPMENT: PHASE	GND	CONDUIT	REF. NOTES	FUSED DISCONNECT SWITCH	CONTROL DEVICES NOTES
ACC-3	A/C CONDENSER #3	ROOFTOP - B	16			1	208	D2N2B1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-3	AIR COND. #3	CONTROL RM B103				1	208	FED THROUGH ACC-3	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-4	A/C CONDENSER #4	ROOFTOP - B	16			1	208	D2N2B1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-4	AIR COND. #4	DATA B132				1	208	FED THROUGH ACC-4	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-5	A/C CONDENSER #5	ROOFTOP - B	16			1	208	D2N2B1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-5	AIR COND. #5	SERVER B107A				1	208	FED THROUGH ACC-5	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-6	A/C CONDENSER #6	ROOFTOP - B	23			1	208	D2N2B1	35/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-6	AIR COND. #6	MIDI LAB B146				1	208	FED THROUGH ACC-6	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-7	A/C CONDENSER #7	ROOFTOP - A1	23			1	208	D2N2B1	35/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-7	AIR COND. #7	IT SERVER/DATA A184A				1	208	FED THROUGH ACC-7	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-8	A/C CONDENSER #8	ROOFTOP - A1	16			1	208	D2N2B1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-8	AIR COND. #8	IT SERVER/DATA A184A				1	208	FED THROUGH ACC-8	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-9	A/C CONDENSER #9	ROOFTOP - E	16			1	208	D2N2E1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-9	AIR COND. #9	DATA E127A				1	208	FED THROUGH ACC-9	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-10	A/C CONDENSER #10	ROOFTOP - A1	16			1	208	D2N2B1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-10	AIR COND. #10	EMR A165				1	208	FED THROUGH ACC-10	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-11	A/C CONDENSER #11	ROOFTOP - D	16			1	208	D2N2D1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-11	AIR COND. #11	SERVER INSTRUCTION D212A				1	208	FED THROUGH ACC-11	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-12	A/C CONDENSER #12	ROOFTOP - D	16			1	208	D2N2D1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-12	AIR COND. #12	DATA D210A				1	208	FED THROUGH ACC-12	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-13	A/C CONDENSER #13	ROOFTOP - A2	16			1	208	D2N2D1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-13	AIR COND. #13	EMR A214A				1	208	FED THROUGH ACC-13	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-14	A/C CONDENSER #14	ROOFTOP - E	16			1	208	D2N2E1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-14	AIR COND. #14	DATA E227A				1	208	FED THROUGH ACC-14	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-15	A/C CONDENSER #15	ROOFTOP - C1	16			1	208	D2N2C1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-15	AIR COND. #15	DATA C223				1	208	FED THROUGH ACC-15	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-16	A/C CONDENSER #16	ROOFTOP - A3	16			1	208	D2N2B1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-16	AIR COND. #16	CONTROL ROOM A282				1	208	FED THROUGH ACC-16	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-17	A/C CONDENSER #17	ROOFTOP - C1	16			1	208	D2N2C1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-17	AIR COND. #17	ELEC C114B				1	208	FED THROUGH ACC-17	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A, C	PROVIDE	-
ACC-18	A/C CONDENSER #18	ROOFTOP - D	16			1	208	D2N2D1	20/2	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE WP	4
AC-18a	AIR COND. #18a	SRO OFFICE D158A				1	208	FED THROUGH ACC-18	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	-
AC-18b	AIR COND. #18b	RECEPTION D158				1	208	FED THROUGH ACC-18	-	3#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	-
ACC1-1	OUTDOOR ACC UNIT #1-1	ROOFTOP - D	21.7			3	480	M4N2D1	30/3	4#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	-
ACC2-1	OUTDOOR ACC UNIT #2-1	ROOFTOP - D	21.7			3	480	M4N2D1	30/3	4#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	-
ACC3-1	OUTDOOR ACC UNIT #3-1	ROOFTOP - A2	16.4			3	480	M4N2B1	20/3	4#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	-
PUH-1	PROP. UNIT HEATER #1	MECH ROOM B057		1/20		1	120	P2SBB2	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-2	PROP. UNIT HEATER #2	MECH ROOM B057		1/20		1	120	FED WITH PUH-1	-	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-3	PROP. UNIT HEATER #3	MAINTENANCE B052		1/20		1	120	P2SBB2	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-4	PROP. UNIT HEATER #4	ELECTRICAL B054		1/20		1	120	FED WITH PUH-3	-	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-5	PROP. UNIT HEATER #5	AUTOMOTIVE COLLISION C139		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-6	PROP. UNIT HEATER #6	AUTOMOTIVE COLLISION C139		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-7	PROP. UNIT HEATER #7	AUTOMOTIVE COLLISION C139		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-8	PROP. UNIT HEATER #8	WELDING FABRICATION C138		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-9	PROP. UNIT HEATER #9	WELDING FABRICATION C138		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-10	PROP. UNIT HEATER #10	WELDING FABRICATION C138		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-11	PROP. UNIT HEATER #11	PRECISION MANUFACTURING C134		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-12	PROP. UNIT HEATER #12	PRECISION MANUFACTURING C134		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-13	PROP. UNIT HEATER #13	PRECISION MANUFACTURING C134		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-14	PROP. UNIT HEATER #14	AUTO TECHNOLOGY C133		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-15	PROP. UNIT HEATER #15	AUTO TECHNOLOGY C133		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-16	PROP. UNIT HEATER #16	AUTO TECHNOLOGY C133		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-17	PROP. UNIT HEATER #17	AUTO TECHNOLOGY C133		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-18	PROP. UNIT HEATER #18	BUILDING TRADES C127		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-19	PROP. UNIT HEATER #19	BUILDING TRADES C127		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-20	PROP. UNIT HEATER #20	BUILDING TRADES C127		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-21	PROP. UNIT HEATER #21	CTE EXPLORATION STUDIO C117		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-22	PROP. UNIT HEATER #22	CTE EXPLORATION STUDIO C117		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-23	PROP. UNIT HEATER #23	RESIDENTIAL WIRING C113		1/20		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-24	PROP. UNIT HEATER #24	RESIDENTIAL WIRING C113		1/20		1	120	FED WITH PUH-23	-	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-25	PROP. UNIT HEATER #25	INCUBATOR C101		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-26	PROP. UNIT HEATER #26	INCUBATOR C101		1/3		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-27	PROP. UNIT HEATER #27	HORTICULTURE D150		1/3		1	120	P2S1D1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-28	PROP. UNIT HEATER #28	HORTICULTURE D150		1/3		1	120	P2S1D1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-29	PROP. UNIT HEATER #29	EMS TRAINING E140A		1/3		1	120	P2S1D1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-30	PROP. UNIT HEATER #30	EMS TRAINING E140A		1/3		1	120	P2S1E1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-31	PROP. UNIT HEATER #31	EMS TRAINING E140A		1/3		1	120	P2S1E1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-32	PROP. UNIT HEATER #32	FIRE DRILL AREA E242		1/20		1	120	P2S1E1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-33	PROP. UNIT HEATER #33	PROP & GEAR STORAGE E243		1/20		1	120	FED WITH PUH-32	-	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-34	PROP. UNIT HEATER #34	TRACTOR INSTRUCTION D150B		1/20		1	120	P2S1D1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-35	PROP. UNIT HEATER #35	PRE-ENG ROBOTICS C105		1/20		1	120	P2S1C1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-36	PROP. UNIT HEATER #36	PRE-ENG ROBOTICS C105		1/20		1	120	FED WITH PUH-35	-	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
PUH-37	PROP. UNIT HEATER #37	STORAGE F102A		1/20		1	120	P2N1A7	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1
VE-1	VEHICLE EXHAUST UNIT #1	AUTO TECHNOLOGY C133		1/2		1	120	P2N1C4	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	1
VE-2	VEHICLE EXHAUST UNIT #2	AUTO TECHNOLOGY C133		1/2		1	120	P2N1C4	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	1
VE-3	VEHICLE EXHAUST UNIT #3	AUTO TECHNOLOGY C133		1/2		1	120	P2N1C4	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	1
VE-4	VEHICLE EXHAUST UNIT #4	AUTO TECHNOLOGY C133		1/2		1	120	P2N1C4	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	1
VE-5	VEHICLE EXHAUST UNIT #5	EMS TRAINING E140A		1		1	120	P2N1E3	30/1	2#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	1
VE-6	VEHICLE EXHAUST UNIT #6	EMS TRAINING E140A		1		1	120	P2N1E3	30/1	2#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	1
AFF-C127c	AIR FILTER FAN C127c	BUILDING TRADES C127		3/4		1	120	P2N1C7	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
AFF-C127D	AIR FILTER FAN C127D	BUILDING TRADES C127		3/4		1	120	P2N1C7	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
AFF-C127a	AIR FILTER FAN C127a	BUILDING TRADES C127		3/4		1	120	P2N1C7	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
AFF-C127b	AIR FILTER FAN C127b	BUILDING TRADES C127		3/4		1	120	P2N1C7	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
AFF-C117a	AIR FILTER FAN C117a	CTE EXPLORATION STUDIO C117		3/4		1	120	P2N1C9	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
AFF-C117b	AIR FILTER FAN C117b	CTE EXPLORATION STUDIO C117		3/4		1	120	P2N1C9	25/1	2#10 AWG	1#10 AWG E.G.	3/4"C	-	-	1
AC1-1	INDOOR FAN COIL UNIT #1-1	COSMETOLOGY INSTRUCTION D132A	.30			1	208	P2N1D2	20/2	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC1-2	INDOOR FAN COIL UNIT #1-2	COSMETOLOGY CLINICAL LAB D132	.27			1	208	FED WITH AC1-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC1-3	INDOOR FAN COIL UNIT #1-3	COSMETOLOGY CLINICAL LAB D132	.27			1	208	FED WITH AC1-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC1-4	INDOOR FAN COIL UNIT #1-4	BUSINESS/BANK D130	.19			1	208	FED WITH AC1-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC1-5	INDOOR FAN COIL UNIT #1-5	BUSINESS/BANK D130	.19			1	208	FED WITH AC1-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC1-6	INDOOR FAN COIL UNIT #1-6	BUSINESS D128	.27			1	208	FED WITH AC1-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC1-7	INDOOR FAN COIL UNIT #1-7	BUSINESS D128	.27			1	208	FED WITH AC1-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC2-1	INDOOR FAN COIL UNIT #2-1	CONFERENCE/INSTRUCTION D249	.30			1	208	P2N2D2	20/2	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC2-2	INDOOR FAN COIL UNIT #2-2	MARKETING & MANAGEMENT D245	.27			1	208	FED WITH AC2-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC2-3	INDOOR FAN COIL UNIT #2-3	MARKETING & MANAGEMENT D245	.27			1	208	FED WITH AC2-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC2-4	INDOOR FAN COIL UNIT #2-4	BUSINESS SERVICES D243	.27			1	208	FED WITH AC2-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC2-5	INDOOR FAN COIL UNIT #2-5	BUSINESS SERVICES D243	.27			1	208	FED WITH AC2-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC3-1	INDOOR FAN COIL UNIT #3-1	CAD LAB C202	.30			1	208	P2N2C3	20/2	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC3-2	INDOOR FAN COIL UNIT #3-2	CAD LAB C202	.30			1	208	FED WITH AC3-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
AC3-3	INDOOR FAN COIL UNIT #3-3	CAD LAB OFFICE C204	.19			1	208	FED WITH AC3-1	-	3#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
DWH-1	WATER HEATER #1	MECH ROOM B057	4			1	120	P2SBB2	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
DWH-2	WATER HEATER #2	MECH ROOM B057	4			1	120	P2SBB2	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	A	PROVIDE	-
PP-1	PUMP #1	MECH ROOM B057		1/2		3	208	P2SBB2	20/3	4#12 AWG	1#12 AWG E.G.	3/4"C	-	-	2
PP-2	PUMP #2	MECH ROOM B057		1/8		1	120	P2SBB2	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	1 (3)
PAC-1	PLBG AIR COMPRESSOR #1	TOOL STORAGE C133B		40		3	480	P4N1C2	100/3	4#1 AWG	1#6 AWG E.G.	1 1/2"C	A	PROVIDE	-
PAC-2	PLBG AIR COMPRESSOR #2	SHARED COMPRESSOR C134D		10		3	208	P2N1C8	60/3	4#4 AWG	1#8 AWG E.G.	1 1/4"C	A	PROVIDE	-
PAC-3	PLBG AIR COMPRESSOR #3	SHARED COMPRESSOR C125D		5		1	208	P2N1C7	60/2	3#4 AWG	1#8 AWG E.G.	1 1/4"C	A	PROVIDE	-
PAC-4	PLBG AIR COMPRESSOR #4	FIRE STORAGE E146		5		3	208	P2N1E3	30/3	4#10 AWG	1#10 AWG E.G.	3/4"C	A	PROVIDE	-
RAD-1	REF. AIR DRYER #1 (FOR COMP.)	TOOL STORAGE C133B			1.25	1	208	P2N1C4	20/2	3#12 AWG	1#12 AWG E.G.	3/4"C	-	-	-
RAD-2	REF. AIR DRYER #2 (FOR COMP.)	SHARED COMPRESSOR C134D				1	120	P2N1C8	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	-
RAD-3	REF. AIR DRYER #3 (FOR COMP.)	SHARED COMPRESSOR C125D				1	120	P2N1C7	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	-
RAD-4	REF. AIR DRYER #4 (FOR COMP.)	FIRE STORAGE E146				1	120	P2N1E3	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	-	-	-
SP-1	SUMP PUMP #1	ELEV 1 - ELEV 1		1/2		1	120	P2S1A1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	E	PROVIDE	4
SP-2	SUMP PUMP #2	ELEV 1 - ELEV 2		1/2		1	120	P2N1A1	20/1	2#12 AWG	1#12 AWG E.G.	3/4"C	E	PROVIDE	4

GENERAL NOTES:
1. ALL ACCESSORIES PROVIDED BY THE DIVISION 16 CONTRACTOR. UON
2. ALL CONTROL DEVICES ARE TO BE SURFACE MOUNTED, UNLESS OTHERWISE NOTED.
3. PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION 16 CONTRACTOR
4. IF DIFFERENT THAN INDICATED ON THIS SCHEDULE OR PANELBOARD SCHEDULE, PROVIDE NEW CIRCUIT BREAKER IN DESIGNATED PANELBOARD SIZED PER EQUIPMENT NAMEPLATE DATA.

REFERENCE NOTES:
A. PROVIDE PROPERLY SIZED FUSED DISCONNECT SWITCH (WITH FUSES)
B. INSTALLED UNDER PREVIOUS CONTRACT
C. PROVIDE 208V (SINGLE-PHASE) WIRING AND CONNECTIONS FROM THE UNIT TO POWER THE REMOTE CONDENSATE PUMP
D. SHUNT TRIP CKT BKR
E. PROVIDE GFCI RECEPTACLE

CONTROL DEVICES NOTES

1. MANUAL MOTOR STARTER
2. COMBINATION MAGNETIC STARTER
3. VARIABLE SPEED DRIVE *
4. PACKAGED CONTROL UNIT
5. FIRE ALARM FAN SHUT DOWN
6 BOILER SHUTDOWN SWITCH & THERMAL CUTOUT

* SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:

ELECTRICAL SCHEDULES

DRAWN BY: C. NEWELL

PROJECT NO: 12-067-00

DATE: 02/11/2016

REVISED:

SCALE: NO SCALE

E0.05

Project Phase

BID DOCUMENTS

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

SWITCHBOARD: MSB-A

BUS SIZE: 3000 AMPS — MAIN: 3000 AMP MCB ELECTRONIC TRIP
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: YES — LOCATION: ELECTRICAL B054
ISOLATED GND BUS: NO — MOUNTING: FLOOR
SHORT CIR. CURRENT RATING 65000 AMPS — TVSS: YES

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
PANEL L4N1E1	11587	4679	2714	125	1, 3, 5	2, 4, 6	600ET	88672	80744	82148	PANEL D2N1B1 VIA TRANS TB1
PANEL M4N2C1	121882	121882	121882	600ET	7, 9, 11	8, 10, 12	1000ET	145879	140857	133255	PANEL D2N1C1 VIA TRANS TC1
PANEL M4N2B1	87606	87606	87606	400ET	13, 15, 17	14, 16, 18	125	9857	12825	1544	PANEL L4N2B1
PANEL P4N1C6A & B	160230	159034	157602	800ET	19, 21, 23	20, 22, 24	600ET	96959	95573	85489	PANEL D2N1A1 VIA TRANS TA1
PANEL D2N1E1 VIA TRANS TE1	28414	30757	26269	300ET	25, 27, 29	26, 28, 30	300ET	25000	25000	25000	DIMMER RACK DR1 VIA TRANS T-DR
PANEL D2N2C1 VIA TRANS TC2	30700	24770	26828	400ET	31, 33, 35	32, 34, 36	300ET	51914	58090	35108	PANEL D2N2B1 VIA TRANS TB2
PANEL L4N1C1	14414	12850	5103	125	37, 39, 41	38, 40, 42	125	2911	4077	3003	PANEL L4N2C1
3 PANEL P4LSB1 AND PANEL P2LSB1 VIA ATS-LS	86258	59647	50843	300ET	43, 45, 47	44, 46, 48	125	3410	6166	3262	PANEL L4N1B1
SPARE				400ET	49, 51, 53	50, 52, 54	125	15690	15523	9090	PANEL L4N1A1
SPARE				225ET	55, 57, 59	56, 58, 60	400ET				SPARE
SPARE				225ET	61, 63, 65	62, 64, 66	250				SPACE
SUBTOTAL	541091	501225	478847					440292	438855	377899	SUBTOTAL

NOTES:

TOTAL WATTS L1: 981383
TOTAL WATTS L2: 940080
TOTAL WATTS L3: 856746
TOTAL WATTS: 2778209
TOTAL AMPS @ 100%: 3346 AMPS
TOTAL AMPS @ 125%: 4182 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

SWITCHBOARD: MSB-B

BUS SIZE: 3000 AMPS — MAIN: 3000 AMP MCB ELECTRONIC TRIP
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: YES — LOCATION: ELECTRICAL B054
ISOLATED GND BUS: NO — MOUNTING: FLOOR
SHORT CIR. CURRENT RATING 65000 AMPS — TVSS: YES

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
PANEL M4N2E1	70225	70225	70225	400ET	1, 3, 5	2, 4, 6	600ET	148996	148996	148996	PANEL M4N2D1
PANEL D4NFF1 FOOTBALL FIELD LIGHTING & STADIUM, ETC.	50563	48888	50278	800ET	7, 9, 11	8, 10, 12	300ET	42128	41625	39344	PANEL D2N2D1 VIA TRANS TD2
PANEL D2N1D1 VIA TRANS TD1	110236	103507	104830	600ET	13, 15, 17	14, 16, 18	250ET	59028	59028	59028	PANEL P4N1C2
PANEL M4N1A1	95756	95756	95756	400ET	19, 21, 23	20, 22, 24	125	23870	17109	14309	PANEL L4N1D1
PANEL P4SBB1 VIA ATS-SP	252651	241312	235128	900ET	25, 27, 29	26, 28, 30	125	7702	3961	5226	PANEL L4N2D1
PANEL D2N2E1 VIA TRANS TE2	27081	26123	26708	300ET	31, 33, 35	32, 34, 36	125	6172	4459	3466	PANEL L4N2E1
PANEL M2NBB1 VIA TRANS T-B	2444	2328	2520	100	37, 39, 41	38, 40, 42	100	14410	14410	14410	LIGHTING CABINET RP2 VIA TRANS T-RP
ELEVATOR #2	9422	9422	9422	60	43, 45, 47	44, 46, 48	400ET				SPARE
SPARE				400ET	49, 51, 53	50, 52, 54	225ET				SPARE
SUBTOTAL	618378	597561	594867					302306	289588	284779	SUBTOTAL

NOTES:

TOTAL WATTS L1: 920684
TOTAL WATTS L2: 887149
TOTAL WATTS L3: 879646
TOTAL WATTS: 2687479
TOTAL AMPS @ 100%: 3236 AMPS
TOTAL AMPS @ 125%: 4045 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

PANELBOARD: P4S1A1

BUS SIZE: 600 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC F111D
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
UNIT DHU-12	30817	30817	30817	125	1, 3, 5	2, 4, 6	150	35605	35605	35605	UNIT AHU-1
UNIT AHU-3	35605	35605	35605	150	7, 9, 11	8, 10, 12	90	20785	20785	20785	UNIT AHU-4
UNIT AHU-6	26305	26305	26305	110	13, 15, 17	14, 16, 18	20	443	443	443	CIRC PUMP CP-1
CIRC PUMP CP-3	443	443	443	20	19, 21, 23	20, 22, 24	50				SPARE
SPARE				20	25, 27, 29	26, 28, 30	20				SPARE
LTG - GYM F122	2002			20	31	32	20	2990			LTG - GYM F102
LTG - GYM F122		2772		20	33	34	20		3680		LTG - GYM F102
SPARE				20	35	36	20			4036	LTG - CIRCULATION F119
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	95172	95942	93170					59823	60513	60869	SUBTOTAL

NOTES:

TOTAL WATTS L1: 154995
TOTAL WATTS L2: 156455
TOTAL WATTS L3: 154039
TOTAL WATTS: 465489
TOTAL AMPS @ 100%: 561 AMPS
TOTAL AMPS @ 125%: 701 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

PANELBOARD: P4SBB1

BUS SIZE: 1000 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELECTRICAL B054
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 65000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
PANEL P2SBB1 VIA TRANS ST1	71473	60134	53950	600ET	1, 3, 5	2, 4, 6	500ET (3)	150003	150003	150003	PANEL P4S1A1
PUMP HWP-1 (25HP)	9422	9422	9422	60	7, 9, 11	8, 10, 12	60	9422	9422	9422	PUMP HWP-2 (25HP)
PUMP HWP-3 (2HP)	942	942	942	20	13, 15, 17	14, 16, 18	60	9422	9422	9422	ELEVATOR #1
PUMP HWP-4 (2HP)	942	942	942	20	19, 21, 23	20, 22, 24	20	443	443	443	BLOWER COIL BCU-A100
COMB. AIR FAN CAF-1	582	582	582	20	25, 27, 29	26, 28, 30	50				SPARE
SPARE				30	31, 33, 35	32, 34, 36	20				SPARE
SPARE				20	37, 39, 41	38, 40, 42	20				SPARE
SUBTOTAL	83361	72022	65838					169290	169290	169290	SUBTOTAL

NOTES:

TOTAL WATTS L1: 252651
TOTAL WATTS L2: 241312
TOTAL WATTS L3: 235128
TOTAL WATTS: 729091
TOTAL AMPS @ 100%: 878 AMPS
TOTAL AMPS @ 125%: 1097 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

PANELBOARD: P2SBB1

BUS SIZE: 600 AMPS — MAIN: 600 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELECTRICAL B054
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
PANEL K2S1A1 (KITCHEN)	15674	12763	12319	225ET	1, 3, 5	2, 4, 6	225ET	13926	11870	12346	PANEL P2S1D2 (CULINARY)
PANEL P2S1A1	8108	5456	6972	60	7, 9, 11	8, 10, 12	60	3180	1720	1776	PANEL P2S1B1
PANEL P2S1C1	8928	7368	6804	100	13, 15, 17	14, 16, 18	60	3140	3840	1884	PANEL P2S1D1
PANEL P2S1E1	2460	1884	1584	60	19, 21, 23	20, 22, 24	60	1164	0	0	PANEL P2S2B1
PANEL P2S2C1	1020	1584	720	60	25, 27, 29	26, 28, 30	60	1020	1896	1896	PANEL P2S2D1
PANEL P2S2E1	1020	720	720	60	31, 33, 35	32, 34, 36	150	11833	11033	6929	PANEL P2SBB2
SPARE				20	37, 39, 41	38, 40, 42	20				SPARE
SUBTOTAL	37210	29775	29119					34263	30359	24831	SUBTOTAL

NOTES:

TOTAL WATTS L1: 71473
TOTAL WATTS L2: 60134
TOTAL WATTS L3: 53950
TOTAL WATTS: 185557
TOTAL AMPS @ 100%: 516 AMPS
TOTAL AMPS @ 125%: 645 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

PANELBOARD: K2S1A1

BUS SIZE: 225 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: CORRIDOR C104
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
COOLER CONDENSING UNIT #14A	709	709	709	20	1, 3, 5	2, 4, 6	20	1729	1729	1729	FREEZER COND. UNIT #14C
COOLER CONDENSING UNIT #14A	709	709	709	20	7, 9, 11	8, 10, 12	20	1729	1729	1729	FREEZER COND. UNIT #14C
SPARE				20	13, 15, 17	14, 16	20	1238	1238		FREEZER EVAP COIL #14D
						18, 20	20	1238		1238	FREEZER EVAP COIL #14D
REFRIGERATED GRAB-N-GO #82	1225	1225		20	19, 21	22, 24	20				SPARE
REFRIGERATED GRAB-N-GO #82	1225		1225	20	23, 25	26	20G	1300			WALK-IN COOLER LIGHTS #12
COOLER EVAP COIL #14B		240		20G	27	28	20G		1500		WALK-IN FREEZER LIGHTS #13A
COOLER EVAP COIL #14B			240	20G	29	30	20G			1500	WALK-IN FREEZ HEAT TRACE #13B
VENT. CONTROL SYSTEM #42	1500			20G	31	32	20G	1032			PASS-THRU REFRIGERATOR #56
FIRE SUPPRESSION SYSTEM #43		1500		20G	33	34	20G		984		REACH IN REFRIGERATOR #58
REFRIGERATED GRAB-N-GO #65			840	20G	35	36	20G			1200	CASHIER TERMINAL #85
REFRIGERATED GRAB-N-GO #65	840			20G	37	38	20G	1200			CASHIER TERMINAL #85
SPARE				20G	39	40	20G		1200		CASHIER TERMINAL #85
SPARE				20G	41	42	20G			1200	CASHIER TERMINAL #85
SPARE				20G	43	44	20G				SPARE
SPARE				20G	45	46	20G				SPARE
SPARE				20G	47	48	15G				SPARE
SPARE				20G	49	50	15G				SPARE
SPARE				20G	51	52	15G				SPARE
SPARE				20G	53	54	15G				SPARE
SUBTOTAL	6208	4383	3723					9466	8380	8596	SUBTOTAL

NOTES:

TOTAL WATTS L1: 15674
TOTAL WATTS L2: 12763
TOTAL WATTS L3: 12319
TOTAL WATTS: 40756
TOTAL AMPS @ 100%: 113 AMPS
TOTAL AMPS @ 125%: 142 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

FUSED PANELBOARD: P4LSB1

BUS SIZE: 225 (3) AMPS — MAIN: MLO — SURGE SUPPRESSION
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: EMERG ELEC B054B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 65000 AMPS — TVSS: YES

DIRECTORY	L1	L2	L3	FUSE AMPS	POLES	POLES	FUSE AMPS	L1	L2	L3	DIRECTORY
3 ATRIUM MAKE-UP FAN SSF-2	942	942	942	20	1, 3, 5	2, 4, 6	40	11363	830	3489	PANEL P4LS1A1
PANEL P4LS1B1	3587	3288	246	40	7, 9, 11	8, 10, 12	40	6786	2889	2960	PANEL P4LS1C1
PANEL P4LS1D1	5032	994	1129	40	13, 15, 17	14, 16, 18	40	3387	1006	167	PANEL P4LS1E1
PANEL P4LS2B1	2880	2362	911	40	19, 21, 23	20, 22, 24	40	2191	2362	911	PANEL P4LS2C1
PANEL P4LS2D1	2648	886	0	40	25, 27, 29	26, 28, 30	40	3254	0	0	PANEL P4LS2E1
ATRIUM EXH FAN SEF-1	7482	7482	7482	50	31, 33, 35	32, 34, 36	50	7482	7482	7482	ATRIUM EXH FAN SEF-2
ATRIUM EXH FAN SEF-3	7482	7482	7482	50	37, 39, 41	38, 40, 42	20	942	942	942	ATRIUM MAKE-UP AIR FAN SSF-1
SUBTOTAL	30053	23436	18192					35405	15511	15951	SUBTOTAL

3 NOTES:

TOTAL WATTS L1: 65458
TOTAL WATTS L2: 38947
TOTAL WATTS L3: 34143
TOTAL WATTS: 138548
TOTAL AMPS @ 100%: 167 AMPS
TOTAL AMPS @ 125%: 209 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

FUSED PANELBOARD: P2LSB1

BUS SIZE: 225 AMPS — MAIN: 225 AMP MF — SURGE SUPPRESSION
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: EMERG ELEC B054B
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: YES

DIRECTORY	L1	L2	L3	FUSE AMPS	POLES	POLES	FUSE AMPS	L1	L2	L3	DIRECTORY
CABINET RP1 VIA ATS	8000	8000	8000	100	1, 3, 5	2, 4, 6	100 (3)	10900	11200	8200	PANEL P2LS1B1
SMCP - ELECTRICAL B054	1200			20	7	8	20	200			JUNCTION - MAG. HOLD - B051
FACP - ELECTRICAL B054		1500		20	9	10	20				SPARE
ELEVATOR #1 CAB LIGHTS - A214A			500	20	11	12	20				SPARE
ELEVATOR #2 CAB LIGHTS - A165	500			20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	9700	9500	8500					11100	11200	8200	SUBTOTAL

NOTES:

TOTAL WATTS L1: 20800
TOTAL WATTS L2: 20700
TOTAL WATTS L3: 16700
TOTAL WATTS: 58200
TOTAL AMPS @ 100%: 162 AMPS
TOTAL AMPS @ 125%: 202 AMPS
TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2SBB2

BUS SIZE: 150 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELECTRICAL B054
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	L1	L2	L3	CKT BKR AMPS	POLES	POLES	CKT BKR AMPS	L1	L2	L3	DIRECTORY
BOILER B-1	841	841	841	20	1, 3, 5	2, 4, 6	20	841	841	841	BOILER B-2
BOILER B-3	841	841	841	20	7, 9, 11	8, 10, 12	20	841	841	841	BOILER B-4
BOILER B-5	841	841	841	20	13, 15, 17	14, 16, 18	20	288	288	288	PUMP PP-1
GENERATOR BLOCK HEATER	1500	1500		20	19, 21	20, 22, 24	20				SPARE
SPARE				20	23, 25	26, 28	20	1500	1500		GENERATOR BATTERY CHARGER
ACP - TELECOM B056		1200		20	27						
POWER SUPPLY PS2 - CIRC B051			300	20	29	30	20			360	QUAD RECEP - TELECOM B056
HEATER CUH-1	500			20	31	32	20	360			QUAD RECEP - TELECOM B056
HEATERS PUH-1 & 2		600		20	33	34	20		360		QUAD RECEP - TELECOM B056
HEATERS PUH-3 & 4			600	20	35	36	20			360	QUAD RECEP - TELECOM B056
GENERATOR LIGHTS & RECEP	1500			20	37	38	20	1200			GEN LOAD BANK STRIP HEATER(S)
RECEP - ELECT ROOM B054		540		20	39	40	20		360		QUAD RECEP - TELECOM B056
PUMP PP-2			456	20	41	42	20			360	QUAD RECEP - TELECOM B056
WATER HEATER DWH-1	480			20	43	44	20	300			BAS PANEL - MECH B057
WATER HEATER DWH-2		480		20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	6503	6843	3879					5330	4190	3050	SUBTOTAL

NOTES:

STANDBY POWER

TOTAL WATTS L1: 11833
TOTAL WATTS L2: 11033
TOTAL WATTS L3: 6929
TOTAL WATTS: 29795
TOTAL AMPS @ 100%: 83 AMPS
TOTAL AMPS @ 125%: 104 AMPS
TOTAL PANEL RECPT LOAD = 540 WATTS

C.B. TYPE: S=SHUNT TRIP; G=GFCI; L=LOCK ON C.B.; H=HACR C.B.; AF=ARC FAULT

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE — CHRISTOPHER M. SHUMWAY — No. 10820 — LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

CONTENT: PANELBOARD SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.07

Project Phase: **BID DOCUMENTS**

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: P4N1C2

BUS SIZE: 250 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: WELDING FABRICATION C138
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	18013				1	2		7482			
DUST COLLECTOR DC-C138		18013		125	3	4	50		7482		DUST COLLECTOR DC-C117
			18013		5	6				7482	
	831				7	8		3880			
DUST COLLECTOR DC-C134b		831		20	9	10	25		3880		DUST COLLECTOR DC-C134a
			831		11	12				3880	
	14411				13	14		14411			
DUST COLLECTOR DC-C127		14411		100	15	16	100		14411		AIR COMPRESSOR PAC-1
			14411		17	18				14411	
					19	20					
SPARE				60	21	22	50				SPARE
					23	24					
SPARE				20	25	26	20				SPARE
SPARE				20	27	28	20				SPARE
SPARE				20	29	30	20				SPARE
SUBTOTAL	33255	33255	33255					25773	25773	25773	SUBTOTAL

NOTES:
TOTAL WATTS L1: 59028
TOTAL WATTS L2: 59028
TOTAL WATTS L3: 59028
TOTAL WATTS: 177084
C.B. TYPE — TOTAL AMPS @ 100%: 213 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 267 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N1C6

BUS SIZE: 250 AMPS — MAIN: 250 AMP MCB ELECTRONIC TRIP (3)
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: WELDING STORAGE C138D
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	1400				1	2		1400			
METAL SPINNING LATHE - C138		1400		20	3	4	20		1400		METAL SAW - C138
			1400		5	6				1400	
					7	8					
SPARE				30	9	10	20				SPARE
					11	12					
DROP CORD - WELDING FAB C138	360			20G	13	14	20	1248			HYDRAUL. METAL WORKER - C138
DROP CORD - WELDING FAB C138		360		20G	15	16			1248		
DROP CORD - WELDING FAB C138			360	20G	17	18	20				SPARE
DROP CORD - WELDING FAB C138	360			20G	19	20					
DROP CORD - WELDING FAB C138		360		20G	21	22	20				SPARE
DROP CORD - WELDING FAB C138			360	20G	23	24					
PED. GRINDER BUS DROP C138	1000			20	25	26	20	540			RECEP - LOCKERS C138B
PED. GRINDER BUS DROP C138		1000		20	27	28	20		900		RECEP - WELDING FAB C138
IWB RECEP - CLASSROOM C138A			300	20	29	30	20			1000	BAND SAW BUS DROP C138
RECEP - CLASSROOM C138A	720			20	31	32	20	600			WELDING BOOTH RECEPT - C138
RECEP - CLASSROOM C138A		720		20	33	34	20		600		WELDING BOOTH RECEPT - C138
RECEP - WELD. STORAGE C138D			900	20	35	36	20			600	WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138	600			20	37	38	20	600			WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138		600		20	39	40	20		600		WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138			600	20	41	42	20			600	WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138	600			20	43	44	20	600			WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138		600		20	45	46	20		600		WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138			600	20	47	48	20			600	WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138	600			20	49	50	20	600			WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138		600		20	51	52	20		600		WELDING BOOTH RECEPT - C138
WELDING BOOTH RECEPT - C138			600	20	53	54	20			600	WELDING BOOTH RECEPT - C138
RECEPT - OFFICE C136	720			20	55	56	20	1000			DISC SANDER BUS DROP C138
DUST COLLECTION FIRE PANEL		300		20	57	58	20		864		OVERHEAD DOOR C138
HEAT TRACE - OFFICE C136			400	20	59	60	20			1000	DRILL PRESS BUS DROP C138
SPARE				20	61	62	20	1000			DRILL PRESS BUS DROP C138
SPARE				20	63	64	20				SPARE
SPARE				20	65	66	20				SPARE
SPARE				20	67	68	20				SPARE
SPARE				20	69	70	20				SPARE
SPARE				20	71	72	20				SPARE
SUBTOTAL	6360	5940	5520					7588	6812	5800	SUBTOTAL

NOTES:
TOTAL WATTS L1: 13948
TOTAL WATTS L2: 12752
TOTAL WATTS L3: 11320
TOTAL WATTS: 38020
C.B. TYPE — TOTAL AMPS @ 100%: 106 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 132 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 19260 WATTS

PANELBOARD: M2NBB1

BUS SIZE: 150 AMPS — MAIN: 150 AMP MCB
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELECTRICAL B054
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
					1	2		260			
SPARE				20	3	4	30		360		PANEL P2NOB1
					5	6				360	(OUT BUILDING)
					7	8					
SPARE				20	9	10	20				SPARE
					11	12					
					13	14					
SPARE				20	15	16	20				SPARE
					17	18					
					19	20					
SPARE				20	21	22	20				SPARE
					23	24					
FANS EF-B054/B054B	744			20	25	26	20	720			RECEP - MAINTENANCE B052
FAN EF-B052		528		20	27	28	20		720		RECEP - CUST OFFICE B055
RECEP - BLDG STORAGE B058			720	20	29	30	20			900	RECEP - SPRINKLER RM B053
SPARE				20	31	32	20	720			RECEP - MECHANICAL B057
SPARE				20	33	34	20		720		RECEP - MECHANICAL B057
SPARE				20	35	36	20			540	RECEP - MAINTENANCE B052
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	744	528	720					1700	1800	1800	SUBTOTAL

NOTES:
TOTAL WATTS L1: 2444
TOTAL WATTS L2: 2328
TOTAL WATTS L3: 2520
TOTAL WATTS: 7292
C.B. TYPE — TOTAL AMPS @ 100%: 20 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 25 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 5040 WATTS

PANELBOARD: P2N1C8A

BUS SIZE: 150 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: PREC. MANUFACTURING C134
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
SURFACE GRINDER - C134	1200			20	1	2		1200			
		1200			3	4	20		1200		EDM WIRE MACHINE - C134
CYLINDRICAL GRINDER - C134			1200	20	5	6				1200	
	1200				7	8	20				SPARE
PEDESTAL GRINDER - C134		1000		20	9	10					
PEDESTAL GRINDER - C134			1000	20	11	12	20				SPARE
PEDESTAL GRINDER - C134	1000			20	13	14					
PEDESTAL GRINDER - C134		1000		20	15	16	20		540		RECEP - STORAGE C134B
PEDESTAL GRINDER - C134			1000	20	17	18	20			720	RECEP - OFFICE C132
PEDESTAL GRINDER - C134	1000			20	19	20	20	1000			BENCH DRILL PRESS - C134
RAD. ARM DRILL BUS DROP - C134		1000		20	21	22	20		1000		DISC SANDER - C134
BAND SAW - C134			1000	20	23	24	20			1000	BAND SAW - C134
RECEP - INSPECTION C134C	540			20	25	26	20	300			IWB RECEP - INSTRUCTION C134A
CNTR RECEP - INSPECT. C134C		1000		20	27	28	20		540		RECEP - INSTRUCTION C134A
CNTR RECEP - INSPECT. C134C			1000	20	29	30	20			540	RECEP - INSTRUCTION C134A
DROP CORDS - PREC MAN C134	360			20G	31	32	20	720			RECEP - PREC MANUFACT C134
DROP CORDS - PREC MAN C134		360		20G	33	34	20		720		RECEP - PREC MANUFACT C134
RECEP - PREC MANUFACT C134			180	20	35	36	20			1000	METAL SAW - C134
DUST COLLECTION FIRE PANEL	300			20	37	38	20	1000			FURNACE - C134
HEAT TRACE - PREC. MANUF. C134		400		20	39	40	20		360		CNTR REC - INSPECTION C134C
SPARE				20	41	42	20			1200	CNC RECEP - INSPECTION C134C
SPARE				20	43	44	20	1200			CNC RECEP - INSPECTION C134C
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	5600	5960	5380					5420	4360	5660	SUBTOTAL

NOTES:
TOTAL WATTS L1: 11020
TOTAL WATTS L2: 10320
TOTAL WATTS L3: 11040
TOTAL WATTS: 32380
C.B. TYPE — TOTAL AMPS @ 100%: 90 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 112 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 7580 WATTS

PANELBOARD: L4N1B1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
					1	2	20	486			LTG - EXTERIOR BUILDING B
SPARE				20	3	4	20		3985		LTG - OFFICE (2) B130
					5	6	20			430	LTG - STAIR B
LTG - MECH B057	1912			20	7	8	20	223			LTG - EXTERIOR BUILDING A1,F1
LTG - VIDEO PROD B101		2181		20	9	10	20				SPARE
LTG - FINE ART STUDIO B127			2832	20	11	12	20				SPARE
LTG - ART & COMM 1ST LEVEL B120	789			20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	2701	2181	2832					709	3985	430	SUBTOTAL

NOTES:
TOTAL WATTS L1: 3410
TOTAL WATTS L2: 6166
TOTAL WATTS L3: 3262
TOTAL WATTS: 12838
C.B. TYPE — TOTAL AMPS @ 100%: 15 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 19 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: D2N1B1

BUS SIZE: 800 AMPS — MAIN: 800 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	27241				1	2		19806			
PANEL K2N1A1		25033		400ET	3	4	225ET		16796		PANEL K2N1A2
			26328		5	6				16580	
	17620				7	8		9305			
PANEL P2N1B1		16380		225	9	10	125		8260		PANEL P2N1B2
			17340		11	12				10080	
	8040				13	14		6660			
PANEL P2N1B3		7315		125	15	16	125		6960		PANEL P2N1B4
			6060		17	18				5760	
					19	20					
SPARE				125	21	22	80				SPARE
					23	24					
					25	26					
SPARE				50	27	28	30				SPARE
					29	30					
SUBTOTAL	52901	48728	49728					35771	32016	32420	SUBTOTAL

NOTES:
TOTAL WATTS L1: 88672
TOTAL WATTS L2: 80744
TOTAL WATTS L3: 82148
TOTAL WATTS: 251564
C.B. TYPE — TOTAL AMPS @ 100%: 699 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 874 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N1B1

BUS SIZE: 225 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	3600				1	2		3600			
KILN #1 - KILN B149		3600		50	3	4	50		3600		KILN #2 - KILN B149
			3600		5	6				3600	
GFCI RECEP - POTTERY B147	1000			20	7	8	20	300			IWB RECEP - POTTERY B147
GFCI RECEP - POTTERY B147		1000		20	9	10	20		540		RECEP - POTTERY B147
GFCI RECEP - POTTERY B147			1000	20	11	12	20			540	RECEP - POTTERY B147
GFCI RECEP - POTTERY B147	1000			20	13	14	20	540			RECEP - POTTERY B147
GFCI RECEP - POTTERY B147		1000		20	15	16	20		720		RECEP - KILN B149
GFCI RECEP - POTTERY B147			1000	20	17	18	20			1080	DROP CORDS - POTTERY B147
GFCI RECEP - POTTERY B147	1000			20	19	20	20	720			RECEP - A&C LIBRARY B120A
GFCI RECEP - POTTERY B147		1000		20	21	22	20		300		LCD - A&C LIBRARY B120A
GFCI RECEP - POTTERY B147			1000	20	23	24	20			300	IWB RECEP - CLASSROOM B143B
GFCI RECEP - POTTERY B147	1000			20	25	26	20	720			RECEP - CLASSROOM B143B
IWB RECEP - CLASSROOM B143A		300		20	27	28	20		720		RECEP - CLASSROOM B143B
RECEP - CLASSROOM B143A			720	20	29	30	20			720	RECEP DESK - CLASSRM B143B
RECEP - CLASSROOM B143A	720			20	31	32	20	720			RECEP DESK - CLASSRM B143B
RECEP DESK - CLASSRM B143A		720		20	33	34	20		720		RECEP DESK - CLASSRM B143B
RECEP DESK - CLASSRM B143A			720	20	35	36	20			720	RECEP DESK - CLASSRM B143B
RECEP DESK - CLASSRM B143A	720			20	37	38	20	720			RECEP DESK - CLASSRM B143B
RECEP DESK - CLASSRM B143A		720		20	39	40	20		720		RECEP DESK - CLASSRM B143B
RECEP DESK - CLASSRM B143A			720	20	41	42	20			1260	RECEP - CORRIDOR
RECEP DESK - CLASSRM B143A	720			20	43	44	20	540			RECEP - ELECT ROOM A193
FLOOR BOX A1 - LIBRARY B120A		360		20	45	46	20		360		FLOOR BOX A1 - LIBRARY B120A
FLOOR BOX A1 - LIBRARY B120A			360	20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	9760	8700	9120					7860	7680	8220	SUBTOTAL

NOTES:
TOTAL WATTS L1: 17620
TOTAL WATTS L2: 16380
TOTAL WATTS L3: 17340
TOTAL WATTS: 51340
C.B. TYPE — TOTAL AMPS @ 100%: 143 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 178 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 18540 WATTS

PANELBOARD: P2N1B2

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
IWB RECEP - FINE ARTS B141	300			20	1	2					
RECEP - FINE ARTS B141		540		20	3	4	20				SPARE
RECEP - FINE ARTS B141			720	20	5	6					
RECEP - FINE ARTS B141	540			20	7	8	20	300			TRACK LIGHTING - B127
CNTR RECEP - FINE ARTS B141		360		20	9	10	20		300		TRACK LIGHTING - B141
DROP CORDS - FINE ARTS B141			1080	20	11	12	20			120	TRACK LIGHTING - B147
PAPER CUTTER - FINE ARTS B141	1500			20	13	14	20	105			TRACK LIGHTING - B147
RECEP - OFFICE B139		720		20	15	16	20		1500		BELT DRYER - GRAPHICS B112
RECEP - STORAGE B141A			720	20	17	18	20			1500	PAPER CUTTER - GRAPHICS B112
RECEP - STORAGE B127A	720			20	19	20	20	200			TRACK LIGHTING - LIBRARY B120A
IWB RECEP - FINE ARTS B127		300		20	21	22	20		320		LTG - DISPLAY B120A
RECEP - FINE ARTS B127			360	20	23	24	20			540	RECEP - PRINT/WORK RM B112A
RECEP - FINE ARTS B127	540			20	25	26	20	540			RECEP - PRINT/WORK RM B112A
RECEP - FINE ARTS B127		360		20	27	28	20		360		RECEP - PRINT/WORK RM B112A
RECEP - FINE ARTS B127			360	20	29	30	20			1500	VINYL PLOTTER - B112A
CNTR RECEP - FINE ARTS B127	360			20	31	32	20	1500			PLOTTER - WORK ROOM B112A
DROP CORDS - FINE ARTS B127		1080		20	33	34	20		300		IWB RECEP - GRAPHICS B112
RECEP - OFFICE B113			720	20	35	36	20			540	RECEP - GRAPHICS B112
RECEP - STORAGE B115	720			20	37	38	20	540			RECEP - GRAPHICS B112
FLOOR BOX A2 - GRAPHICS B112		360		20	39	40	20		1000		PRINT TABLE - GRAPHICS B112
FLOOR BOX A2 - GRAPHICS B112			360	20	41	42	20			1200	SPRAY BOOTH - GRAPHICS B112
FLOOR BOX A2 - GRAPHICS B112	360			20	43	44	20	720			RECEP - GRAPHICS B112
FLOOR BOX A2 - GRAPHICS B112		360		20	45	46	20		400		JUNCTION - DAMPERS - B120
FLOOR BOX A2 - GRAPHICS B112			360	20	47	48	20				SPARE
FLOOR BOX A2 - GRAPHICS B112	360			20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	5400	4080	4680					3905	4180	5400	SUBTOTAL

NOTES:
TOTAL WATTS L1: 9305
TOTAL WATTS L2: 8260
TOTAL WATTS L3: 10080
TOTAL WATTS: 27645
C.B. TYPE — TOTAL AMPS @ 100%: 77 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 96 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 13140 WATTS

PANELBOARD: P2N1B3

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
RECEP - LTG STUDIO B114	360			20	1	2	20	720			RECEP - OFFICE B102
RECEP - LTG STUDIO B114		720		20	3	4	20		360		RECEP - EDITING B103A
RECEP - PRODUCT STUDIO B105			540	20	5	6	20			360	RECEP - EDITING B103A
RECEP - PRODUCT STUDIO B105	540			20	7	8	20	540			RECEP - EDITING B103A
RECEP - PRODUCT STUDIO B105		540		20	9	10	20		360		QUAD RECEP - CONTROL RM B103
RECEP - PRODUCT STUDIO B105			540	20	11	12	20			360	QUAD RECEP - CONTROL RM B103
RECEP - SHARED OFFICE B107	360			20	13	14	20	360			QUAD RECEP - CONTROL RM B103
QUAD RECEP - OFFICE B107		360		20	15	16	20		360		QUAD RECEP - CONTROL RM B103
QUAD RECEP - OFFICE B107			360	20	17	18	20			360	QUAD RECEP - CONTROL RM B103
QUAD RECEP - SERVER B107A	360			20	19	20	20	360			QUAD RECEP - CONTROL RM B103
QUAD RECEP - SERVER B107A		360		20	21	22	20		360		AV QUAD RECEP - CONT RM B103
IWB RECEP - VIDEO PROD B101			300	20	23	24	20			360	AV QUAD RECEP - CONT RM B103
RECEP - VIDEO PROD LAB B101	720			20	25	26	20	360			AV QUAD RECEP - CONT RM B103
RECEP - VIDEO PROD LAB B101		720		20	27	28	20		360		AV QUAD RECEP - CONT RM B103
RECEP - VIDEO PROD LAB B101			540	20	29	30	20			360	AV QUAD RECEP - VIDEO LAB B101
LCD - VIDEO PROD LAB B101	300			20	31	32	20	900			RECEP - CORRIDOR
RECEP DESK - VIDEO PROD B101		540		20	33	34	20		600		LCD (2) - CORRIDOR
RECEP DESK - VIDEO PROD B101			540	20	35	36	20			540	AV WALL BOX RECEP - AREA A121A
RECEP DESK - VIDEO PROD B101	540			20	37	38	20	720			RECEP (STEP) S1 FLOOR BOX
RECEP DESK - VIDEO PROD B101		540		20	39	40	20		720		RECEP (STEP) S1 FLOOR BOX
RECEP DESK - VIDEO PROD B101			540	20	41	42	20			360	DROP CORD - DESIGN B112
RECEP DESK - VIDEO PROD B101	540			20	43	44	20	360			DROP CORD - DESIGN B112
FLOOR BOX A1 - PRESENT. A121A		360		20	45	46	20		55		LTG - SPOT LIGHT - A121A
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	3720	4140	3360					4320	3175	2700	SUBTOTAL

NOTES:
TOTAL WATTS L1: 8040
TOTAL WATTS L2: 7315
TOTAL WATTS L3: 6060
TOTAL WATTS: 21415
C.B. TYPE — TOTAL AMPS @ 100%: 60 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 74 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 18360 WATTS

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE — CHRISTOPHER M. SHUMWAY — No. 10820 — LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

CONTENT: PANELBOARD SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.08

Project Phase
BID DOCUMENTS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: D2N2B1

BUS SIZE: 400 AMPS — MAIN: 400 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC B228A
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
	8400				1	2		16990			
PANEL P2N2B1		9540		125	3	4	150ET		18770		PANEL P2N2B2
			6000		5	6				8460	
	8940				7	8		3960			
PANEL P2N2B3		12960		125	9	10	225ET		2620		PANEL P2N2B4
			9660		11	12				2160	
					13	14					
SPARE				50	15	16	20				SPARE
					17	18					
UNIT ACC-6	2392			35	19	20	35	2392			UNIT ACC-7
		2392			21	22			2392		
UNIT ACC-3			1664	20	23	24	20			1664	UNIT ACC-4
	1664				25	26		1664			
UNIT ACC-5		1664		20	27	28	20		1664		UNIT ACC-8
			1664		29	30				1664	
UNIT ACC-10	1664			20	31	32	20	1664			UNIT ACC-16
		1664			33	34			1664		
SPARE				20	35	36	20				SPARE
					37	38					
FAN EF-A193		528		20	39	40	20		528		FAN EF-A174
FAN KEF-7			1176	20	41	42	20			696	FAN KEF-8
FAN EF-B149	1656			25	43	44	20	528			FAN EF-C104C
FAN DEF-1		1176		20	45	46	20		528		FAN EF-B228A
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	24716	29924	20164					27198	28166	14644	SUBTOTAL

NOTES:
TOTAL WATTS L1: 51914
TOTAL WATTS L2: 58090
TOTAL WATTS L3: 34808
TOTAL WATTS: 144812
C.B. TYPE — TOTAL AMPS @ 100%: 402 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 503 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N2B1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC B228A
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
IWB RECEP - LEARNING CTR A224	300			20	1	2	20	540			RECEP - LEARNING CTR A224
RECEP - LEARNING CTR A224		720		20	3	4	20		360		RECEP DESK - LEARNING A224
RECEP DESK - LEARNING A224			360	20	5	6	20			360	RECEP DESK - LEARNING A224
RECEP DESK - LEARNING A224	360			20	7	8	20	540			RECEP DESK - LEARNING A224
RECEP DESK - LEARNING A224		540		20	9	10	20		540		RECEP DESK - LEARNING A224
RECEP DESK - LEARNING A224			540	20	11	12	20			540	RECEP - RESOURCE RM A241
IWB RECEP - FACULTY A228	300			20	13	14	20	720			RECEP - FACULTY TRAIN A228
RECEP - FACULTY TRAIN A228		540		20	15	16	20		360		RECEP DESK - FACULTY A228
RECEP DESK - FACULTY A228			360	20	17	18	20			360	RECEP DESK - FACULTY A228
RECEP DESK - FACULTY A228	540			20	19	20	20	540			RECEP DESK - FACULTY A228
RECEP DESK - FACULTY A228		540		20	21	22	20		1440		RECEP - LIGHT LOCK A280
RECEP - ACAD. SUPPORT A244			540	20	23	24	20			540	RECEP - ACAD. SUPPORT A244
RECEP - ACAD. SUPPORT A244	360			20	25	26	20	720			RECEP - SPECIAL ED A240A
COPIER - SPECIAL ED A240A		1500		20	27	28	20		300		LCD - SPECIAL ED A240A
IWB RECEP - RESOURCE RM A242			300	20	29	30	20			540	RECEP - RESOURCE RM A242
RECEP - RESOURCE RM A242	540			20	31	32	20	720			RECEP - RESOURCE RM A242
RECEP - SPECIAL ED A240		720		20	33	34	20		360		QUAD RECEP - SPECIAL ED A240
QUAD RECEP - SPECIAL ED A240			360	20	35	36	20			360	QUAD RECEP - SPECIAL ED A240
IWB RECEP - RESOURCE RM A243	300			20	37	38	20	540			RECEP - RESOURCE RM A243
RECEP - RESOURCE RM A243		540		20	39	40	20		540		RECEP - RESOURCE RM A243
IWB RECEP - RESOURCE RM A241			300	20	41	42	20			540	RECEP - RESOURCE RM A241
RECEP - RESOURCE RM A241	540			20	43	44	20	840			FAN EF-B215C & EF-A252
RECEP - RESOURCE RM A241		540		20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	3240	5640	2760					5160	3900	3240	SUBTOTAL

NOTES:
TOTAL WATTS L1: 8400
TOTAL WATTS L2: 9540
TOTAL WATTS L3: 6000
TOTAL WATTS: 23940
C.B. TYPE — TOTAL AMPS @ 100%: 67 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 83 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 19800 WATTS

PANELBOARD: P2N2B2

BUS SIZE: 150 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC B228A
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
RANGE RECEP- KITCHENETTE	4000			50	1	2	30	3250			DRYER RECEP - LAUNDRY
B215B		4000			3	4			3250		B215A
IWB RECEP - JOB GRADS A260			300	20	5	6	20			720	RECEP - JOB GRADS A260
RECEP - JOB GRADS A260	720			20	7	8	20	540			RECEP - JOB GRADS A260
RECEP - TOILET A262		540		20	9	10	20		540		RECEP - ED TECH OFFICE A268
RECEP - ED TECH OFFICE A268			540	20	11	12	20			540	RECEP - ED TECH OFFICE A268
RECEP - ED TECH OFFICE A268	720			20	13	14	20	720			RECEP - ED TECH OFFICE A268
RECEP - ED TECH OFFICE A268		720		20	15	16	20		720		RECEP - ED TECH OFFICE A268
CNTR RECEP - ED TECH A268			360	20	17	18	20			1500	COPIER - ED TECH OFFICE A268
RECEP - ELECT ROOM B228A	540			20	19	20	20	600			LCD (2) - CORRIDOR B220
RECEP - CORRIDOR B220		900		20	21	22	20		1080		CORR RECEP - LL ENGLISH B201
BOX B1/LCD - LL CONF B204			660	20	23	24	20			800	PROJECTOR SCREEN - DINING
RECEP - LL CONF B204	540			20	25	26	20	200			LCP8 - ELECT B228A
RECEP - LL CONF B204		540		20	27	28	20G		1500		WASHER RECEP - LAUNDRY B215A
RECEP - BATH B215C			180	20	29	30	20			360	QUAD RECEP - LL ENGLISH B201
RECEP - KITCHENETTE B215B	1500			20	31	32	20	360			QUAD RECEP - LL ENGLISH B201
RECEP - OFFICE B203		720		20	33	34	20		300		IWB RECEP - CAREER EXPL B211
BOX B1/LCD - LL STUDENT B202			660	20	35	36	20			540	RECEP - CAREER EXPLOR B211
RECEP - LL STUDENT ASSIST B202	720			20	37	38	20	720			RECEP - CAREER EXPLOR B211
PROJECTOR - DINING		1200		20	39	40	20		360		QUAD REC - CAREER EXPL B211
RECEP - CORRIDOR			540	20	41	42	20			360	QUAD REC - CAREER EXPL B211
REFRIGERATOR - KITCHEN B215B	1500			20G	43	44	20	360			QUAD REC - CAREER EXPL B211
RECEP - LIFE SKILLS B215		900		20	45	46	20		1500		RECEP - KITCHENETTE B215B
JUNCTION - DAMPERS - B220			400	20	47	48	20				SPARE
SPARE				15	49	50	20				SPARE
SPARE				15	51	52	20				SPARE
SPARE				15	53	54	20				SPARE
SUBTOTAL	10240	9520	3640					6750	9250	4820	SUBTOTAL

NOTES:
TOTAL WATTS L1: 16990
TOTAL WATTS L2: 18770
TOTAL WATTS L3: 8460
TOTAL WATTS: 44220
C.B. TYPE — TOTAL AMPS @ 100%: 123 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 154 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 20100 WATTS

PANELBOARD: L4N1D1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D146
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
	12000				1	2	20	363			LTG - EXTERIOR BUILDING D
GREENHOUSE CONTROL POWER		12000		100	3	4	20		185		LTG - STAIR G
			12000		5	6	20			274	LTG - STAIR D
LTG - DATA D144	2043			20	7	8	20	2121			LTG - COSMOTOLOGY D132
LTG - BUISINESS D128		3563		20	9	10	20		1361		LTG - LOBBY D140
LTG - PATHWAY LIBRARY D120			740	20	11	12	20			1295	LTG - DINING D151
LTG - STORAGE D133	3330			20	13	14	20	4013			LTG - TECH HUB A135
LIGHTING CIRCUIT				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SUBTOTAL	17373	15563	12740					6497	1546	1569	SUBTOTAL

NOTES:
TOTAL WATTS L1: 23870
TOTAL WATTS L2: 17109
TOTAL WATTS L3: 14309
TOTAL WATTS: 55288
C.B. TYPE — TOTAL AMPS @ 100%: 67 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 83 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: D2N1D1

BUS SIZE: 1000 AMPS — MAIN: 3 1000 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D146
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
	8602				1	2		5526			
PANEL P2N1D1		7498		125	3	4	125		5868		PANEL P2N1D2
			7944		5	6				6403	
	5480				7	8		31544			
PANEL P2N1D3		6201		125	9	10	250ET		27354		PANEL P2N1D4
			5220		11	12				26894	
	20602				13	14		38482			
PANEL P2N1D5		19110		400ET	15	16	400ET		37476		PANEL P2N1D6
			21337		17	18				37032	
					19	20					
SPARE				125	21	22	60				SPARE
					23	24					
					25	26					
SPARE				50	27	28	20				SPARE
					29	30					
SUBTOTAL	34684	32809	34501					75552	70698	70329	SUBTOTAL

NOTES:
TOTAL WATTS L1: 110236
TOTAL WATTS L2: 103507
TOTAL WATTS L3: 104830
TOTAL WATTS: 318573
C.B. TYPE — TOTAL AMPS @ 100%: 885 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 1107 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N1D1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D146
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
RECEP - GREENHOUSE D154	360			20	1	2	30	3250			DRYER RECEP - LOCKER D132C
RECEP - GREENHOUSE D154		360		20	3	4			3250		
QUAD REC - OFFICE SALES D152			360	20	5	6	20G			1500	WASHER RECP - LOCKER D132C
RECEP - OFFICE SALES D152	360			20	7	8	20	180			RECEP - HORTICULTURE D150
RECEP - HORTICULTURE D150		360		20	9	10	20		180		RECEP - HORTICULTURE D150
DROP CORDS - HORTICULT. D150			720	20G	11	12	20			360	RECEP - HORTICULTURE D150
DROP CORDS - HORTICULT. D150	720			20G	13	14	20	540			RECEP - HORTICULTURE D150
RECEP - SRO OFFICE D158A		360		20	15	16	20		360		RECEP - HORTICULTURE D150
RECEP - SRO OFFICE D158A			360	20	17	18	20			360	RECEP - HORTICULTURE D150
RECEP - RECEPTION D158	360			20	19	20	20	360			DROP CORDS - GREENHSE D154
RECEP - RECEPTION D158		360		20	21	22	20		300		IWB RECEP - INSTRUCTION D150A
RECEP - EXTERIOR			720	20	23	24	20			720	RECEP - INSTRUCTION D150A
OVERHEAD DOOR - TRACT. D150B	864			20	25	26	20	720			RECEP - INSTRUCTION D150A
RECEP - STORAGE D150C		720		20	27	28	20		528		FAN EF-D150B
RECEP - ELECT ROOM D146			1260	20	29	30	20			720	RECEP - LOCKER D132C
EXHAUST FAN EF-D150B	528			20	31	32	20G	360			DROP CORDS - GREENHSE D154
DROP CORD - HORTICULT. D150		360		20G	33	34	20G		360		DROP CORDS - GREENHSE D154
OVERHEAD DOOR - D154			864	20	35	36	20G				SPARE
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	3192	2520	4284					5410	4978	3660	SUBTOTAL

NOTES:
TOTAL WATTS L1: 8602
TOTAL WATTS L2: 7498
TOTAL WATTS L3: 7944
TOTAL WATTS: 24044
C.B. TYPE — TOTAL AMPS @ 100%: 67 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 84 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 12240 WATTS

PANELBOARD: P2N1D2

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D146
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
IWB RECEP - COS INSTR D132A	300			20	1	2	20	183			AC UNITS AC1-1, 2, 3, 4, 5, 6 & 7
RECEP - COSMET INSTR D132A		720		20	3	4			183		
RECEP - WIG DRYER - D132A			180	20	5	6	20			183	UNITS AC1-1, 2, 3, 4, 5, 6 & 7
RECEP - WIG DRYER - D132A	180			20	7	8		183			
RECEP - WIG DRYER - D132A		180		20	9	10	20		180		RECEP - COSMETOLOGY LAB D132
FLOOR BOX D1 - COSMET D132			360	20	11	12	20			720	RECEP - COSMETOLOGY LAB D132
FLOOR BOX D1 - COSMET D132	360			20	13	14	20	360			RECEP - COSMETOLOGY LAB D132
FLOOR BOX D1 - COSMET D132		360		20	15	16	20		360		RECEP - COSMETOLOGY LAB D132
SALON RECEP - COSMET D132			360	20	17	18	20			360	RECEP - COSMETOLOGY LAB D132
SALON RECEP - COSMET D132	360			20	19	20	20	360			RECEP - COSMETOLOGY LAB D132
SALON RECEP - COSMET D132		360		20	21	22	20		360		RECEP - COSMETOLOGY LAB D132
SALON RECEP - COSMET D132			360	20	23	24	20			540	RECEP - COSMETOLOGY LAB D132
SALON RECEP - COSMET D132	360			20	25	26	20	360			SALON RECEP - COSMET D132
SALON RECEP - COSMET D132		360		20	27	28	20		360		SALON RECEP - COSMET D132
SALON RECEP - COSMET D132			360	20	29	30	20			360	SALON RECEP - COSMET D132
SALON RECEP - COSMET D132	360			20	31	32	20	360			SALON RECEP - COSMET D132
SALON RECEP - COSMET D132		360		20	33	34	20		360		SALON RECEP - COSMET D132
SALON RECEP - COSMET D132			360	20	35	36	20			360	SALON RECEP - COSMET D132
RECEP - TOILET D143	720			20	37	38	20	360			RECEP - DISPENSORY D132B
FANS DBF-D132C, D112, D132D		225		20	39	40	20		1500		CNTR REC - DISPENSORY D132B
JUNCTION - DAMPERS - D120			400	20	41	42	20G			1500	DISHWASHER DISPENSORY D132B
SPARE				20	43	44	20	720			RECEP - OFFICE D134
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	2640	2565	2380					2886	3303	4023	SUBTOTAL

NOTES:
TOTAL WATTS L1: 5526
TOTAL WATTS L2: 5868
TOTAL WATTS L3: 6403
TOTAL WATTS: 17797
C.B. TYPE — TOTAL AMPS @ 100%: 49 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 62 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 12420 WATTS

PANELBOARD: P2N1D3

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D146
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
LCD - PATH LIBRARY D120A	300			20	1	2	20	300			IWB RECEP - BUSINESS D128
RECEP - BUSINESS D130		540		20	3	4	20		540		RECEP - BUSINESS D128
RECEP - BUSINESS D130			540	20	5	6	20			540	RECEP - BUSINESS D128
RECEP - BUSINESS D130	360			20	7	8	20	360			RECEP - BUSINESS D128
RECEP - BUSINESS D130		540		20	9	10	20		720		RECEP DESK - BUSINESS D128
IWB RECEP - BUSINESS D122			300	20	11	12	20			720	RECEP DESK - BUSINESS D128
RECEP - BUSINESS/MATH D122	360			20	13	14	20	720			RECEP DESK - BUSINESS D128
RECEP - BUSINESS/MATH D122		360		20	15	16	20		720		RECEP DESK - BUSINESS D128
RECEP - BUSINESS/MATH D122			720	20	17	18	20			720	RECEP DESK - BUSINESS D128
RECEP - BUSINESS/MATH D122	720			20	19	20	20	720			RECEP DESK - BUSINESS D128
RECEP - TOILET D126		360		20	21	22	20		900		RECEP - CORRIDOR
RECEP - PATH LIBRARY D120A			720	20	23	24	20			300	IWB RECEP - CLASSROOM D117A
FLOOR BOX A1 - LIBRARY D120A	360			20	25	26	20	540			RECEP - CLASSROOM D117A
FLOOR BOX A1 - LIBRARY D120A		360		20	27	28	20		540		RECEP - CLASSROOM D117A
FLOOR BOX A1 - LIBRARY D120A			360	20	29	30	20			300	IWB RECEP - CLASSROOM D117B
LCP2 - ELEC D146	200			20	31	32	20	540			RECEP - CLASSROOM D117B
LTG - PATH LIBRARY D120A - TRACK		81		20	33	34	20		540		RECEP - CLASSROOM D117B
SPARE				20	35	36	20				SPARE
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	2300	2241	2640					3180	3960	2580	SUBTOTAL

NOTES:
TOTAL WATTS L1: 5480
TOTAL WATTS L2: 6201
TOTAL WATTS L3: 5220
TOTAL WATTS: 16901
C.B. TYPE — TOTAL AMPS @ 100%: 47 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 59 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 10800 WATTS

PANELBOARD: P2N1D4

BUS SIZE: 250 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: FACS CULINARY LAB D112
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD			CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD			DIRECTORY
	L1	L2	L3					L1	L2	L3	
					1	2	40	3172			UNDERCOUNTER WAREWASHER
SPARE				20	3	4			3172		#217
					5	6	40			3172	UNDERCOUNTER WAREWASHER
RESIDENTIAL WALL OVEN #222	2080			20	7	8		3172			#217
		2080			9	10	40		3162		DROP-IN ELECTRIC RANGE
STACKED DRYER #206			2400	30	11	12				3162	#220
	2400				13	14	20G	1500			COUNTER GFCI RECEP CKT #207
RESIDENTIAL ELECT RANGE		3120		40	15	16	20G		1500		COUNTER GFCI RECEP CKT #207
WITH OVEN #213			3120		17	18	20G			1500	COUNTER GFCI RECEP CKT #211
RESIDENTIAL ELECT RANGE	3120			40	19	20	20G	1500			COUNTER GFCI RECEP CKT #211
WITH OVEN #213		3120			21	22	20G		1500		COUNTER GFCI RECEP CKT #211
RESIDENTIAL ELECT RANGE			3120	40	23	24	20G			1500	COUNTER GFCI RECEP CKT #211
WITH OVEN #213	3120				25	26	20G	1500			COUNTER GFCI RECEP CKT #211
STACKED WASHER #205		1800		20G	27	28	20G		1500		COUNTER GFCI RECEP CKT #211
RES. GAS RANGE WITH OVEN #212			1800	20G	29	30	20G			1500	COUNTER GFCI RECEP CKT #211
RES. GAS RANGE WITH OVEN #212	1800			20G	31	32	20G	1500			COUNTER GFCI RECEP CKT #211
EXHAUST VENT. LIGHTS #214		100		20G	33	34	20G		1500		COUNTER GFCI RECEP CKT #211
EXHAUST VENT. LIGHTS #214			100	20G	35	36	20G			1500	COUNTER GFCI RECEP CKT #211
EXHAUST VENT. LIGHTS #221	200			20G	37	38	20G	1500			COUNTER GFCI RECEP CKT #211
EXHAUST VENT. LIGHTS #224		300		20G	39	40	20G		1500		COUNTER GFCI RECEP CKT #211
EXHAUST VENT. LIGHTS #224			300	20G	41	42	20G			1500	COUNTER GFCI RECEP CKT #218
COUNTER GFCI RECEP CKT #223	1500			20G	43	44	20G	1500			COUNTER GFCI RECEP CKT #218
COUNTER GFCI RECEP CKT #223		1500		20G	45	46	20G		1500		COUNTER GFCI RECEP CKT #218
RECEP - CULINARY D112			720	20	47	48	20G			1500	COUNTER GFCI RECEP CKT #219
IWB RECEP - CULINARY D112	480			20	49	50	20G	1500			COUNTER GFCI RECEP CKT #219
SPARE				20G	51	52	15G				SPARE
SPARE				20G	53	54	15G				SPARE
SUBTOTAL	14700	12020	11560					16844	15334	15334	SUBTOTAL

NOTES:
TOTAL WATTS L1: 31544
TOTAL WATTS L2: 27354
TOTAL WATTS L3: 26894
TOTAL WATTS: 85792
C.B. TYPE — TOTAL AMPS @ 100%: 238 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 298 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 720 WATTS

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE CHRISTOPHER M. SHUMWAY No. 10820 LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

CONTENT: PANELBOARD SCHEDULES

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.13

Project Phase
BID DOCUMENTS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

C:\Users\cm906\Desktop\DRAWINGS\REVIT MEP\7300 (2016 FORMAT)\7300 Central Elect 2016.rvt
3/4/2016 9:32:36 AM

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

PANELBOARD: L4N2D1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D247
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 18000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
LTG - MARKETING & MANG D245	2587			20	1	2	20	3265			LTG - CONFERENCE/INST D249
LTG - BUI & MNG 2ND LEVEL D220		814		20	3	4	20		1875		LTG - BIO-SCIENCE LAB D233
LTG - CLASSROOM D217			2472	20	5	6	20			2754	LTG - CLASSROOM D230
LTG - BUI & MNG 2ND LEVEL D220	410			20	7	8	20	1440			LTG - OFFICE D211
SPARE				20	9	10	20		1272		LTG - OFFICE A211E
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SUBTOTAL	2997	814	2472					4705	3147	2754	SUBTOTAL

NOTES:
TOTAL WATTS L1: 7702
TOTAL WATTS L2: 3961
TOTAL WATTS L3: 5226
TOTAL WATTS: 16889
C.B. TYPE — TOTAL AMPS @ 100%: 20 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 25 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: D2N2D1

BUS SIZE: 400 AMPS — MAIN: 400 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D247
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	6888				1	2		3784			
PANEL P2N2D1		7680		125	3	4	125		5584		PANEL P2N2D2
			7995		5	6				4140	
	10440				7	8		11060			
PANEL P2N2D3		9420		125	9	10	125		11580		PANEL P2N2D4
			9720		11	12				9420	
					13	14					
SPARE				20	15	16	20				SPARE
					17	18					
UNIT ACC-1	1664			20	19	20	20	1664			UNIT ACC-11
		1664			21	22			1664		
UNIT ACC-12			1664	20	23	24	20			1664	UNIT ACC-13
	1664				25	26		1664			
FAN KEF-4		1373		25	27	28	20		1664		UNIT ACC-18
			1373		29	30				1664	
SPARE				20	31	32	20	696			FAN EF-D132
					33	34	20		696		FAN EF-D129
FAN EF-247			528	20	35	36	20			1176	FAN KEF-5
FAN DEF-2	1176			20	37	38	20	528			FAN EF-D146
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	21832	20137	21280					19396	21188	18064	SUBTOTAL

NOTES:
TOTAL WATTS L1: 41228
TOTAL WATTS L2: 41325
TOTAL WATTS L3: 39344
TOTAL WATTS: 121897
C.B. TYPE — TOTAL AMPS @ 100%: 339 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 423 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N2D1

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC D247
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
UNITS AC2-1, 2, 3, 4 & 5				20	1	2	20				SPARE
					3	4					
LTG - GUID RECEPTION A210A - P5			75	20	5	6	20			720	RECEP - OFFICE D241
FLOOR BOX B1/LCD - INSTR D249	660			20	7	8	20	360			QUAD RECEP - OFFICE D241
RECEP - CONF INSTRUCT D249		540		20	9	10	20		300		IWB RECEP - EARTH CLASS E237
RECEP - CONF INSTRUCT D249			540	20	11	12	20			540	RECEP - EARTH CLASSROOM E237
IWB RECEP - MARKETING D245	300			20	13	14	20	720			RECEP - EARTH CLASSROOM E237
FLOOR BOX B2 - MARKETING D245		360		20	15	16	20		360		RECEP - EARTH CLASSROOM E237
LCD (3) - MARKETING D245			900	20	17	18	20			360	CNTR RECEP - EARTH CLASS E237
LCD (3) - MARKETING D245	900			20	19	20	20	300			IWB RECEP - BUSINESS D243
RECEP - MARKETING D245		720		20	21	22	20		900		LCD (3) - BUSINESS D243
RECEP - MARKETING D245			720	20	23	24	20			600	LCD (2) - BUSINESS D243
RECEP DESK - MARKETING D245	540			20	25	26	20	720			RECEP - BUSINESS D243
RECEP DESK - MARKETING D245		540		20	27	28	20		720		RECEP - BUSINESS D243
RECEP DESK - MARKETING D245			540	20	29	30	20			540	RECEP DESK - BUSINESS D243
RECEP DESK - MARKETING D245	540			20	31	32	20	540			RECEP DESK - BUSINESS D243
RECEP DESK - MARKETING D245		540		20	33	34	20		540		RECEP DESK - BUSINESS D243
RECEP DESK - MARKETING D245			540	20	35	36	20			540	RECEP DESK - BUSINESS D243
FAN EF-A237	528			20	37	38	20	540			RECEP DESK - BUSINESS D243
FAN KEF-6		1920		30	39	40	20		540		RECEP DESK - BUSINESS D243
FANS EF-A131 & EF-D220			840	20	41	42	20			540	RECEP DESK - BUSINESS D243
LCD (2) - BUSINESS D243	600			20	43	44	20	540			RECEP DESK - BUSINESS D243
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	4068	4620	4155					3720	3360	3840	SUBTOTAL

NOTES:
TOTAL WATTS L1: 7788
TOTAL WATTS L2: 7980
TOTAL WATTS L3: 7995
TOTAL WATTS: 23763
C.B. TYPE — TOTAL AMPS @ 100%: 66 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 83 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 14580 WATTS

PANELBOARD: P2N2D2

BUS SIZE: 125 AMPS — MAIN: 125 AMP MCB (SHUNT-TRIP)
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: BIO SCIENCE LAB D219
ISOLATED GND BUS: NO — MOUNTING: RECESSED
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
UNITS AC2-1, 2, 3, 4 & 5	144			20	1	2	20	300			IWB RECEP - LAB D233
		144			3	4	20		720		RECEP - DESK LAB D233
CNTR QUAD RECEP - LAB D219			360	20	5	6	20			360	GOGGLE SAN. RECEP - LAB D233
GOGGLE SAN. RECEP - LAB D219	360			20	7	8	20	360			RECEP - LAB D233
COUNTER RECEP - LAB D219		360		20	9	10	20		360		COUNTER RECEP - LAB D233
COUNTER RECEP - LAB D219			360	20	11	12	20			360	COUNTER RECEP - LAB D233
COUNTER RECEP - LAB D219	360			20	13	14	20	360			COUNTER RECEP - LAB D233
COUNTER RECEP - LAB D219		360		20	15	16	20		360		CNTR QUAD RECEP - LAB D233
CNTR QUAD RECEP - LAB D219			360	20	17	18	20			360	CNTR QUAD RECEP - LAB D233
CNTR QUAD RECEP - LAB D219	360			20	19	20	20	360			CNTR QUAD RECEP - LAB D233
CNTR QUAD RECEP - LAB D219		360		20	21	22	20		360		CNTR QUAD RECEP - LAB D233
CNTR QUAD RECEP - LAB D219			360	20	23	24	20			360	CNTR QUAD RECEP - LAB D233
CNTR QUAD RECEP - LAB D219	360			20	25	26	20	360			CNTR QUAD RECEP - LAB D233
IWB RECEP - LAB D219		300		20	27	28	20G		1500		REFRIGERATOR - PREP RM D227
RECEP - DESK LAB D219			540	20	29	30	20			360	COUNTER RECEP - PREP D227
SHUNT-TRIP POWER	100			20	31	32	20	360			COUNTER RECEP - PREP D227
JUNCTION - DAMPERS - D220		400		20	33	34	20		360		COUNTER RECEP - PREP D227
SPARE				20	35	36	20			360	COUNTER RECEP - PREP D227
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	1684	1924	1980					2100	3660	2160	SUBTOTAL

NOTES:
TOTAL WATTS L1: 3784
TOTAL WATTS L2: 5584
TOTAL WATTS L3: 4140
TOTAL WATTS: 13508
C.B. TYPE — TOTAL AMPS @ 100%: 38 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 47 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 10620 WATTS

PANELBOARD: M4N1A1

BUS SIZE: 400 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: CUSTODIAL F116
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 35000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	26937				1	2		21447			
UNIT DHU-10		26937		110	3	4	100		21447		UNIT DHU-11
			26937		5	6				21447	
	17866				7	8		29506			
UNIT AHU-2		17866		80	9	10	125		29506		UNIT AHU-9
			17866		11	12				29506	
					13	14					
SPARE				20	15	16	20				SPARE
					17	18					
					19	20	20				SPARE
SPARE				20	21	22	20				SPARE
					23	24	20				SPARE
SUBTOTAL	44803	44803	44803					50953	50953	50953	SUBTOTAL

NOTES:
TOTAL WATTS L1: 95756
TOTAL WATTS L2: 95756
TOTAL WATTS L3: 95756
TOTAL WATTS: 287268
C.B. TYPE — TOTAL AMPS @ 100%: 346 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 432 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: D4NFF1

BUS SIZE: 800 AMPS — MAIN: 800 AMP MCB ELECTRONIC TRIP
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: YES — LOCATION: STADIUM ELECTRIC ROOM
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 35000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	50563				1	2					
PANEL P4NFF1		48888		400ET	3	4	400ET				SPARE
			50278		5	6					
					7	8					
SPARE				225ET	9	10	225ET				SPARE
					11	12					
					13	14					
SPARE				150ET	15	16	125				SPARE
					17	18					
					19	20					
SPARE				125	21	22	125				SPARE
					23	24					
					25	26					
SPARE				100	27	28	100				SPARE
					29	30					
SUBTOTAL	50563	48888	50278					0	0	0	SUBTOTAL

NOTES:
TOTAL WATTS L1: 50563
TOTAL WATTS L2: 48888
TOTAL WATTS L3: 50278
TOTAL WATTS: 149729
C.B. TYPE — TOTAL AMPS @ 100%: 180 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 225 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P4NFF1

BUS SIZE: 400 AMPS — MAIN: MLO
VOLTAGE: 480 Y/277V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: YES — LOCATION: STADIUM ELECTRIC ROOM
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 35000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	9228				1	2		9228			
POLE F1 - CONTACTOR C1		9228		40	3	4	40		9228		POLE F2 - CONTACTOR C2
GAME LIGHTS			9228		5	6				9228	GAME LIGHTS
	9228				7	8		9228			
POLE F3 - CONTACTOR C3		9228		40	9	10	40		9228		POLE F4 - CONTACTOR C4
GAME LIGHTS			9228		11	12				9228	GAME LIGHTS
	2051				13	14		2051			
POLE F1 - CONTACTOR C5		2051		20	15	16	20		2051		POLE F2 - CONTACTOR C6
WALKING TRACK			2051		17	18				2051	WALKING TRACK
	2051				19	20		2051			
POLE F3 - CONTACTOR C7		2051		20	21	22	20		2051		POLE F4 - CONTACTOR C8
WALKING TRACK			2051		23	24				2051	WALKING TRACK
					25	26		4630			
SPARE				30	27	28	150ET		3500		PANEL P2NFF1
					29	30				3500	VIA TRANSFORMER TFF
					31	32	20	477			SITE LIGHTING CKT #10
SPARE				20	33	34	20		272		SITE LIGHTING CKT #11
					35	36	20			1662	SITE LIGHTING CKT #12
					37	38	20	340			SITE LIGHTING CKT #13
SPARE				20	39	40	20				SPARE
					41	42	20				SPARE
SUBTOTAL	22558	22558	22558					28005	26330	27720	SUBTOTAL

NOTES:
TOTAL WATTS L1: 50563
TOTAL WATTS L2: 48888
TOTAL WATTS L3: 50278
TOTAL WATTS: 149729
C.B. TYPE — TOTAL AMPS @ 100%: 180 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 225 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2NFF1

BUS SIZE: 250 AMPS — MAIN: 250 AMP MCB ELECTRONIC TRIP
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: STADIUM ELECTRIC ROOM
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
	3500				1	2					
PRESS BOX PANEL		3500		100	3	4	100				SPARE
			3500		5	6					
3 MUSCO CONTROL POWER	1000			20	7	8	20	130			LTG - ROOM
SITE - BLUE LIGHT PHONE (2)		600 (3)		20	9	10	20				SPARE
SPARE				20	11	12	20				SPARE
SPARE				20	13	14	20				SPARE
SPARE				20	15	16	20				SPARE
SPARE				20	17	18	20				SPARE
SPARE				20	19	20	20				SPARE
SPARE				20	21	22	20				SPARE
SPARE				20	23	24	20				SPARE
SPARE				20	25	26	20				SPARE
SPARE				20	27	28	20				SPARE
SPARE				20	29	30	20				SPARE
SPARE				20	31	32	20				SPARE
SPARE				20	33	34	20				SPARE
SPARE				20	35	36	20				SPARE
SPARE				20	37	38	20				SPARE
SPARE				20	39	40	20				SPARE
SPARE				20	41	42	20				SPARE
SUBTOTAL	4500	4100	3500					130	0	0	SUBTOTAL

NOTES:
TOTAL WATTS L1: 4630
TOTAL WATTS L2: 4100
TOTAL WATTS L3: 3500
TOTAL WATTS: 12230
C.B. TYPE — TOTAL AMPS @ 100%: 34 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 42 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 0 WATTS

PANELBOARD: P2N1B4

BUS SIZE: 125 AMPS — MAIN: MLO
VOLTAGE: 208 Y/120V 3PH,4W — NEUTRAL: 100%
SERVICE RATED: NO — LOCATION: ELEC A193
ISOLATED GND BUS: NO — MOUNTING: SURFACE
SHORT CIR. CURRENT RATING 22000 AMPS — TVSS: NO

DIRECTORY	WATTS OF LOAD L1	L2	L3	CKT BKR AMPS	POLES		CKT BKR AMPS	WATTS OF LOAD L1	L2	L3	DIRECTORY
RECEP - TOILET B124	360			20	1	2	20	540			RECEP - OFFICE B130
RECEP - BAND STORAGE B142A		720		20	3	4	20		540		RECEP - OFFICE B130
RECEP - BAND STORAGE B142A			720	20	5	6	20			720	RECEP - LG PRACTICE B140A
RECEP - GREEN ROOM B128	720			20	7	8	20	540			RECEP - SM PRACTICE B140B
LCD - GREEN ROOM B128		300		20	9	10	20		540		RECEP - SM PRACTICE B140C
IWB RECEP - BAND B142			300	20	11	12	20			540	RECEP - SM PRACTICE B140D
RECEP - BAND B142	540			20	13	14	20	720			RECEP - SM PRACTICE B140E
RECEP - BAND B142		540		20	15	16	20		540		RECEP - MUSIC OFFICE B144A
RECEP - BAND B142			720	20	17	18	20			360	QUAD RECEP - MUSIC OFF. B144A
AV QUAD RECEP - BAND B142	360			20	19	20	20	360			QUAD RECEP - MUSIC OFF. B144A
LCD - BAND B142		300		20	21	22	20		1200		PRINTER - MUSIC OFF. B144A
IWB RECEP - CHORUS B144			300	20	23	24	20			300	IWB RECEP - MIDI LAB B146
RECEP - CHORUS B144	540			20	25	26	20	540			RECEP - MIDI LAB B146
RECEP - CHORUS B144		540		20	27	28	20		540		RECEP - MIDI LAB B146
RECEP - CHORUS B144			540	20	29	30	20			360	AV QUAD RECEP - MIDI LAB B146
AV QUAD RECEP - CHORUS B144	360			20	31	32	20	540			RECEP DESK - MIDI LAB B146
LCD - CHORUS B144		300		20	33	34	20		540		RECEP DESK - MIDI LAB B146
SPARE				20	35	36	20			540	RECEP DESK - MIDI LAB B146
SPARE				20	37	38	20	540			RECEP DESK - MIDI LAB B146
SPARE				20	39	40	20		360		RECEP DESK - MIDI LAB B146
SPARE				20	41	42	20			360	RECEP DESK - MIDI LAB B146
SPARE				20	43	44	20				SPARE
SPARE				20	45	46	20				SPARE
SPARE				20	47	48	20				SPARE
SPARE				20	49	50	20				SPARE
SPARE				20	51	52	20				SPARE
SPARE				20	53	54	20				SPARE
SUBTOTAL	2880	2700	2580					3780	4260	3180	SUBTOTAL

NOTES:
TOTAL WATTS L1: 6660
TOTAL WATTS L2: 6960
TOTAL WATTS L3: 5760
TOTAL WATTS: 19380
C.B. TYPE — TOTAL AMPS @ 100%: 54 AMPS
S=SHUNT TRIP G=GFCI — TOTAL AMPS @ 125%: 67 AMPS
L=LOCK ON C.B. H=HACR C.B.
AF=ARC FAULT — TOTAL PANEL RECPT LOAD = 15300 WATTS

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE CHRISTOPHER M. SHUMWAY No. 10820 LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

CONTENT:
PANELBOARD SCHEDULES

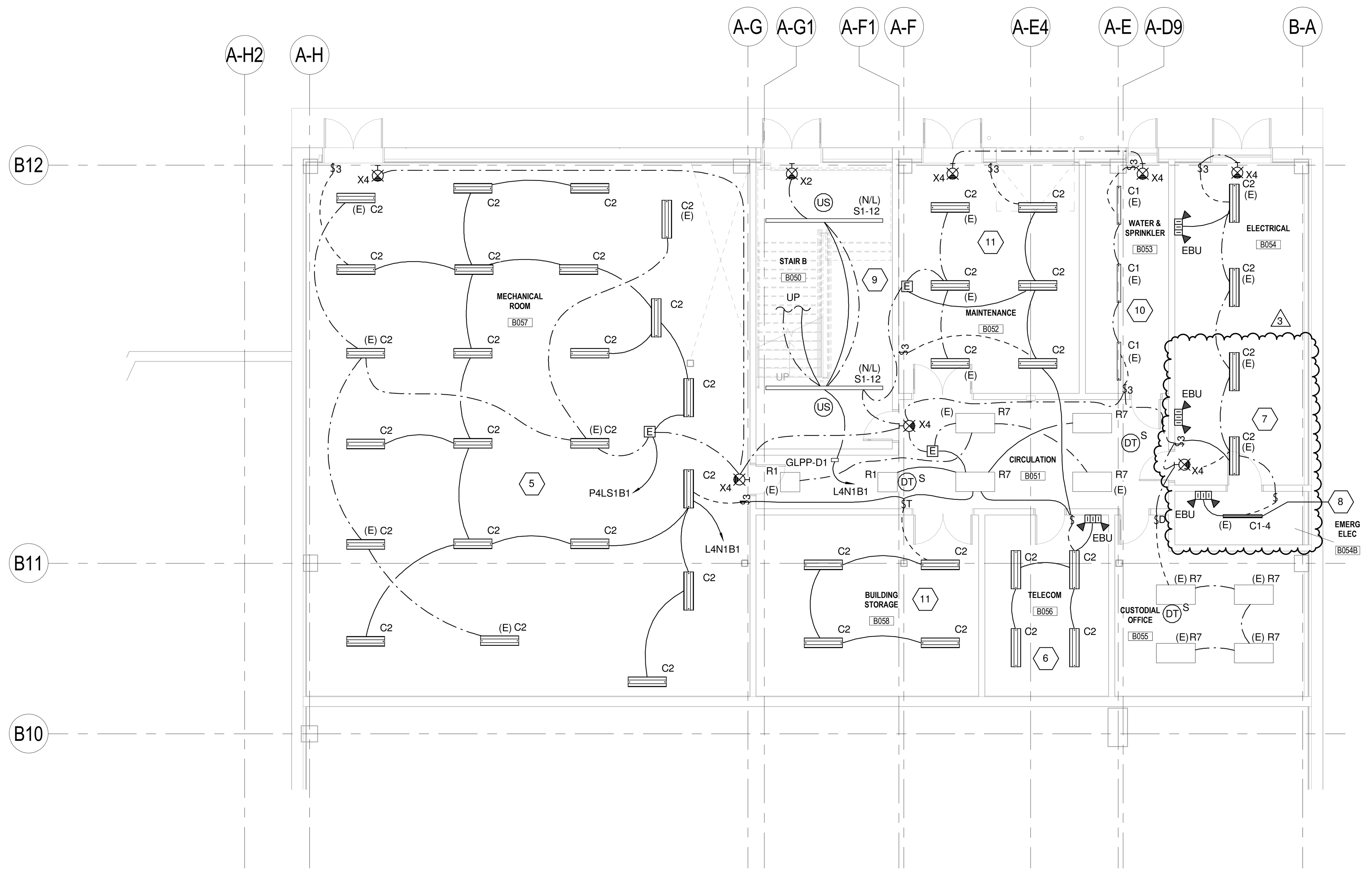
DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: NO SCALE

E0.15

Project Phase
BID DOCUMENTS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

3/4/2016 12:02:27 PM



1 BASEMENT - LIGHTING PLAN
1/8" = 1'-0"

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 WIRE EXIT SIGNS AND EMERGENCY WALL PACKS AHEAD OF ALL SWITCHING.

4 REFER TO LIGHTING CONTROL DETAILS AND DIAGRAMS ON SHEETS E4.02, E4.03, E4.04, AND E4.05.

5 COORDINATE MOUNTING OF FIXTURE TYPE "C1-#" AND "C2-#" IN MECHANICAL ROOMS, ELECTRIC ROOM AND STORAGE ROOMS WITH MECHANICAL DUCTWORK AND PIPING PRIOR TO INSTALLATION. FIXTURES SHALL BE SURFACE OF CHAIN HUNG AS HIGH AS POSSIBLE WHILE MAINTAINING AN UNOBSTRUCTED PATH OF ILLUMINATION TO THE FLOOR.

6 COORDINATE MOUNTING OF FIXTURE TYPE "C2" IN TELECOMMUNICATIONS ROOM WITH TELECOMMUNICATIONS EQUIPMENT AND CABLETRAY LAYOUT PRIOR TO INSTALLATION OF ANY CABLE OR CONDUIT. FIXTURES ARE TO BE MOUNTED AT 8'-2" AFF (U.O.N). REFER TO TELECOM DRAWING T1.31.

7 COORDINATE MOUNTING OF FIXTURE TYPE "C2" IN MAIN ELECTRICAL ROOM WITH ELECTRICAL DISTRIBUTION GEAR AND EQUIPMENT PRIOR TO INSTALLATION OF ANY CABLE OR CONDUIT. FIXTURES ARE TO BE MOUNTED AT 8'-2"AFF (U.O.N). REFER TO ELECTRICAL POWER DRAWING E2.41.

8 WALL MOUNT FIXTURE JUST ABOVE DOOR OPENING.

9 REFER TO TYPICAL STAIRWELL LIGHTING WIRING DIAGRAM ON DRAWING E4.03.

10 COORDINATE MOUNTING OF TYPE "C1" FIXTURES IN WATER SERVICE ROOM WITH PLUMING AND FIRE PROTECTION EQUIPMENT AND PIPING PRIOR TO INSTALLATION OF ANY CABLE OR CONDUIT. FIXTURES ARE TO BE SURFACE MOUNTED TO THE BOTTOM OF THE WIDE FLANGE BEAM AT APPROXIMATELY 7'-10"AFF. REFER TO PLUMBING DRAWING P1.09 AND FIRE PROTECTION DRAWING FP1.09.

11 FIXTURES ARE TO BE MOUNTED AT 8'-8"AFF (U.O.N).

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

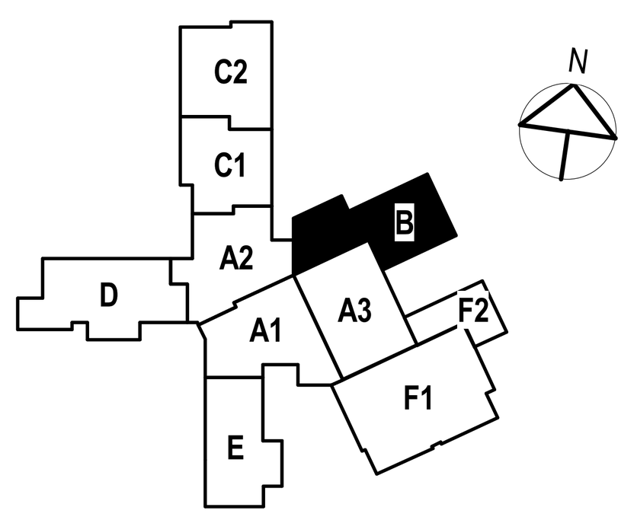
STATE OF MAINE CHRISTOPHER M. SHUMWAY No. 10820 LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04



CONTENT:
BASEMENT LIGHTING PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

E1.09

Project Phase
BID DOCUMENTS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

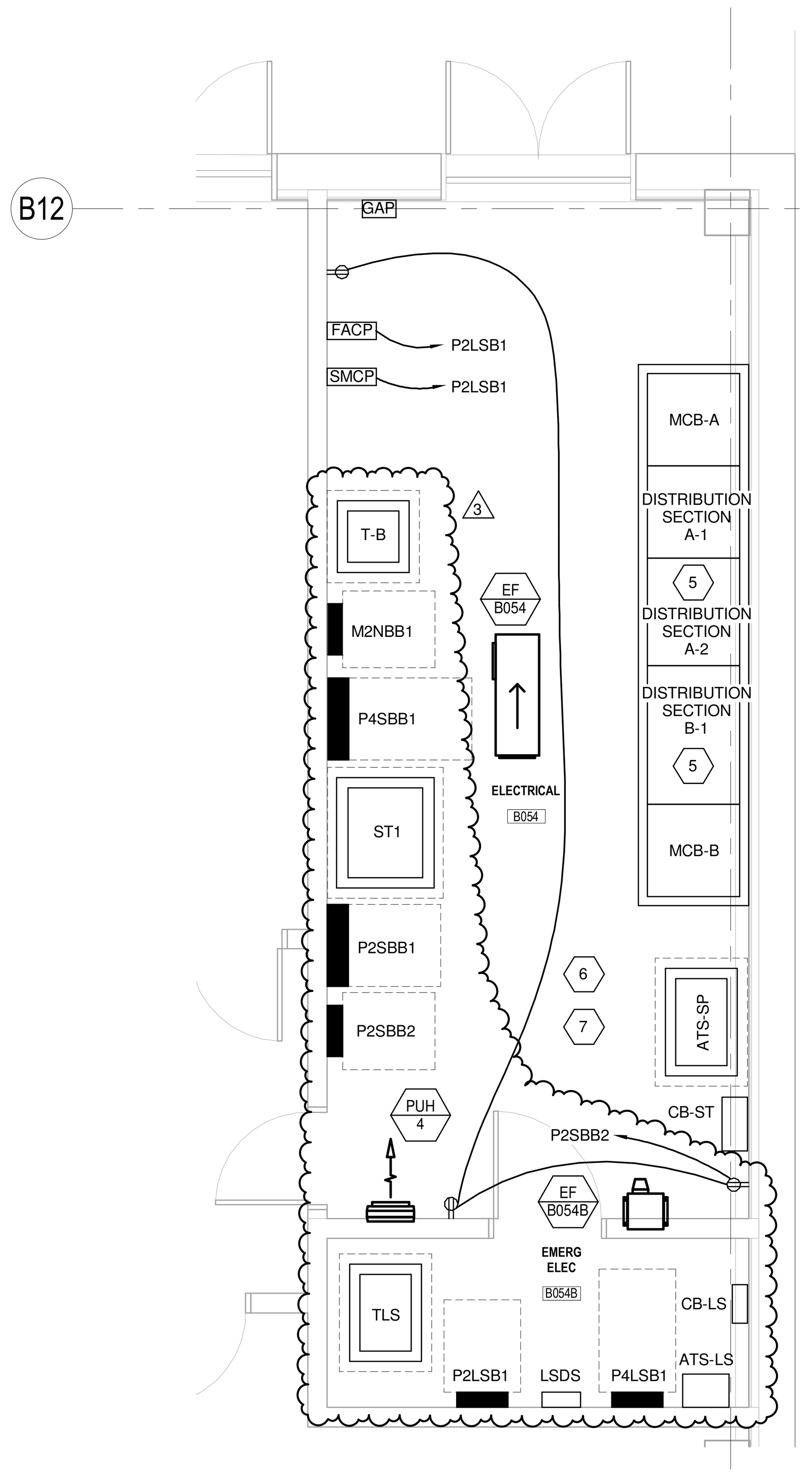
3 FOR TYPICAL ELEVATOR/FIRE ALARM CONTROL WIRING DIAGRAM, REFER TO DRAWING FA2.01.

4 CONTRACTOR SHALL COORDINATE ALL EQUIPMENT SHOWN IN THESE ELECTRIC ROOMS PRIOR TO THE START OF ANY WORK. ANY EQUIPMENT (INSTALLED PRIOR TO FULL COORDINATION) THAT NEEDS TO BE REWORKED OR RELOCATED SHALL BE DONE AT NO COST TO THE OWNER.

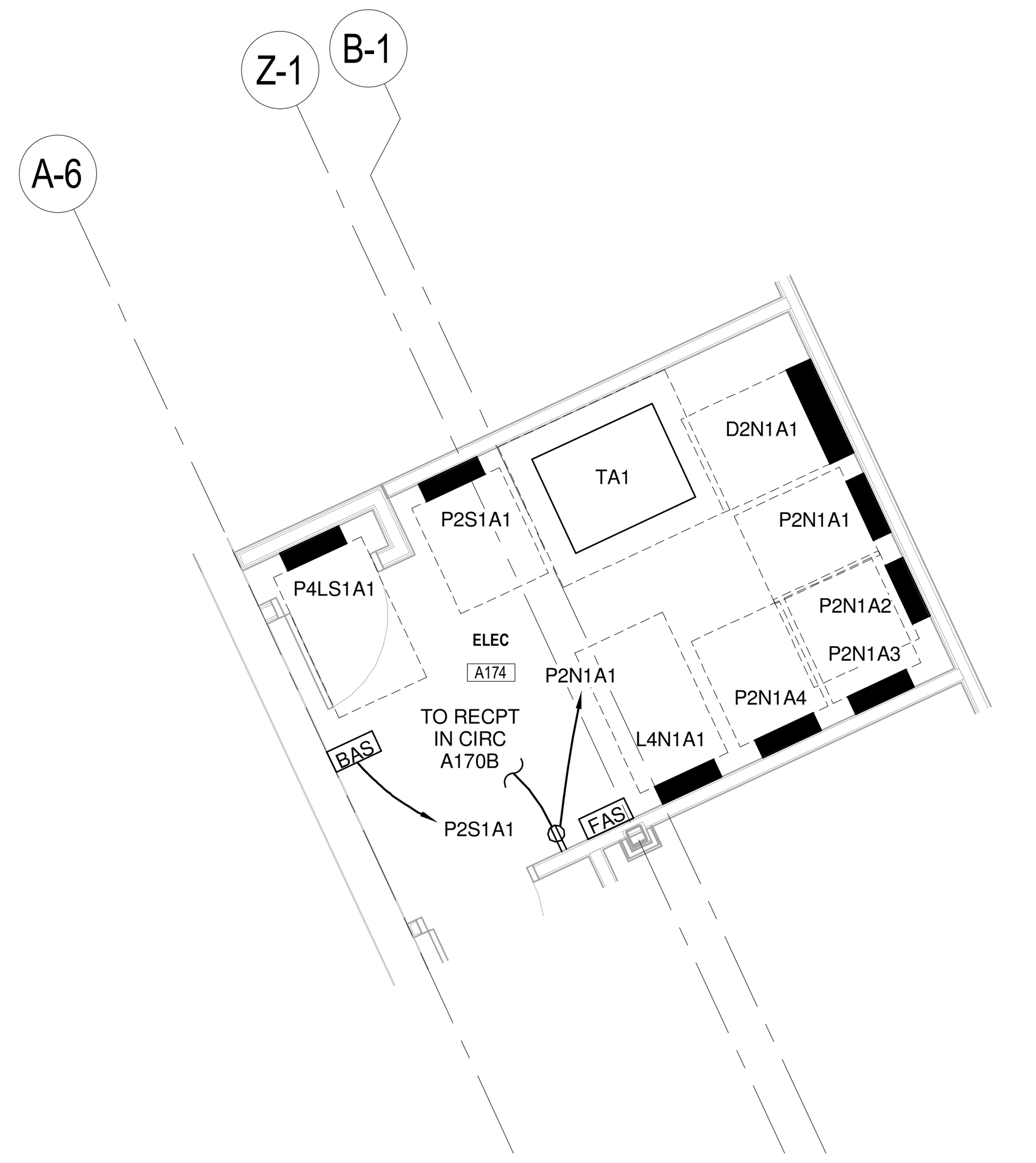
5 CONTRACTOR SHALL PROVIDE TWO (2) 3" SPARE CONDUITS AND THREE (3) 4" SPARE CONDUITS IN THE FLOOR SLAB BELOW EACH OF THE TWO MAIN SWITCHBOARDS (MSB-A, B), AND EXTEND THEM OVER AND UP INSIDE THE CONDUIT WALL CHASE(S) (ADJACENT TO THE STAIRS) TO A POINT IN THE CORRIDOR CEILING ON THE FIRST FLOOR. CONDUITS SHALL BE CAPPED AND TAGGED IDENTIFYING THEM, AND WHERE THEY ORIGINATE. FOR CONDUIT CHASE LOCATION, REFER TO DRAWING E2.13.

6 ALL CONDUITS TO EQUIPMENT IN THESE ROOMS (B054 AND B054B) SHALL ENTER UP THROUGH THE FLOOR SLAB AND INTO THE ENCLOSURES. ALL OUTGOING CONDUITS EXITING THE ROOM TO THE SITE SHALL BE CORED AND HAVE LINK-SEALS TO PREVENT LEAKAGE.

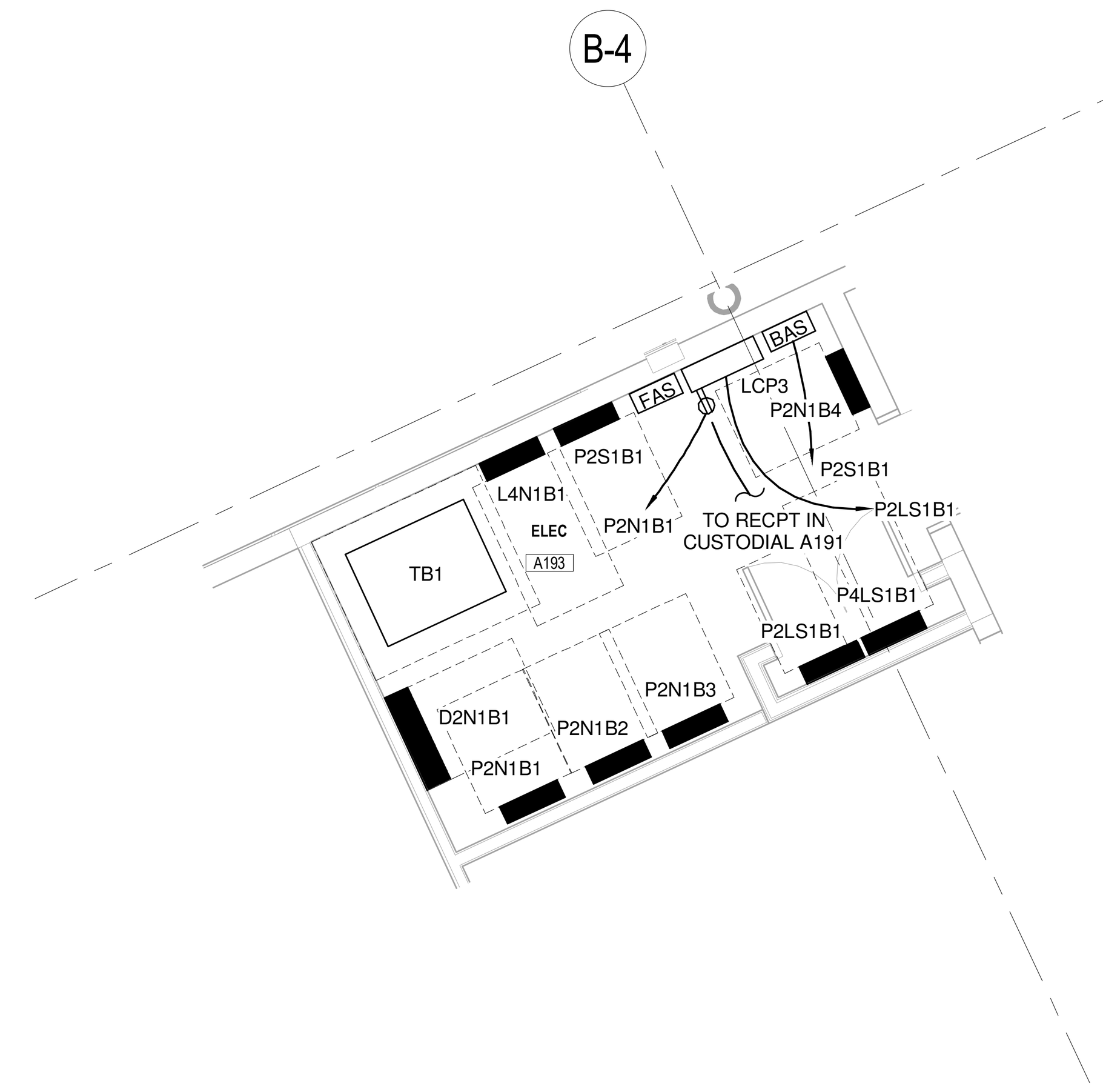
7 ALL FLOOR MOUNTED EQUIPMENT IN THESE ROOMS SHALL BE MOUNTED ON 4" HIGH CONCRETE HOUSEKEEPING PADS (AS INDICATED).



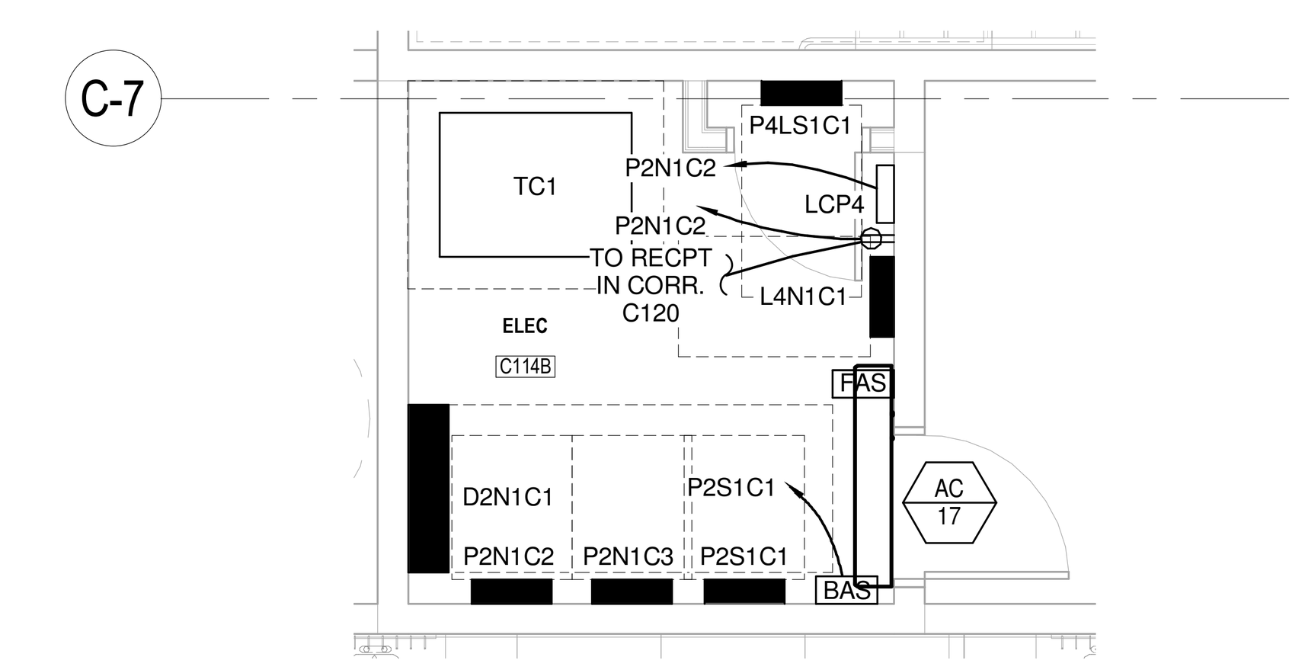
1 BASEMENT - ENLARGED ELECTRICAL B054 POWER PART PLAN - AREA B
1/4" = 1'-0"



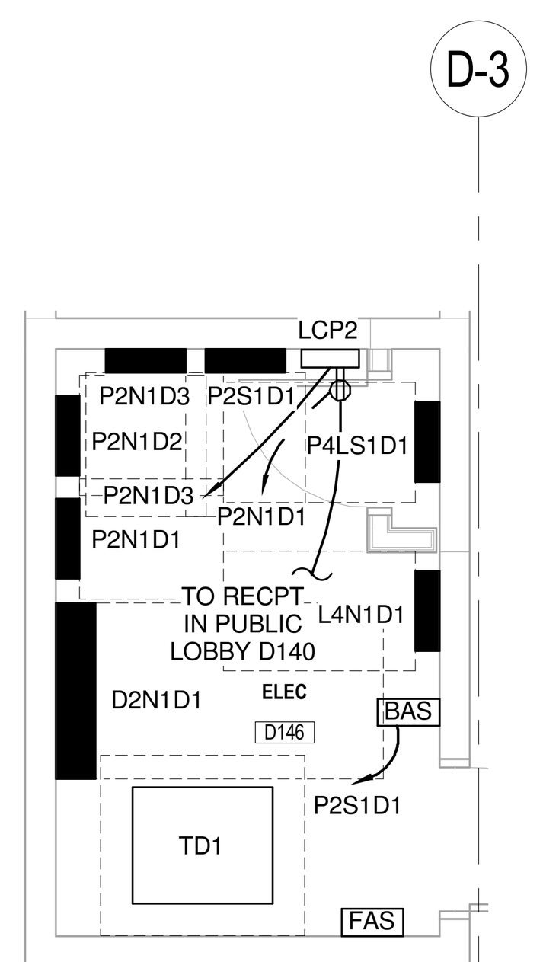
2 LEVEL 1 - ENLARGED ELEC A174 POWER PART PLAN - AREA A3
1/4" = 1'-0"



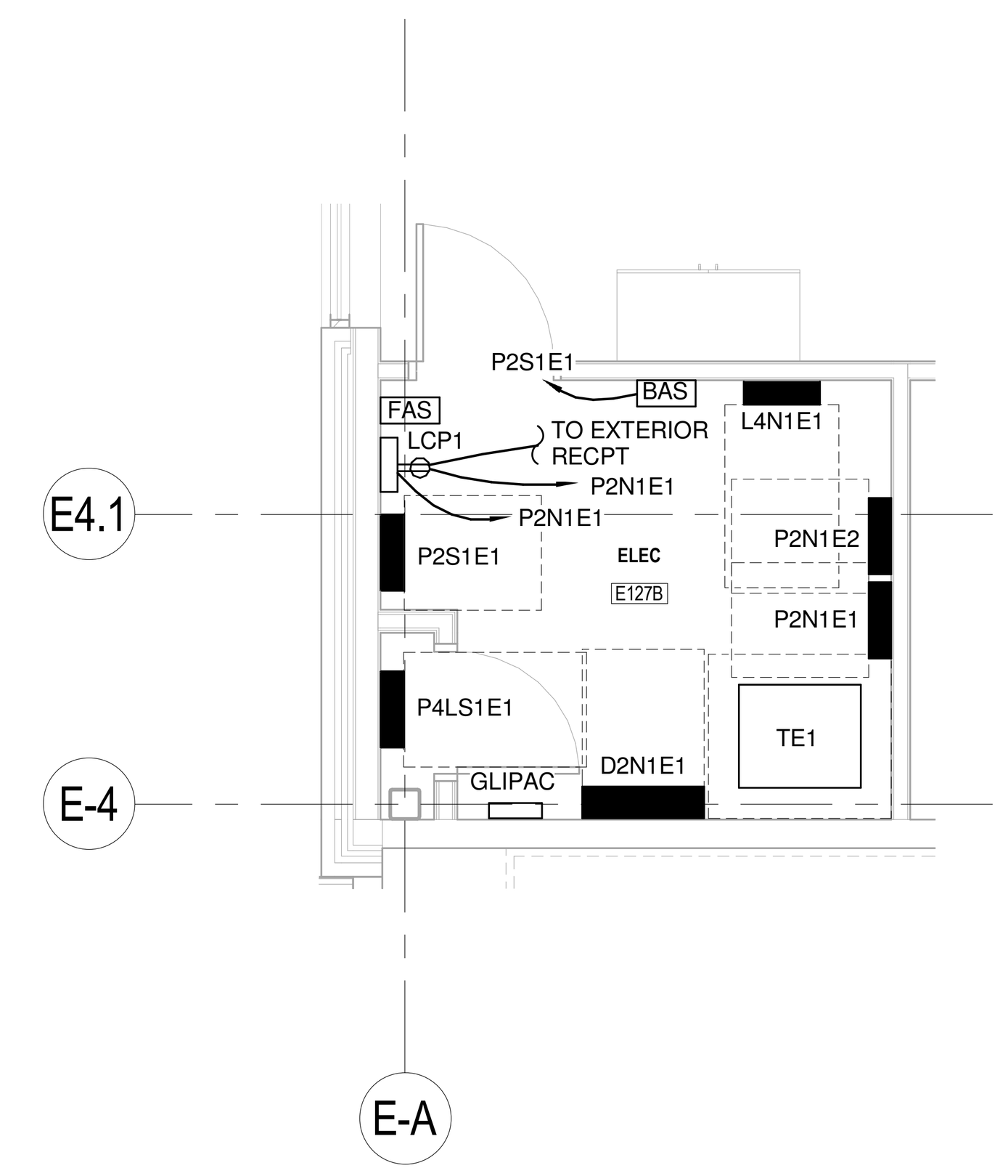
3 LEVEL 1 - ENLARGED ELEC A193 POWER PART PLAN - AREA A3
1/4" = 1'-0"



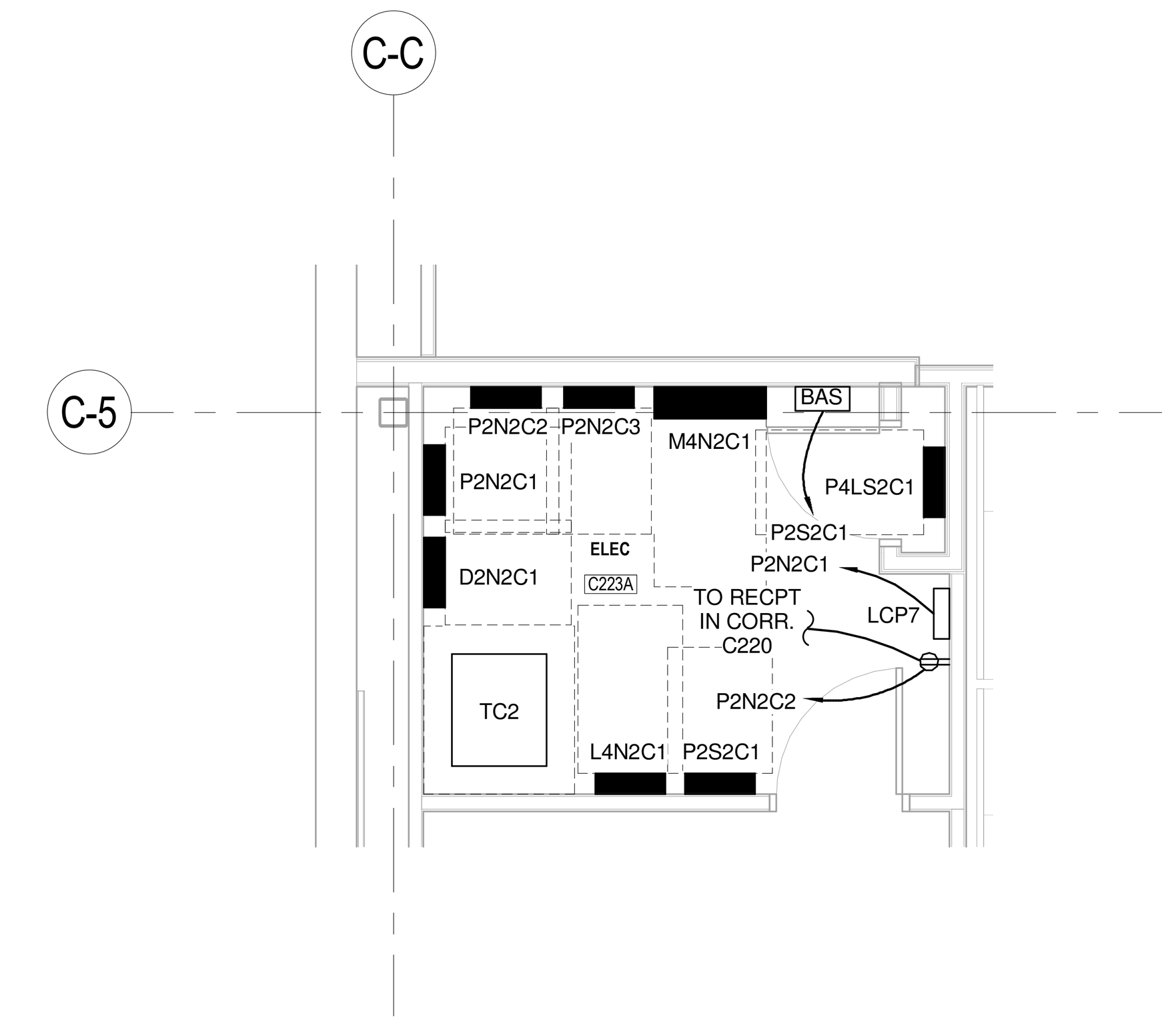
4 LEVEL 1 - ENLARGED ELEC C114B POWER PART PLAN - AREA C1
1/4" = 1'-0"



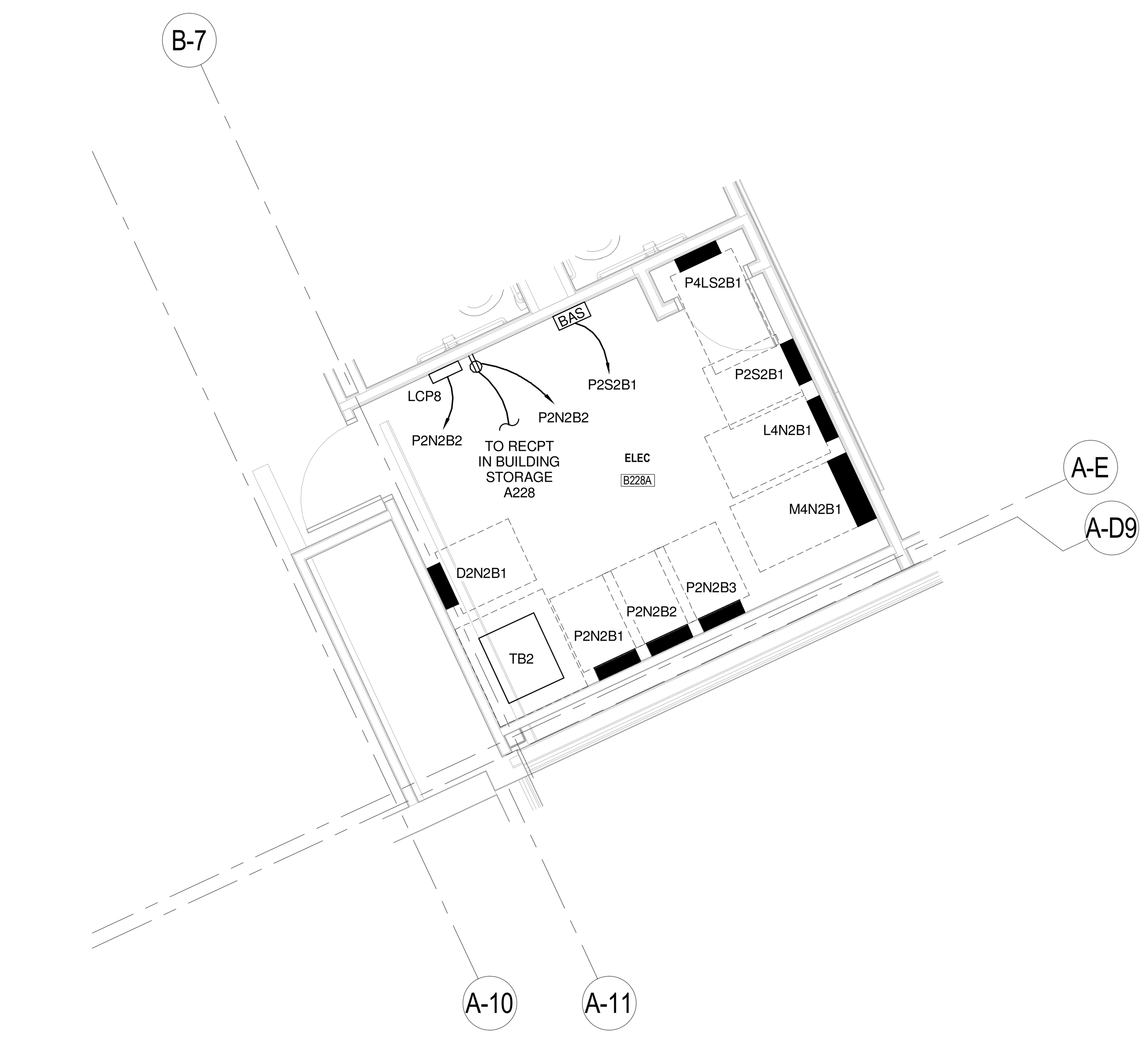
5 LEVEL 1 - ENLARGED ELEC D146 POWER PART PLAN - AREA D
1/4" = 1'-0"



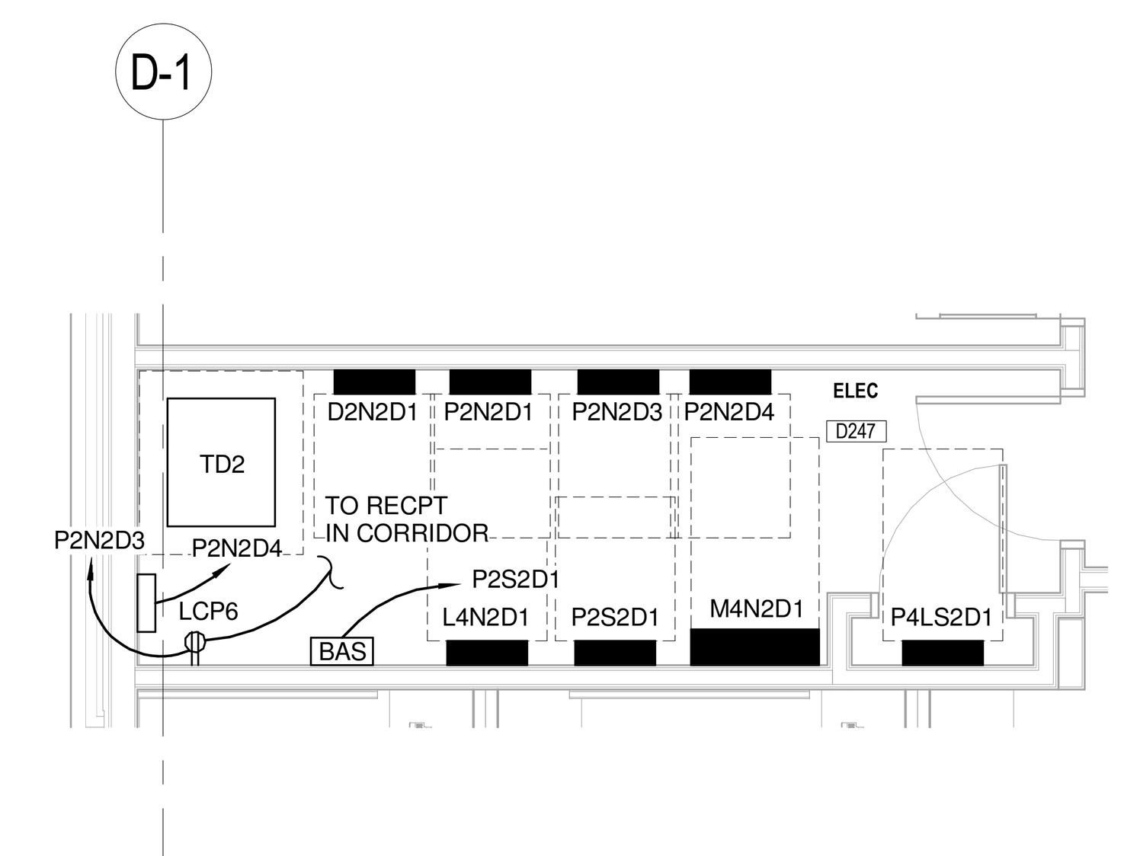
6 LEVEL 1 - ENLARGED ELEC E127B POWER PART PLAN - AREA E
1/4" = 1'-0"



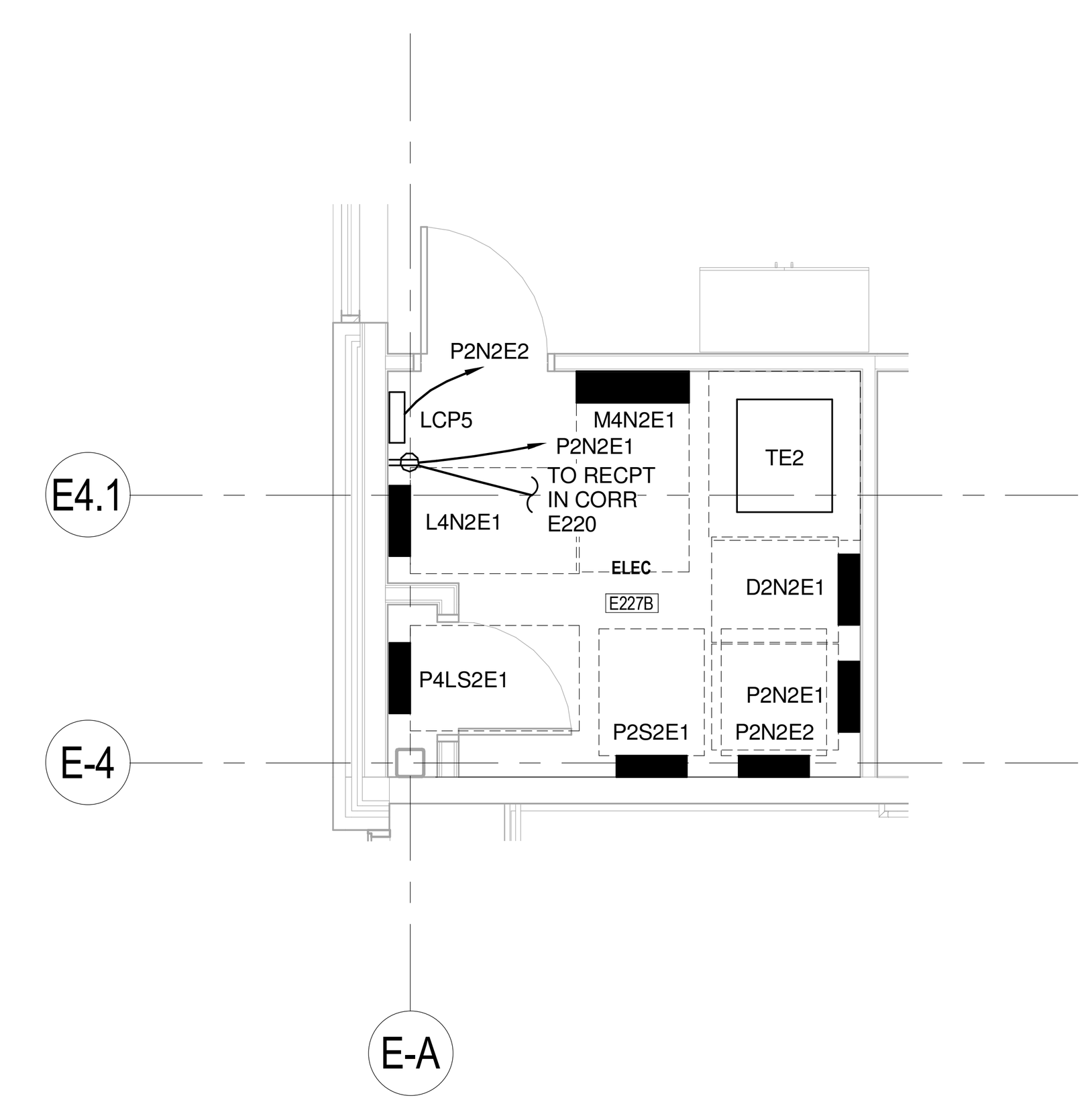
7 LEVEL 2 - ENLARGED ELEC C223A POWER PART PLAN - AREA C1
1/4" = 1'-0"



8 LEVEL 2 - ENLARGED ELEC B228A POWER PART PLAN - AREA B
1/4" = 1'-0"



9 LEVEL 2 - ENLARGED ELEC D247 POWER PART PLAN - AREA D
1/4" = 1'-0"



10 LEVEL 2 - ENLARGED ELEC E227B POWER PART PLAN - AREA E
1/4" = 1'-0"

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland

155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450

305 Commercial Street, Portland, ME 04101
207.558.7200

www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

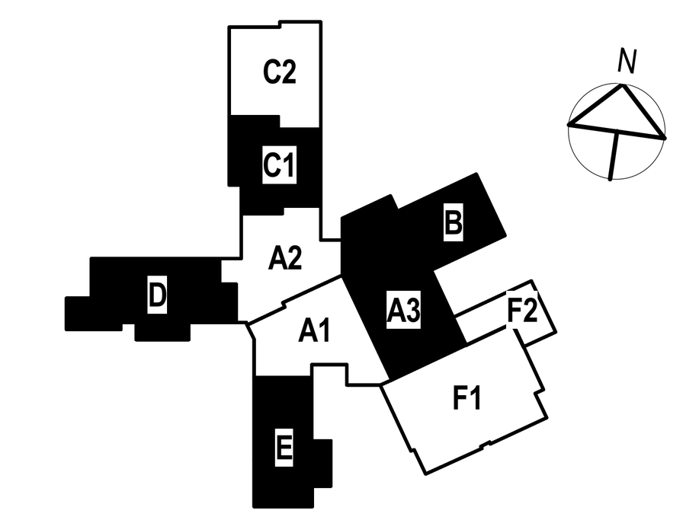
STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04



FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:

ENLARGED POWER PART PLANS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/4" = 1'-0"

E2.41

Project Phase

BID DOCUMENTS

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 A: REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 TYPE G1 SIGNAGE FIXTURES AND WIRING ARE TO BE REMOVED UNDER ALTERNATE #15. UNDER BASE BID, PROVIDE DIRECT BURY POLE AND BASE (SEE F1/G1 FIXTURE DIRECT BURIAL POLE MOUNTING DETAIL ON DRAWING ES2.04), FIXTURES, CONDUIT, AND CIRCUITING AS INDICATED. UNDER ALTERNATE #15, PROVIDE DIRECT BURY POLE AND BASE, AND CAPPED CONDUITS WITH PULL STRINGS FOR FUTURE USE.

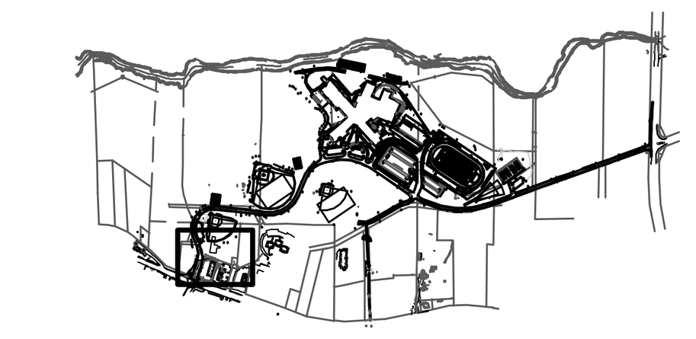
4 PROVIDE ONE SPARE $1\frac{1}{2}$" PVC CONDUIT (WITH PULL ROPE) FROM ELECTRIC ROOM E127B ALONG WITH SITE LIGHTING CIRCUIT #5 OUT TO HANDHOLE AT THE SCHOOL MAIN ENTRANCE (AT ROUTE 109) FOR FUTURE USE BY OTHERS.

1 ELECTRICAL SITE PLAN
1" = 20'-0"

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER



Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

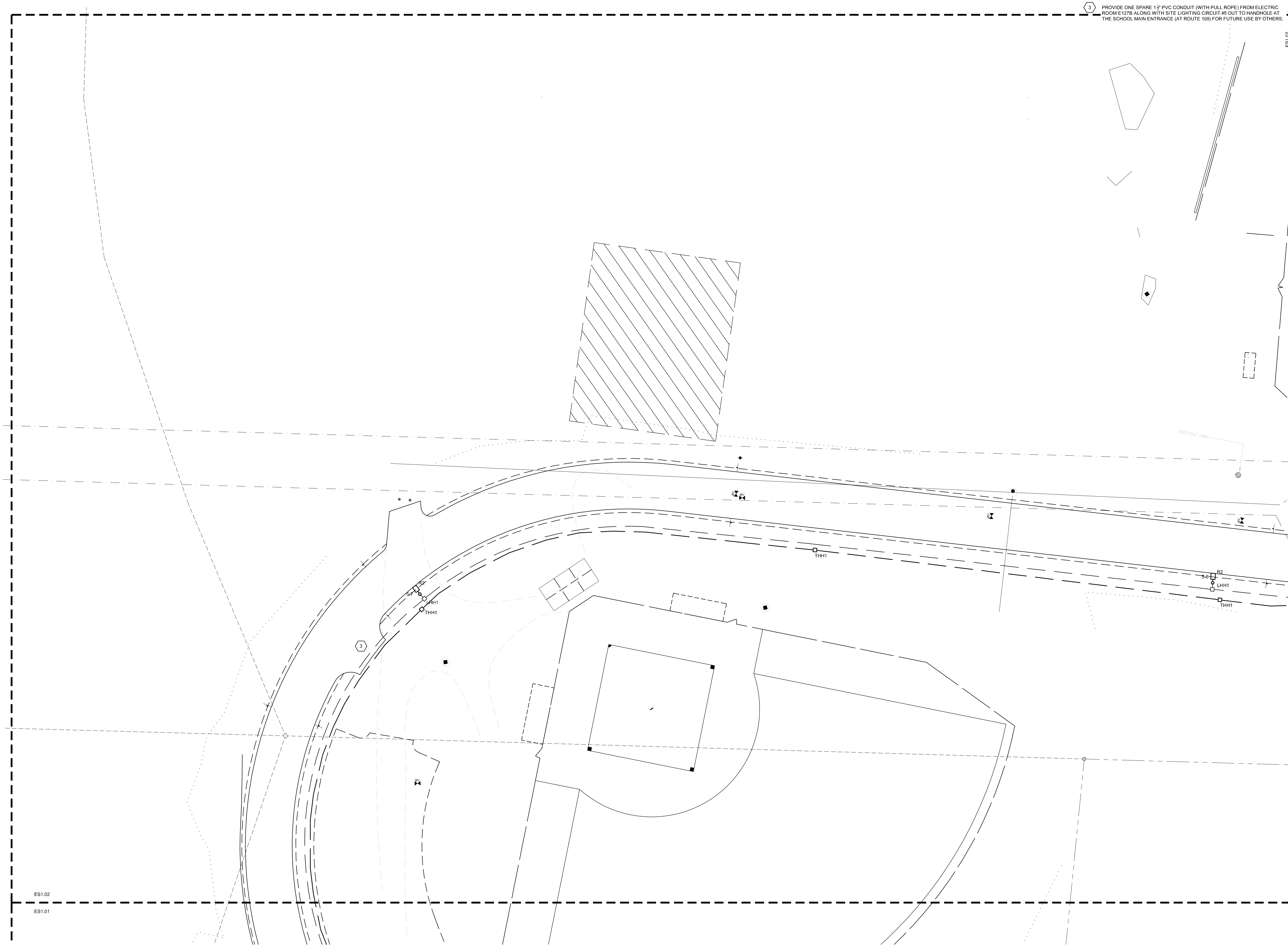
FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT: ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES1.01

Project Phase
BID DOCUMENTS



1 ELECTRICAL SITE PLAN
1" = 20'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. (3) PROVIDE ONE SPARE 1 1/2" PVC CONDUIT (WITH PULL ROPE) FROM ELECTRIC ROOM E127B ALONG WITH SITE LIGHTING CIRCUIT #5 OUT TO HANDHOLE AT THE SCHOOL MAIN ENTRANCE (AT ROUTE 109) FOR FUTURE USE BY OTHERS.

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

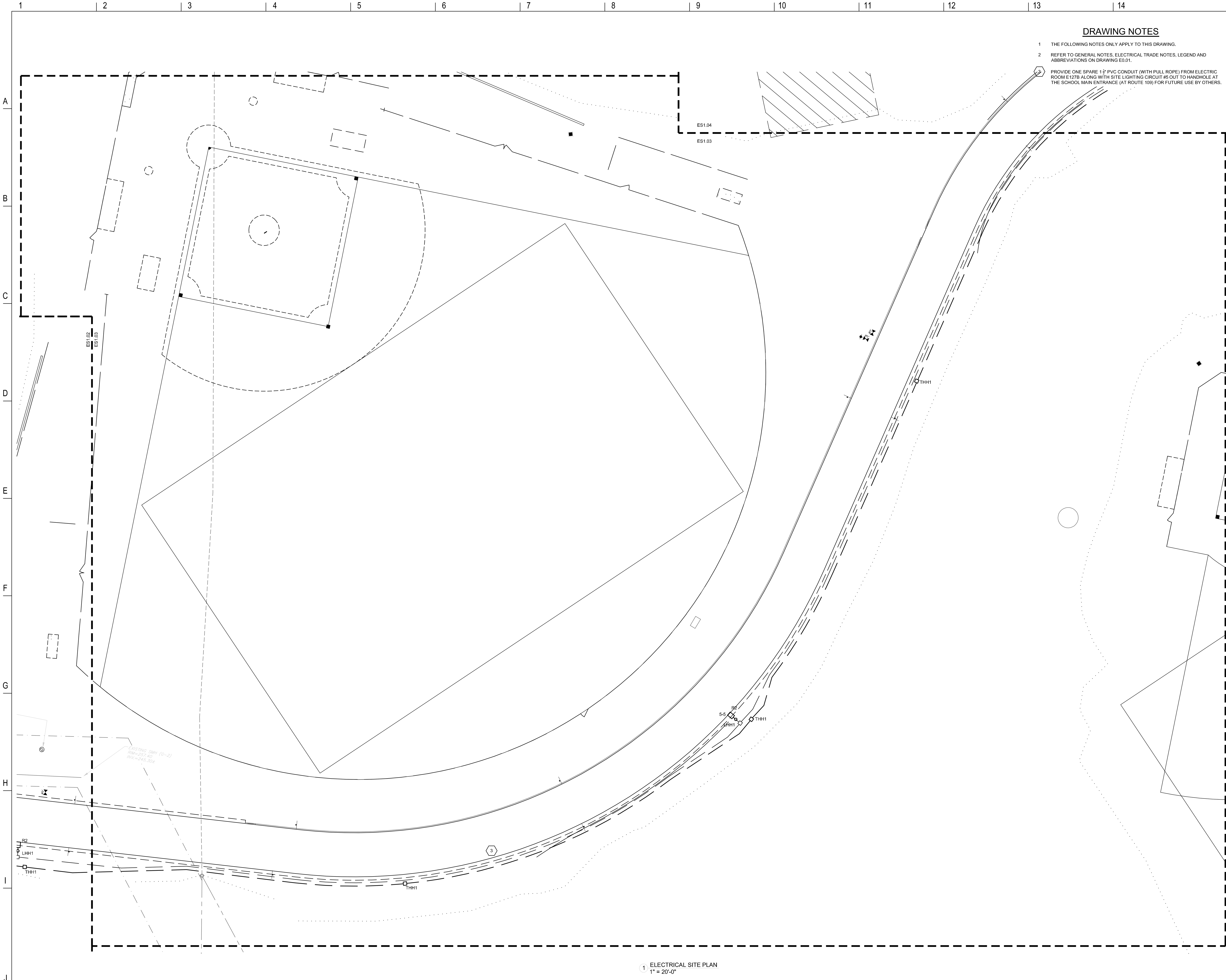
FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES1.02

Project Phase
BID DOCUMENTS



1 ELECTRICAL SITE PLAN
1" = 20'-0"

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

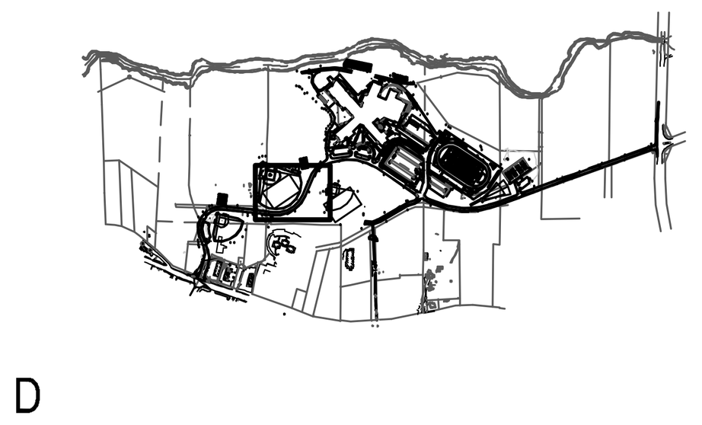
2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 PROVIDE ONE SPARE 1 1/2" PVC CONDUIT (WITH PULL ROPE) FROM ELECTRIC ROOM E127B ALONG WITH SITE LIGHTING CIRCUIT #5 OUT TO HANDHOLE AT THE SCHOOL MAIN ENTRANCE (AT ROUTE 109) FOR FUTURE USE BY OTHERS.

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER



Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

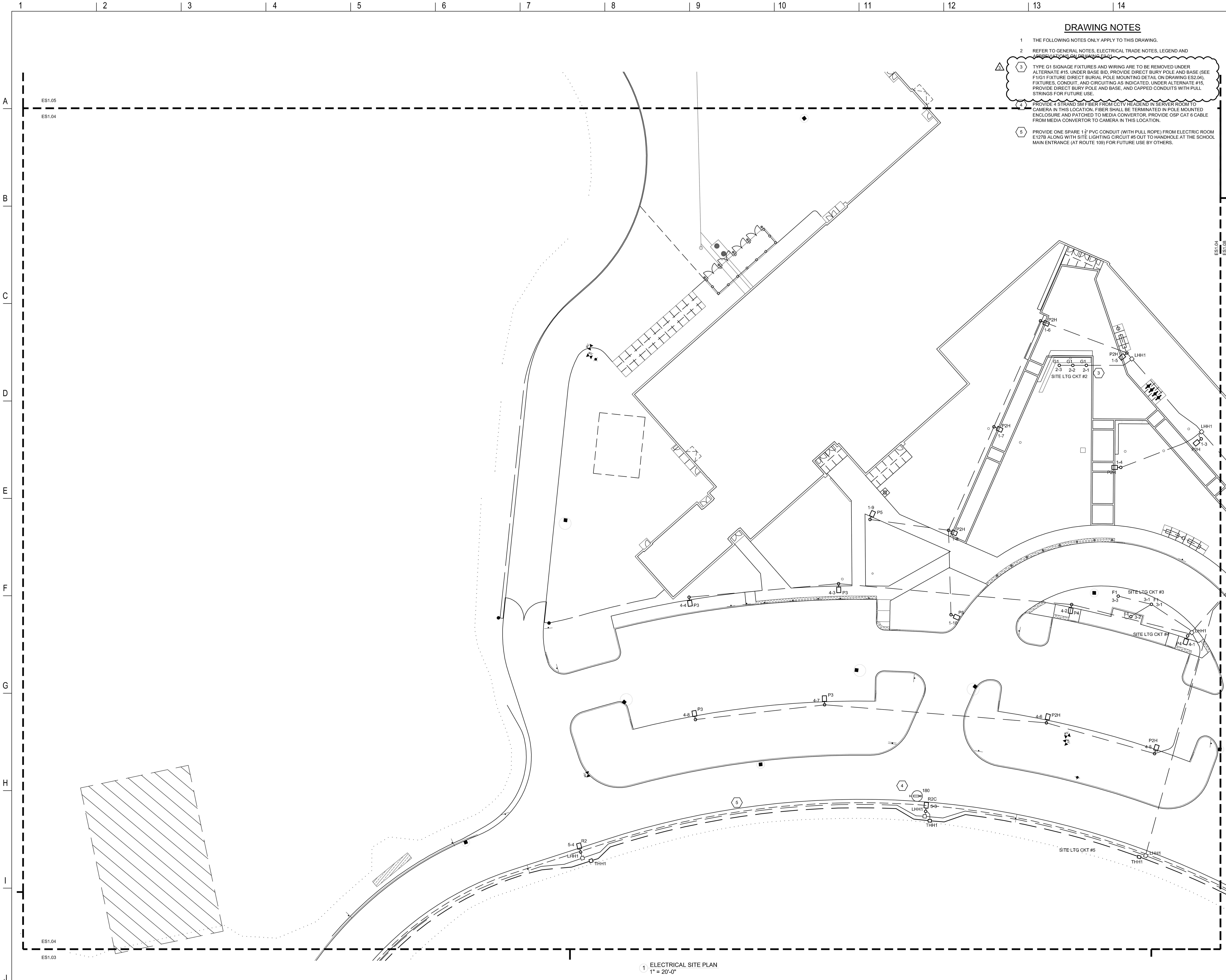
FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES1.03

Project Phase
BID DOCUMENTS



1 ELECTRICAL SITE PLAN
1" = 20'-0"

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 TYPE G1 SIGNAGE FIXTURES AND WIRING ARE TO BE REMOVED UNDER ALTERNATE #15. UNDER BASE BID, PROVIDE DIRECT BURY POLE AND BASE (SEE F1/G1 FIXTURE DIRECT BURIAL POLE MOUNTING DETAIL ON DRAWING ES2.04), FIXTURES, CONDUIT, AND CIRCUITING AS INDICATED. UNDER ALTERNATE #15, PROVIDE DIRECT BURY POLE AND BASE, AND CAPPED CONDUITS WITH PULL STRINGS FOR FUTURE USE.

4 PROVIDE 4 STRAND SM FIBER FROM CCTV HEADEND IN SERVER ROOM TO CAMERA IN THIS LOCATION. FIBER SHALL BE TERMINATED IN POLE MOUNTED ENCLOSURE AND PATCHED TO MEDIA CONVERTOR. PROVIDE OSP CAT 6 CABLE FROM MEDIA CONVERTOR TO CAMERA IN THIS LOCATION.

5 PROVIDE ONE SPARE $1\frac{1}{2}$" PVC CONDUIT (WITH PULL ROPE) FROM ELECTRIC ROOM E127B ALONG WITH SITE LIGHTING CIRCUIT #5 OUT TO HANDHOLE AT THE SCHOOL MAIN ENTRANCE (AT ROUTE 109) FOR FUTURE USE BY OTHERS.

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

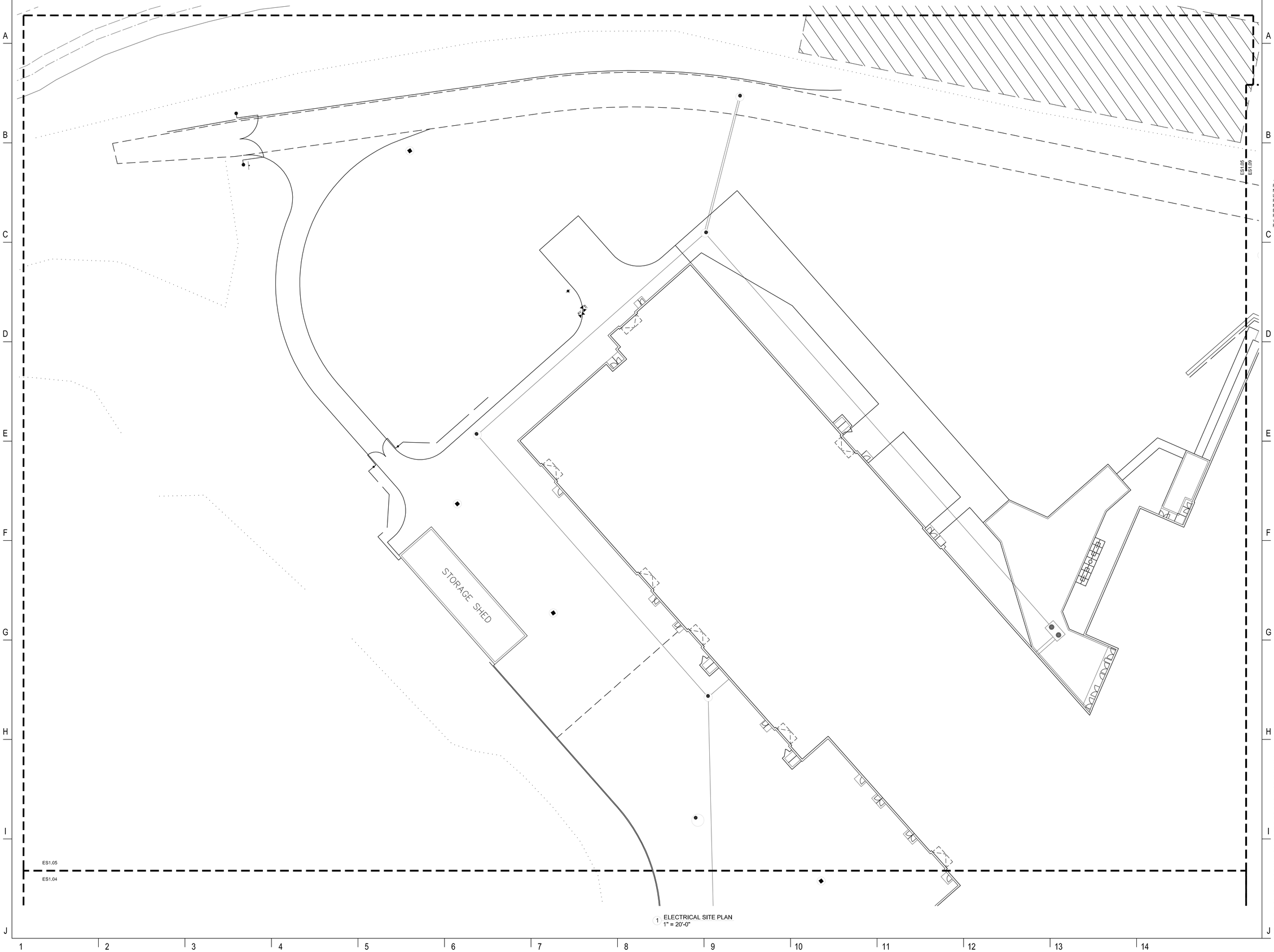
ES1.04

Project Phase
BID DOCUMENTS

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

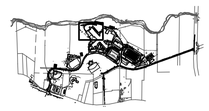


1 ELECTRICAL SITE PLAN
1" = 20'-0"

LAVALLEE BRENSINGER
ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. BEAMAN
LICENSED
PROFESSIONAL ENGINEER



Sanford School Department and
State of Maine Department of
Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL

CONTENT: ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES1.05

Project Phase
BID DOCUMENTS

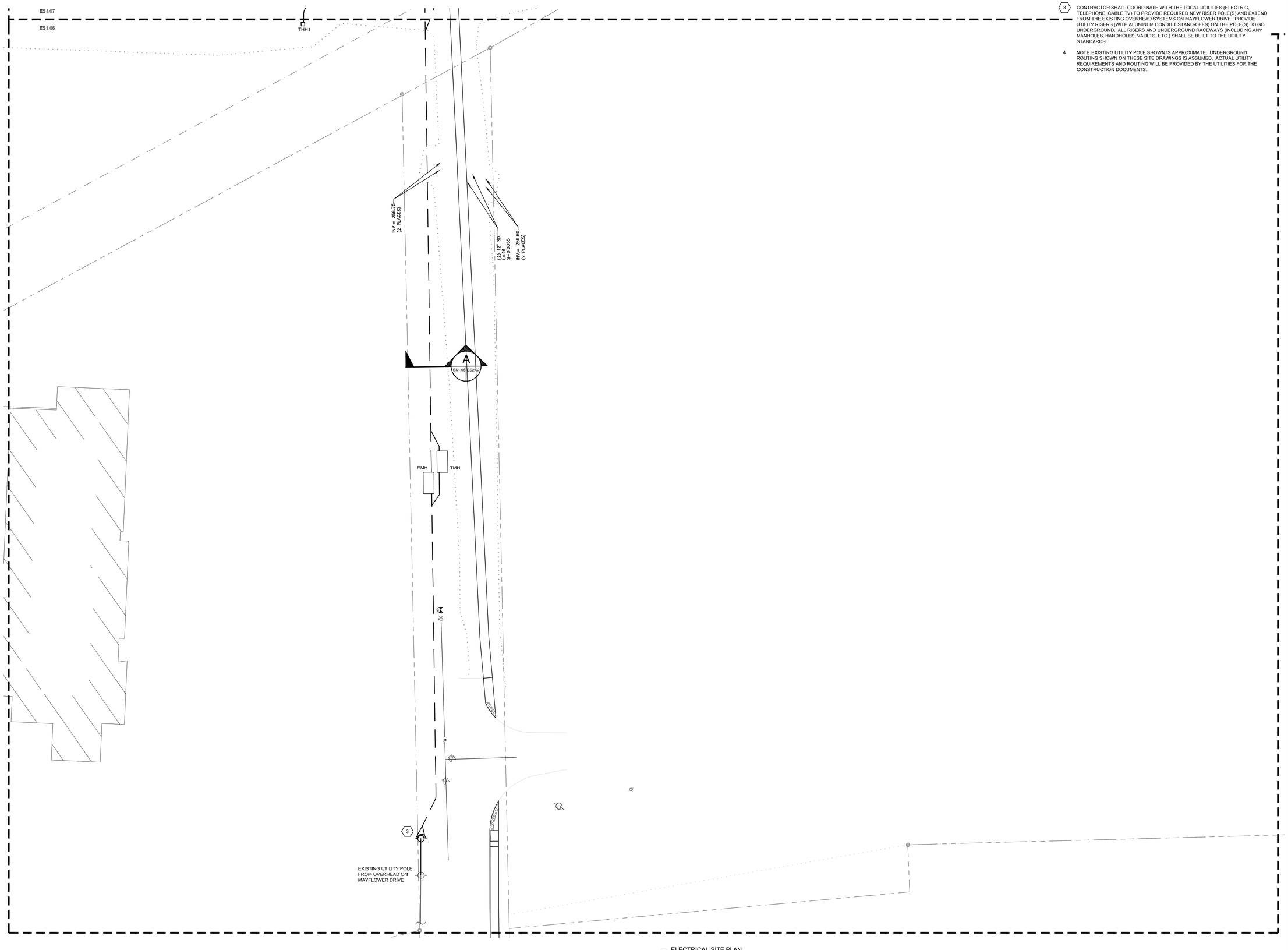
DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITIES (ELECTRIC, TELEPHONE, CABLE TV) TO PROVIDE REQUIRED NEW RISER POLE(S) AND EXTEND FROM THE EXISTING OVERHEAD SYSTEMS ON MAYFLOWER DRIVE. PROVIDE UTILITY RISERS (WITH ALUMINUM CONDUIT STAND-OFFS) ON THE POLE(S) TO GO UNDERGROUND. ALL RISERS AND UNDERGROUND RACEWAYS (INCLUDING ANY MANHOLES, HANDHOLES, VAULTS, ETC.) SHALL BE BUILT TO THE UTILITY STANDARDS.

4 NOTE: EXISTING UTILITY POLE SHOWN IS APPROXIMATE. UNDERGROUND ROUTING SHOWN ON THESE SITE DRAWINGS IS ASSUMED. ACTUAL UTILITY REQUIREMENTS AND ROUTING WILL BE PROVIDED BY THE UTILITIES FOR THE CONSTRUCTION DOCUMENTS.

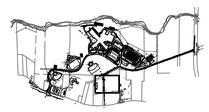


1 ELECTRICAL SITE PLAN
1" = 20'-0"

LAVALLEE BRENSINGER
ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. BEAMAN
LICENSED
PROFESSIONAL ENGINEER



Sanford School Department and
State of Maine Department of
Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL

CONTENT: ELECTRICAL SITE PLAN

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: AS NOTED

ES1.06

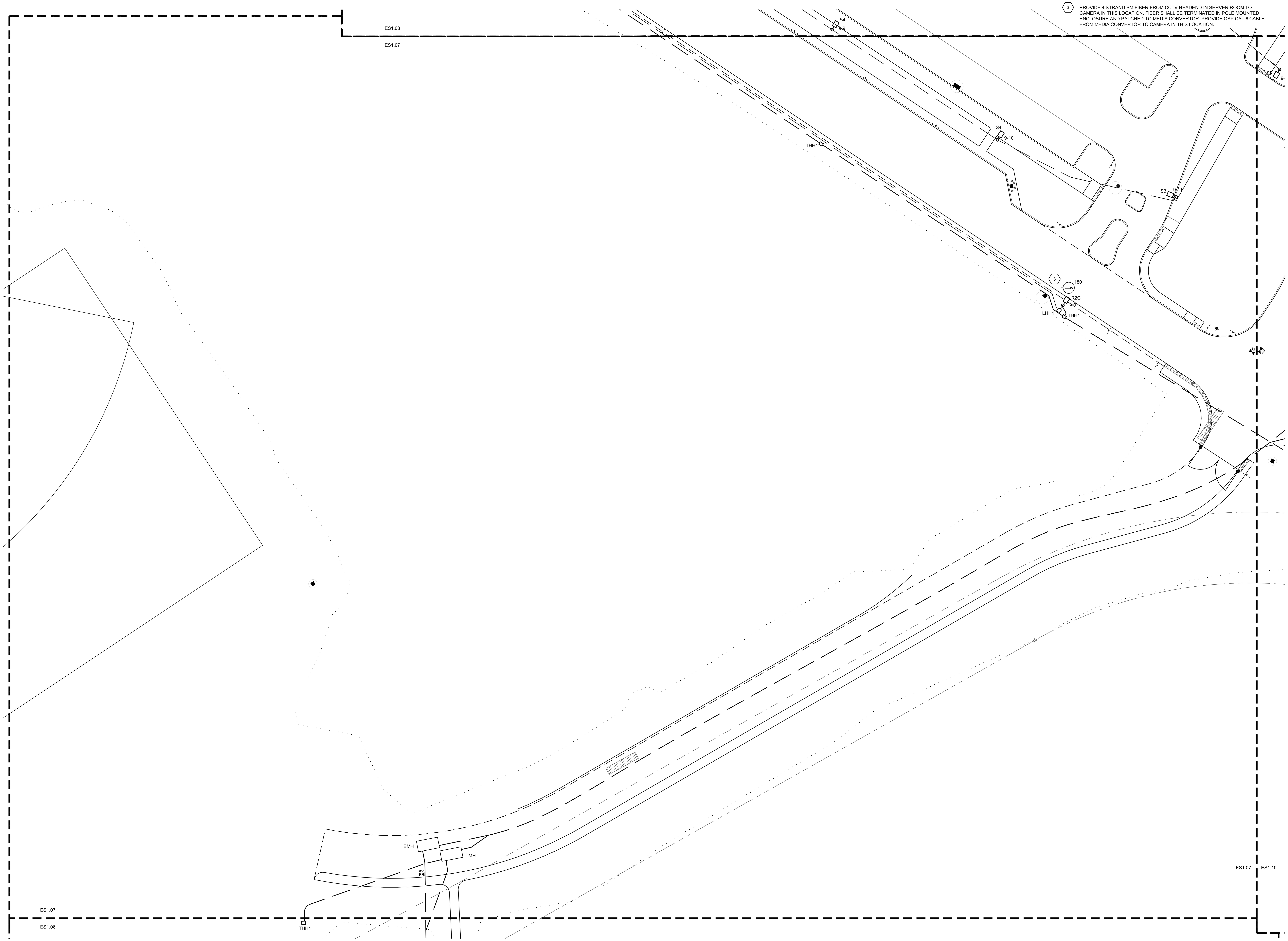
Project Phase
BID DOCUMENTS

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 PROVIDE 4 STRAND SM FIBER FROM CCTV HEADEND IN SERVER ROOM TO CAMERA IN THIS LOCATION. FIBER SHALL BE TERMINATED IN POLE MOUNTED ENCLOSURE AND PATCHED TO MEDIA CONVERTOR. PROVIDE OSP CAT 6 CABLE FROM MEDIA CONVERTOR TO CAMERA IN THIS LOCATION.

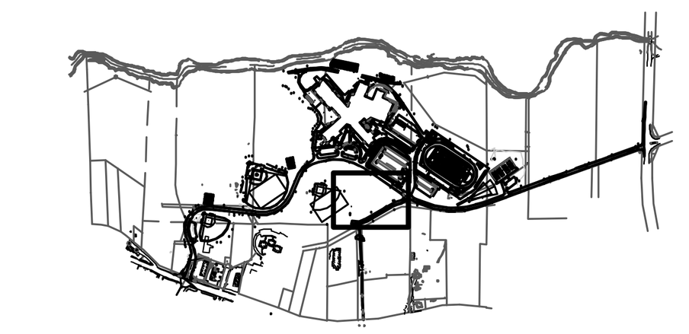


1 ELECTRICAL SITE PLAN
1" = 20'-0"

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE CHRISTOPHER M. SHUMWAY No. 10820 LICENSED PROFESSIONAL ENGINEER



Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

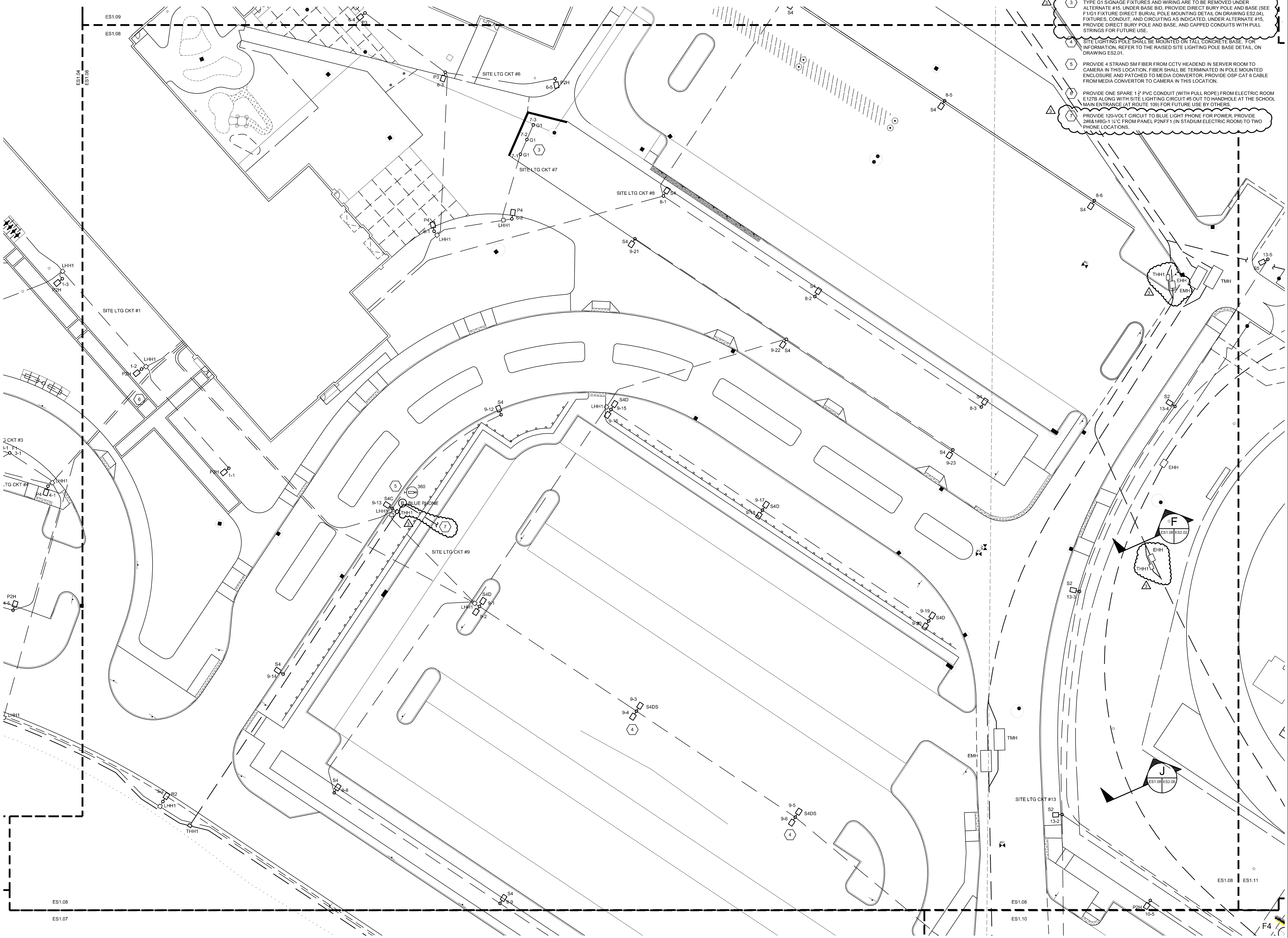
FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES1.07

Project Phase
BID DOCUMENTS



1 ELECTRICAL SITE PLAN
1" = 20'-0"

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 TYPE G1 SIGNAGE FIXTURES AND WIRING ARE TO BE REMOVED UNDER ALTERNATE #15. UNDER BASE BID, PROVIDE DIRECT BURY POLE AND BASE (SEE F1/G1 FIXTURE DIRECT BURIAL POLE MOUNTING DETAIL ON DRAWING ES2.04), FIXTURES, CONDUIT, AND CIRCUITING AS INDICATED. UNDER ALTERNATE #15, PROVIDE DIRECT BURY POLE AND BASE, AND CAPPED CONDUITS WITH PULL STRINGS FOR FUTURE USE.

4 SITE LIGHTING POLE SHALL BE MOUNTED ON TALL CONCRETE BASE. FOR INFORMATION, REFER TO THE RAISED SITE LIGHTING POLE BASE DETAIL, ON DRAWING ES2.01.

5 PROVIDE 4 STRAND SM FIBER FROM CCTV HEADEND IN SERVER ROOM TO CAMERA IN THIS LOCATION. FIBER SHALL BE TERMINATED IN POLE MOUNTED ENCLOSURE AND PATCHED TO MEDIA CONVERTOR. PROVIDE OSP CAT 6 CABLE FROM MEDIA CONVERTOR TO CAMERA IN THIS LOCATION.

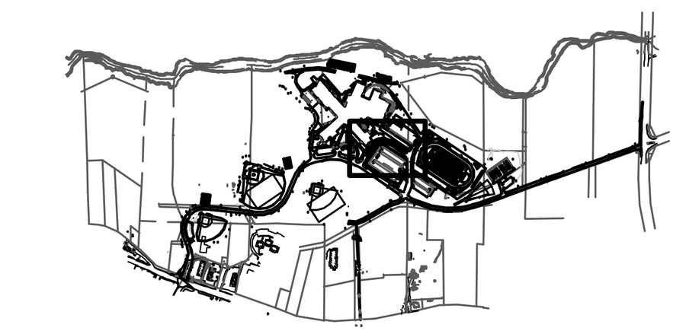
6 PROVIDE ONE SPARE 1 $\frac{1}{2}$" PVC CONDUIT (WITH PULL ROPE) FROM ELECTRIC ROOM E127B ALONG WITH SITE LIGHTING CIRCUIT #5 OUT TO HANDHOLE AT THE SCHOOL MAIN ENTRANCE (AT ROUTE 109) FOR FUTURE USE BY OTHERS.

7 PROVIDE 120-VOLT CIRCUIT TO BLUE LIGHT PHONE FOR POWER. PROVIDE 2#6&1#8G-1 ¼"C FROM PANEL P2NFF1 (IN STADIUM ELECTRIC ROOM) TO TWO PHONE LOCATIONS.

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER



Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES1.08

Project Phase
BID DOCUMENTS

DRAWING NOTES

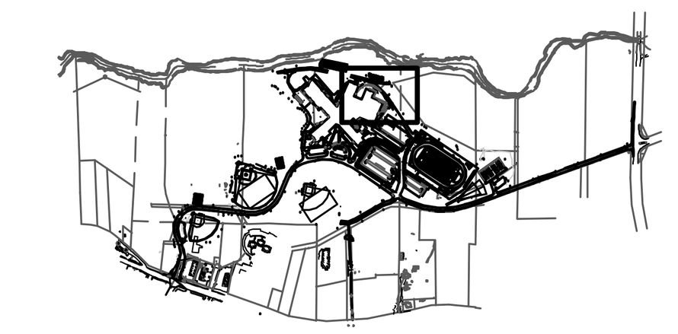
1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. CONTRACTOR SHALL COORDINATE WITH THE LOCAL ELECTRIC UTILITY FOR THE INSTALLATION OF TWO UTILITY-OWNED PAD-MOUNTED TRANSFORMERS.
4. CONTRACTOR SHALL PROVIDE SECONDARY CONDUITS AND CONDUCTORS FOR ELECTRICAL SERVICES TO THE BUILDING.
5. CONTRACTOR SHALL COORDINATE WITH THE LOCAL CABLE TV AND TELEPHONE UTILITIES FOR SERVICE TO THE BUILDING.
6. CONTRACTOR SHALL PROVIDE STANDBY GENERATOR WITH BACK-UP POWER TO THE BUILDING.
7. CONTRACTOR SHALL PROVIDE GENERATOR LOAD BANK FOR CONNECTION TO THE GENERATOR.
8. CONTRACTOR SHALL PROVIDE DELTA GROUND GRID FOR MAIN SWITCHBOARDS. FOR FURTHER INFORMATION, REFER TO GROUNDING DETAIL ON DRAWING E0.06.

1 ELECTRICAL SITE PLAN
1" = 20'-0"

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER



Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

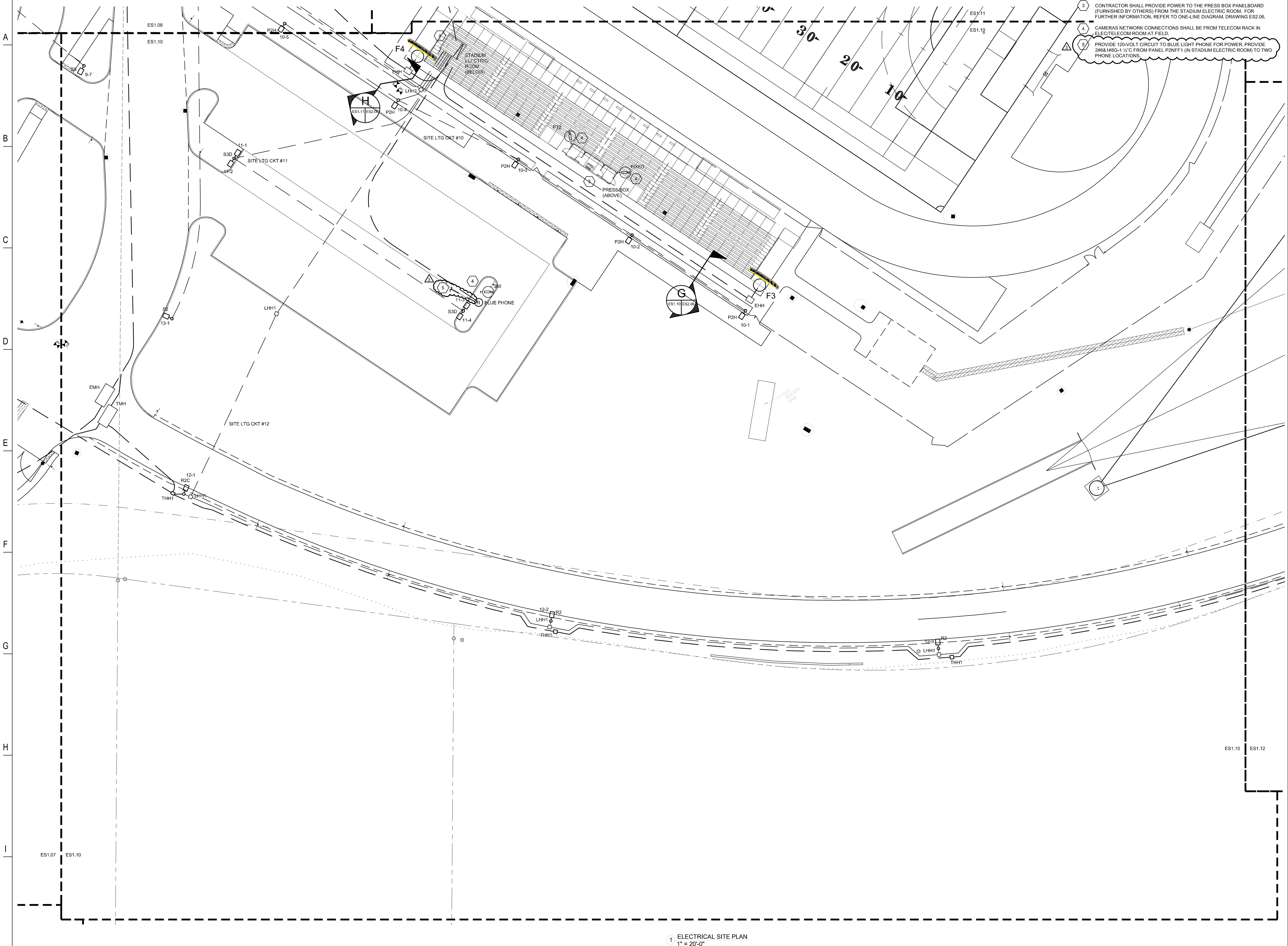
FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
ELECTRICAL SITE PLAN

DRAWN BY: C. NEWELL
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: AS NOTED

ES1.09

Project Phase
BID DOCUMENTS



1 ELECTRICAL SITE PLAN
1" = 20'-0"

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. CONTRACTOR SHALL PROVIDE POWER TO THE PRESS BOX PANELBOARD (FURNISHED BY OTHERS) FROM THE STADIUM ELECTRIC ROOM. FOR FURTHER INFORMATION, REFER TO ONE-LINE DIAGRAM, DRAWING ES2.06.
4. CAMERAS NETWORK CONNECTIONS SHALL BE FROM TELECOM RACK IN ELEC/TELECOM ROOM AT FIELD.
5. PROVIDE 120-VOLT CIRCUIT TO BLUE LIGHT PHONE FOR POWER. PROVIDE 2#6&1#8G-1 ¼"C FROM PANEL P2NFF1 (IN STADIUM ELECTRIC ROOM) TO TWO PHONE LOCATIONS.

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

CONTENT:
ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES1.10

Project Phase
BID DOCUMENTS

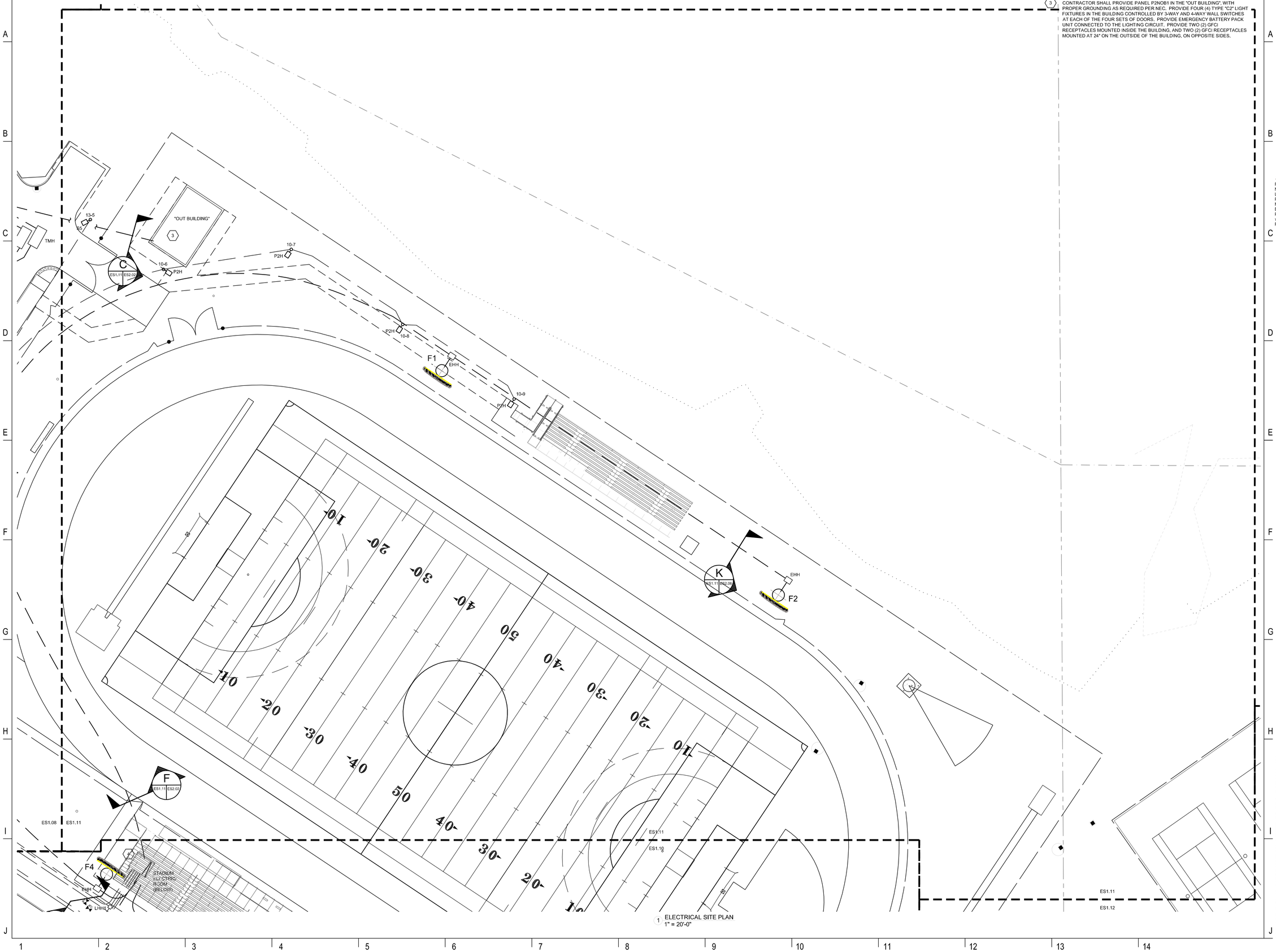
FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 CONTRACTOR SHALL PROVIDE PANEL P2NOB1 IN THE "OUT BUILDING", WITH PROPER GROUNDING AS REQUIRED PER NEC. PROVIDE FOUR (4) TYPE "C2" LIGHT FIXTURES IN THE BUILDING CONTROLLED BY 3-WAY AND 4-WAY WALL SWITCHES AT EACH OF THE FOUR SETS OF DOORS. PROVIDE EMERGENCY BATTERY PACK UNIT CONNECTED TO THE LIGHTING CIRCUIT. PROVIDE TWO (2) GFCI RECEPTACLES MOUNTED INSIDE THE BUILDING, AND TWO (2) GFCI RECEPTACLES MOUNTED AT 24" ON THE OUTSIDE OF THE BUILDING, ON OPPOSITE SIDES.

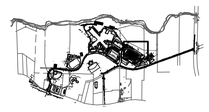


1 ELECTRICAL SITE PLAN
1" = 20'-0"

LAVALLEE BRENSINGER
ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. BEAMAN
LICENSED
PROFESSIONAL ENGINEER



Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL

CONTENT: ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

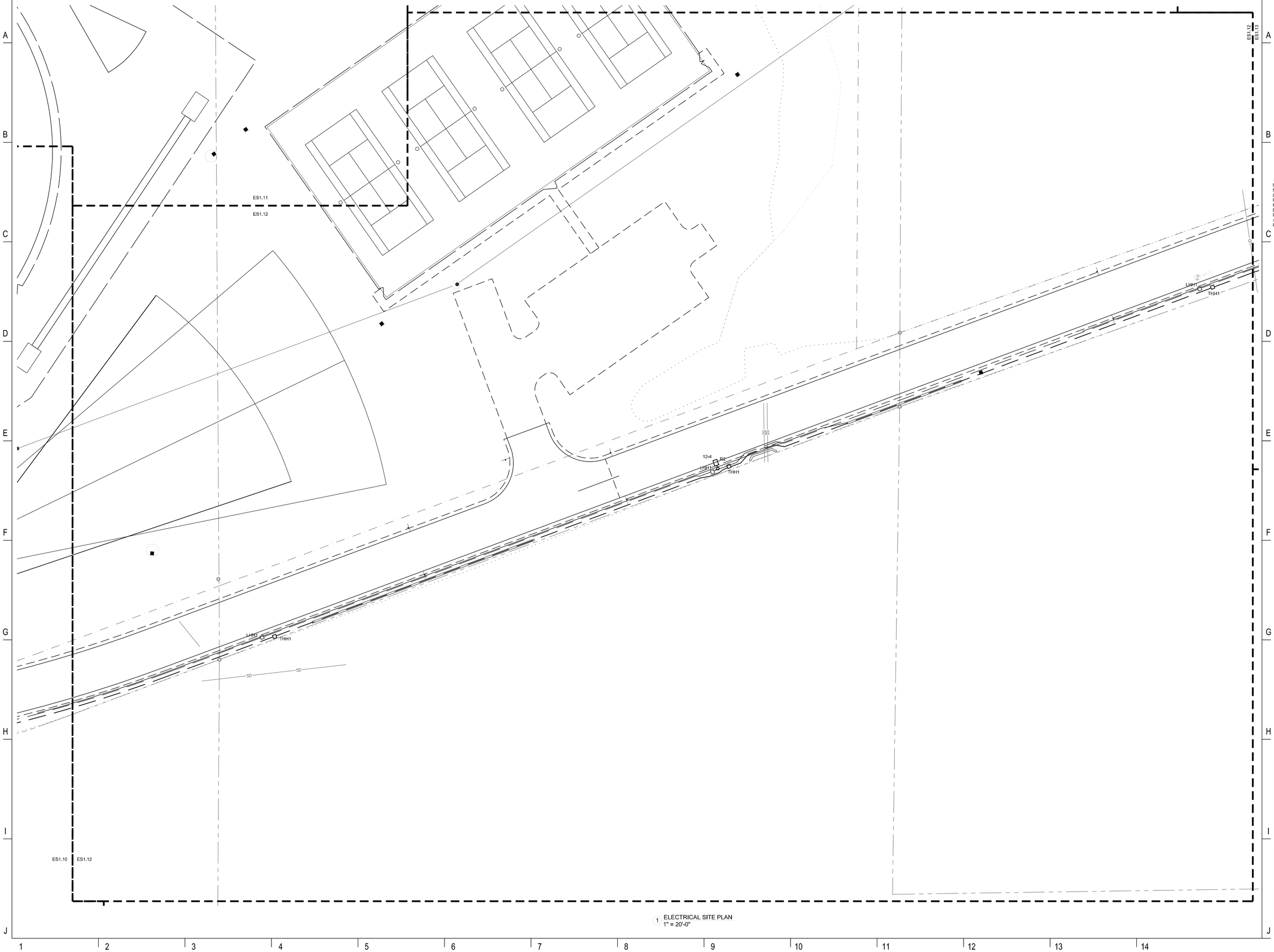
ES1.11

Project Phase: **BID DOCUMENTS**

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.



1 ELECTRICAL SITE PLAN
1" = 20'-0"

LAVALLEE BRENSINGER
ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. BEAMAN
LICENSED
PROFESSIONAL ENGINEER

Sanford School Department and
State of Maine Department of
Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

CONTENT:
ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES1.12

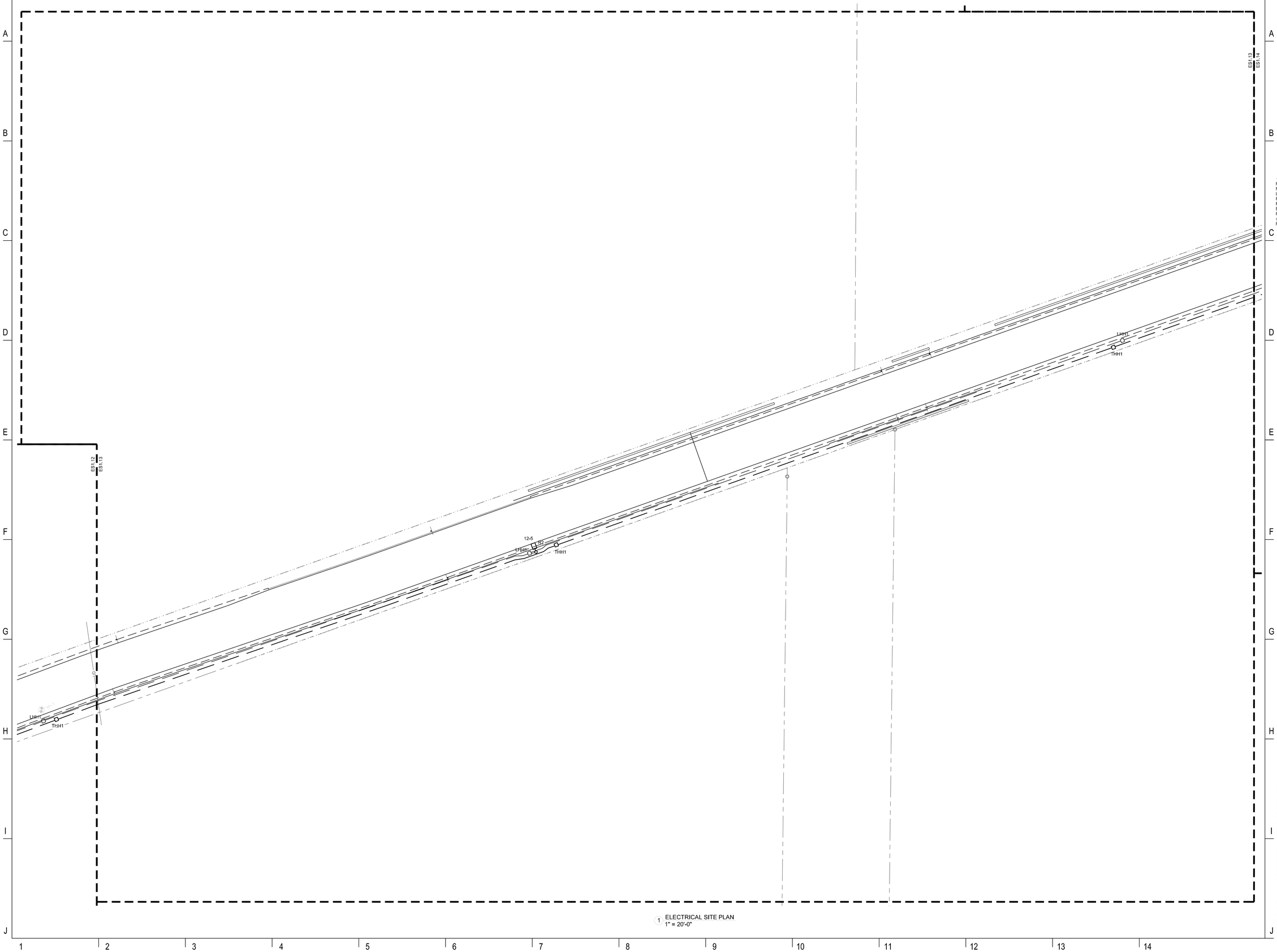
Project Phase
BID DOCUMENTS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

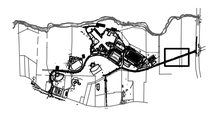
2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.



1 ELECTRICAL SITE PLAN
1" = 20'-0"

LAVALLEE BRENSINGER
ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001



Sanford School Department and
State of Maine Department of
Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL

CONTENT: ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES1.13

Project Phase
BID DOCUMENTS

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

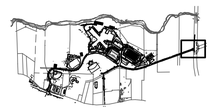
2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

1 ELECTRICAL SITE PLAN
1" = 20'-0"

LAVALLEE BRENSINGER
ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. BEAMAN
LICENSED
PROFESSIONAL ENGINEER



Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

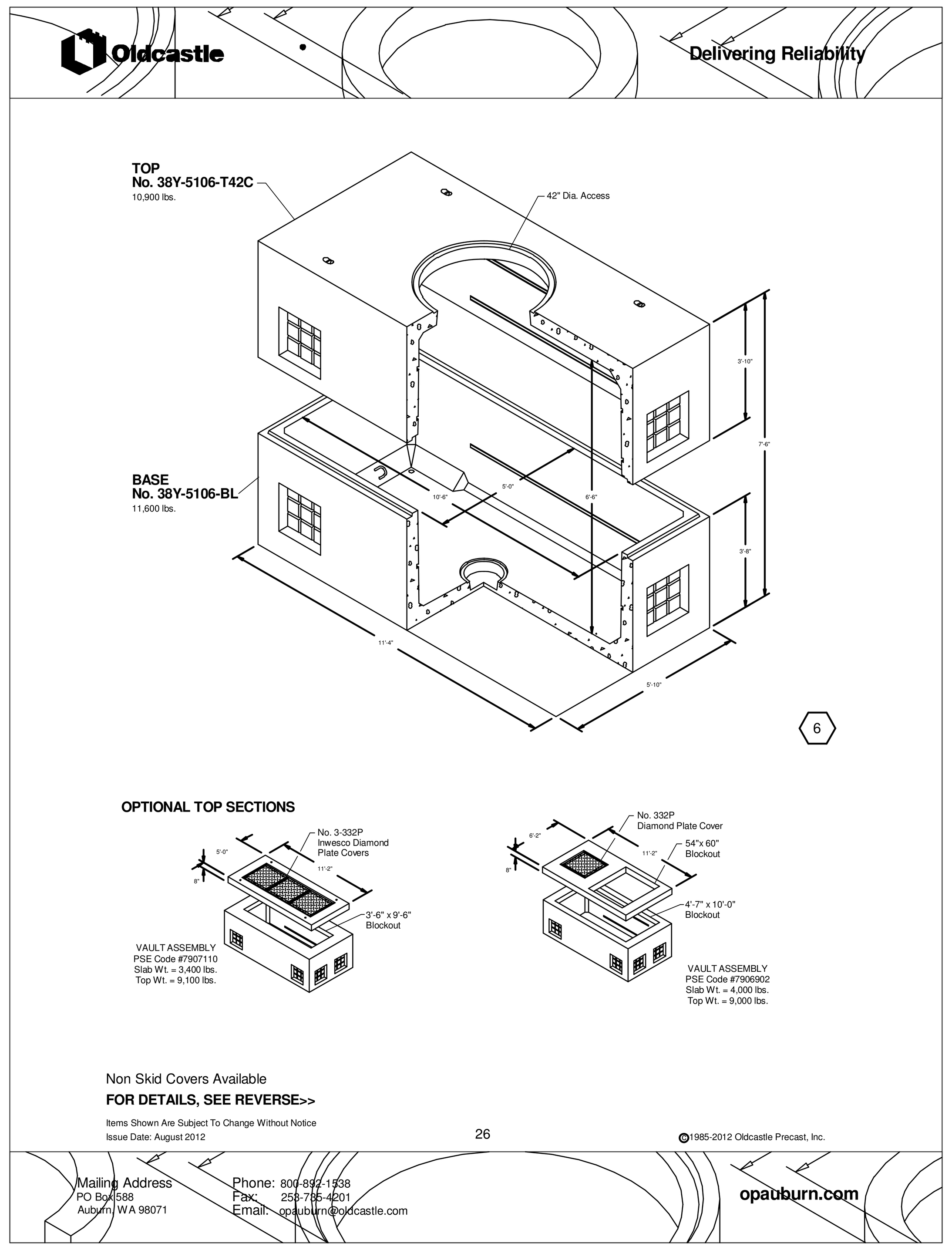
FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL

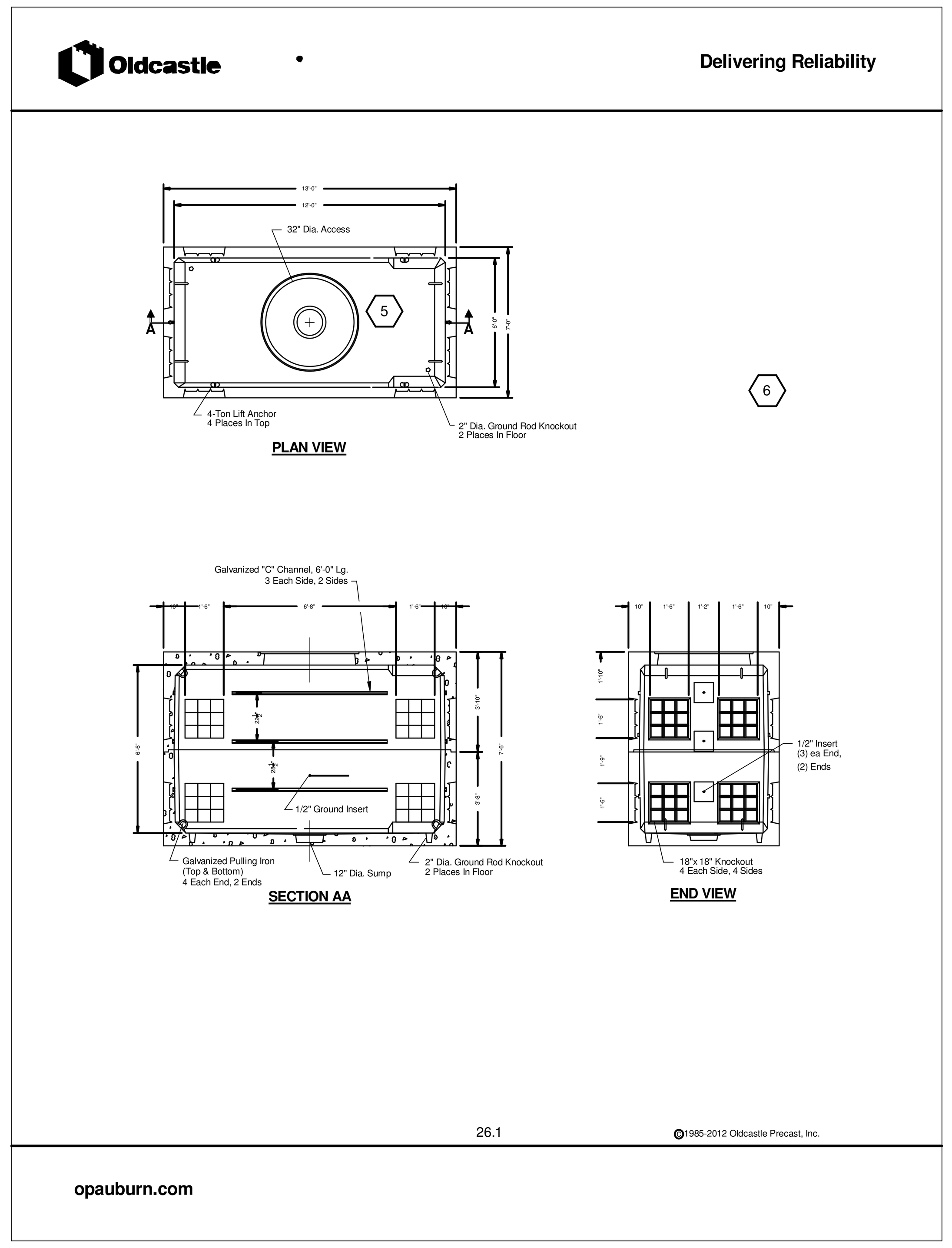
CONTENT: ELECTRICAL SITE PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES1.14

Project Phase
BID DOCUMENTS





(TYPICAL FOR "EMH" AND "TMH")

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. PAD SHALL BE CONSTRUCTED TO EXTEND 6" BEYOND THE GENERATOR (AND LOAD BANK) ENCLOSURE IN ALL DIRECTIONS. COORDINATE EXACT STUB-UP LOCATION(S) OF CONDUITS WITH EQUIPMENT CIRCUIT BREAKER AND CONNECTION LOCATIONS PRIOR TO INSTALLATION.
4. ADDITIONAL CONDUITS REQUIRED FOR POLES WITH CAMERAS AND WAPS. FOR CONDUIT INFORMATION, REFER TO POLE DETAIL(S) ON SITE DRAWINGS.
5. COVER FOR ELECTRIC SHALL BE CAST INDICATING "CMP CO."
6. FOR EXACT UTILITY REQUIREMENTS ON MANHOLES, REFER TO UTILITY STANDARDS HANDBOOK.

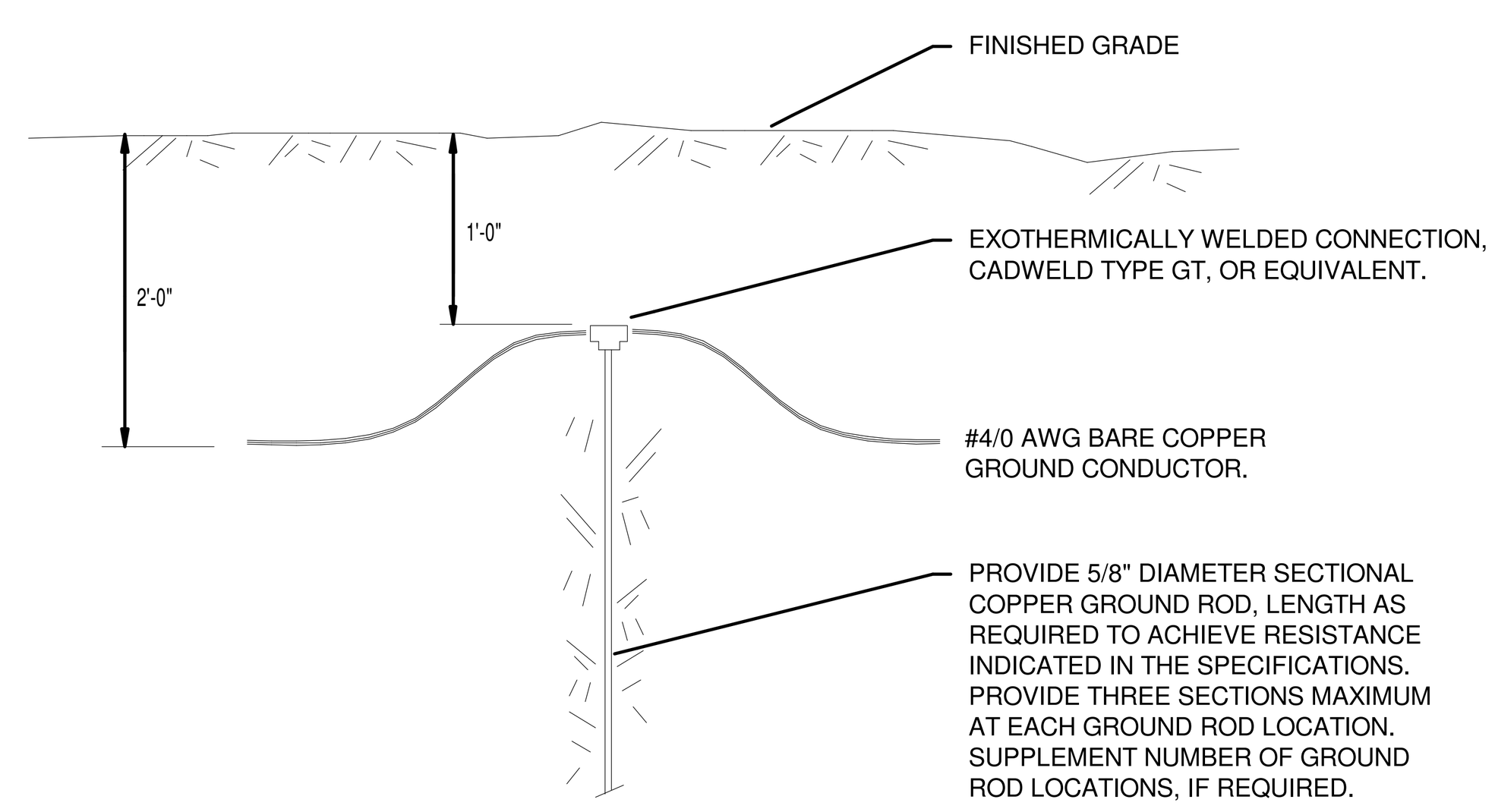
CONDUIT & CONDUCTOR SCHEDULE

CONDUIT	SIZE	TYPE	CABLE SIZE	CONDUIT USE DESCRIPTION
P1	5"	PVC	PULL ROPE	UTILITY SITE PRIMARY CABLES - BY OTHERS
P2	4"	PVC	3 4#500KCMIL	TRANSFORMER SECONDARY CONDUCTORS
P3	4"	PVC	4#350KCMIL&1#2/0G	GENERATOR STANDBY POWER FEEDERS
P4	4"	PVC	4#350KCMIL&1#4G	GENERATOR LIFE-SAFETY POWER FEEDERS
P5	4"	PVC	4#600KCMIL&1#1/0G	STADIUM ELECTRIC ROOM FEEDERS
P6	3"	PVC	3#2&1#8G (600V) 3#8&1#8G (600V)	LIGHTING CIRCUITS TO FIELD POLE F3
P7	3"	PVC	3#2&1#8G (600V) 3#8&1#8G (600V)	LIGHTING CIRCUITS TO FIELD POLE F4
P8	3"	PVC	3#4&1#8G (600V) 3#8&1#8G (600V)	LIGHTING CIRCUITS TO FIELD POLE F2
P9	3"	PVC	3#4&1#8G (600V) 3#8&1#8G (600V)	LIGHTING CIRCUITS TO FIELD POLE F1
P10	2"	PVC	16#8AWG	GENERATOR ACCESSORIES POWER CONDUCTORS
P11	2 1/2"	PVC	4#1&1#6G	OUT BUILDING POWER FEEDERS
P12	3"	PVC	3#500KCMIL&1#3G	LOAD BANK POWER FEEDERS
G1	2"	PVC	PER MANUFACTURER	GENERATOR ANNUNCIATOR CABLE
T1	4"	PVC	PULL ROPE	UTILITY TELEPHONE, CABLE, ETC. - BY OTHERS
SP3	3"	PVC	PULL ROPE	SPARE POWER
SP4	4"	PVC	PULL ROPE	SPARE POWER
SP5	5"	PVC	PULL ROPE	SPARE POWER

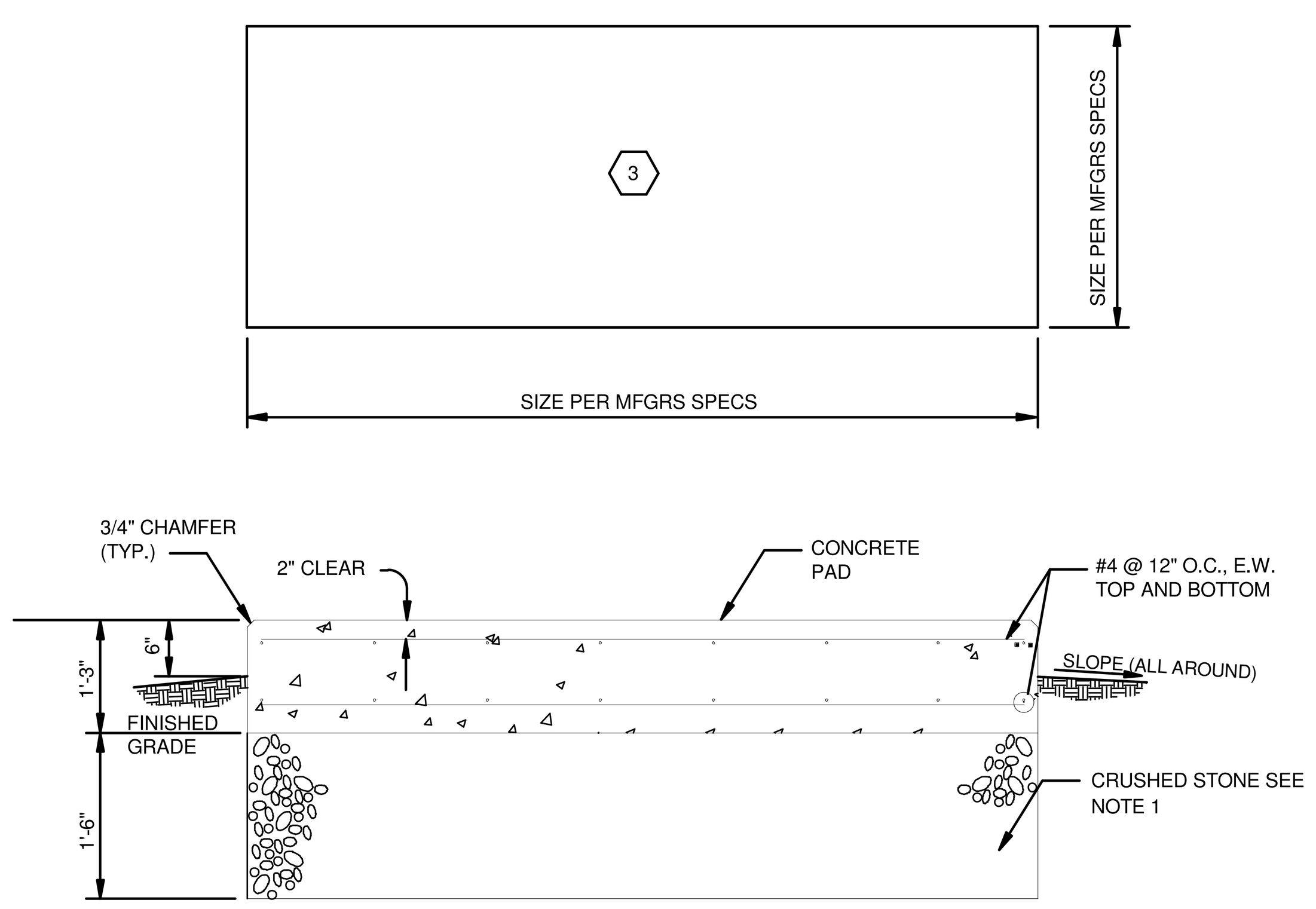
CONDUIT SPACING WHEN USING SPACERS

CONDUIT SIZE	CONDUIT SIZE O.D.	STANDARD CONDUIT SEPARATIONS ℄ TO ℄
4"	4.50"	HOR. 7 1/2"
		VERT. 7 1/2"
		* E.O.C. 5 1/4"
5"	5.50"	HOR. 8 9/16"
		VERT. 8 9/16"
		* E.O.C. 5 3/4"
6"	6.625"	HOR. 9 5/8"
		VERT. 9 5/8"
		* E.O.C. 6 5/16"

* DENOTES ℄ OF CONDUIT TO EDGE OF CONCRETE



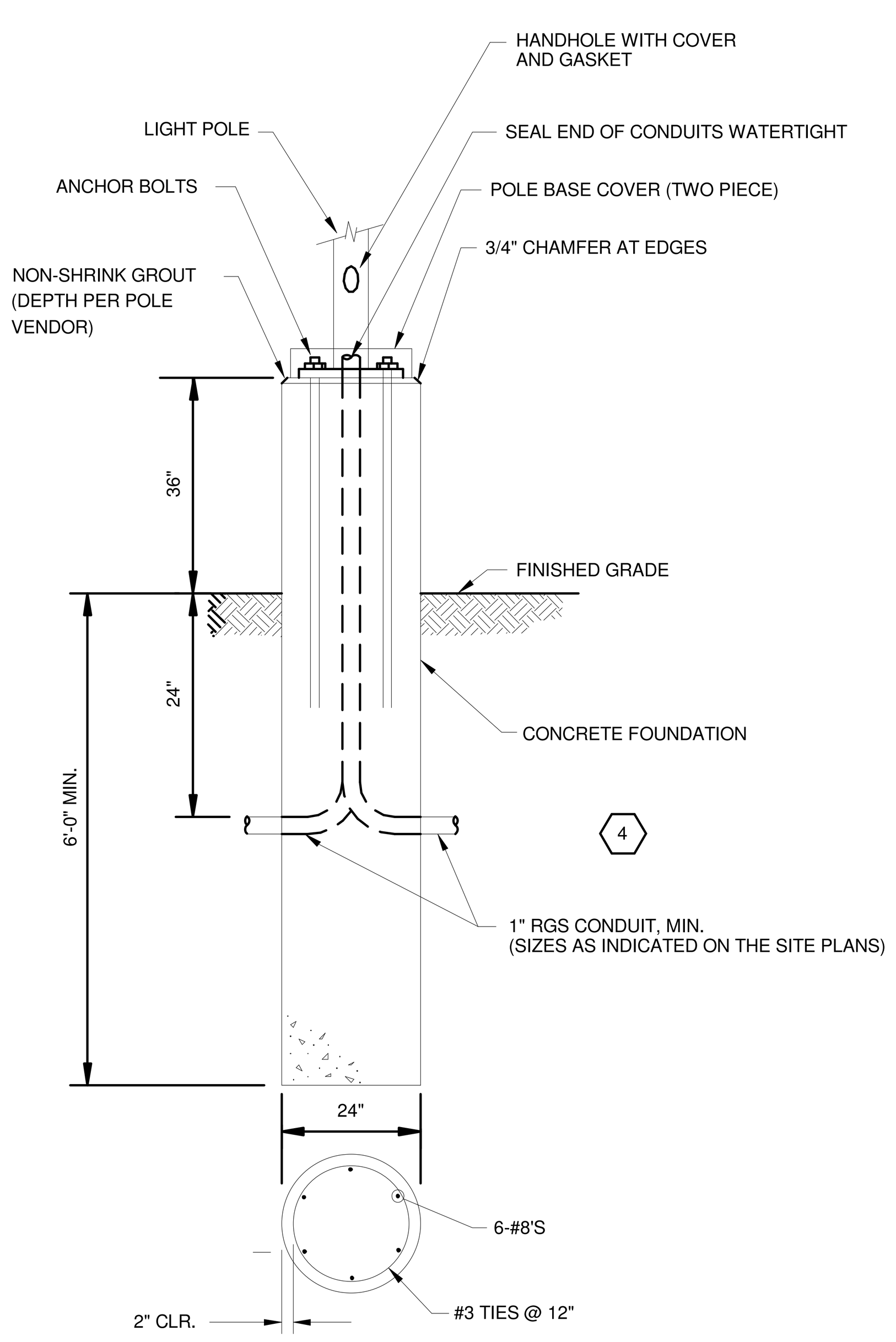
1 TYPICAL GROUND ROD INSTALLATION
NOT TO SCALE



NOTES:
1. CRUSHED STONE GRADATION SHALL BE IN ACCORDANCE WITH DPW SPECIFICATIONS.
2. ANCHOR EQUIPMENT PER MFGR. SPECS.

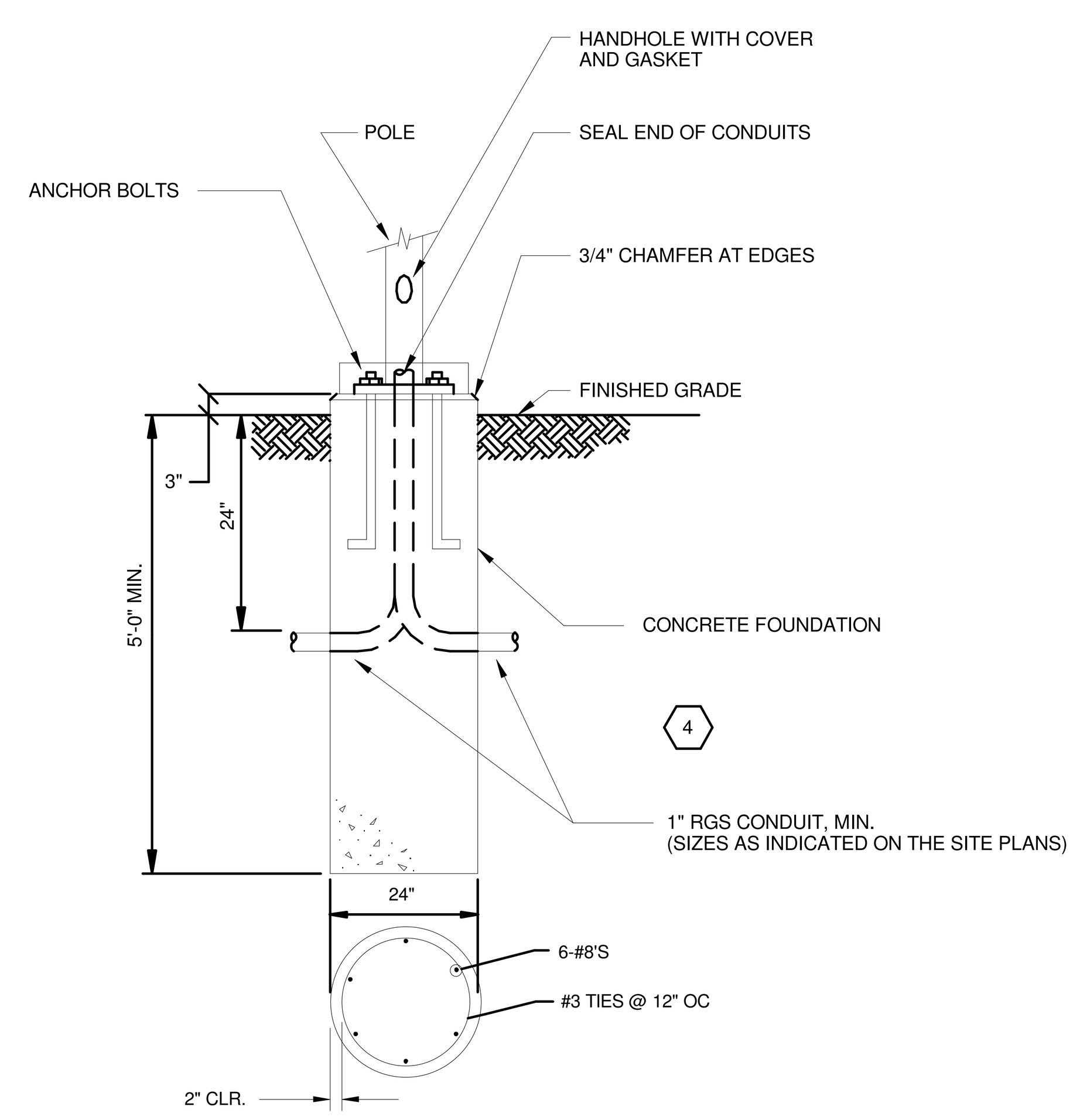
2 TYPICALGENERATOR EQUIPMENT PAD
NOT TO SCALE

(TYPICAL FOR LOAD BANK EQUIPMENT)



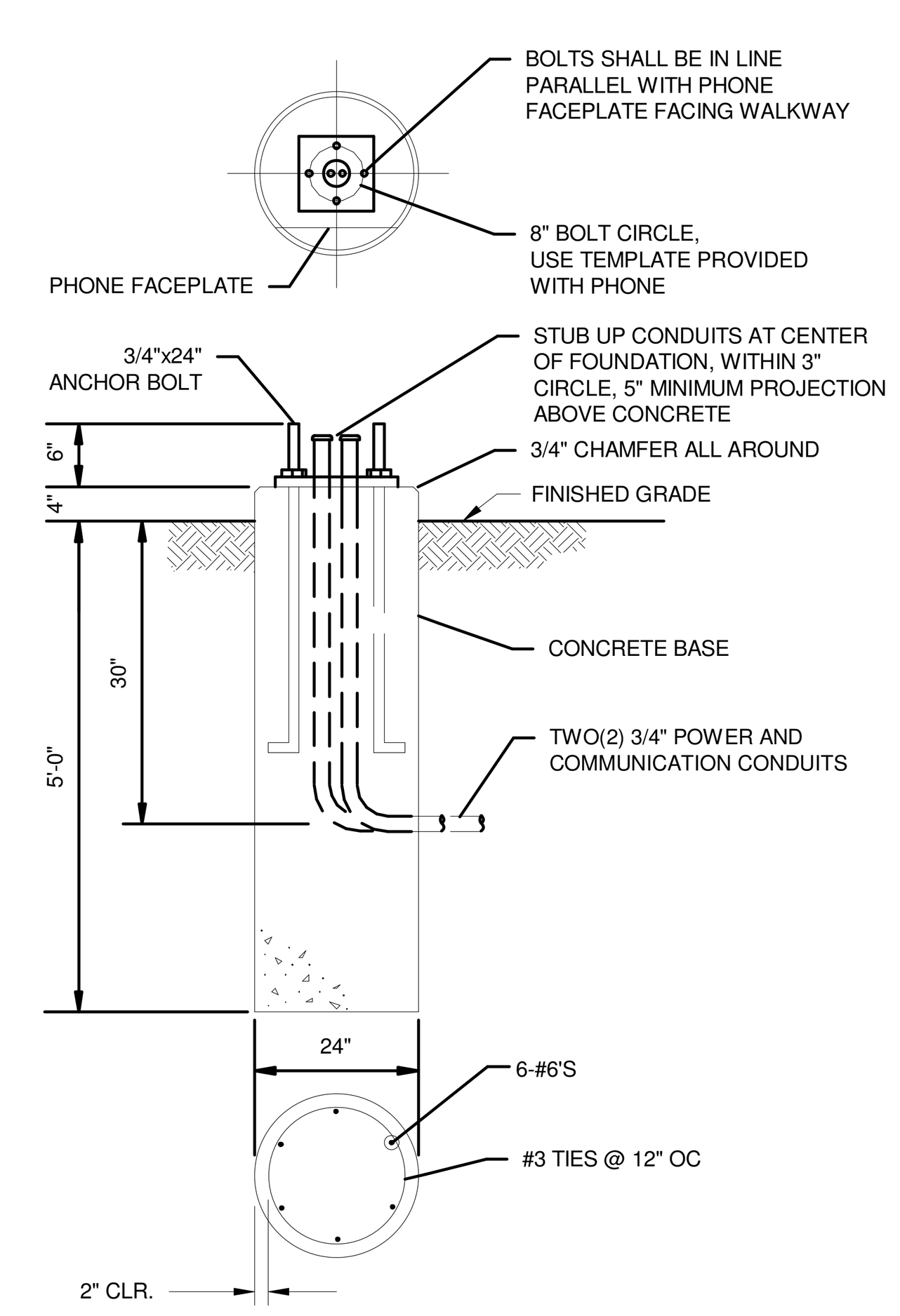
COORDINATE EXACT SIZE AND CONFIGURATION WITH LIGHTING FIXTURE MANUFACTURER.

3 RAISED SITE LIGHTING POLE BASE DETAIL
NOT TO SCALE

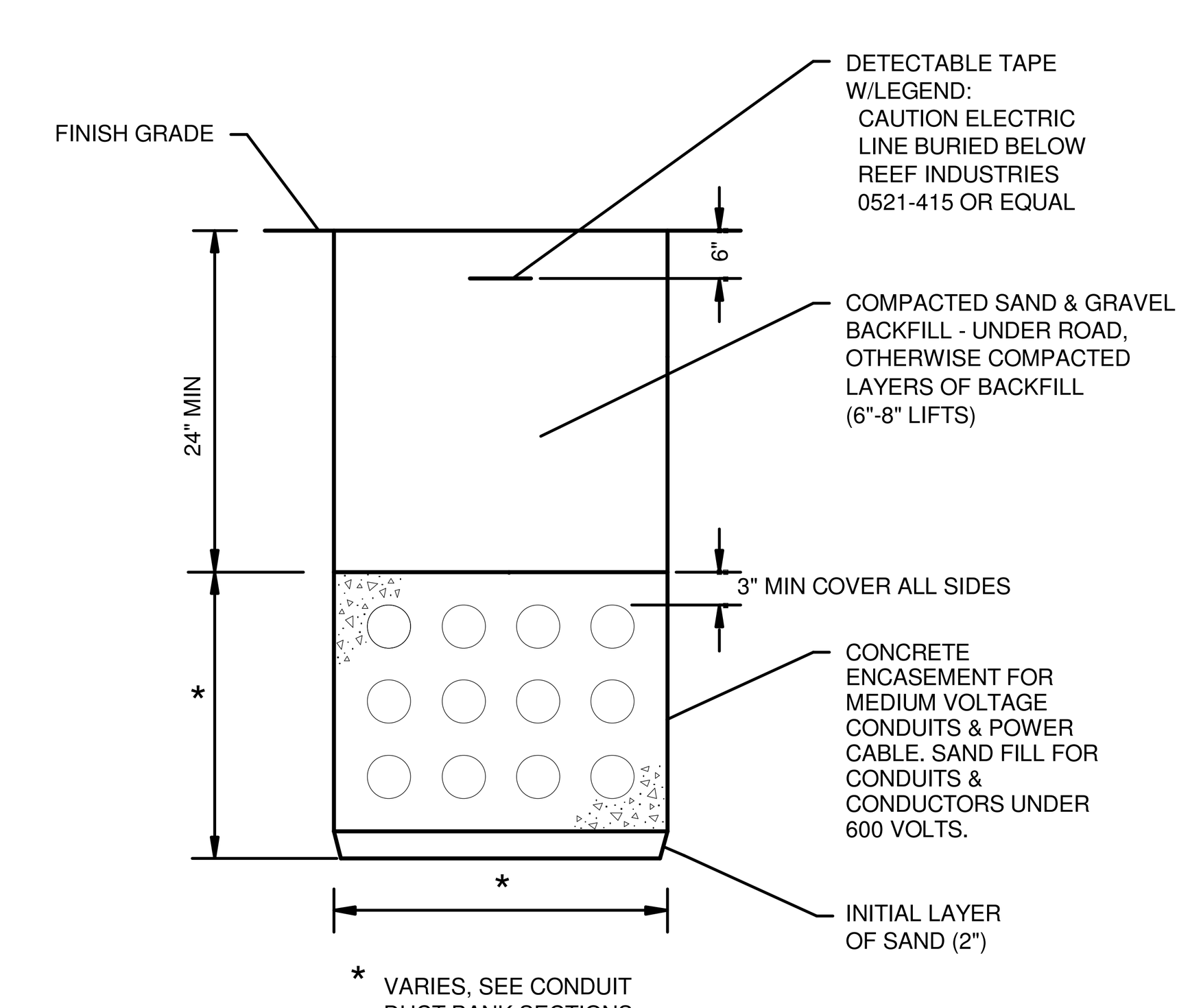


COORDINATE EXACT SIZE AND CONFIGURATION WITH LIGHTING FIXTURE MANUFACTURER.

4 SITE LIGHTING POLE BASE DETAIL
NOT TO SCALE



5 SECURITY PHONE FOUNDATION DETAIL
NOT TO SCALE



6 TYPICAL TRENCH SECTION
NOT TO SCALE

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

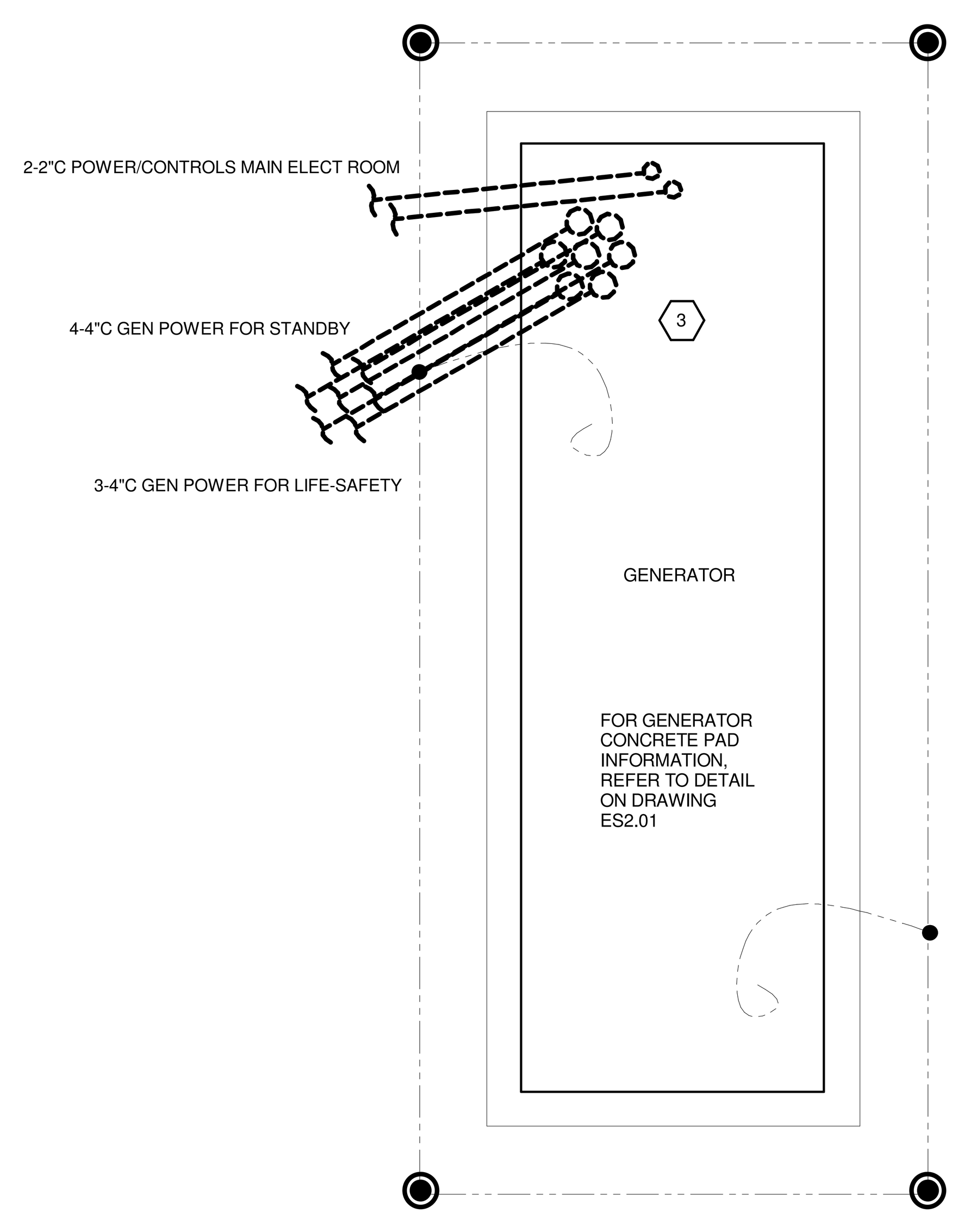
FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
ELECTRICAL SITE DETAILS

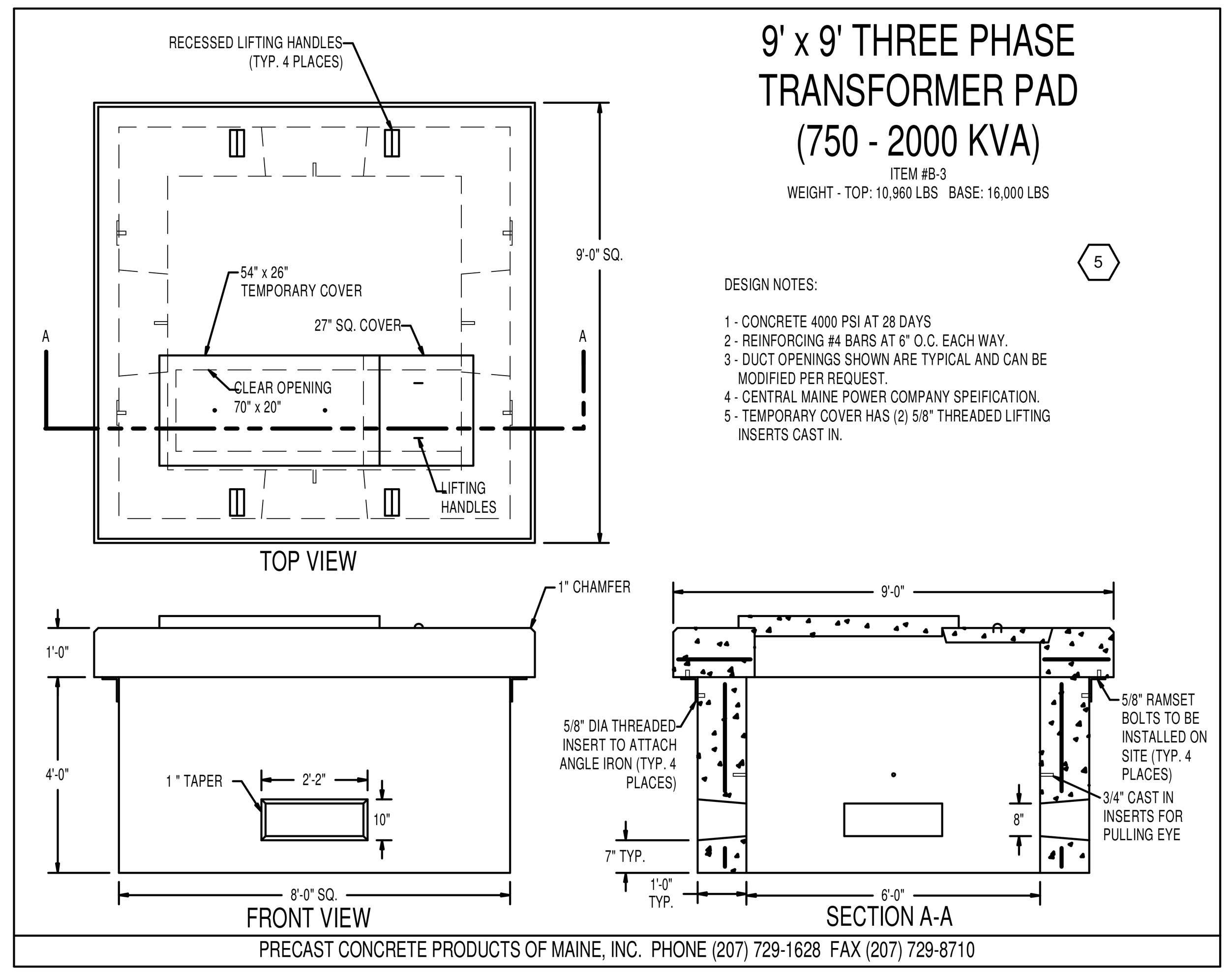
DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES2.01

Project Phase
BID DOCUMENTS



1 GENERATOR PAD GROUNDING DETAIL
NOT TO SCALE



DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.

3 CONTRACTOR SHALL COORDINATE EXACT CONDUIT STUB-UP QUANTITIES AND LOCATIONS WITH THE GENERATOR MANUFACTURER AND THE EQUIPMENT BEING PROVIDED.

4 CONDUIT SHALL ENTER THROUGH THE FOUNDATION LEVEL, AND SQUARE TO THE PENETRATION.

5 COVER FOR THE ELECTRIC SHALL BE CAST INDICATING "CMP CO." CONTRACTOR SHALL PROVIDE GROUNDING AROUND THE TRANSFORMER PAD(S) CONSISTING OF A #4/0 AWG BARE COPPER RING WITH SECTIONAL GROUND RODS (MINIMUM) TO ACHIEVE REQUIRED READINGS. ALL GROUNDING REQUIREMENTS SHALL BE TO CENTRAL MAINE POWER STANDARDS.

TRENCHING NOTES

1 CONTRACTOR SHALL USE EXTREME CAUTION WHEN TRENCHING. DIGGING TEST PITS ARE REQUIRED AT EVERY UTILITY CROSSING. THE MOST CRITICAL AREAS ARE INDICATED ON THE DRAWINGS. FAILURE TO PERFORM TEST PITS MAY RESULT IN UNNECESSARY DELAYS AND CONFLICTS FOR WHICH THE CONTRACTOR MAY BE HELD RESPONSIBLE.

2 TEST PITS SHALL BE COORDINATED WITH THE ENGINEER, AND ALL SHALL INCLUDE INFORMATION AS TO SIZE AND CONFIGURATION OF PIPES FOUND AS WELL AS INVERT ELEVATIONS.

3 TRENCH BOTTOM SHALL BE UNDISTURBED, FIRM, AND UNIFORM FOR ITS ENTIRE LENGTH.

4 KEEP THE TRENCH WIDTH AS NARROW AS POSSIBLE. THE SIDES OF THE CONCRETE DUCTBANKS SHALL BE FORMED VERTICAL OR SLIGHTLY INWARD TO MINIMIZE POTENTIAL FOR FROST HEAVING.

5 PLACE 2" LAYER OF SAND IN BOTTOM OF TRENCH AS BASE FOR CONCRETE PLACEMENT.

6 WHEN FINAL BACKFILLING IS PERFORMED, UTILIZE EXCAVATED MATERIAL. REMOVE ALL LARGE ROCKS, FOREIGN MATERIALS, ETC. TO AVOID DAMAGE TO CONDUITS.

7 ALL UNDERGROUND CONDUITS SHALL BE RIGID PVC SCHEDULE 40, BURIED IN SAND, UNLESS OTHERWISE INDICATED ON DRAWINGS. PROVIDE CONDUITS SIZE IN ACCORDANCE WITH THE CONDUIT SCHEDULE. ALL VERTICAL CONDUIT SWEEPS SHALL BE ASPHALTUM-COATED RIGID GALVANIZED STEEL (RGS). AT POLES, RGS SHALL EXTEND A MINIMUM OF 10' UP POLE BEFORE CHANGING TO SCHEDULE 40 PVC.

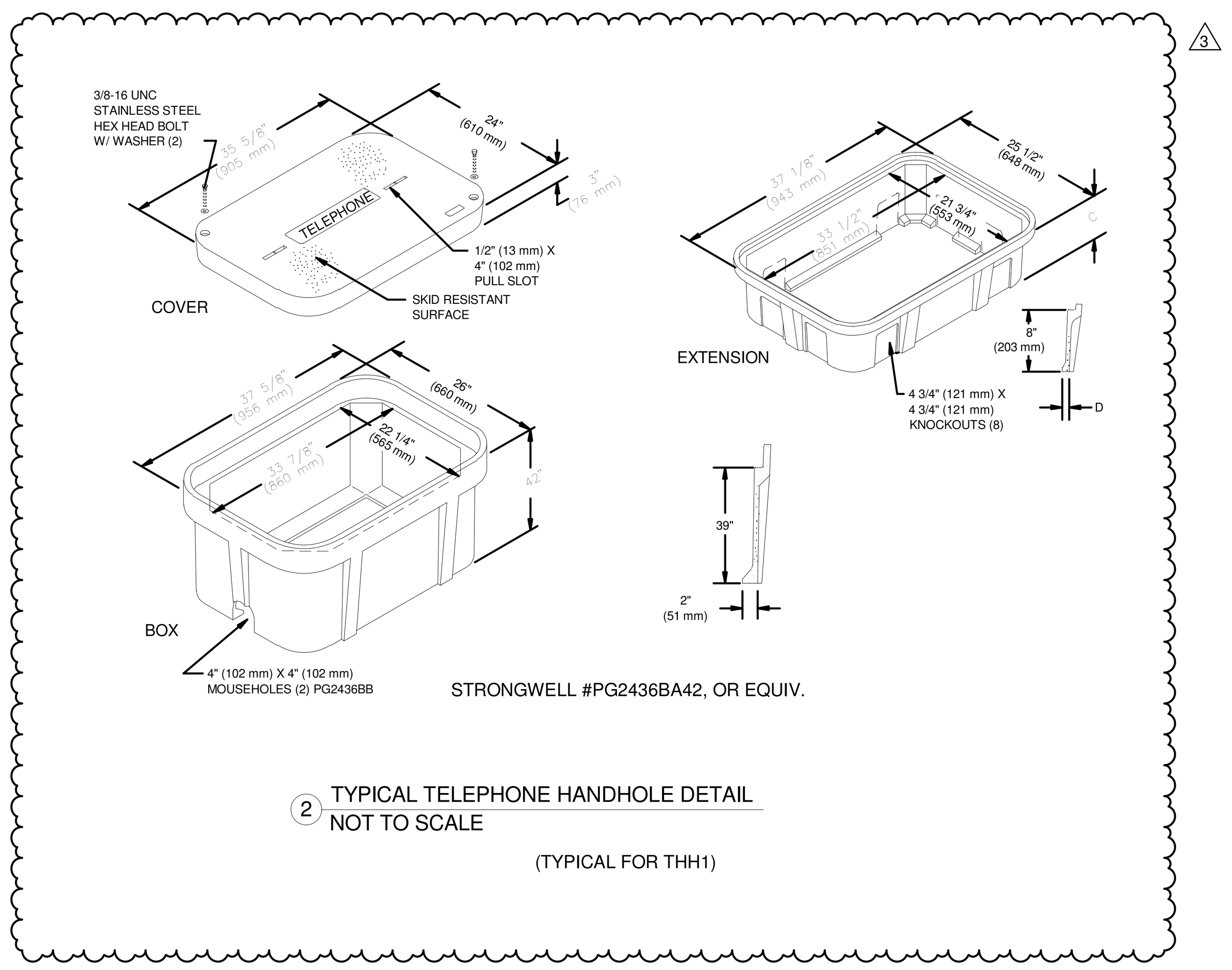
8 SEAL ALL CONDUIT JOINTS AND AROUND EACH CONDUIT AT WALL PENETRATIONS.

9 ALL DUCTS SHALL BE CAPPED DURING CONCRETE POURING AND LEFT CAPPED UNTIL CABLE PULLING BEGINS.

10 ALL CONDUIT SHALL BE SLOPED @ 3"/100' MINIMUM TO DRAIN.

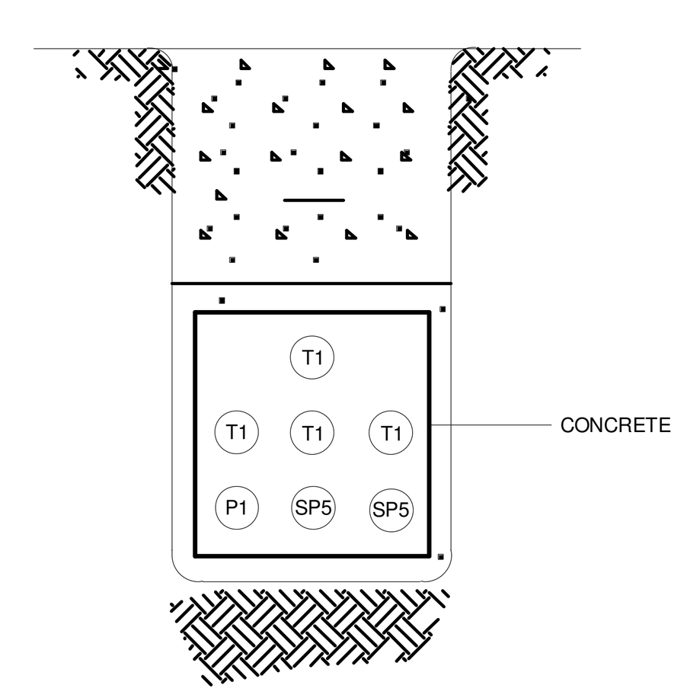
11 INDICATED DIMENSIONS FOR THE SPACING OF CONDUIT IN THE DUCT BANKS ARE MINIMUMS. INSTALL RIGID PLASTIC SPACERS AT INTERVALS OF 10'-0" OR LESS FOR DUCTBANKS ENCASED IN CONCRETE.

12 PROVIDE A MINIMUM OF 12" SEPARATION BETWEEN MEDIUM VOLTAGE CONDUITS AND TELECOMMUNICATIONS CONDUITS.

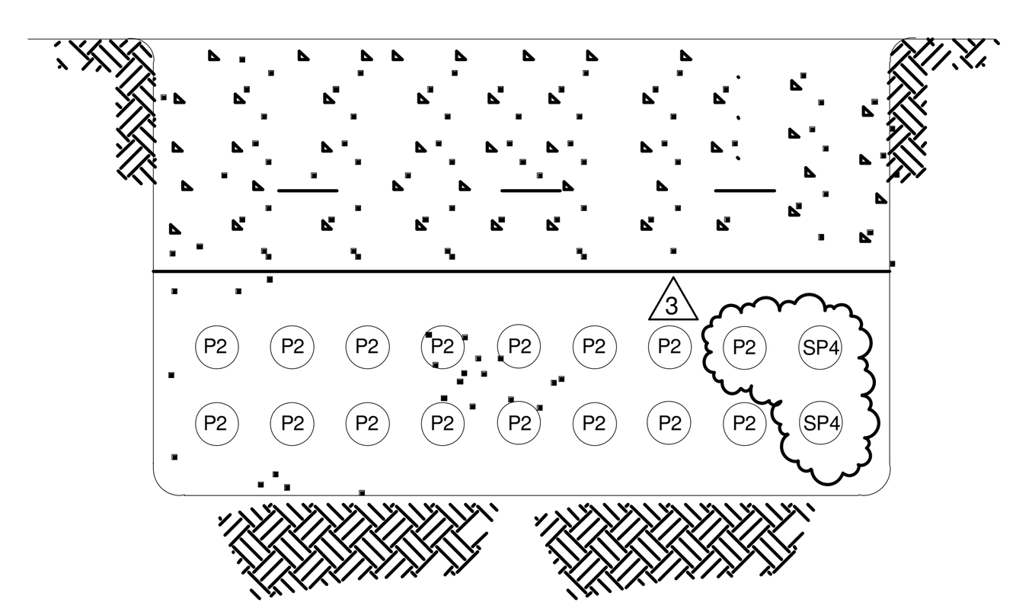


2 TYPICAL TELEPHONE HANDHOLE DETAIL
NOT TO SCALE

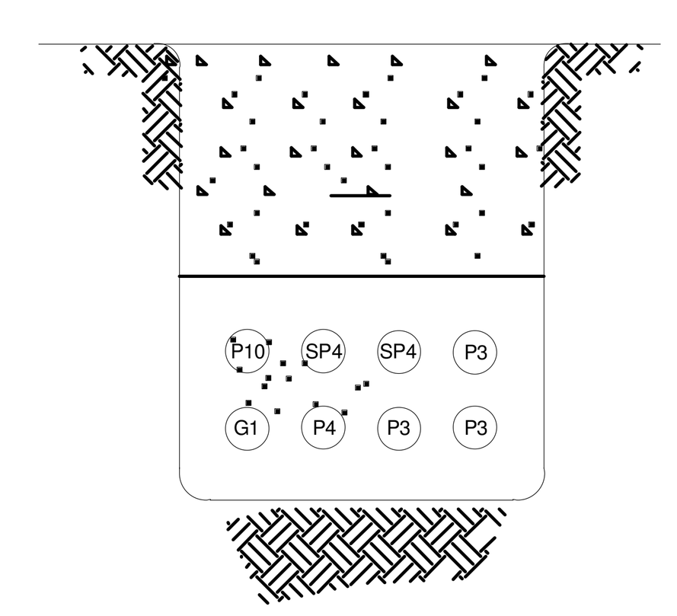
(TYPICAL FOR THH1)



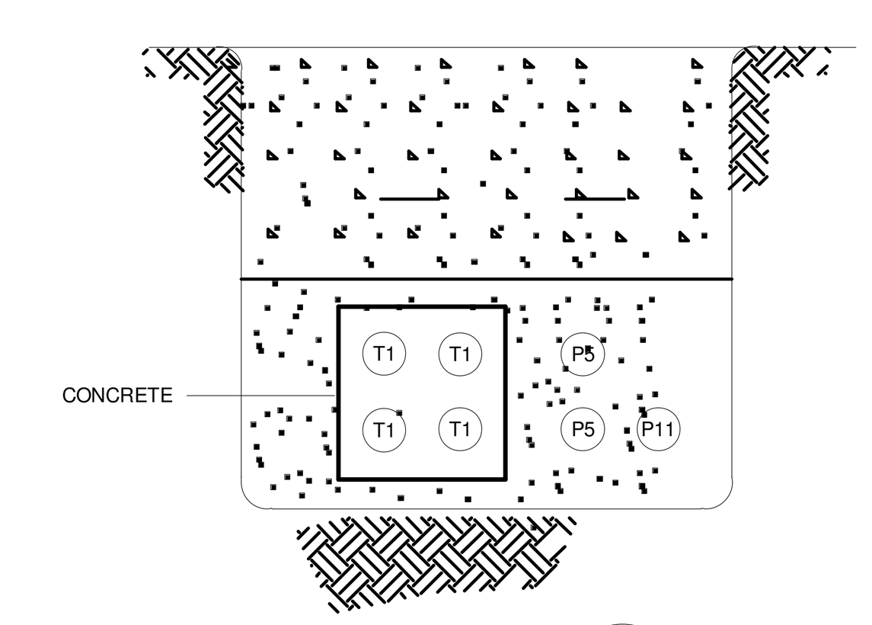
TRENCH DETAIL A
NOT TO SCALE



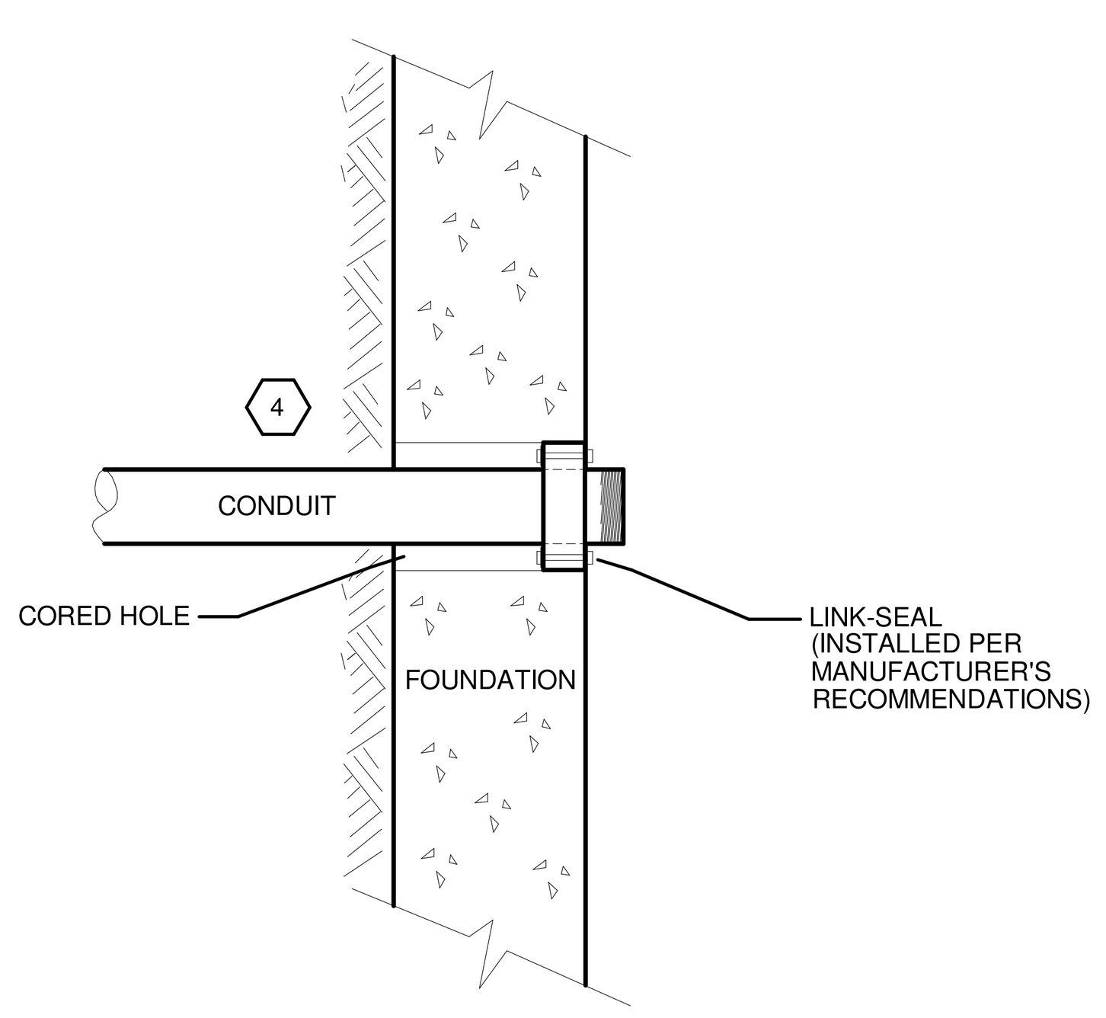
TRENCH DETAIL B
NOT TO SCALE



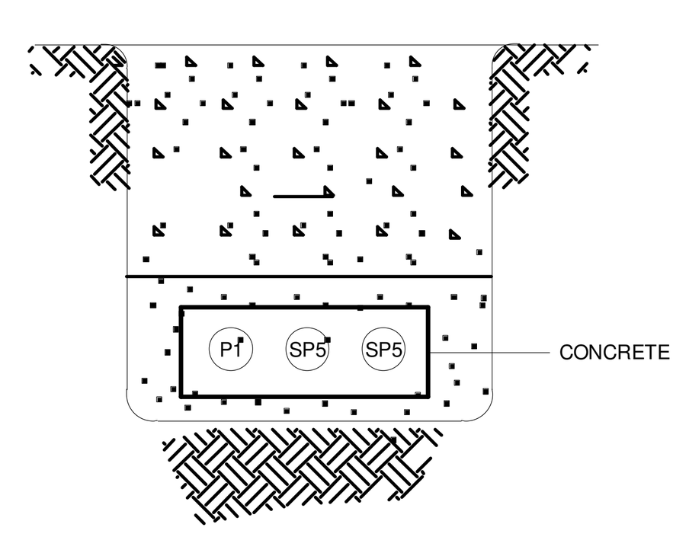
TRENCH DETAIL C
NOT TO SCALE



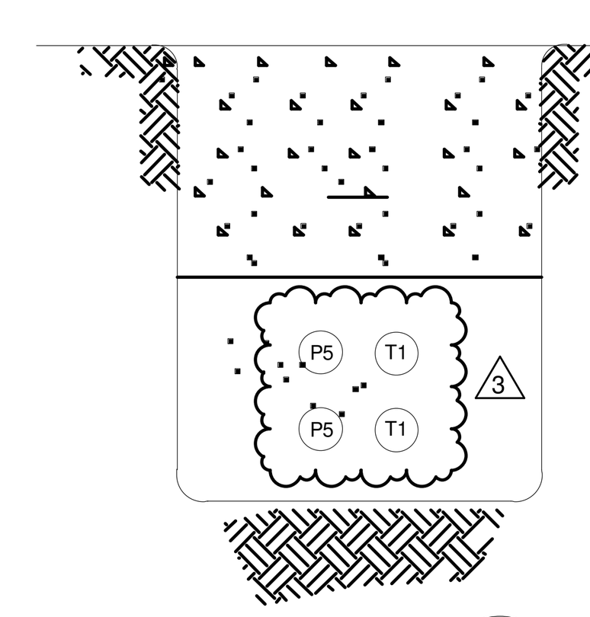
TRENCH DETAIL D
NOT TO SCALE



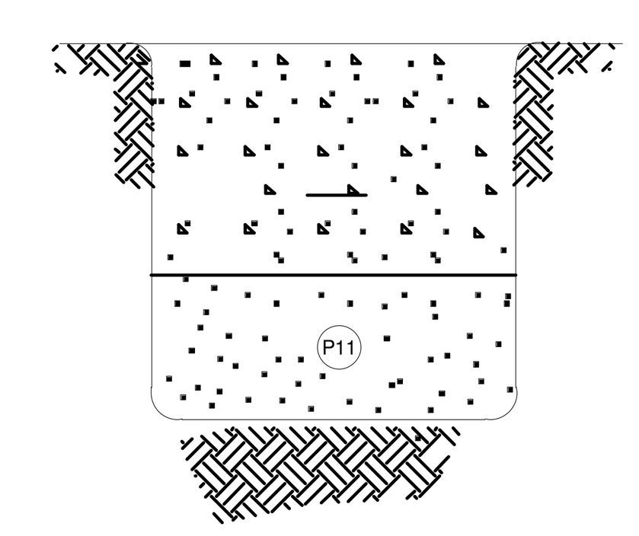
3 CONDUIT PENETRATING FOUNDATION DETAIL
NOT TO SCALE



TRENCH DETAIL E
NOT TO SCALE



TRENCH DETAIL F
NOT TO SCALE



TRENCH DETAIL G
NOT TO SCALE

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

CONTENT:
ELECTRICAL SITE DETAILS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

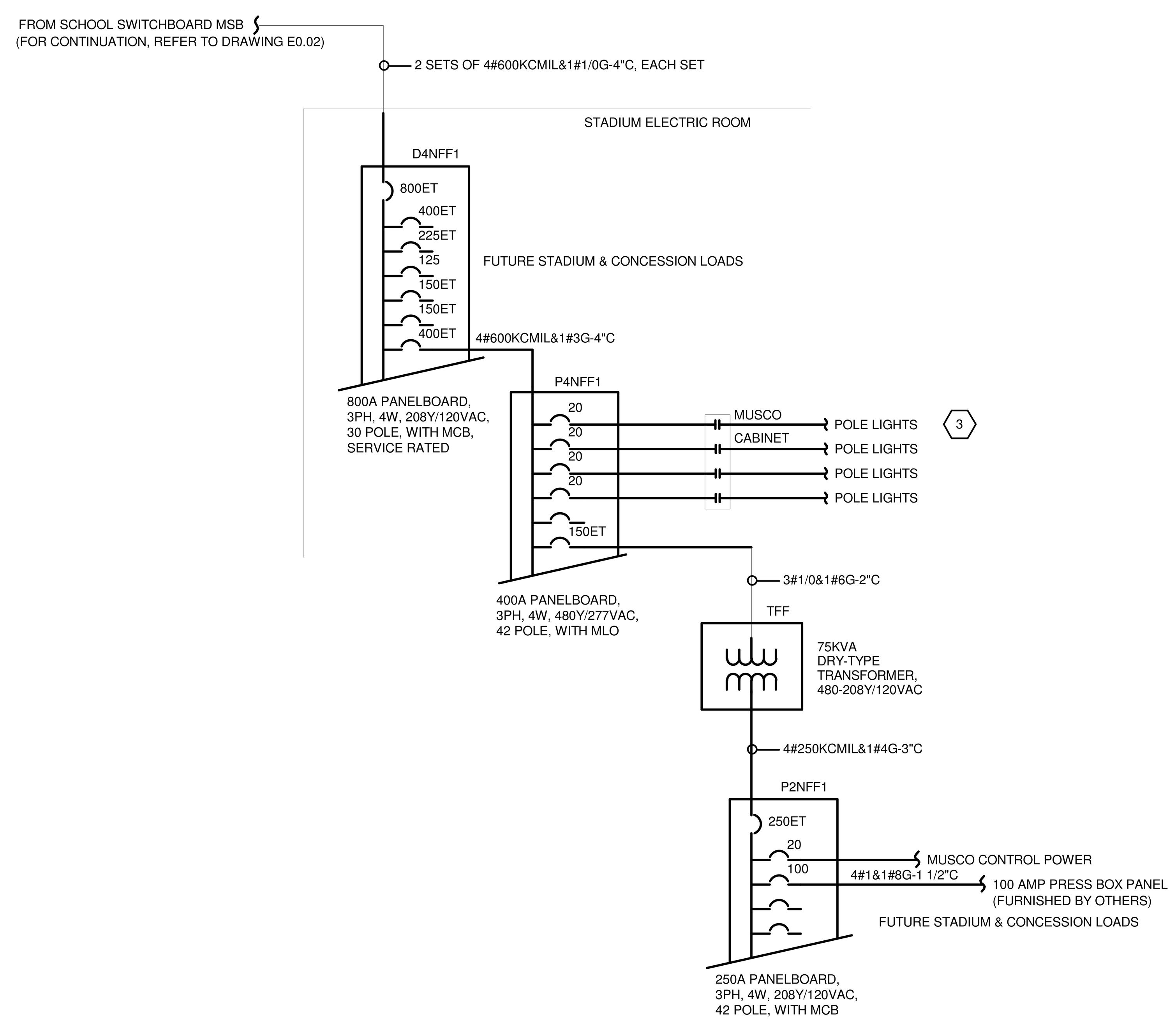
ES2.02

Project Phase
BID DOCUMENTS

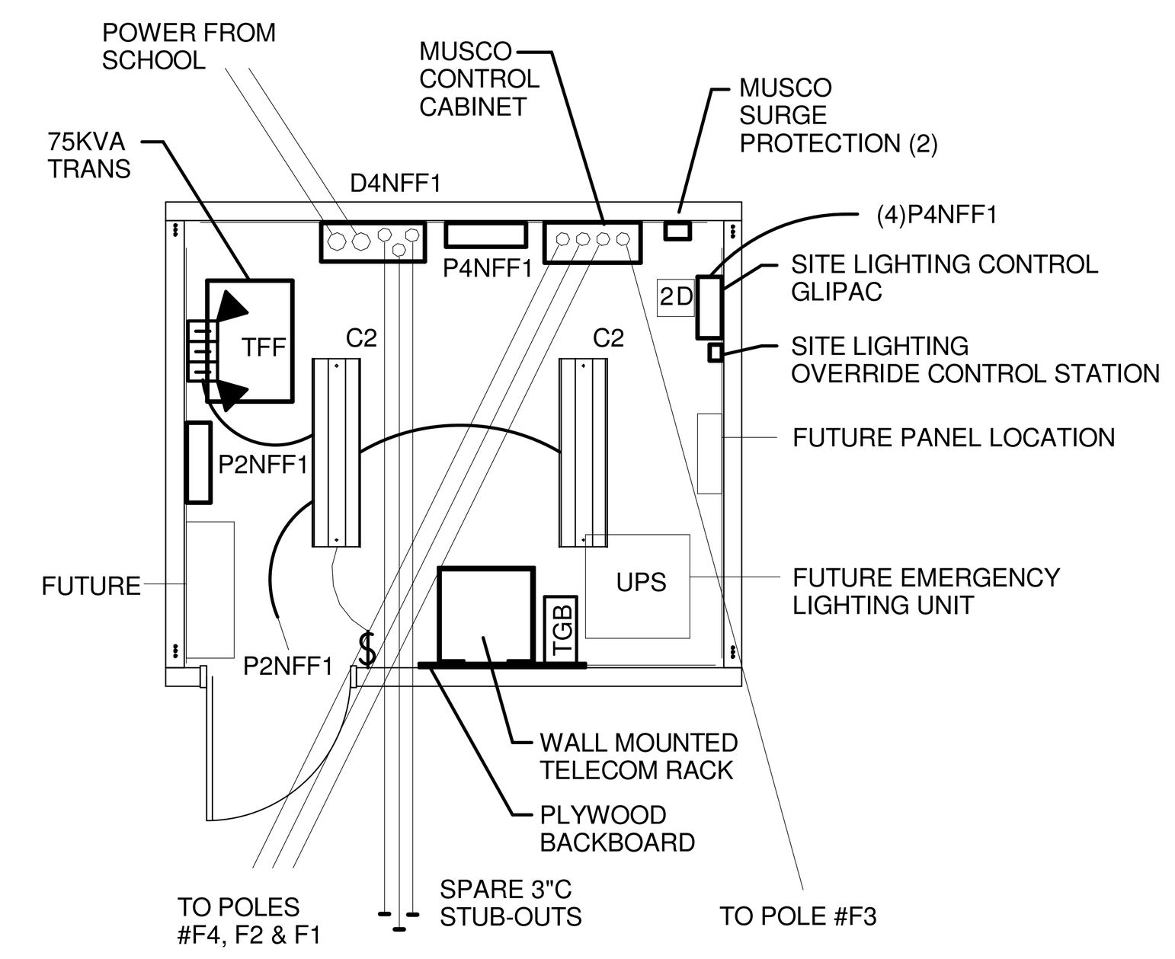
FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

DRAWING NOTES

1. THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.
2. REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING E0.01.
3. INSTALL MUSCO EQUIPMENT CONTACTOR AND CONTROL CABINETS, FURNISHED AS PART OF THE FIELD LIGHTING SYSTEM EQUIPMENT, AND PROVIDE ALL WIRING IN CONDUIT FOR A COMPLETE INSTALLATION.
4. FOR HANDHOLE LOCATIONS, SEE ELECTRICAL SITE PLANS, DRAWINGS ES1.01 TO ES1.14.



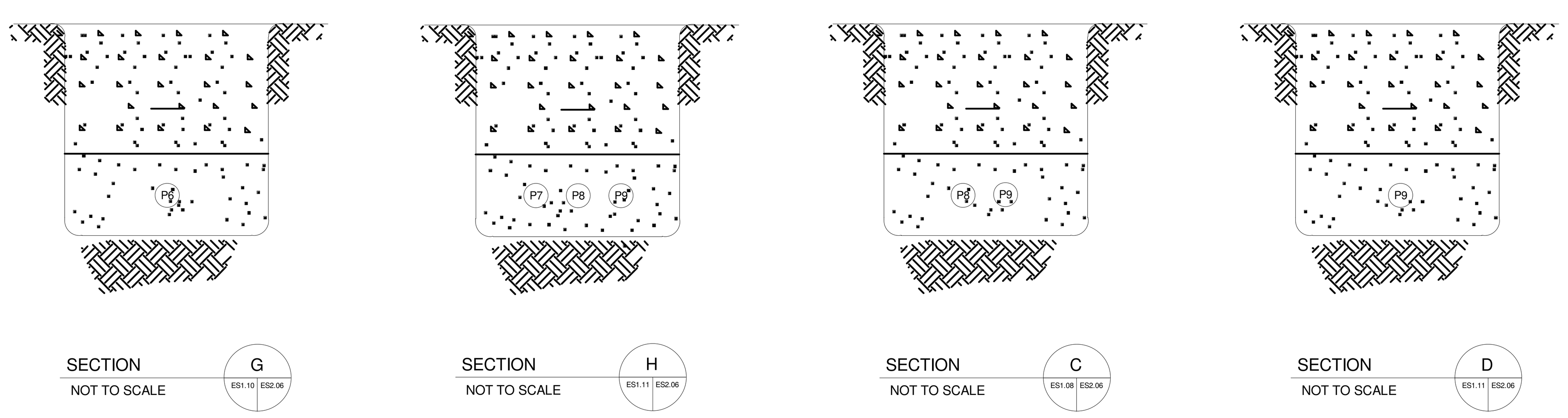
1 PROPOSED PARTIAL FOOTBALL FIELD STADIUM ONE-LINE DIAGRAM
NOT TO SCALE



2 STADIUM MAIN ELECTRICAL ROOM
1/4" = 1'-0"

(FOR ROOM LOCATION, REFER TO SITE DRAWING ES1.10)
(FOR MUSCO LIGHTING INFORMATION, REFER TO DRAWING ES2.05)

3

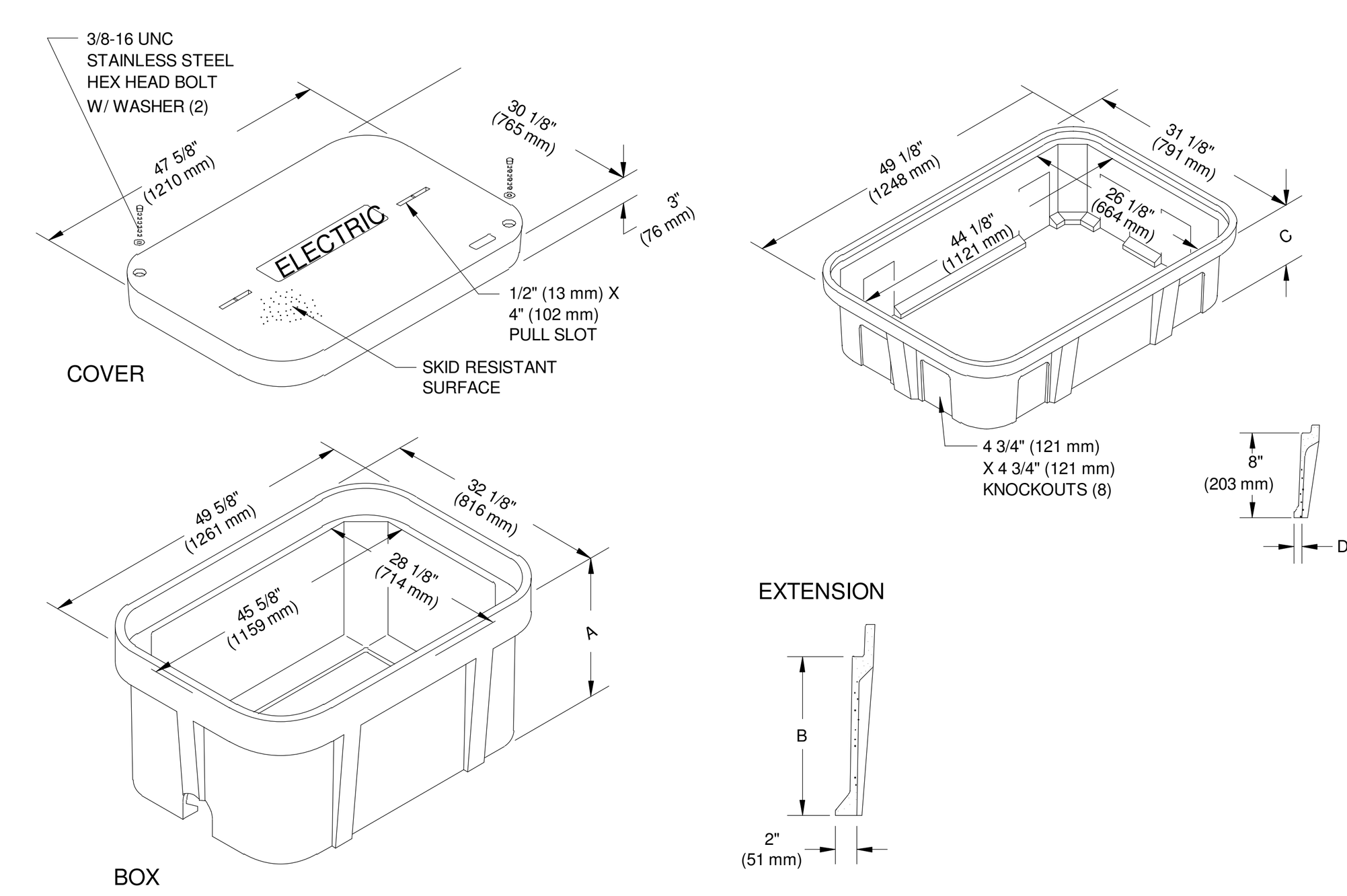


SECTION G
NOT TO SCALE

SECTION H
NOT TO SCALE

SECTION C
NOT TO SCALE

SECTION D
NOT TO SCALE



STRONGWELL #PG3048BA36, OR EQUIV.
(#PG3048HA00 COVER)

3 ELECTRICAL HANDHOLE DETAIL
NOT TO SCALE

4 (TYPICAL FOR EHH)

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
STADIUM LIGHTING DETAILS

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	AS NOTED

ES2.06

Project Phase
BID DOCUMENTS

C:\Users\cnn906\Desktop\DRAWINGS\REVIT MEP\7300 (2016 FORMAT)\7300 Central Elect 2016.rvt
3/4/2016 9:32:46 AM

DRAWING NOTES

1 THE FOLLOWING NOTES ONLY APPLY TO THIS DRAWING.

2 REFER TO GENERAL NOTES, ELECTRICAL TRADE NOTES, LEGEND AND ABBREVIATIONS ON DRAWING FA0.01.

3 FOR TYPICAL DEVICE LOCATIONS DETAIL, REFER TO DRAWING E5.01.

1 BASEMENT - FIRE ALARM PLAN
1/8" = 1'-0"

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

RFS engineering
Rist Frost Shumway Engineering, P.C.
NH: 71 Water St
Laconia, NH 03246
P: 603.524.4647
MA: 50 Milk St, 16th Floor
Boston, MA 02109
P: 617.494.1464
www.rfsengineering.com
RFS Project #: 7300.001

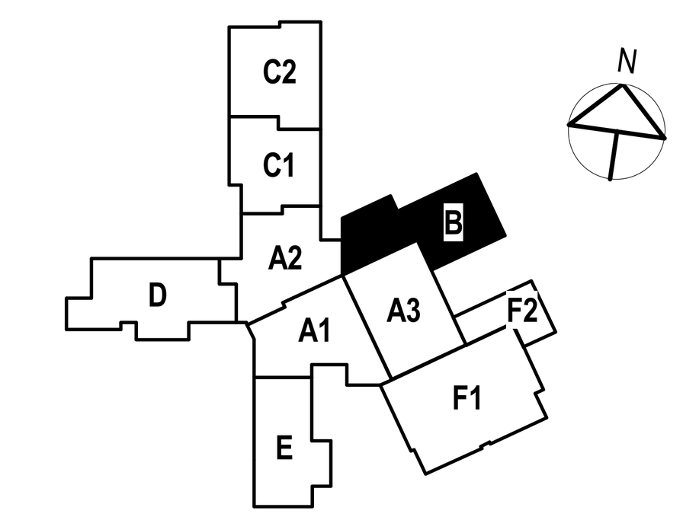
STATE OF MAINE
CHRISTOPHER M. SHUMWAY
No. 10820
LICENSED PROFESSIONAL ENGINEER

Sanford School Department and State of Maine Department of Education

SANFORD HIGH SCHOOL and TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	2016-03-04



FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:

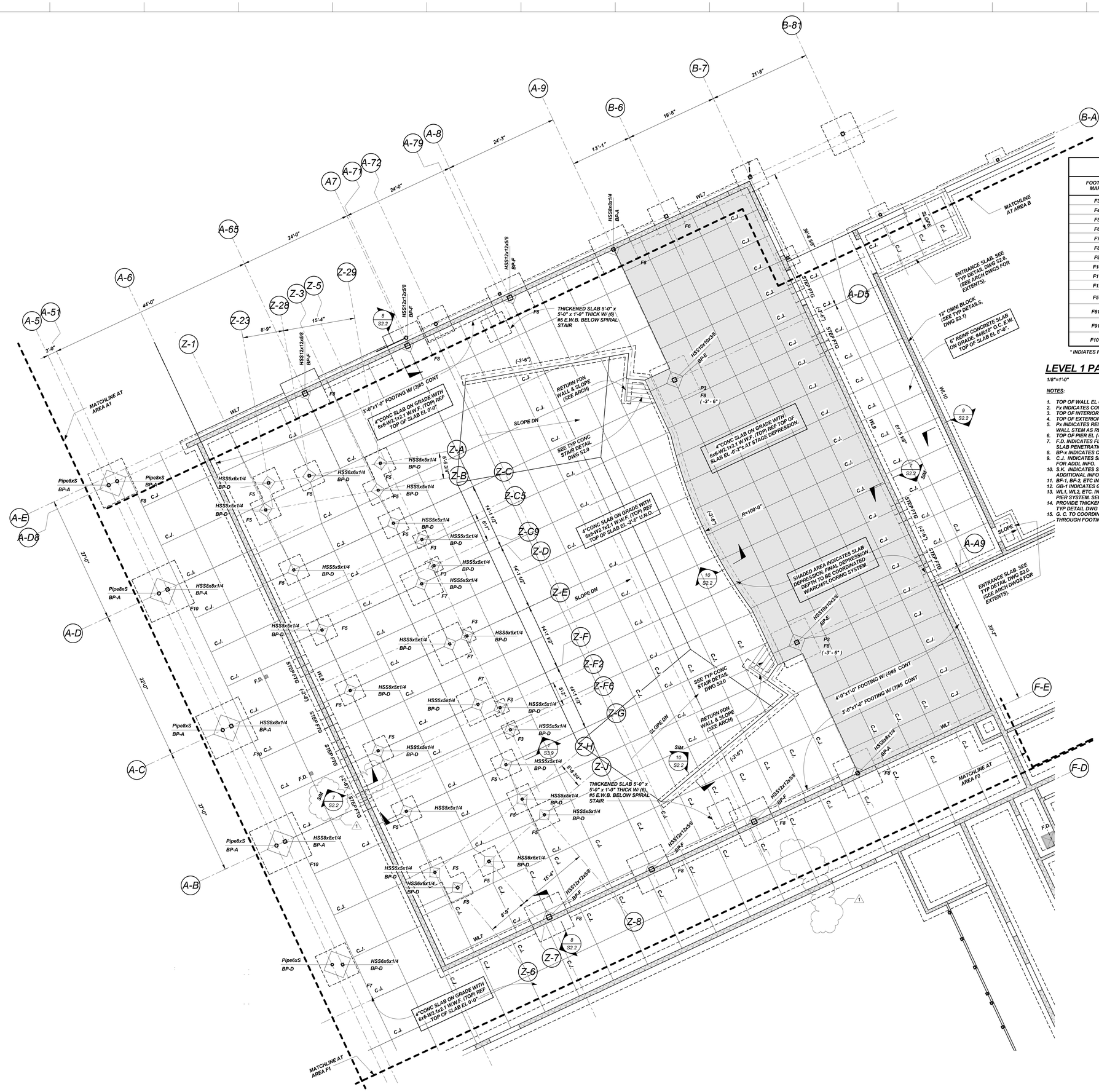
BASEMENT FIRE ALARM PLAN

DRAWN BY:	C. NEWELL
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

FA1.09

Project Phase

BID DOCUMENTS



FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

** INDIATES FOOTING W/ REINF TOP & BOTTOM.*

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. *TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.*
2. *Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.*
3. *TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.*
4. *TOP OF EXTERIOR FOOTING EL (-3'-10") U.N.O.*
5. *Px INDICATES REINF CONCRETE PIER. SEE PIER DETAILS DWG S2.3. NOTE: BOND OUT WALL STEM AS REQD FOR BASE PLATE. DO NOT BOND OUT BRICKSHELF.*
6. *TOP OF PIER EL (-0'-8") U.N.O.*
7. *F.D. INDICATES FLOOR DRAIN. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) & SLAB PENETRATIONS W/ARCH & MEP DWGS.*
8. *BP-x INDICATES COLUMN BASE PLATE. SEE DWG S3.1 FOR BASE PLATE DETAILS.*
9. *C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE TYP DETAILS DWG S2.1 FOR ADDL INFO.*
10. *S.K. INDICATES SHEAR KEY. SEE DETAIL A/S4.1& BASE PLATES DETAILS, DWG S3.1 FOR ADDITIONAL INFORMATION.*
11. *BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.*
12. *GB-1 INDICATES GRADE BEAM. SEE TYP DETAIL DWG S2.1.*
13. *WL1, WL2, ETC. INDICATES WALL LOCATIONS THAT REQUIRE THE RAMMED AGGREGATE PIER SYSTEM. SEE PLANS FOR LOCATIONS & DWG S01 FOR ADDL INFO.*
14. *PROVIDE THICKENED SLAB AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.*
15. *G. C. TO COORDINATE ALL PLUMBING WITH FOOTING ELEVATIONS. DO NOT SLEEVE THROUGH FOOTINGS.*

LAVALLEE BRENSINGER
ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

BECKER
STRUCTURAL ENGINEERS
75 York Street, Portland, Maine 04101
207.879.1838 ■ beckerstructural.com

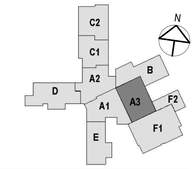
STATE OF MAINE — ETHAN A. RHILE — NO.10286 — REGISTERED PROFESSIONAL ENGINEER

SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
1	Addendum 3	03/04/16



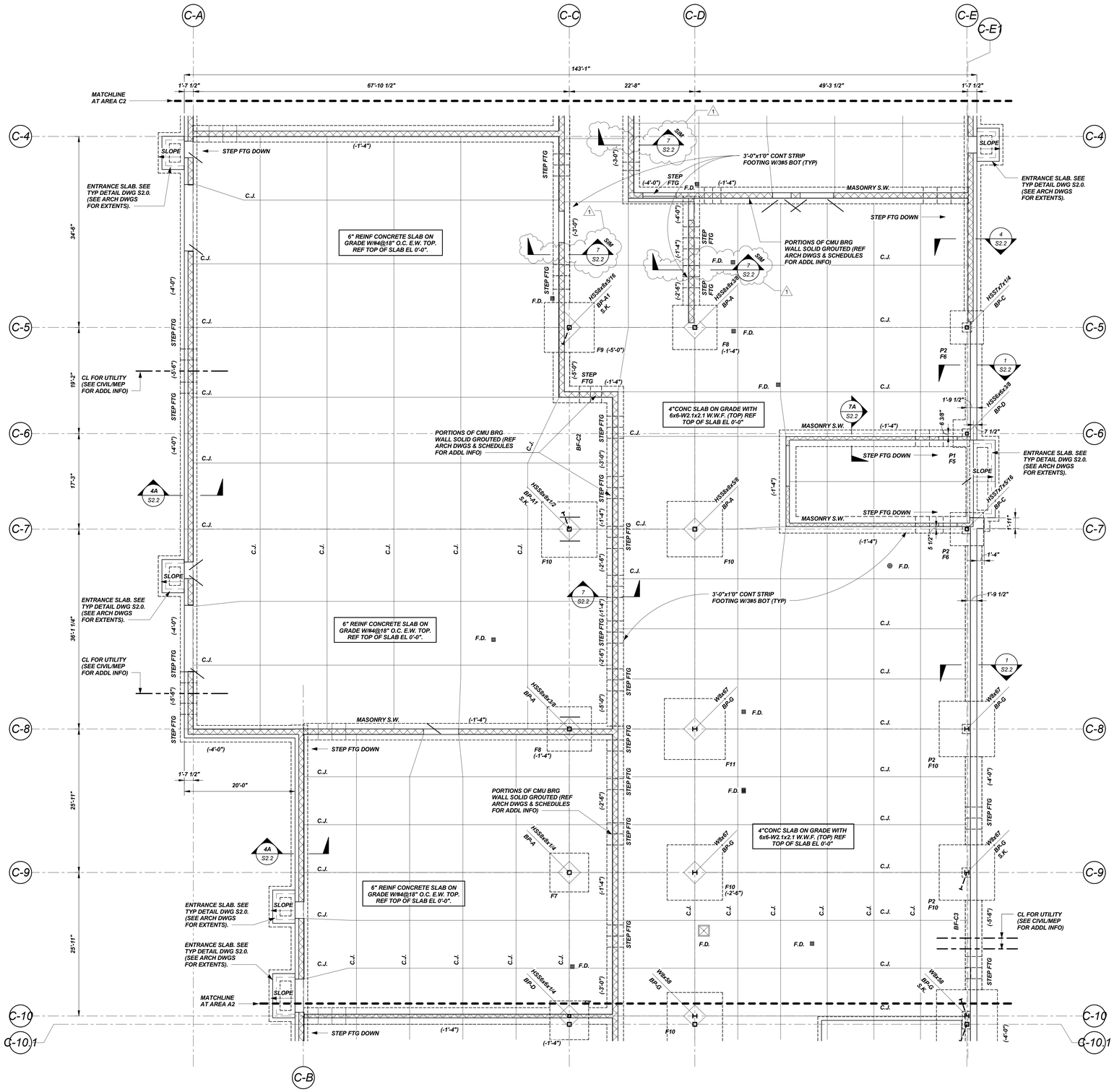
CONTENT: LEVEL 1 PART FOUNDATION PLAN - AREA A3

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.3

Project Phase: **POST CD ADDENDUMS & REVISIONS**

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.



FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

** INDIATES FOOTING W/ REINF TOP & BOTTOM.*

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.
4. TOP OF EXTERIOR FOOTING EL (-3'-10") U.N.O.
5. Px INDICATES REINF CONCRETE PIER. SEE PIER DETAILS DWG S2.3. NOTE: BOND OUT WALL STEM AS REQD FOR BASE PLATE. DO NOT BOND OUT BRICKSHELF.
6. TOP OF PIER EL (-0'-8") U.N.O.
7. F.D. INDICATES FLOOR DRAIN. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) & SLAB PENETRATIONS W/ARCH & MEP DWGS.
8. BP-x INDICATES COLUMN BASE PLATE. SEE DWG S3.1 FOR BASE PLATE DETAILS.
9. C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE TYP DETAILS DWG S2.1 FOR ADDL INFO.
10. S.K. INDICATES SHEAR KEY. SEE DETAIL A/S4.1& BASE PLATES DETAILS, DWG S3.1 FOR ADDITIONAL INFORMATION.
11. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
12. GB-1 INDICATES GRADE BEAM. SEE TYP DETAIL DWG S2.1.
13. WL1, WL2, ETC. INDICATES WALL LOCATIONS THAT REQUIRE THE RAMMED AGGREGATE PIER SYSTEM. SEE PLANS FOR LOCATIONS & DWG S01 FOR ADDL INFO.
14. PROVIDE THICKENED SLAB AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.
15. G. C. TO COORDINATE ALL PLUMBING WITH FOOTING ELEVATIONS. DO NOT SLEEVE THROUGH FOOTINGS.

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

BECKER STRUCTURAL ENGINEERS
75 York Street, Portland, Maine 04101
207.879.1838 ■ beckerstructural.com

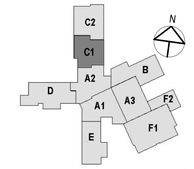
STATE OF MAINE — ETHAN A. RHILE — NO.10286 — REGISTERED PROFESSIONAL ENGINEER

SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
1	Addendum 3	03/04/16

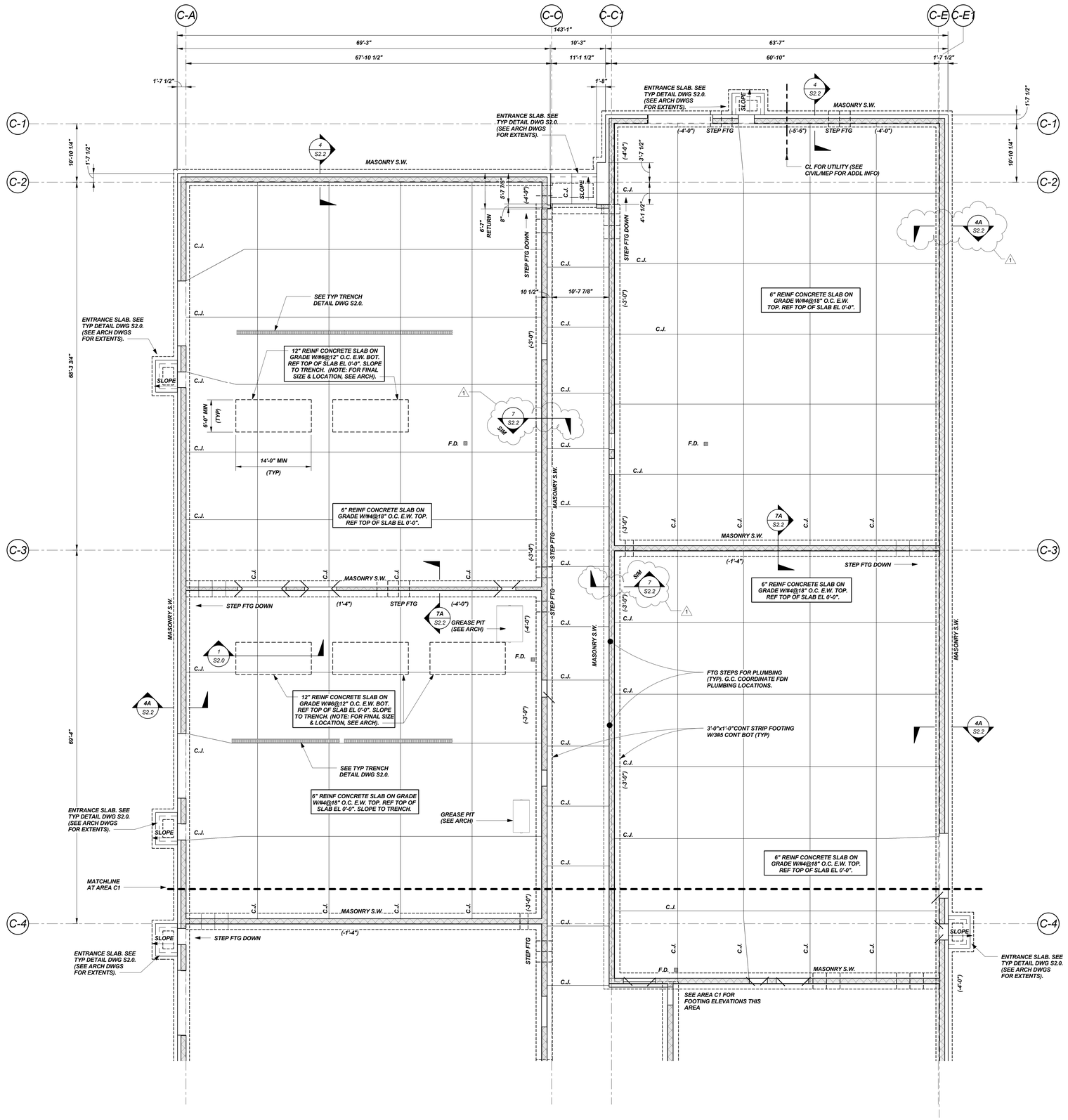


CONTENT: LEVEL 1 PART FOUNDATION PLAN - AREA C1

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.5

Project Phase: **POST CD ADDENDUMS & REVISIONS**



FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#8 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

* INDIATES FOOTING W/ REINF TOP & BOTTOM.

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.
4. TOP OF EXTERIOR FOOTING EL (-3'-10") U.N.O.
5. Px INDICATES REINF CONCRETE PIER. SEE PIER DETAILS DWG S2.3. NOTE: BOND OUT WALL STEM AS REQD FOR BASE PLATE. DO NOT BOND OUT BRICKSHELF.
6. TOP OF PIER EL (-0'-8") U.N.O.
7. F.D. INDICATES FLOOR DRAIN. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) & SLAB PENETRATIONS W/ARCH & MEP DWGS.
8. BP-x INDICATES COLUMN BASE PLATE. SEE DWG S3.1 FOR BASE PLATE DETAILS.
9. C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE TYP DETAILS DWG S2.1 FOR ADDL INFO.
10. S.K. INDICATES SHEAR KEY. SEE DETAIL A/S4.1& BASE PLATES DETAILS, DWG S3.1 FOR ADDITIONAL INFORMATION.
11. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
12. GB-1 INDICATES GRADE BEAM. SEE TYP DETAIL DWG S2.1.
13. WL1, WL2, ETC. INDICATES WALL LOCATIONS THAT REQUIRE THE RAMMED AGGREGATE PIER SYSTEM. SEE PLANS FOR LOCATIONS & DWG S01 FOR ADDL INFO.
14. PROVIDE THICKENED SLAB AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.
15. G. C. TO COORDINATE ALL PLUMBING WITH FOOTING ELEVATIONS. DO NOT SLEEVE THROUGH FOOTINGS.

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101 603.622.5450
305 Commercial Street, Portland, ME 04101 207.558.7200
www.LBPA.com

BECKER STRUCTURAL ENGINEERS
75 York Street, Portland, Maine 04101
207.879.1838 ■ beckerstructural.com

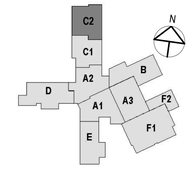
STATE OF MAINE — ETHAN A. RHILE — NO.10286 — REGISTERED PROFESSIONAL ENGINEER

SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
1	Addendum 3	03/04/16



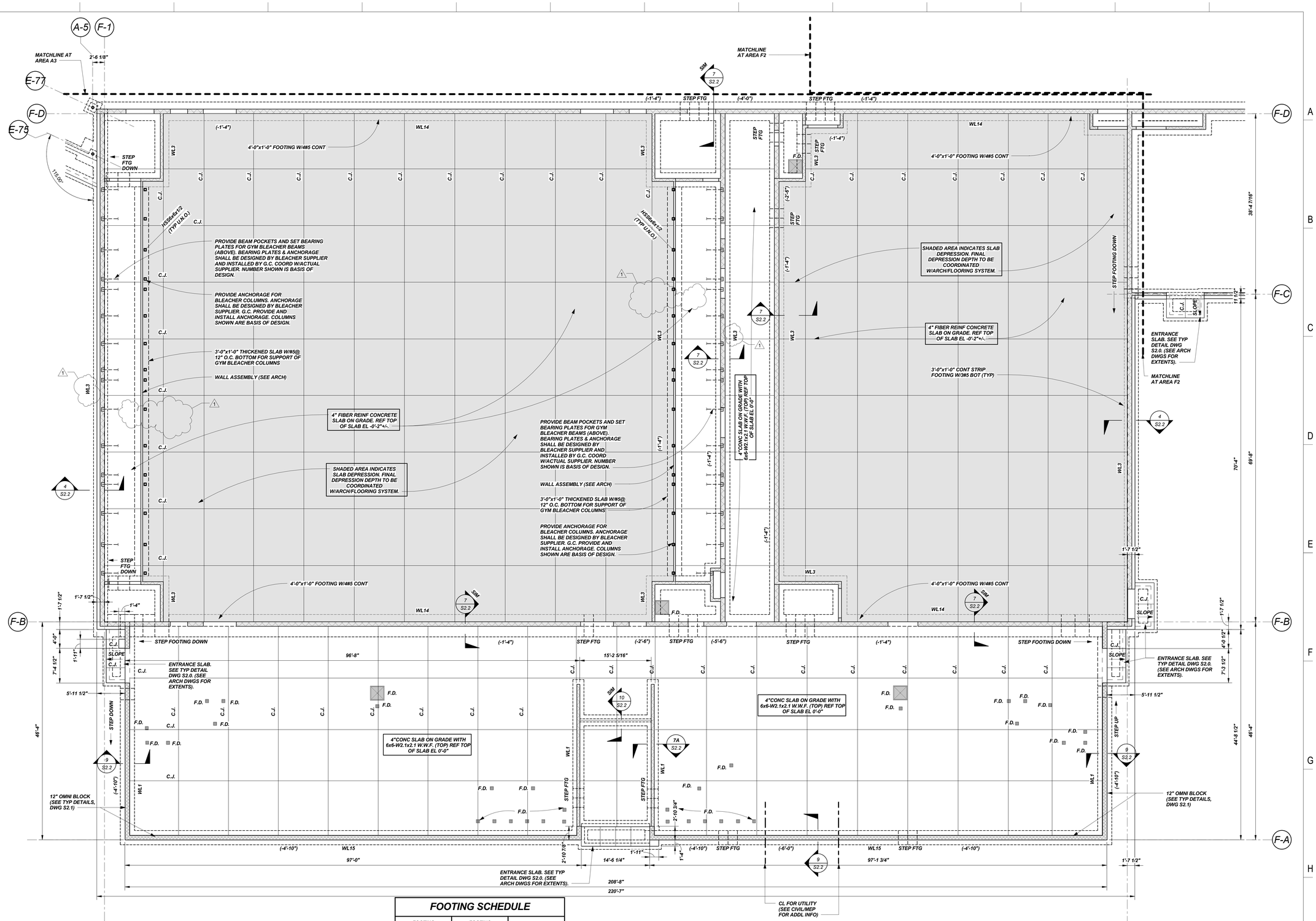
CONTENT: LEVEL 1 PART FOUNDATION PLAN - AREA C2

DRAWN BY: BSE
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: As indicated

S1.6

Project Phase: POST CD ADDENDUMS & REVISIONS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.



FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

* INDIATES FOOTING W/ REINF TOP & BOTTOM.

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.
4. TOP OF EXTERIOR FOOTING EL (-3'-10") U.N.O.
5. Px INDICATES REINF CONCRETE PIER. SEE PIER DETAILS DWG S2.3. NOTE: BOND OUT WALL STEM AS REQD FOR BASE PLATE. DO NOT BOND OUT BRICKSHELF.
6. TOP OF PIER EL (-0'-8") U.N.O.
7. F.D. INDICATES FLOOR DRAIN. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) & SLAB PENETRATIONS W/ARCH & MEP DWGS.
8. BP-x INDICATES COLUMN BASE PLATE. SEE DWG S3.1 FOR BASE PLATE DETAILS.
9. C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE TYP DETAILS DWG S2.1 FOR ADDL INFO.
10. S.K. INDICATES SHEAR KEY. SEE DETAIL A/S4.1& BASE PLATES DETAILS, DWG S3.1 FOR ADDITIONAL INFORMATION.
11. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
12. GB-1 INDICATES GRADE BEAM. SEE TYP DETAIL DWG S2.1.
13. WL1, WL2, ETC. INDICATES WALL LOCATIONS THAT REQUIRE THE RAMMED AGGREGATE PIER SYSTEM. SEE PLANS FOR LOCATIONS & DWG S01 FOR ADDL INFO.
14. PROVIDE THICKENED SLAB AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.
15. G. C. TO COORDINATE ALL PLUMBING WITH FOOTING ELEVATIONS. DO NOT SLEEVE THROUGH FOOTINGS.

LAVALLEE BRENSINGER
ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
603.622.5450
305 Commercial Street, Portland, ME 04101
207.558.7200
www.LBPA.com

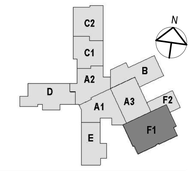
BECKER
STRUCTURAL ENGINEERS
75 York Street, Portland, Maine 04101
207.879.1838 ■ beckerstructural.com
STATE OF MAINE ETHAN A. RHILE NO.10266 REGISTERED PROFESSIONAL ENGINEER

SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE
1	Addendum 3	03/04/16



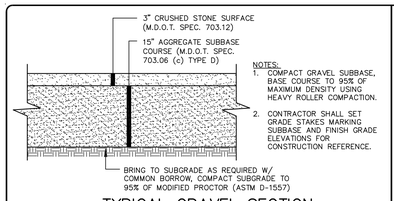
CONTENT: LEVEL 1 PART FOUNDATION PLAN - AREA F1

DRAWN BY: BSE
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: As indicated

S1.9

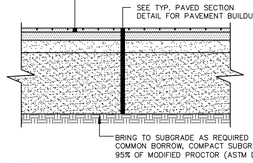
Project Phase
POST CD ADDENDUMS & REVISIONS

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.



TYPICAL GRAVEL SECTION

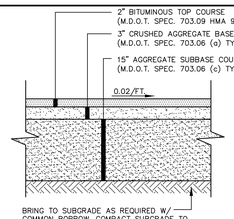
NOT TO SCALE



NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SHALL BE COMPACTED TO 92% TO 97% OF ITS THEORETICAL MAXIMUM DENSITY AS DETERMINED BY ASTM D-2041.
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

TYP. STAMPED PAVEMENT SECTION

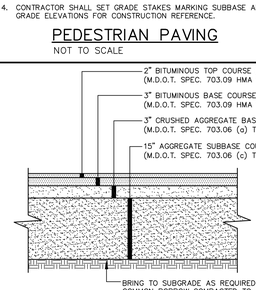
NOT TO SCALE



NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

PEDESTRIAN PAVING

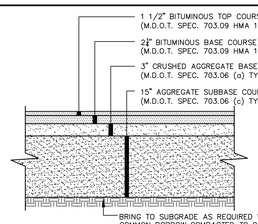
NOT TO SCALE



NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.
5. SEE SITE PLANS FOR SUPERPAVE PAVEMENT AREAS.

SUPERPAVE HEAVY DUTY PAVEMENT AREA

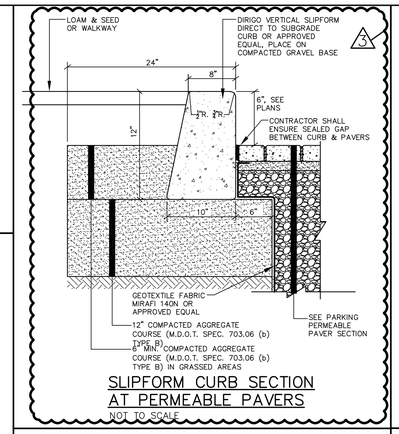
NOT TO SCALE



NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

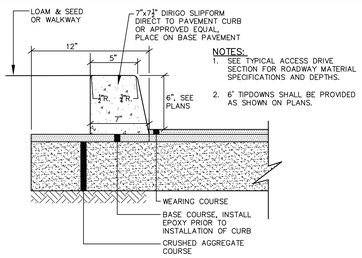
PARKING AREA PAVING SECTION

NOT TO SCALE



SLIPFORM CURB SECTION AT PERMEABLE PAVERS

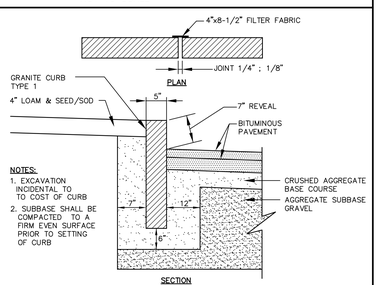
NOT TO SCALE



NOTES:
1. SEE TYPICAL ACCESS DRIVE SECTION FOR ROADWAY MATERIAL SPECIFICATIONS AND DEPTHS.
2. 6" TIPDOWNS SHALL BE PROVIDED AS SHOWN ON PLANS.

SLIPFORM CURB SECTION

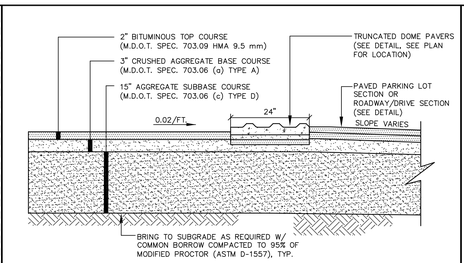
NOT TO SCALE



NOTES:
1. EXCAVATION INCIDENTAL TO TO COST OF CURB
2. SUBBASE SHALL BE COMPACTED TO A FIRM EVEN SURFACE PRIOR TO SETTING OF CURB

VERTICAL GRANITE CURB

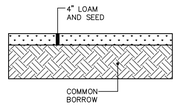
NOT TO SCALE



NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

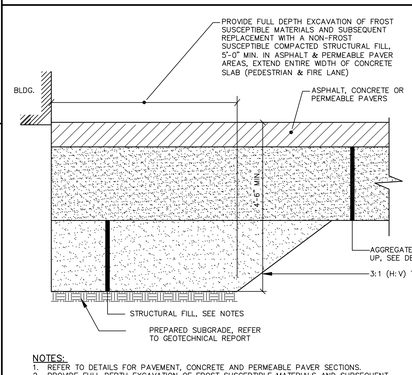
SIDEWALK @ TRUNCATED DOMES

NOT TO SCALE



LOAM AND SEED SECTION

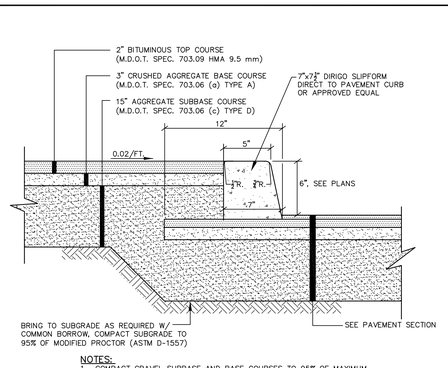
NOT TO SCALE



NOTES:
1. REFER TO DETAILS FOR PAVEMENT, CONCRETE AND PERMEABLE PAVER SECTIONS.
2. PROVIDE FULL DEPTH EXCAVATION OF FROST SUSCEPTIBLE MATERIALS AND SUBSEQUENT REPLACEMENT WITH A NON-FROST SUSCEPTIBLE COMPACTED STRUCTURAL FILL. STRUCTURAL FILL DEPTH SHALL BE MIN. 4.5' FROM FINISHED GRADE, REFER TO GEOTECHNICAL REPORT.

PAVEMENT SECTION @ BUILDING

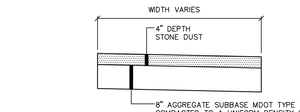
NOT TO SCALE



NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

PEDESTRIAN WALK W/ CURB

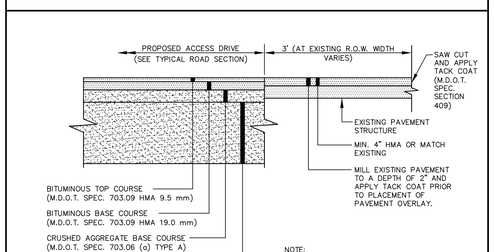
NOT TO SCALE



NOTE:
EXISTING SUBBASE MATERIAL MAY BE SUITABLE DUE TO ONSITE GRAVELS. VERIFY SUB-SURFRACE CONDITIONS AND NOTIFY ENGINEER.

STONE DUST FOOTPATH

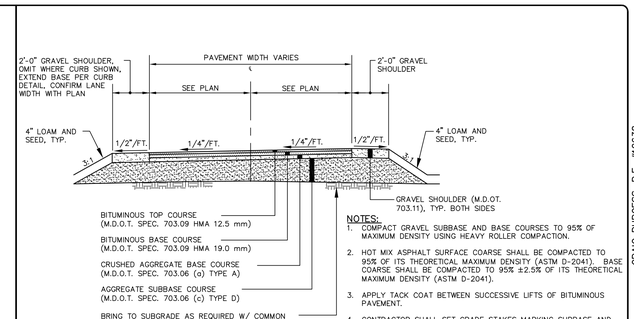
NOT TO SCALE



NOTE:
SEE PAVEMENT SECTION DETAILS FOR PAVEMENT AND GRAVEL DEPTHS.

TYPICAL PAVEMENT JOINT AT PUBLIC R.O.W.

NOT TO SCALE

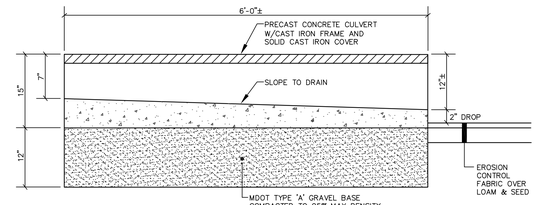


NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.
5. SEE ROADWAY PAVING SECTION FOR BITUMINOUS AND AGGREGATE DEPTHS.

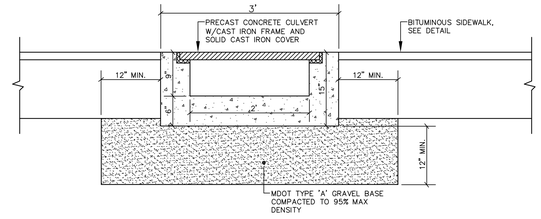
SUPERELEVATION TRANSITION TABLE					
SUPERELEVATION #	RUNOUT START (-2%-0%)	RUNOFF START/RUNOFF END (0%-2%)	FULL SUPERELEVATION (2%)	RUNOFF END/ RUNOFF START (2%-0%)	RUNOUT END (0%-2%)
1	3+20.00	3+55.00	3+90.00 - 10+55.00	10+90.00	11+25.00
2	12+62.96	12+97.96	12.02.96 - 18+51.91	18+86.91	19+21.91
3	31+77.36	32+12.36	32+47.36 - 39+30.00	39+65.00	40+00.00

SUPERELEVATED ACCESS DRIVE SECTION

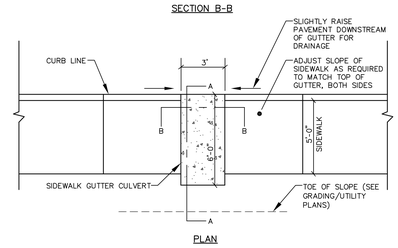
NOT TO SCALE



SECTION A-A



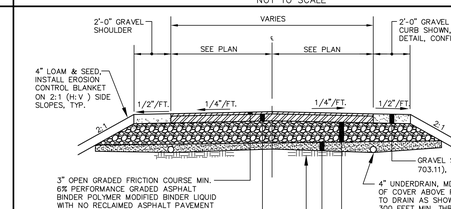
SECTION B-B



PLAN

SIDEWALK GUTTER DETAIL (MAYFLOWER DR.)

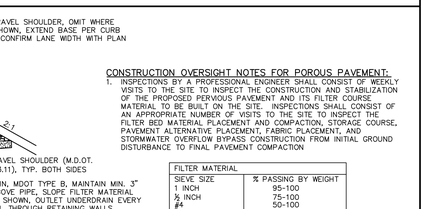
NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.
2. POROUS PAVEMENT SECTION SHALL BE CONSTRUCTED PER MDOT SPECIAL PROVISION 404 - ASPHALT TREATED PERMEABLE BASE.

POROUS PAVEMENT SECTION, STA. 41+20 TO STA. 54+63

NOT TO SCALE



NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.
5. SEE GRADING PLANS FOR ROADSIDE DITCH LOCATIONS.

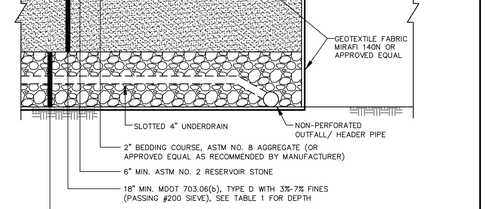
TYPICAL ROADWAY/DRIVE SECTION

NOT TO SCALE

CONSTRUCTION OVERSIGHT NOTES FOR POROUS PAVEMENT:
1. INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE CONSTRUCTION AND STABILIZATION OF THE PROPOSED PERVIOUS PAVEMENT AND ITS FILTER COURSE MATERIAL TO BE BUILT ON THE SITE. INSPECTIONS SHALL CONSIST OF AN APPROPRIATE NUMBER OF VISITS TO THE SITE TO INSPECT THE FILTER BED MATERIAL PLACEMENT AND COMPACTION, STORAGE COURSE, PAVEMENT ALTERNATIVE PLACEMENT, FABRIC PLACEMENT, AND STORMWATER OVERFLOW BYPASS CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO FINAL PAVEMENT COMPACTION

FILTER MATERIAL	
SIEVE SIZE	% PASSING BY WEIGHT
1 INCH	95-100
½ INCH	75-100
#4	50-100
#20	15-80
#50	0-15
#200	0-5
RESERVOIR STONE	
SIEVE SIZE	% PASSING BY WEIGHT
2½ INCH	100
2 INCH	95-100
1 INCH	0-30
¾ INCH	0-5

NOTE: PERCENT LOSS SHALL NOT EXCEED 25, WHEN TESTING IN ACCORDANCE TO AASHTO T96

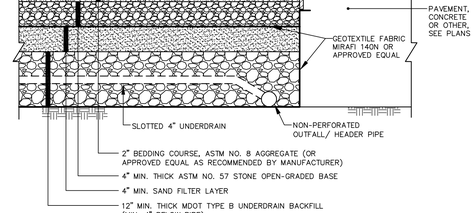


CONSTRUCTION OVERSIGHT NOTES FOR PERMEABLE PAVERS:
1. INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE CONSTRUCTION AND STABILIZATION OF THE PROPOSED PERVIOUS PAVER SYSTEM AND ITS FILTER COURSE MATERIAL TO BE BUILT ON THE SITE. INSPECTIONS SHALL CONSIST OF AN APPROPRIATE NUMBER OF VISITS TO THE SITE TO INSPECT THE FILTER BED MATERIAL PLACEMENT AND COMPACTION, STORAGE COURSE, PAVEMENT ALTERNATIVE PLACEMENT, FABRIC PLACEMENT AND STORMWATER OVERFLOW BYPASS CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO FINAL PAVER PLACEMENT

NOTES:
1. PAVERS SHALL BE "STORMWATER BRICK" PERMEABLE INTERLOCKING CONCRETE PAVERS 4"x8"x3-1/8" BY GENEST CONCRETE, PAVEDRAIN BY ACF ENVIRONMENTAL OR APPROVED EQUAL.
2. SEE SPECS. FOR PAVER COLOR, INSTALLATION PATTERN AND LOCATION
3. THE SAND LAYER SHALL BE MINERAL SOIL WITH BETWEEN 4% AND 7% FINES PASSING THE #200 SIEVE.
4. BRING TO SUBGRADE AS REQUIRED WITH COMMON BORROW. COMPACT SUBGRADE TO 95% OF MODIFIED PROCTOR (ASTM D-1557). REFER TO GEOTECHNICAL REPORT.

PARKING PERMEABLE PAVERS SECTION

NOT TO SCALE



NOTES:
1. PAVERS SHALL BE "STORMWATER BRICK" PERMEABLE INTERLOCKING CONCRETE PAVERS 4"x8"x3-1/8" BY GENEST CONCRETE OR APPROVED EQUAL.
2. SEE SPECS. FOR PAVER COLOR, INSTALLATION PATTERN AND LOCATION
3. THE SAND LAYER SHALL BE MINERAL SOIL WITH BETWEEN 4% AND 7% FINES PASSING THE #200 SIEVE.
4. BRING TO SUBGRADE AS REQUIRED WITH COMMON BORROW. COMPACT SUBGRADE TO 95% OF MODIFIED PROCTOR (ASTM D-1557). REFER TO GEOTECHNICAL REPORT.

WALKWAY PERMEABLE PAVERS SECTION

NOT TO SCALE

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
REGISTERED PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

	REV.:	BY:	DATE:	STATUS:
A	CAB		03-04-16	ISSUED FOR ADDENDUM 3
J	CAB		02-11-16	BID DOCUMENTS
I	CAB		12-18-15	CONSTRUCTION DOCUMENTS
H	CAB		11-20-15	REVISED PER CITY COMMENTS & REISSUED
G	CAB		11-17-15	REVISED PER CITY COMMENTS & REISSUED
F.	CAB		11-12-15	ISSUED FOR 85%
E.	CAB		10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL

DETAILS
OF: SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR: SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 4A
South Portland, ME 04106
Tel: 207-200-2100
250 Goddard Rd.
Lewiston, ME 04240
Tel: 207-783-3638

PROJECT NO.	SCALE
12233	NTS

SHEET C660 FC75

122330.dwg, TAB 05

FORM F 12233

SOIL PROFILE/CLASSIFICATION INFORMATION

Detailed Description of Subsurface Conditions at Project Sites

Project Name:	Applicant Name:	Project Location (municipality):
MAIN STREET PARCEL	SANFORD SCHOOL DEPARTMENT	SANFORD

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: **TP-101** ■ Test Pit ☐ Boring

0-1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
SANDY LOAM		10YR 3/3	
		DARK BROWN	
		10YR 4/6	
LOAMY SAND		DARK YELLOWISH BROWN	
			NONE
	FRIABLE		OBSERVED
		2.5Y 6/3	
FINE SAND		LIGHT YELLOWISH BROWN	
GRAVELLY SAND		2.5Y 5/3 LIGHT OLIVE BROWN	

LIMIT OF EXCAVATION = 72"

hydric	Slope %	Limiting factor	ground water
■ non-hydric	0-3	>72"	☐ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: **ADAMS** | **SWED** Drainage Class | **A** Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: **TP-102** ■ Test Pit ☐ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		10YR 4/4	
GRAVELLY LOAMY SAND	FRIABLE	DARK YELLOWISH BROWN	
			NONE
			OBSERVED
GRAVELLY COARSE SAND	LOOSE	2.5Y 5/3 LIGHT OLIVE BROWN	

LIMIT OF EXCAVATION = 72"

hydric	Slope %	Limiting factor	ground water
■ non-hydric	3-8	>72"	☐ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: **COLTON** | **ED** Drainage Class | **A** Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: **TP-103** ■ Test Pit ☐ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		7.5YR 3/4	
		DARK BROWN	
LOAMY SAND	FRIABLE		
		10YR 4/6	
		DARK YELLOWISH BROWN	
			NONE
			OBSERVED
		2.5Y 5/3	
	LOOSE		
GRAVELLY COARSE SAND	BUT FIRM IN PLACE	LIGHT OLIVE BROWN	

LIMIT OF EXCAVATION = 72"

hydric	Slope %	Limiting factor	ground water
■ non-hydric	3-8	>72"	☐ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: **COLTON** | **ED** Drainage Class | **A** Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: **TP-104** ■ Test Pit ☐ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		2.5Y 3/3	
SANDY LOAM		DARK OLIVE BROWN	
	FRIABLE	10YR 4/6 DARK YELLOWISH BROWN	
LOAMY SAND			
		2.5Y 5/6 LIGHT OLIVE BROWN	COMMON, MEDIUM, & DISTINCT
GRAVELLY COARSE SAND	SOMEWHAT CEMENTED	2.5Y 5/4 LIGHT OLIVE BROWN	MANY, COARSE, & PROMINENT

LIMIT OF EXCAVATION = 60"

hydric	Slope %	Limiting factor	ground water
■ non-hydric	0-3	14"	■ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: **NAUMBURG** | **SWPD** Drainage Class | **C** Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

Professional Endorsements *(as applicable)*

C.S.S.	signature:	Date:	6/4/15
	name printed/typed: **Gary M. Fullerton**	Lic.#:	462
L.S.E.	signature:	Date:	
	name printed/typed:	Lic.#:	

STATE OF MAINE GARY M. FULLERTON NO. 462 CERTIFIED SOIL SCIENTIST

affix professional seal

FORM F 12233

SOIL PROFILE/CLASSIFICATION INFORMATION

Detailed Description of Subsurface Conditions at Project Sites

Project Name:	Applicant Name:	Project Location (municipality):
MAIN STREET PARCEL	SANFORD SCHOOL DEPARTMENT	SANFORD

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-105 ■ Test Pit ☐ Boring

2-3 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
SANDY		10YR 3/4	
LOAM		DARK YELLOWISH	
		BROWN	
	FRIABLE		
LOAMY		10YR 4/6	
SAND			
		DARK	
		YELLOWISH	
		BROWN	
			NONE
			OBSERVED
GRAVELLY		2.5Y 5/3	
COARSE			
SAND	LOOSE	LIGHT	
		OLIVE	
		BROWN	
		2.5Y 5/4	
GRAVELLY		LIGHT OLIVE	
SAND		BROWN	

LIMIT OF EXCAVATION = 96"

hydric	Slope %	Limiting factor	ground water
■ non-hydric	8-15	>96"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: COLTON | ED Drainage Class | A Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-106 ■ Test Pit ☐ Boring

0 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
GRAVELLY		2.5Y 5/3	
COARSE	LOOSE		
SAND		LIGHT	
		OLIVE	
		BROWN	
			STANDING
			WATER
LEDGE AT 54"			

hydric	Slope %	Limiting factor	ground water
■ non-hydric	3-8	36"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: TUNBRIDGE VARIANT | MWD Drainage Class | C Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-107 ■ Test Pit ☐ Boring

0-1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
SANDY		10YR 3/3	NONE
LOAM	FRIABLE		OBSERVED
FILL		DARK	
VARIES		BROWN	
0"-36" DEEP			
GRAVELLY	FRIABLE	2.5Y 5/2	
SAND			NONE
		GRAYISH	OBSERVED
		BROWN	
GRAVELLY			
FINE SAND			

LIMIT OF EXCAVATION = 72"

hydric	Slope %	Limiting factor	ground water
■ non-hydric	3-8	>72"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: COLTON | ED Drainage Class | A Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-108 ■ Test Pit ☐ Boring

0-1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
GRAVELLY		2.5Y 5/3	
COARSE	LOOSE		NONE
SAND		LIGHT	OBSERVED
		OLIVE	
		BROWN	

LIMIT OF EXCAVATION = 60"

hydric	Slope %	Limiting factor	ground water
■ non-hydric	0-3	>60"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: COLTON | ED Drainage Class | A Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

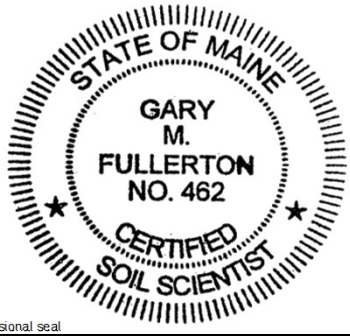
Professional Endorsements *(as applicable)*

C.S.S. signature:  Date: 6/4/15

name printed/typed: Gary M. Fullerton Lic.#: 462

L.S.E. signature: Date:

name printed/typed: Lic.#:



affix professional seal

FORM F 12233

SOIL PROFILE/CLASSIFICATION INFORMATION

Detailed Description of Subsurface Conditions at Project Sites

Project Name:	Applicant Name:	Project Location (municipality):
MAIN STREET PARCEL	SANFORD SCHOOL DEPARTMENT	SANFORD

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: **TP-109** ■ Test Pit ☐ Boring

0 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2				
3				
4				
5				
6				
7				
8	LOAMY		2.5Y 5/4	
9	SAND	FRIABLE		
10	FILL		LIGHT	
12	WITH BOULDERS		OLIVE	
14			BROWN	
16				
18				
20				
30				
36				
40			2.5Y 5/3	
	GRAVELLY	LOOSE		
50	SAND		LIGHT OLIVE	
			BROWN	
60				

LIMIT OF EXCAVATION = 60"

	Slope %	Limiting factor	
☐ hydric ■ non-hydric	3-8	>60"	☐ ground water ☐ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: **COLTON** | **ED** Drainage Class | **A** Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: **TP-110** ■ Test Pit ☐ Boring

0 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2				
3				
4				
5				
6				
7				
8	LOAMY		10YR 3/4	
9	SAND			
10	FILL		DARK	
12	WITH BOULDERS		YELLOWISH	
14			BROWN	
16				
18		FRIABLE		NONE
20				OBSERVED
30				
	LOAMY		10YR 5/6	
	SAND			
40			YELLOWISH	
			BROWN	
50				
65				

LIMIT OF EXCAVATION = 65"

	Slope %	Limiting factor	
☐ hydric ■ non-hydric	0-3	>65"	☐ ground water ☐ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: **ADAMS** | **SWED** Drainage Class | **A** Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: **TP-111** ■ Test Pit ☐ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2			2.5Y 3/3	
3	SANDY			
4	LOAM		DARK OLIVE	
5			BROWN	
6				
7				
8			10YR 5/6	
9				
10	LOAMY	FRIABLE	YELLOWISH	
12	SAND		BROWN	
14				
16				
18			2.5Y 5/4	
20			LIGHT OLIVE	COMMON,
			BROWN	MEDIUM,
23				& DISTINCT
	MEDIUM		2.5Y 5/3	
30	SAND			
			LIGHT OLIVE	
			BROWN	
40				
50				
60				

LIMIT OF EXCAVATION = 60"

	Slope %	Limiting factor	
☐ hydric ■ non-hydric	0-3	14"	■ ground water ☐ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: **NAUMBURG** | **SWPD** Drainage Class | **C** Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: **TP-112** ■ Test Pit ☐ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

	Texture	Consistency	Color	Mottling
0				
1				
2	SANDY		2.5Y 3/2	
3	LOAM		VERY DARK	
4			GRAYISH BROWN	
5				
6				
7				
8		FRIABLE		
9			10YR 5/6	
10	LOAMY			
12	SAND		YELLOWISH	
14			BROWN	
17				
18				
20				
22				
			2.5Y 5/4	COMMON,
	COARSE		LIGHT OLIVE	MEDIUM,
27	SAND		BROWN	& DISTINCT
30				
	FINE		2.5Y 6/2	
	SAND			
36			LIGHT	
			BROWNISH	
40	GRAVELLY		GRAY	
	COARSE	CEMENTED		
50	SAND			
60				

LIMIT OF EXCAVATION = 60"

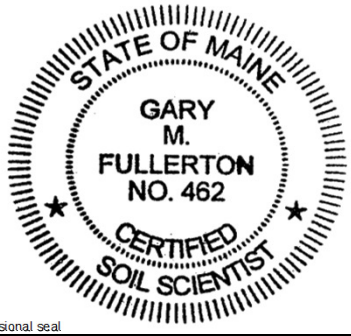
	Slope %	Limiting factor	
☐ hydric ■ non-hydric	0-3	17"	■ ground water ☐ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: **CROGHAN** | **MWD** Drainage Class | **B** Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

Professional Endorsements *(as applicable)*

C.S.S.	signature: 	Date: 6/4/15
	name printed/typed: **Gary M. Fullerton**	Lic.#: 462
L.S.E.	signature:	Date:
	name printed/typed:	Lic.#:



affix professional seal

FORM F 12233

SOIL PROFILE/CLASSIFICATION INFORMATION

Detailed Description of Subsurface Conditions at Project Sites

Project Name:	Applicant Name:	Project Location (municipality):
MAIN STREET PARCEL	SANFORD SCHOOL DEPARTMENT	SANFORD

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-113 ■ Test Pit ☐ Boring

0-1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
SANDY		2.5Y 5/4	
LOAM			
FILL	FRIABLE	LIGHT	
		OLIVE	
		BROWN	
LOAMY		10YR 5/6	
SAND		YELLOWISH	
		BROWN	
LEDGE AT 19"			

hydric	Slope %	Limiting factor	ground water
■ non-hydric	0-3	19"	☐ restrictive layer
			■ bedrock

C.S.S. Soil Series / phase name: LYMAN | SWED (Drainage Class) | D (Hydrologic Group)

L.S.E. Soil Classification: ____ (Profile) ____ (Drainage Class) ____ (Design Class)

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-114 ■ Test Pit ☐ Boring

0-1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		10YR 3/3	
BOULDER			
DUMP	FRIABLE	DARK	
SITE		BROWN	
WITH LOAMY			
FILL			
COARSE		2.5Y 5/2	COMMON,
SAND	LOOSE		MEDIUM,
WITH STONES		GRAYISH	& DISTINCT
		BROWN	
LIMIT OF EXCAVATION = 96"			

hydric	Slope %	Limiting factor	ground water
■ non-hydric	0-3	36"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: CROGHAN-LIKE | MWD (Drainage Class) | B (Hydrologic Group)

L.S.E. Soil Classification: ____ (Profile) ____ (Drainage Class) ____ (Design Class)

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-115 ■ Test Pit ☐ Boring

0-1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
GRAVELLY	FRIABLE	2.5Y 5/3	
SILTY	TO		NONE
FILL	FIRM	LIGHT	OBSERVED
		OLIVE	
		BROWN	
LIMIT OF EXCAVATION = 84"			

hydric	Slope %	Limiting factor	ground water
■ non-hydric	3-8	>84"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: ADAMS-LIKE | SWED (Drainage Class) | A (Hydrologic Group)

L.S.E. Soil Classification: ____ (Profile) ____ (Drainage Class) ____ (Design Class)

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-116 ■ Test Pit ☐ Boring

0-1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
BOULDER		10YR 3/3	
DUMP	FRIABLE		NONE
SITE		DARK	OBSERVED
WITH LOAMY		BROWN	
FILL			
LIMIT OF EXCAVATION = 60"			

hydric	Slope %	Limiting factor	ground water
■ non-hydric	0-3	>60"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: ADAMS-LIKE | SWED (Drainage Class) | A (Hydrologic Group)

L.S.E. Soil Classification: ____ (Profile) ____ (Drainage Class) ____ (Design Class)

Professional Endorsements *(as applicable)*

C.S.S. signature: Gary M. Fullerton — Date: 6/4/15

name printed/typed: Gary M. Fullerton — Lic.#: 462

L.S.E. signature: ____ — Date: ____

name printed/typed: ____ — Lic.#: ____

STATE OF MAINE GARY M. FULLERTON NO. 462 CERTIFIED SOIL SCIENTIST

affix professional seal

FORM F 12233

SOIL PROFILE/CLASSIFICATION INFORMATION

Detailed Description of Subsurface Conditions at Project Sites

Project Name:	Applicant Name:	Project Location (municipality):
MAIN STREET PARCEL	SANFORD SCHOOL DEPARTMENT	SANFORD

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: **TP-117** ■ Test Pit ☐ Boring

0-1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
GRAVELLY		2.5Y 5/4	
COARSE	LOOSE		
SAND		LIGHT	
		OLIVE	
		BROWN	
			COMMON,
			MEDIUM,
			& DISTINCT

LIMIT OF EXCAVATION = 65"

hydric	Slope %	Limiting factor	ground water
■ non-hydric	3-8	33"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: **CROGHAN-LIKE** | **MWD** Drainage Class | **B** Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: **TP-118** ■ Test Pit ☐ Boring

0-1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		10YR 3/3	
SANDY			NONE
LOAM	FRIABLE	DARK	OBSERVED
FILL		BROWN	

LIMIT OF EXCAVATION = 60"

hydric	Slope %	Limiting factor	ground water
■ non-hydric	0-3	>60"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: **ADAMS-LIKE** | **SWED** Drainage Class | **A** Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: **TP-119** ■ Test Pit ☐ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
FINE		10YR 3/2	
SANDY			
LOAM		VERY DARK	
		GRAYISH BROWN	
	FRIABLE		COMMON,
SANDY			MEDIUM,
LOAM		2.5Y 5/4	& DISTINCT
WITH			
BOULDERS		LIGHT	
		OLIVE	
		BROWN	
	FIRM		

LIMIT OF EXCAVATION = 60"

hydric	Slope %	Limiting factor	ground water
■ non-hydric	3-8	8"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: **COLONEL** | **SWPD** Drainage Class | **D** Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: **TP-120** ■ Test Pit ☐ Boring

0 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		10YR 3/4	
LOAMY		DARK	
SAND		YELLOWISH	
		BROWN	
	FRIABLE		
		10YR 4/4	
		DARK	
MEDIUM		YELLOWISH	
SAND		BROWN	
		10YR 5/3	
		BROWN	
SANDY		2.5Y 5/3	COMMON,
LOAM	FIRM	LIGHT OLIVE	MEDIUM,
WITH STONES		BROWN	& DISTINCT

LIMIT OF EXCAVATION = 108"

hydric	Slope %	Limiting factor	ground water
■ non-hydric	8-15	72"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: **ADAMS** | **SWED** Drainage Class | **A** Hydrologic Group

L.S.E. Soil Classification: ____ Profile | ____ Drainage Class | ____ Design Class

Professional Endorsements *(as applicable)*

C.S.S. signature:		Date: 6/5/15
name printed/typed:	Gary M. Fullerton	Lic.#: 462
L.S.E. signature:		Date:
name printed/typed:		Lic.#:

STATE OF MAINE GARY M. FULLERTON NO. 462 CERTIFIED SOIL SCIENTIST

affix professional seal

FORM F 12233

SOIL PROFILE/CLASSIFICATION INFORMATION

Detailed Description of Subsurface Conditions at Project Sites

Project Name:	Applicant Name:	Project Location (municipality):
MAIN STREET PARCEL	SANFORD SCHOOL DEPARTMENT	SANFORD

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-121 ■ Test Pit ☐ Boring

2-3 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		10YR 3/3	
SANDY			
LOAM		DARK	
		BROWN	
	FRIABLE		
		10YR 4/6	
LOAMY		DARK	
SAND		YELLOWISH	
		BROWN	
MEDIUM		2.5Y 5/6	
SAND		LIGHT OLIVE	
		BROWN	
		2.5Y 5/3	FEW, FINE
		LT. OLIVE BROWN	& FAINT

LIMIT OF EXCAVATION = 65"

hydric	Slope %	Limiting factor	ground water
■ non-hydric	3-8	55"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: ADAMS | SWED (Drainage Class) | A (Hydrologic Group)

L.S.E. Soil Classification: _____ (Profile) | _____ (Drainage Class) | _____ (Design Class)

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-122 ■ Test Pit ☐ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
LOAMY		10YR 3/3	
SAND			
		DARK	
		BROWN	
	FRIABLE		
		10YR 4/6	
GRAVELLY			
LOAMY		DARK	NONE
SAND		YELLOWISH	OBSERVED
		BROWN	
		10YR 5/4	
GRAVELLY	LOOSE		
SAND		YELLOWISH	
		BROWN	
GRAVELLY			
COARSE SAND			

LIMIT OF EXCAVATION = 11'

hydric	Slope %	Limiting factor	ground water
■ non-hydric	0-3	>11'	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: COLTON | ED (Drainage Class) | A (Hydrologic Group)

L.S.E. Soil Classification: _____ (Profile) | _____ (Drainage Class) | _____ (Design Class)

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-123 ■ Test Pit ☐ Boring

0 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
LOAMY		10YR 3/4	
SAND			
		DARK	
		BROWN	
	FRIABLE	2.5Y 5/4	
MEDIUM			
SAND		LIGHT	
		OLIVE	
		BROWN	
COARSE		2.5Y 5/3	COMMON,
SAND		LIGHT OLIVE	MEDIUM,
		BROWN	& DISTINCT

LEDGE AT 48"

hydric	Slope %	Limiting factor	■ ground water
■ non-hydric	3-8	40"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: ADAMS VARIANT | SWED (Drainage Class) | A (Hydrologic Group)

L.S.E. Soil Classification: _____ (Profile) | _____ (Drainage Class) | _____ (Design Class)

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-124 ■ Test Pit ☐ Boring

0 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		10YR 4/3	
		BROWN	
LOAMY	FRIABLE		
SAND			
		10YR 4/4	
		DARK	
		YELLOWISH	
		BROWN	
MEDIUM			
SAND			
		2.5Y 5/3	
LOOSE		LIGHT	
		OLIVE	
		BROWN	
			COMMON,
COARSE			MEDIUM,
SAND			& DISTINCT

LIMIT OF EXCAVATION = 10'

hydric	Slope %	Limiting factor	■ ground water
■ non-hydric	0-3	30"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: CROGHAN | MWD (Drainage Class) | B (Hydrologic Group)

L.S.E. Soil Classification: _____ (Profile) | _____ (Drainage Class) | _____ (Design Class)

Professional Endorsements *(as applicable)*

C.S.S. signature: [signature] Date: 6/5/15

name printed/typed: Gary M. Fullerton Lic.#: 462

L.S.E. signature: Date:

name printed/typed: Lic.#:

STATE OF MAINE GARY M. FULLERTON NO. 462 CERTIFIED SOIL SCIENTIST

affix professional seal

SOIL PROFILE/CLASSIFICATION INFORMATION

Detailed Description of Subsurface Conditions at Project Sites

Project Name:	Applicant Name:	Project Location (municipality):
MAIN STREET PARCEL	SANFORD SCHOOL DEPARTMENT	SANFORD

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-125 ■ Test Pit ☐ Boring

0 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		2.5Y 6/4	
FINE			
SAND		LIGHT	
		YELLOWISH	
		BROWN	
	FRIABLE		
VERY			
FINE			
SAND			
			COMMON,
			MEDIUM,
			& DISTINCT
			MANY, COARSE
LIMIT OF EXCAVATION = 108"			& PROMINENT

hydric	Slope %	Limiting factor	ground water
■ non-hydric	8-15	72"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: ADAMS | SWED (Drainage Class) | A (Hydrologic Group)

L.S.E. Soil Classification: ____ (Profile) ____ (Drainage Class) ____ (Design Class)

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-126 ■ Test Pit ☐ Boring

0 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		2.5Y 5/4	
COARSE			
SAND	LOOSE	LIGHT	
AND		OLIVE	
GRAVEL		BROWN	
			FEW, FINE
			& FAINT
LIMIT OF EXCAVATION = 72"			

hydric	Slope %	Limiting factor	ground water
■ non-hydric	0-3	54"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: COLTON | ED (Drainage Class) | A (Hydrologic Group)

L.S.E. Soil Classification: ____ (Profile) ____ (Drainage Class) ____ (Design Class)

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-127 ■ Test Pit ☐ Boring

2-3 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		10YR 3/4	
		DARK YELLOWISH	
		BROWN	
LOAMY			
SAND		10YR 4/6	
		DARK	
		YELLOWISH	
		BROWN	
	FRIABLE		
GRAVELLY		2.5Y 5/4	
COARSE			
SAND		LIGHT	COMMON,
		OLIVE	MEDIUM,
		BROWN	& DISTINCT
COARSE		7.5YR 4/6	MANY,
SAND	LOOSE	STRONG	COARSE,
LIMIT OF EXCAVATION = 60"		BROWN	PROMINENT

hydric	Slope %	Limiting factor	ground water
■ non-hydric	3-8	26"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: CROGHAN | MWD (Drainage Class) | B (Hydrologic Group)

L.S.E. Soil Classification: ____ (Profile) ____ (Drainage Class) ____ (Design Class)

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-128 ■ Test Pit ☐ Boring

2-3 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		10YR 3/3	
		DARK BROWN	
LOAMY			
SAND			
		10YR 4/6	
		DARK	
	FRIABLE	YELLOWISH	
		BROWN	NONE
			OBSERVED
		10YR 5/6	
MEDIUM			
SAND		YELLOWISH	
		BROWN	
FINE		2.5Y 5/4	
SAND			
		LIGHT OLIVE	
		BROWN	
LIMIT OF EXCAVATION = 60"			

hydric	Slope %	Limiting factor	ground water
■ non-hydric	3-8	>60"	☐ restrictive layer
			☐ bedrock

C.S.S. Soil Series / phase name: ADAMS | SWED (Drainage Class) | A (Hydrologic Group)

L.S.E. Soil Classification: ____ (Profile) ____ (Drainage Class) ____ (Design Class)

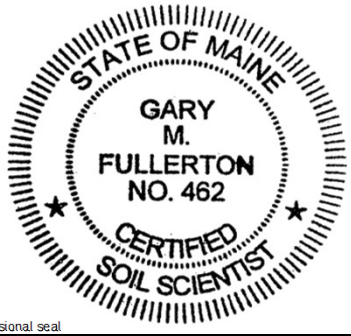
Professional Endorsements *(as applicable)*

C.S.S. signature:  Date: 6/5/15

name printed/typed: Gary M. Fullerton Lic.#: 462

L.S.E. signature: Date:

name printed/typed: Lic.#:



affix professional seal

FORM F 12233

SOIL PROFILE/CLASSIFICATION INFORMATION

Detailed Description of Subsurface Conditions at Project Sites

Project Name:	Applicant Name:	Project Location (municipality):
MAIN STREET PARCEL	SANFORD SCHOOL DEPARTMENT	SANFORD

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-129 ■ Test Pit ☐ Boring

2-3 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
SANDY		10YR 3/4	
LOAM		DARK YELLOWISH	
		BROWN	
		10YR 4/6	
GRAVELLY	FRIABLE	DARK	
LOAMY		YELLOWISH	
SAND		BROWN	
SANDY		2.5Y 6/6	MANY,
LOAM	FIRM		COARSE,
WITH		OLIVE	& PROMINENT
STONES		YELLOW	
		2.5Y 5/4	
		LIGHT OLIVE	FEW, FINE,
		BROWN	& FAINT

LIMIT OF EXCAVATION = 60"

☐ hydric ■ non-hydric	Slope %	Limiting factor	■ ground water ■ restrictive layer ☐ bedrock
	3-8	24"	

C.S.S. Soil Series / phase name: SKERRY | MWD (Drainage Class) | C (Hydrologic Group)

L.S.E. Soil Classification: _____ (Profile) _____ (Drainage Class) _____ (Design Class)

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-130 ■ Test Pit ☐ Boring

2-3 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		10YR 3/4	
		DARK YELLOWISH	
		BROWN	
LOAMY			
SAND	FRIABLE		
		10YR 4/6	
		DARK YELLOWISH	
		BROWN	
		2.5Y 5/3	
MEDIUM	LOOSE		
SAND		LIGHT	
		OLIVE	
		BROWN	

LIMIT OF EXCAVATION = 60"

☐ hydric ■ non-hydric	Slope %	Limiting factor	■ ground water ☐ restrictive layer ☐ bedrock
	0-3	10"	

C.S.S. Soil Series / phase name: NAUMBURG | SWPD (Drainage Class) | C (Hydrologic Group)

L.S.E. Soil Classification: _____ (Profile) _____ (Drainage Class) _____ (Design Class)

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-131 ■ Test Pit ☐ Boring

0 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
		10YR 4/6	
GRAVELLY			
FINE	FRIABLE	DARK	
SAND		YELLOWISH	
		BROWN	
GRAVELLY		2.5Y 5/4	FEW, FINE,
COARSE	LOOSE	LIGHT OLIVE	& FAINT
SAND		BROWN	

LIMIT OF EXCAVATION = 72"

☐ hydric ■ non-hydric	Slope %	Limiting factor	■ ground water ☐ restrictive layer ☐ bedrock
	3-8	36"	

C.S.S. Soil Series / phase name: DUANE | MWD (Drainage Class) | B (Hydrologic Group)

L.S.E. Soil Classification: _____ (Profile) _____ (Drainage Class) _____ (Design Class)

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: _____ ☐ Test Pit ☐ Boring

" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling

☐ hydric ☐ non-hydric	Slope %	Limiting factor	☐ ground water ☐ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: _____ (Drainage Class) _____ (Hydrologic Group)

L.S.E. Soil Classification: _____ (Profile) _____ (Drainage Class) _____ (Design Class)

Professional Endorsements *(as applicable)*

C.S.S. signature: [signature] Date: 6/5/15

name printed/typed: Gary M. Fullerton Lic.#: 462

L.S.E. signature: Date:

name printed/typed: Lic.#:

STATE OF MAINE GARY M. FULLERTON NO. 462 CERTIFIED SOIL SCIENTIST

affix professional seal

FORM F 12233

SOIL PROFILE/CLASSIFICATION INFORMATION

Detailed Description of Subsurface Conditions at Project Sites

Project Name:	Applicant Name:	Project Location (municipality):
MAIN STREET PARCEL	SANFORD SCHOOL DEPARTMENT	SANFORD

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: TP-132 ■ Test Pit ☐ Boring

1-2 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling
SANDY LOAM FILL W/ STONES	FRIABLE	DARK BROWN	NONE OBSERVED
GRAVELLY SAND	LOOSE	YELLOWISH BROWN	

LIMIT OF EXCAVATION = 60"

hydric	Slope %	Limiting factor	
■ non-hydric	0-3	>60"	☐ ground water ☐ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group ____

L.S.E. Soil Classification: ____ Profile ____ Drainage Class ____ Design Class ____

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: ____ ☐ Test Pit ☐ Boring

" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling

hydric	Slope %	Limiting factor	
■ non-hydric			■ ground water ☐ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group ____

L.S.E. Soil Classification: ____ Profile ____ Drainage Class ____ Design Class ____

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: ____ ☐ Test Pit ☐ Boring

" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling

hydric	Slope %	Limiting factor	
■ non-hydric			☐ ground water ☐ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group ____

L.S.E. Soil Classification: ____ Profile ____ Drainage Class ____ Design Class ____

SOIL DESCRIPTION AND CLASSIFICATION

Exploration Symbol: ____ ☐ Test Pit ☐ Boring

" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)

Texture	Consistency	Color	Mottling

hydric	Slope %	Limiting factor	
☐ non-hydric			☐ ground water ☐ restrictive layer ☐ bedrock

C.S.S. Soil Series / phase name: ____ Drainage Class ____ Hydrologic Group ____

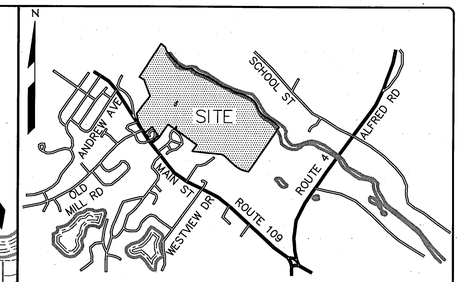
L.S.E. Soil Classification: ____ Profile ____ Drainage Class ____ Design Class ____

Professional Endorsements *(as applicable)*

C.S.S.	signature:	Date: 10/15/15
	name printed/typed: Gary M. Fullerton	Lic.#: 462
L.S.E.	signature:	Date:
	name printed/typed:	Lic.#:

STATE OF MAINE GARY M. FULLERTON NO. 462 CERTIFIED SOIL SCIENTIST

affix professional seal



LOCATION MAP N.T.S.

GENERAL NOTES

1. A WETLAND DELINEATION WAS PERFORMED ON THIS PROJECT SITE IN AUGUST 2013 AND AUGUST 2015 BY GARY M. FULLERTON, CERTIFIED SOIL SCIENTIST OF SEBAGO TECHNICS, INC. AND LOCATED BY GROUND SURVEY. THIS DELINEATION CONFORMS TO THE STANDARDS AND METHODS OUTLINED IN THE 1987 WETLANDS DELINEATION MANUAL AND NORTHEAST REGIONAL SUPPLEMENT AUTHORED AND PUBLISHED BY THE U.S. ARMY CORPS OF ENGINEERS. A WETLANDS REPORT WAS PREPARED BY GARY M. FULLERTON ON MARCH 25, 2014.
2. STORMWATER TEST PITS 101–132 WERE OBSERVED IN JUNE, 2015 AFTER THE SOIL SURVEY WAS COMPLETED.

LEGEND

SYMBOL	DESCRIPTION
	PROPERTY LINE/R.O.W.
	ABUTTER LINE/R.O.W.
STI-TP-1	SEBAGO TECHNICS TEST PIT
STI-B-1	SEBAGO TECHNICS BORING
	BUILDING
	EASEMENT
	EDGE WETLAND
	WETLANDS
	LEDGE
	EDGE PAVEMENT
	EDGE GRAVEL
	CURB LINE
	EDGE OF WATER
120 118	CONTOURS
	SOILS BOUNDARY

SOIL TYPES

SYMBOL	SOIL SERIES	PHASE	SLOPE	HSG	DRAINAGE CLASS
AdB	ADAMS	LOAMY SAND	3–8%	A	SOMEWHAT EXCESSIVELY DRAINED
AdC	ADAMS	LOAMY SAND	8–15%	A	SOMEWHAT EXCESSIVELY DRAINED
AUA	ADAMS–URBAN LAND ASSOCIATION	LOAMY SAND	0–3%	A	SOMEWHAT EXCESSIVELY DRAINED
ChA	CHOCORUA	MUCKY PEAT	0–3%	D	VERY POORLY DRAINED
CoA	COLTON	GRAVELLY LOAMY COARSE SAND	0–3%	A	EXCESSIVELY DRAINED
CoB	COLTON	GRAVELLY LOAMY COARSE SAND	3–8%	A	EXCESSIVELY DRAINED
CoC	COLTON	GRAVELLY LOAMY COARSE SAND	8–15%	A	EXCESSIVELY DRAINED
CrA	CROGHAN	LOAMY SAND	0–3%	B	MODERATELY WELL DRAINED
CrB	CROGHAN	LOAMY SAND	3–8%	B	MODERATELY WELL DRAINED

SYMBOL	SOIL SERIES	PHASE	SLOPE	HSG	DRAINAGE CLASS
LrC	LYMAN–ROCK OUTCROP ASSOCIATION	FINE SANDY LOAM	8–15%	C/D	SOMEWHAT EXCESSIVELY DRAINED
Md1B	COLTON–LIKE	N/A	3–8%	A	EXCESSIVELY DRAINED
Md1C	COLTON–LIKE	N/A	.8–15%	A	EXCESSIVELY DRAINED
Md2A	NAUMBURG–LIKE	N/A	0–3%	C	SOMEWHAT POORLY DRAINED
Md3A	ADAMS–LIKE	N/A	0–3%	A	SOMEWHAT EXCESSIVELY DRAINED
Md4B	COLTON/LYMAN–LIKE ASSOCIATION	N/A	3–8%	A/C/D	SOMEWHAT EXCESSIVELY DRAINED/ EXCESSIVELY DRAINED
NaA	NAUMBURG	LOAMY SAND	0–3%	C	POORLY DRAINED/ SOMEWHAT POORLY DRAINED
SrA	SEARSPORT	MUCKY PEAT	0–3%	D	VERY POORLY DRAINED

GRAPHIC SCALE
150 0 75 150 300
(IN FEET)
1 INCH = 150FT.

NOTE

THIS CLASS 'B' HIGH INTENSITY SOILS MAP CONFORMS TO THE GUIDELINES FOR MAINE CERTIFIED SOIL SCIENTISTS FOR SOIL IDENTIFICATION AND MAPPING, DATED MARCH 2009 FOR CLASS 'B' HIGH INTENSITY SOIL SURVEYS. THE SOIL MAP UNITS AS DEPICTED WERE IN PART INFLUENCED BY THE INTENDED USE FOR A PROPOSED HIGH SCHOOL AND THE SOILS WHICH WERE NON–LIMITING FOR ONE USE MAY BE CONSIDERED LIMITING FOR ANOTHER USE. THEREFORE, THIS CLASS 'B' HIGH INTENSITY SOILS MAP MAY NOT BE ADEQUATE FOR ANOTHER USE. (REFER TO SOIL NARRATIVE REPORT DATED JANUARY 14, 2014 AND SOIL PROFILE DESCRIPTIONS.)

STATE OF MAINE GARY M. FULLERTON NO. 462 CERTIFIED SOIL SCIENTIST

GARY M. FULLERTON
CERTIFIED SOIL SCIENTIST #462

11/12/15
DATE

DESIGNED	CHECKED

REV.	BY:	DATE:	STATUS:
A	GMF	11-12-15	REVISE MAP PER DEP COMMENTS

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite B
South Portland, ME 04106
Tel. 207-200-2100
250 Goddard Rd. Suite 1
Lewiston, ME 04240
Tel. 207-783-5656

CLASS 'B' HIGH INTENSITY SOILS MAP

OF:
SANFORD HIGH SCHOOL
ROUTE 109 & ROUTE 4
SANFORD, MAINE

FOR:
LAVALLEE BRENSINGER ARCHITECTS
155 DOW STREET, SUITE 400
MANCHESTER, NH 03101

PROJECT NO.	SCALE
12233	1" = 150'

SHEET 1 OF 1

12233SSL.dwg, TAB:12233SSL