

ADDENDUM NO. 1

PROJECT NAME: NE Soccer & Tennis Complex- General Construction
UNL PROJECT NUMBER: C909P101/ 10186
BID INVITATION NUMBER: 2339-14-7200

CONSULTANT: RDG Planning & Design
ADDRESS: 301 Grand Avenue
Des Moines, IA 50309

DATE OF ISSUANCE: March 27, 2014
DATE OF BID OPENING: Tuesday, April 8, 2014
3:00 PM CT

The bid documents, plans dated 3/7/14 and project manual dated 3/7/14, for the above referenced project are amended by this addendum.

NOTICE: This Addendum is issued to all interested prospective bidders as an amendment to the project manual or other parts of the bidding (contract) documents for the above named project. Reference to this Addendum must be included in the Bid proposal. The information contained herein shall be fully incorporated into the contract documents as though originally included therein.

ADDENDA TO THE PROJECT MANUAL

Landscape Specification Items

1GS-1 SECTION 12 93 00 – SITE FURNISHINGS

- A. Paragraph 2.3, A, 1, a, 1): REVISE Quantity to be 4 in lieu of 6.
- B. Paragraph 2.3, A, 1, b, 1): REVISE Quantity to be 5 in lieu of 10.

1GS-2 SECTION 32 80 00 – IRRIGATION SYSTEM

- A. Paragraph 2.1, A: Revise to read as follows:
“...controllers shall be Hunter, or equal product line manufacturer...”

Architectural Specification Items

1GS-3 SECTION 07 54 19 – THERMOPLASTIC MEMBRANE ROOFING – Delete section in its entirety.

1GS-4 SECTION 07 53 23 - ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING: Add new roofing section. See attached specification.

1GS-5 SECTION 09 96 00 - HIGH-PERFORMANCE COATINGS

- A. Change paragraph 2.2, C, to the following:
 - C. Metal Substrates, Exterior: Aliphatic acrylic polyurethane; semi gloss finish.

1. Surface Preparation:
 - a. Non-Galvanized Steel: SSPC SP-6, Commercial Blast Cleaning; all oil and rust must be removed from steel surfaces.
 - b. Galvanized Steel: SSPC SP-1 Solvent Clean and etch surface.
2. Primer:
 - a. Ferrous Metal: Tnemec 90-97 Urethane, Zinc Rich 3.0 mils.
 - b. Galvanized Steel: Tnemec Series L69 Hi Build Epoxoline II, 5.0 to 6.0 mils dry film thickness.
3. Epoxy Intermediate Coat:
 - a. Product: Tnemec Series L69 Hi Build Epoxoline II.
 - b. Percentage of Solids (by Volume): 62%
 - c. Dry Film Thickness: 4.0 to 6.0 mils.
4. Polyurethane Finish Coat:
 - a. Product: Tnemec Series 750 (Semi-gloss) Endura-Shield.
 - b. Percentage of Solids (by Volume): 72%

B. Change paragraph 2.2, D, to the following

D. Metal Substrates, Interior: Cycloaliphatic amine epoxy intermediate coat; aliphatic acrylic polyurethane finish coat, semi gloss finish.

1. Surface Preparation:
 - a. Unprimed Steel: SSPC SP-6, Commercial Blast Cleaning.
 - b. Galvanized Steel: SSPC SP-1 Solvent Clean and etch surface.
2. Primer:
 - a. Ferrous Metal: Tnemec Series L69 Hi Build Epoxoline II, 5.0 to 6.0 mils dry film thickness.
 - b. Galvanized Steel: Tnemec Series L69 Hi Build Epoxoline II, 5.0 to 6.0 mils dry film thickness.
3. Epoxy Intermediate Coat:
 - a. Product: Tnemec Series L69 Hi Build Epoxoline II.
 - b. Percentage of Solids (by Volume): 62%
 - c. Dry Film Thickness: 2.5 – 3.0 mils.
4. Polyurethane Finish Coat:
 - a. Product: Tnemec Series 290 (Semi-gloss) CRU.
 - b. Percentage of Solids (by Volume): 67%
 - c. Dry Film Thickness: 2.5 to 3.0 mils.
 - d. Comply with performance requirements for severe exposure.

1GS-6 SECTION 10 26 00 – WALL AND DOOR PROTECTION

A. Add section for corner guards. See attached specification section.

1GS-7 SECTION 10 14 19 – EXTERIOR SIGNAGE

A. Change the section title to “**DIMENSIONAL** SIGNAGE” since it also includes interior signage.

B. 2.2, A: Add the following paragraphs:

7. American Lift & Sign Service, 6958 North 97th Circle, Omaha, Nebraska 68122, Phone: (402) 572-1044, Contact: Pat Schuester (amelift@aol.com).
8. Dimensional Innovations, 421 Merriam Drive, Overland Park, KS 66203, Phone: (913) 384-3488, Contact: Justin Wood (jwood@dimin.com).
9. Independent's Services Company, 2710 Market Street, Hannibal, MO 63401, Phone: (636) 226-7877, Contact: Ken Nieman (KNieman@ISCO.net).
10. Jack Porter Inc, 101 College St. Suite 2A, Greenville, SC 29601, Phone: 864-672-3390, Contact: Christina Harrell (christina@jackporterdesign.com).
11. Nebraska Neon Sign Co., 1140 N 21st St, PO Box 80956, Lincoln, NE 68501, Phone: (402) 476-6563, Contact: Jim Graham (jgraham@nebraskasign.com).

C. 2.5, a, 7: Change to the following

7. Finishes:
- a. Aluminum: Baked-enamel or powder-coat finish; in color indicated.
 - b. Colors:
 - 1) Back-Lighted Letters: White LED; letter face and return painted Pantone PMS-186c Red; clear back (not translucent).
 - 2) Front-Lighted Letters:
 - a) Red LED.
 - b) Red polycarbonate face sheet (not back painted).
 - c) Aluminum face retainer / border; clear anodized (or painted metallic finish matching clear anodized).
 - d) Aluminum returns / sides; clear anodized (or painted metallic finish matching clear anodized).

1GS-8 SECTION 10 26 00 - WALL AND DOOR PROTECTION: Add Section- see attached specification.

1GS-9 SECTION 11 68 23.33 – TENNIS EQUIPMENT

A. 2.2, D: Add the following for windscreen graphics:

2. Windscreen Graphics shall be digitally printed, multi-color, UV-light stable, colorfast, nonfading, weather- and stain-resistant. Subject to compliance with requirements provide graphics by one of the following:
- a. American Lift & Sign Service, 6958 North 97th Circle, Omaha, Nebraska 68122, Phone: (402) 572-1044, Contact: Pat Schuester (amelift@aol.com).
 - b. Dimensional Innovations, 421 Merriam Drive, Overland Park, KS 66203, Phone: (913) 384-3488, Contact: Justin Wood (jwood@dimin.com).
 - c. Independent's Services Company, 2710 Market Street, Hannibal, MO 63401, Phone: (636) 226-7877, Contact: Ken Nieman (KNieman@ISCO.net).
 - d. Jack Porter Inc, 101 College St. Suite 2A, Greenville, SC 29601, Phone: 864-672-3390, Contact: Christina Harrell (christina@jackporterdesign.com).
 - e. Nebraska Neon Sign Co., 1140 N 21st St, PO Box 80956, Lincoln, NE 68501, Phone: (402) 476-6563, Contact: Jim Graham (jgraham@nebraskasign.com).

1GS-10 SECTION 12 24 13 – ROLLER WINDOW SHADES: See attached specification section with highlighted text revisions.

- A. 1.2, A, 2: Add manual roller shades to scope of specification.
- B. 2.5: Add Article 2.5 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS.
- C. 3.5: Add roller shades to west wall in Conference 202.

1GS-11 SECTION 12 63 00 – STADIUM AND ARENA SEATING

- A. 2.3, A, 1: Change the Basis-of-Design Product to American Seating Company; Model 406.
- B. 2.3, B, Add paragraphs 2 and 3 as follows:
 - 2. End Panels: Solid cast aluminum end panel with custom two-color logo as indicated on Drawings. Logo shall be UV-light stable, colorfast, nonfading, weather- and stain-resistant.
 - 3. Cup Holder: Front of armrest mounted cup holder; one per seat; gray color. Cup holder is not required on end panels.
- C. 2.5, A, 2: Change to read, "2. Color: Basis-of-Design: American Seating Company; OP Crimson."
- D. 2.5, B, 1: Change to read, "1. Color: Basis-of-Design: American Seating Company; OP Crimson."

1GS-12 SECTION 13 34 16 – PERMANENT GRANDSTANDS

- A. 2.2, D: Add paragraph 3 as follows:
3. Grandstand installation shall include the ability to add Stadium Seats without the need for additional structure or modification to the installed structure, risers, decking system, or similar components.
 4. Bench seats shall include the ability to add seatbacks without the need for additional structure or modification to the seat or supports.

Mechanical Specification Items

1MS-1 SECTION 23 31 13 – DUCTWORK

- A. Page 233113 – 3: Article 2.6 Fabric Ductwork, Paragraph A: Add the following subparagraph as an approved manufacturer, moving subsequent paragraphs down:

“1. KE Fibertec.”

1MS-2 SECTION 23 34 23 – POWER VENTILATORS

- A. Page 233423 -1: Article 2.1 Upblast Centrifugal Roof Exhaust Fans: Add the following paragraph as an approved manufacturer, moving subsequent paragraphs down:

“A. Manufacturer:
1. Loren Cook.”

1MS-3 SECTION 23 36 00 – AIR TERMINAL UNITS

- A. Page 233600 – 1: Article 2.1 Single Duct Variable Volume Units: Add the following paragraph as approved manufacturers, moving subsequent paragraphs down:

“A. Manufacturer:
1. Price Industries.”
2. Nailor.”

1MS-4 SECTION 23 64 16 – CENTRIFUGAL WATER CHILLERS

- A. Page 236416 – 2: Article 2.1 Acceptable Manufacturers: Add the following paragraph as an approved manufacturer, moving subsequent paragraphs down:

“A. Multistack.”

1MS-5 SECTION 23 37 00 – AIR OUTLETS AND INLETS

- A. Page 233700 - 1: Article 2.1 Ceiling Diffusers: Add the following paragraph as approved manufacturers, moving subsequent paragraphs down:

“A. Manufacturer:
1. Price Industries.”
2. Nailor.”

1MS-6 SECTION 23 37 00 – AIR OUTLETS AND INLETS

- A. Page 233700 - 1: Article 2.2 Wall Registers And Grilles: Add the following paragraph as approved manufacturers, moving subsequent paragraphs down:

- “A. Manufacturer:
1. Price Industries.”
2. Nailor.”

1MS-7 SECTION 23 81 27 – SMALL SPLIT – SYSTEM HEATING AND COOLING

- A. Page 238127 – 2: Article 2.1 – Manufacturers: Add the following paragraph as an approved manufacturer, moving subsequent paragraphs down:

“A. Daikin.”

1MS-8 SECTION 23 82 16 – AIR COILS

- A. Page 238216 – 2: Article 2.1 – Manufacturers: Add the following paragraph as an approved manufacturer, moving subsequent paragraphs down:

“A. Temtrol.”

Electrical Specification Items

1ES-1 SECTION 26 05 26 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

- A. Page 260526 – 4: Article 2.2 Grounding And Bonding Components: Add paragraph as follows:

“F. One-hole and two-hole compression lugs:
1. Color coded to appropriate cable, high conductivity wrought copper, electro in plated, or approved equal.”

1ES-2 SECTION 26 32 13 – ENGINE GENERATORS

- A. Page 263213 – 4: Article 2.3 Engine And Engine Accessory Equipment, paragraph A: Modify paragraph as follows:

“Provide four-stroke cycle, 1800 rpm engine with adequate horsepower to achieve specified power output at rated speed, accounting for alternator efficiency and parasitic loads.”

1ES-3 SECTION 26 32 13 – ENGINE GENERATORS

- A. Page 263213 – 6: Article 2.4 Alternator (Generator), paragraph D: Replace 105 degrees C. with 80 degrees C.

ADDENDA TO THE DRAWINGS

Landscape Drawing Items

1GD-1 DRAWING L3.02 – Layout Plan Enlargement East:

- A. REVISE the quantity of benches as per Drawing AD1-LA01.

1GD-2 DRAWING L4.03 – Site Irrigation Plan:

- A. REPLACE L4.03 SITE IRRIGATION PLAN with new L4.03 SITE IRRIGATION PLAN.

Structural Drawing Items

- 1GD-3** DRAWING S1.11A – Foundation Plan – Indoor Tennis/Support – Area A: Revise per attached Drawing S1.11A. (Added notes describing coordination at sewer easement located at the Northwest corner of Indoor Tennis as well as clarifications to Alternate #2).
- 1GD-4** DRAWING S1.11B – Foundation Plan – Indoor Tennis/Support – Area B:
- A. Modifies alternate #2 note at column line SM/S31 to read: “ALTERNATE #2: PRIMARY FRAME EXTERIOR COLUMNS REQUIRE FOOTING TYPE F1.9A.” This note was also added at column line SD/S36 and SD/S31.
 - B. Revises footing size at column line SD/S31 from a F1.10 to a F1.9.
 - C. Adds gridline S28.8.
- 1GD-5** DRAWING S1.12A – Second Floor Plan – Indoor Tennis/Support – Area A:
- A. Modifies final sentence of the note North of gridline SF, between gridlines S9 and S12 to read: “See arch for floor cover detail”.
- 1GD-6** DRAWING S1.12B – Second Floor Plan – Indoor Tennis/Support – Area B: Revise per attached Drawing S1.12B. (Moves column previously located at SC/S29 to SC/S28.8 (new gridline) and modifies adjacent beam sizes. Modifies deck edge at Support Building SW patio.)
- 1GD-7** DRAWING S2.11 – Foundation Plan – Grandstand/Pressbox:
- A. Adds concrete pilaster beneath steel columns at connector walkway (8 total) with note “SQ. PILASTER BENEATH WALKWAY COLUMNS – TOP OF PILASTER 6” ABOVE GRADE. DESIGN OF PILASTERS AND FOOTINGS BY GRANDSTAND MFR. (TYP.)”
- 1GD-8** DRAWING S2.12 – Second Floor Plan – Grandstand/Pressbox:
- A. Modifies elevation of horizontal HSS10x4x1/4 support beam along gridline G2 from [-4-8”] to [5’-2”].
 - B. Adds note to plans “GRANDSTAND SUPPLIER SHALL COORDINATE WITH ARCH. FOR PLACING BRACED FRAMES – AVOID PLACING BRACED FRAMES IN WALKWAYS, ETC.”
- 1GD-9** DRAWING S2.13 – Roof Framing Plan – Grandstand/Pressbox:
- A. Adds note 4 to Roof Framing Plan Notes “4. ALL BENT FRAMES AND HSS PURLINS AT PRESSBOX ROOF SHALL BE PRIMED WITH ZINC-RICH PRIMER (TNEMEC 90-97) AND WILL RECEIVE HPC FIELD FINISH.”
- 1GD-10** DRAWING S3.11 – Foundation Plan – Outdoor Tennis:
- A. Adds note to detail 2 “VERIFY ALL ELEVATIONS WITH LANDSCAPE ARCH.”
- 1GD-11** DRAWING S3.12– Framing Plan – Outdoor Tennis: Revise per attached Drawing S3.12. (Revises steel beam sizes in detail 3 and connection types in detail 4.
- 1GD-12** DRAWING S4.01– Tickets: Revise per attached Drawing S4.01. (Revises steel beam connections in details 3 and 4).
- 1GD-13** DRAWING S6.01– Structural Schedules:
- A. Footing Schedule: Adds new footing type F1.9A – 9’-0”Wx9’-0”Lx3’-0”D with (11)-#8 each way top and bottom – Alternate #2 footing
 - B. Footing Schedule: Modifies footing type F1.10 remark to read “INDOOR TENNIS/SUPPORT BUILDING – NO FOOTING FOR ALTERNATE #2”.
 - C. Steel Column Schedule: Modifies location of column from S29-SC to S28.8-SC.

1GD-14 DRAWING S7.12– Framing Details:

- A. Detail 1: Adds weld symbol for guardrail plate to HSS16x4 – ¼” fillet weld, both sides, field weld.

1GD-15 DRAWING S7.13– Framing Details:

- A. Detail 5: Modifies dimension from 'SA' to HSS16x4 centerline to read “SEE PLAN”. Modifies dimension from 'SB' to HSS16x4 centerline to read “SEE PLAN”.
- B. Detail 6: Modifies dimension from steel beam centerline to HSS16x4 centerline to read “SEE PLAN”.

Architectural Drawing Items

1GD-16 Drawings A1/A1.12B, C4/A1.87, A5.11: Change Door Number 202.2 to **S28**.

1GD-17 Drawings A1/A1.12B, A5/A1.22, A4/A1.52, E4/A1.87, A5.11: Change Door Number 202A.1 to **E21**.

1GD-18 Drawings A1/A1.12B, D6/A141, A5.11: Change Door Number 207.1 to **LB2A.1** and Door Number 207.2 to **LB2A.2**.

1GD-19 DRAWING A0.00

- A. Architectural Abbreviations: Add “CG Corner Guard”.
- B. Toilet and Bath Accessory Key: Revise as shown on attached Drawing AD1-A01.

1GD-20 DRAWING A0.11

- A. Drawing D2: Add 4” CMU wall type (Wall Type W12). See attached Drawing AD1-A02.
- B. Drawing D5: D6/A0.11: Show plywood pattern at sheathing where note indicates 5/8” FRT PLYWOOD.

1GD-21 DRAWING A1.1A

- A. Add Wall Type 12 tag to plumbing chase walls at south exterior walls of Women's Toilet 116, Women's Toilet 122, and Men's Toilet 124.

1GD-22 DRAWING A1.11B

- A. Revise walls, doors and casework in vicinity of rooms 107, 107A, and 109. Also see items in this addendum for Drawing A1.23. See attached drawing AD1-A03.

1GD-23 DRAWING A1.12B

- A. Change note at Spectator Seating 203 north guardrails and mid-aisle rails to indicate “HPC” in lieu of paint to match the 09 96 00 - HIGH-PERFORMANCE COATINGS schedule.
- B. Move door 202.1 to the east to avoid conflict with the recessed roller shade along the west wall (see revisions for Drawing A1.32B in this Addendum).

1GD-24 DRAWING A1.13

- A. Drawing A2:
1. Indicate roof penetrations. See attached Drawing A1.13.
 2. Indicate revised snow guards as shown on attached Drawing A1.13.

1GD-25 DRAWING A1.21

- A. Drawings C5, D1, D2, D3: Change all "PT" notations on guardrails, handrails and stairs to "HPC" to match the 09 96 00 - HIGH-PERFORMANCE COATINGS schedule.

1GD-26 DRAWING A1.22

- A. Drawing A5: Add detail callout for E2/A1.41 where the wall meets the east exterior mullion.
- B. Drawing B5: Add waterproofing membrane under the elevator pit slab and sump pit to tie into the wall waterproofing shown to provide continuous waterproofing around the elevator pit.

1GD-27 DRAWING A1.23

- 1. Drawing D1- see attached drawings AD1-A04 and AD1-A05:
 - a. Women's Tennis Meeting 113: Omit study counter. Relocate sink and paper towel dispenser
 - b. Soccer Meeting 107: Omit door 107.2. Move Door 107.1.
 - c. Team Dressing 107A: Add Door 107A.2. Revise wood paneling. Omit 2 lockers and revise locker layout. Relocate changing bench. Add privacy curtain. Change west wall to wall Type W4 (6" studs).

1GD-28 DRAWING A1.24

- A. Drawing C1:
 - 1. Men's Tennis Meeting 121: Omit study counter.
 - 2. Move sink and paper towel dispenser closer to match location in Women's Tennis Meeting 113.
- B. Drawing A1:
- C. Delete dashed lines next to Doors 221.1 and 223.1 (correct drawing error).

1GD-29 DRAWING A1.31

- A. Shower 133AA and 135AA: Change ceiling height from 8'-6" to 8' - 0".
- B. Toilet 133A: Change height of two wall openings to 7'-4" high.
- C. Toilet 135A: Change height of two wall openings to 7'-4" high.

1GD-30 DRAWING A1.31B

- A. Unisex Toilet 109A: shift ceiling grid to be centered in room.
- B. Stair 1 ST2A and Stair 2 ST1B: change finish note from "PAINT" to "HPC" to match the 09 96 00 - HIGH-PERFORMANCE COATINGS schedule.
- C. Concession Prep. 108: Delete inadvertent duplicated Technology symbols at Televisions (dashed lined indicating Televisions to remain).

1GD-31 DRAWING A1.32B

- A. Conference 202: Add recessed roller shade in front of storefront window on west wall. Add section marker at recessed roller shade to reference C6/A1.77 SIM.
- B. Use texts to label newly added roller shades as well as existing roller shades for East and South storefront windows.

1GD-32 DRAWING A1.41

- A. Drawing A4: Omit (Study Counter omitted).
- B. Drawing A5: Drawing title to read "FIXED CHANGING BENCH-ACCESSIBLE."
- C. Drawing A6: Drawing title to read "FIXED CHANGING BENCH-ACCESSIBLE @ GYP. WALL."
- D. Drawing D6: Add detail callout for E2/A1.41 where the wall meets the south exterior mullion.
- E. Drawing E2: Add drawing for Wall at Exterior Mullion. See attached drawing AD1-A07.

1GD-33 DRAWING A1.61

- A. Add minimum clearance dimensions to the Metal Building main rigid frame. See attached drawing AD1-A08.

1GD-34 DRAWING E4: Change note at guardrail to indicate "HPC" in lieu of "PT" to match the 09 96 00 - HIGH-PERFORMANCE COATINGS schedule. Steel structural beams indicated as "PT" remain unchanged.

1GD-35 DRAWING A1.81

- A. Drawings A6 and B5: Change note at guardrail and steel edge angle to indicate "HPC" in lieu of "PT" to match the 09 96 00 - HIGH-PERFORMANCE COATINGS schedule.

1GD-36 DRAWING A1.85

- A. Drawing E4: Omit study counter.

1GD-37 DRAWING A1.86

- A. Drawings A2, A3, and A5: Change ceiling height in Shower 133AA and 135AA from 8'-6" to 8' - 0".
- B. Drawings A2, A5, C5, and E5: Change height of wall openings to 7'-4" high.

1GD-38 DRAWING A1.91

- A. Corridor CR1B: Extend WOCPT 1 under Electric Water Coolers, adjacent to Unisex Toilet 114.
- B. Lobby LB1A: Add accent paint PT2 at north wall, south side of Elevator Equipment 101 only.
- C. Add Corner Guards. Provide 24 for Level 1.

1GD-39 DRAWING A1.92

- A. Spectator Lounge LB2A: Add accent paint PT2 at north wall between elevator and large opening only.
- B. Reception 207: Delete accent paint PT2 at south and west walls (south of Copy 207A). PT2 accent to remain at West wall (on the opposite side of Copy/ Work 207A east wall).
- C. Add Corner Guards. Provide 16 for Level 2.

1GD-40 DRAWING A5.01

- A. ROOM FINISH SCHEDULE
 - 1. Toilets and Toilet Vestibules 114, 116, 122, 124, VS1B, VS1C, VS1D: Provide HPC in lieu of EP, all walls.
 - 2. Corridor CR1A: Delete materials and finishes noted for South wall.

3. Corridor CR2B: Change South Wall Finish to PT1 only.
 4. Pressbox, TV 256: Change Note to read, "SEAL CEMENT BOARD JOINTS PRIOR TO PAINTING."
- B. B5: Clarification: Glass tile accent is GT1; "Subway tile" is CT1; 4-1/4" x 4-1/4" base is included in CT1 description.

Mechanical Drawing Items

1MD-1 DRAWING M0.01 – Mechanical Symbols and Abbreviations

- A. Modify HVAC General Notes #1 to read the following:
"Refer to all discipline drawings to coordinate with all ceiling mounted devices."
- B. HVAC General Notes; add note #15. Note #15 shall read:
"All fabric ductwork located within the indoor tennis area shall be routed between or on the edges of the court layout. Ductwork shall not be routed over the playing surface."
- C. Modify Fire Protection General Notes #2 to read the following:
"Refer to all discipline drawings to coordinate with all ceiling mounted devices."
- D. Plumbing General Notes; add note #10. Note #10 shall read:
"All plumbing vents and boiler vents up through roof shall be CPVC. All vents up through roof shall be painted to match the roof color as closely as possible."
- E. Plumbing General Notes; add note #11. Note #11 shall read:
"All plumbing vents through roof shall be aligned with each other. All vent locations shall be coordinated with roof contractor. Refer to architectural roof plan for alignment."

1MD-2 DRAWING M1.11A – Tennis/Sup't. Floor Plan Level 1 – Area A – Plumbing

- A. Location of double grade cleanout located at the southwest area of the indoor tennis area shall be relocated 11 feet west of its current location. The double grade cleanout needs to be located away from the main path into the garage door into the Grounds/Maintenance room.

1MD-3 DRAWING M1.11B - Tennis/Sup't. Floor Plan Level 1 – Area B – Plumbing

- A. In concession Prep. 108 rename the grease interceptor to GI-1 in lieu of GT-1.

1MD-4 DRAWING M1.51 – Mechanical Details

- A. Refer to detail 10. Rename the detail to Grease Interceptor Detail.
- B. Refer to detail 10. Rename the callout of the grease trap to grease interceptor (GI-1).

1MD-5 DRAWING M1.61 – Mechanical Schedules

- A. Refer to plumbing fixture schedule. Electric water coolers (EWC-1 and EWC-2) are the same unit except EWC-2 needs to be mounted at ADA height.
- B. Refer to plumbing fixture schedule. Modify the grease interceptor fixture to read GI-1 (Grease Interceptor) in lieu of Grease Trap (GT-1).

- C. Refer to plumbing fixture schedule. Modify specification for Shower (SH-1). SH-1 shall be a Willoughby model # CWRS-FA single station recessed wall shower, 16 gauge, 304 stainless steel shower panel, shower valve, and adjustable spray vandal resistant showerhead.
- D. Refer to fan schedule. Add note under exhaust fan #1. Note #1 shall read:
"Exhaust fan shall be painted a shade of grey to match roofing color as close as possible."

1MD-6 DRAWING M1.62 – Mechanical Schedules

- A. Refer to air handling unit schedule. Modify unit components to read the following:
AHU-1
Plenum return fan section with two access panels
Mixing section with access panel
Filter section
Preheat coil section
Supply fan section with access panels on both sides of fans
Cooling coil section
Reheat coil section
Supply plenum section with access panel

AHU-2
Outside air/relief air exhaust fan, filter, and preheat coil section with access panel
Access panel section
Energy recovery wheel
Access panel section
Supply fan section with access panel
Cooling coil, reheat coil, and supply discharge section with access panel"

1MD-7 DRAWING M2.21 – Pressbox Floor Plans, Details, Schedules

- A. Refer to Partial Grandstand Floor Plan Level 1 – HVAC. Modify routing of condensate piping. See attached Sketch Sheet AD1-M01 and AD1-M02.

Electrical Drawing Items

1ED-1 DRAWING E0.01 – Electrical Symbols and Abbreviations

- A. Occupancy Sensor Schedule: The following lighting control manufacturers are considered equivalent for bidding purposes if equal to the specified lighting control devices and are subject to final shop drawing review. Occupancy sensor devices may be rejected during the shop drawing review process if the Architect, Owner, or Engineer's review does not find the submitted lighting control device(s) to be equivalent: Greengate.
- B. Under the 'Security' heading delete the symbol and description for Access Control Device.

1ED-2 DRAWING E1.11A – Tennis/Support Floor Plan Level 1 – Area 'A' – Lighting

- A. Replace sheet in its entirety with Sheet E1.11A included with this addendum.

1ED-3 DRAWING E1.11B – Tennis/Support Floor Plan Level 1 – Area 'B' – Lighting

- A. Replace sheet in its entirety with Sheet E1.11B included with this addendum.

1ED-4 DRAWING E1.12A – Tennis/Support Floor Plan Level 2 – Area 'A' – Lighting

- A. Add illuminated sign location per attached supplemental drawing AD1-E01.

1ED-5 DRAWING E1.12B – Tennis/Support Floor Plan Level 2 – Area ‘B’ – Lighting

- A. Add illuminated sign location per attached supplemental drawing AD1-E02.

1ED-6 DRAWING E1.21A – Tennis/Support Floor Plan Level 1 – Area ‘A’ – Power

- A. Replace sheet in its entirety with Sheet E1.21A included with this addendum.

1ED-7 DRAWING E1.21B – Tennis/Support Floor Plan Level 1 – Area ‘B’ – Power

- A. Replace sheet in its entirety with Sheet E1.21B included with this addendum.

1ED-8 DRAWING E1.22A – Tennis/Support Floor Plan Level 2 – Area ‘A’ – Power

- A. Replace sheet in its entirety with Sheet E1.22A included with this addendum.

1ED-9 DRAWING E1.22B – Tennis/Support Floor Plan Level 2 – Area ‘B’ – Power

- A. Replace sheet in its entirety with Sheet E1.22B included with this addendum.

1ED-10 DRAWING E1.51 – Electrical Schedules

- A. Relay Cabinet Schedule RCP and RCPSL: The following relay cabinet manufacturers are considered equivalent for bidding purposes if equal to the specified and are subject to final shop drawing review. Relay cabinets may be rejected during the shop drawing review process if the Architect, Owner, or Engineer’s review does not find the submitted product(s) to be equivalent: Greengate.
- B. Lighting Panel Schedule ‘1LB’.
1. Provide 20A2P branch circuit breaker in poles #4, #6.
- C. Lighting Panel Schedule ‘LSH1’.
1. Change to 42 poles.
2. Provide 15A1P branch circuit breaker in poles #27, #28, #29, #30.
- D. Switchboard schedule ‘MS’.
1. Circuit 1, delete 60A3P spare and provide 50A3P active circuit breaker.
- E. Lighting Panel Schedule ‘TC3’.
1. Provide 20A2P branch circuit breaker in poles #21, #23.

1ED-11 DRAWING E1.52 - Electrical Schedules, Lighting Fixture Schedule.

- A. Modify light fixture type 19, 28, 35, 36, 37, 38 and 42 per attached supplemental drawing AD1-E05.
- B. Add light fixture type 43, 44, 45 and 46 per attached supplemental drawing AD1-E05.
- C. The following lighting fixture manufacturers are considered equivalent for bidding purposes if equal to the specified lighting fixtures and are subject to final shop drawing review. Light fixtures may be rejected during the shop drawing review process if the Architect, Owner or Engineers review does not find the submitted lighting fixture(s) to be equivalent.

Type:

13
19

Manufacturer:

Lithonia Lighting
National Lighting

21	Lithonia Lighting
28	Engineered Lighting Products
29	Lithonia Lighting
33	Lithonia Lighting
31	Lithonia Lighting
39	Meteor
42	National Lighting

1ED-12 DRAWING E1.61 – Electrical Details

- A. Detail 6 – Service Grounding. Revise the detail per attached supplemental drawing AD1-E06.

1ED-13 DRAWING E2.11 – Grandstand/Pressbox Floor Plans – Lighting

- A. Modify flag note number 2 to read as follows:

“Emergency lighting relay shown in this location for diagrammatic purpose only. Locate emergency lighting relay inside enclosure ELU next to relay cabinet RCPG.”

1ED-14 DRAWING E2.21 – Grandstand / Pressbox Floor Plans – Power

- A. Enlarged Grandstand Floor Plan Level 1 –Power

1. Provide two circuits for emergency lighting per attached supplemental drawing AD1-E03.

- B. Pressbox Power

1. In Storage/Overflow 266, provide #1/0 – ¾” c. from Telecommunications Ground Bar ‘TGB’ to ground buss in panel ‘PBL’

1ED-15 DRAWING E2.41 – Grandstand/Pressbox Electrical Details, Schedules & Riser, Relay Cabinet Schedule RCPG:

- A. The following relay cabinet manufacturers are considered equivalent for bidding purposes if equal to the specified and are subject to final shop drawing review. Relay cabinet may be rejected during the shop drawing review process if the Architect, Owner, or Engineer’s review does not find the submitted product(s) to be equivalent: Greengate.

1ED-16 DRAWING E3.11 - Outdoor Tennis Floor Plans – Lighting

- A. Outdoor Tennis Floor Plan Level 1 Tennis Courts – Lighting

1. Provide two circuits for emergency lighting per attached supplemental drawing AD1-E04.

1ED-17 DRAWING E3.21 – Outdoor Tennis Floor Plans – Power

- A. Outdoor Tennis Floor Plan Level 1 Tennis Courts – Power

1. In Tennis Storage 003 , provide #6 – ¾” c. from Telecommunications Ground Bar ‘TGB’ to ground buss in panel ‘OTL’.

1ED-18 DRAWING E4.11 – Tickets Floor Plans – Electrical

- A. Tickets Floor Plan – Power

1. In Tickets 100, provide #6 – ¾” c. from Telecommunications Ground Bar ‘TGB’ to ground buss in panel ‘TB’.

Technology Drawing Items

1TD-1 DRAWING T0.10 – Site Plan – Telecom

A. Replace sheet in its entirety with Sheet T0.10 included with this addendum.

1TD-2 DRAWING T0.20 – Telecom Schematics

A. Clarify soccer press box pathway and TR room number per attached supplemental Drawing AD1-T03.

1TD-3 DRAWING T0.30 – Telecom Details

A. Detail 5 Note 2 added to read as follows “Coordinate mounting, installation and hole drilling with pole manufacturer, Electrical Contractor and Architect.”

1TD-4 DRAWING T1.11A – Tennis/Support Floor Plan Level 1 – Area A – Telecom

A. Clarify card reader location and security camera mounting per attached supplemental Drawings AD1-T01.

1TD-5 DRAWING T1.11B – Tennis/Support Floor Plan Level 1 – Area B – Telecom

A. Replace sheet in its entirety with Sheet T1.11B included with this addendum.

1TD-6 DRAWING T1.12A – Tennis/Support Floor Plan Level 2 – Area A – Telecom

A. Replace sheet in its entirety with Sheet T1.12A included with this addendum.

1TD-7 DRAWING T1.12B – Tennis/Support Floor Plan Level 2 – Area B – Telecom

A. Replace sheet in its entirety with Sheet T1.12B included with this addendum.

1TD-8 DRAWING T2.11 – Grandstand/Pressbox Floor Plans and Details – Telecom

A. Clarify storage 266 conduit location and requirements per attached supplemental Drawings AD1-T02.

1TD-9 DRAWING T1.31 – Telecom Details

A. Replace sheet in its entirety with Sheet T1.31 included with this addendum.

End of Addendum 1

SECTION 07 53 23 - ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Adhered ethylene-propylene-diene-monomer (EPDM) roofing system.
 - 2. Vapor barrier.
 - 3. Roof insulation.
 - 4. Roof pavers supported on pedestals.
- B. Related Requirements:
 - 1. Section 05 31 00 "Steel Decking" for furnishing acoustical deck rib insulation.
 - 2. Section 06 10 00 "Rough Carpentry" for wood nailers, curbs, and blocking.
 - 3. Section 07 62 00 "Sheet Metal Flashing and Trim" for metal roof flashings and counterflashings.

1.3 DEFINITIONS

- A. Roofing Terminology: Definitions in ASTM D 1079 and glossary of NRCA's "The NRCA Roofing and Waterproofing Manual" apply to work of this Section.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Roofing Conference: Conduct conference at Project site.
 - 1. Meet with Owner, Architect, roofing Installer, roofing system manufacturer's representative, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
 - 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
 - 3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
 - 5. Review structural loading limitations of roof deck during and after roofing.
 - 6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.
 - 7. Review governing regulations and requirements for insurance and certificates if applicable.
 - 8. Review temporary protection requirements for roofing system during and after installation.
 - 9. Review roof observation and repair procedures after roofing installation.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. LEED Submittals:
 - 1. Product Data for Credit IEQ 4.1: For adhesives and sealants used inside the weatherproofing system, documentation including printed statement of VOC content.
 - 2. Product Data for Credit MR 4: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating cost for each product having recycled content.

- C. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other work, including:
 - 1. Base flashings and membrane terminations.
 - 2. Tapered insulation, including slopes.
 - 3. Include setting drawings showing layout, sizes, sections, profiles, and joint details of pedestal-supported concrete pavers.
- D. Samples for Verification: For the following products:
 - 1. Roof paver, 4-by-4-inch square, in each color and texture required.
 - 2. Walkway pads or rolls, of color required.
 - 3. Paver pedestal assembly.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and manufacturer.
- B. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
- C. Product Test Reports: For components of roofing system, tests performed by manufacturer and witnessed by a qualified testing agency.
- D. Sample Warranties: For manufacturer's special warranties.

1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For roofing system to include in maintenance manuals.

1.8 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A qualified manufacturer that is UL listed for roofing system identical to that used for this Project.
- B. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
 - 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.

1.10 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.11 WARRANTY

- A. Roofing Manufacturer's Warranty: Manufacturer's non-prorated, no-dollar-limit warranty in which the manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
 - 1. Special warranty includes membrane roofing, base flashings, roof insulation, fasteners, cover boards, roofing accessories, and other components of roofing system.
 - 2. Warranty includes removal of roof paver system to expose membrane and reinstallation of the same upon completion of repairs.
 - 3. Warranty Period: 20 years from date of Substantial Completion.
- B. Roofing Installer's Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering Work of this Section, including all components of roofing system such as membrane roofing, base flashing, roof insulation, fasteners, cover boards, and walkway products, for the following warranty period:
 - 1. Warranty includes removal of roof paver system to expose membrane and reinstallation of the same upon completion of repairs.
 - 2. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain components including roof insulation and fasteners for roofing system from same manufacturer as membrane roofing or manufacturer approved by membrane roofing manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. General Performance: Installed roofing and base flashings shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Roofing and base flashings shall remain watertight.
 - 1. Accelerated Weathering: Roofing system shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
 - 2. Impact Resistance: Roofing system shall resist impact damage when tested according to ASTM D 3746 or ASTM D 4272.
- B. Thermal Performance: Provide roofing system with minimum R-Value of not less than 24, determined according to specified design R-value, at any given point of installation.
- C. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.
- D. Roofing System Design: Provide membrane roofing system that is identical to systems that have been successfully tested by a qualified testing and inspecting agency to resist uplift pressure calculated according to ASCE/SEI 7.
- E. Exterior Fire-Test Exposure: ASTM E 108 or UL 790, Class A; for application and roof slopes indicated; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

2.3 EPDM ROOFING

- A. EPDM: ASTM D 4637, Type I, nonreinforced, uniform, flexible EPDM sheet.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Carlisle SynTec Incorporated.
 - b. Firestone Building Products.
 - c. GenFlex Roofing Systems.
 - d. Versico Incorporated.
 - 2. Thickness: 60 mils, nominal.
 - 3. Exposed Face Color: Black.

2.4 AUXILIARY ROOFING MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with roofing.
 - 1. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.
- B. Sheet Flashing: 60-mil- thick EPDM, partially cured or cured, according to application.
- C. Bonding Adhesive: Manufacturer's standard.
- D. Seaming Material: Manufacturer's standard, synthetic-rubber polymer primer and 3-inch- wide minimum, butyl splice tape with release film.
- E. Lap Sealant: Manufacturer's standard, single-component sealant, colored to match membrane roofing.
- F. Water Cutoff Mastic: Manufacturer's standard butyl mastic sealant.
- G. Metal Termination Bars: Manufacturer's standard, predrilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch thick; with anchors.
- H. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Global 4470, designed for fastening membrane to substrate, and acceptable to roofing system manufacturer.
- I. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, molded pipe boot flashings, preformed inside and outside corner sheet flashings, reinforced EPDM securement strips, T-joint covers, in-seam sealants, termination reglets, cover strips, and other accessories.

2.5 ROOF INSULATION

- A. General:
 - 1. Provide preformed roof insulation boards manufactured or approved by roofing manufacturer, selected from manufacturer's standard sizes suitable for application, of thicknesses required to achieve specified R-value.
 - 2. Provide each insulation board with factory-applied markings indicating manufacturer's name, ASTM type, class and grade, name of inspection agency, and ICC Evaluation Report number. Additionally, include an inspection agency certificate, including flame-spread index, smoke-developed index, and thermal-resistance (R-value) with Product Data submittal and with each shipment of insulation board.
- B. Roof Insulation: UL classified; FM Class 1 approved; in compliance with FM 4450 or UL 1256 for direct-to-steel deck installation where applicable. Provide one of the following:
 - 1. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1, Grade 2, felt or glass-fiber mat facer on both major surfaces.
 - a. R-value of 5.0 per inch shall be used to calculate the required thickness of polyisocyanurate board insulation.

2. Expanded-Polystyrene Board Insulation (EPS): ASTM C 578, Type II, 1.35-lb/cu. ft. minimum density.
 - a. R-value of 4.6 per inch shall be used to calculate the required thickness of the EPS board insulation
- C. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes of any specified roof insulation type. Fabricate to slopes indicated.
 1. Provide factory-tapered insulation boards fabricated to provide a positive in-place slope of 1/4 inch per foot (minimum) for tapered insulation and 1/2 inch per foot (minimum) at crickets and back slopes.

2.6 INSULATION ACCESSORIES

- A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatibility with roofing.
- B. Insulation Adhesive: Insulation manufacturer's recommended adhesive formulated to attach roof insulation and cover board to substrate or to another insulation layer as follows:
 1. Bead-applied, low-rise, one-component or multicomponent urethane adhesive.
- C. Cover Board: Subject to compliance with requirements, provide the following:
 1. Glass-Mat, Water-Resistant Gypsum Cover Board: ASTM C 1177/C 1177M; 1/4 inch thick.
 - a. Product: Subject to compliance with requirements, provide the following:
 - 1) Georgia-Pacific Corporation; Dens Deck.
 - 2) USB Securock Glass-Mat Roof Board.
- A. Protection Mat: Woven or nonwoven polypropylene, polyolefin, or polyester fabric, water permeable and resistant to UV degradation, type and weight as recommended by roofing system manufacturer for application.

2.7 WALKWAYS

- A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, solid-rubber, slip-resisting, surface-textured walkway pads, approximately 3/16 inch thick and acceptable to roofing system manufacturer.

2.8 ROOF PAVERS

- A. Heavyweight Roof Pavers: Heavyweight, hydraulically pressed, concrete units, square edged with top edges beveled 3/16 inch, factory cast for use as roof pavers; absorption not greater than 5 percent, ASTM C 140; no breakage and maximum 1 percent mass loss when tested for freeze-thaw resistance, ASTM C 67; and as follows:
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Hanover Architectural Products.
 - b. Wausau Tile, Inc.; Terra-Paving Division.
 2. Size: 24 by 24 inches. Manufacture pavers to dimensional tolerances of plus or minus 1/16 inch in length, height, and thickness.
 3. Thickness: 2-1/4 inches, nominal.
 4. Weight: 22 lb/sq. ft.
 5. Compressive Strength: 7500 psi, minimum.
 6. Colors and Textures: As selected by Architect from manufacturer's standard range.
- B. Paver Supports: Paver manufacturer's standard SBR rubber, high-density polyethylene, or polyurethane paver support assembly, including adjustable or stackable pedestals, shims, and spacer tabs for joint spacing of 1/8 to 3/16 inch.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work:
 - 1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
 - 2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
 - 3. Verify that concrete-curing compounds that will impair adhesion of roofing components to roof deck have been removed.
 - 4. Verify that minimum concrete drying period recommended by roofing system manufacturer has passed.
 - 5. Verify that concrete substrate is visibly dry and free of moisture. Test for capillary moisture by plastic sheet method according to ASTM D 4263.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.

3.3 ROOFING INSTALLATION, GENERAL

- A. Install roofing system according to roofing system manufacturer's written instructions.
- B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

3.4 INSULATION INSTALLATION

- A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.
- B. Comply with roofing system and insulation manufacturer's written instructions for installing roof insulation.
- C. Install tapered insulation under area of roofing to conform to slopes indicated.
- D. Install insulation under area of roofing to achieve required thickness. Install two or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches in each direction.
- E. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.
- F. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch with insulation.
 - 1. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.

- G. Install cover board over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches in each direction. Loosely butt cover boards together and fasten to insulation.
- H. Adhered Insulation and Cover Board: Adhere each layer of insulation and cover board with manufacturer's approved adhesive as follows:
 1. Set each layer of insulation and cover board in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
 2. Install insulation and cover board to resist uplift pressure at corners, perimeter, and field of roof.

3.5 ADHERED MEMBRANE ROOFING INSTALLATION

- A. Adhere roofing over area to receive roofing according to membrane roofing system manufacturer's written instructions. Unroll membrane roofing and allow to relax before installing.
- B. Start installation of roofing in presence of roofing system manufacturer's technical personnel.
- C. Accurately align roofing, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- D. Bonding Adhesive: Apply to substrate and underside of roofing at rate required by manufacturer, and allow to partially dry before installing roofing. Do not apply to splice area of roofing.
- E. In addition to adhering, mechanically fasten roofing securely at terminations, penetrations, and perimeters.
- F. Apply roofing with side laps shingled with slope of roof deck where possible.
- G. Tape Seam Installation: Clean and prime both faces of splice areas, apply splice tape, and firmly roll side and end laps of overlapping roofing according to manufacturer's written instructions to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of roofing terminations.
- H. Repair tears, voids, and lapped seams in roofing that do not comply with requirements.
- I. Spread sealant or mastic bed over deck-drain flange at roof drains, and securely seal membrane roofing in place with clamping ring.

3.6 BASE FLASHING INSTALLATION

- A. Install sheet flashings and preformed flashing accessories, and adhere to substrates according to roofing system manufacturer's written instructions.
- B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam area of flashing.
- C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- D. Clean splice areas, apply splicing cement, and firmly roll side and end laps of overlapping sheets to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of sheet flashing terminations.
- E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.7 WALKWAY INSTALLATION

- A. Flexible Walkways: Install walkway products in locations indicated. Adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's written instructions.

3.8 PAVER INSTALLATION

- A. Concrete Paver Installation
 1. Install protection mat over entire area of roofing receiving concrete pavers.
 2. Install concrete pavers in locations indicated according to manufacturer's written instructions.
 3. Accurately install paver pedestals and accessories in locations and to elevations required. Adjust for final level and slope.
 4. Loosely lay pavers on pedestals, maintaining a uniform open joint width. Tightly seat pavers against spacers to eliminate lateral movement or drift of paving assembly. Align joint patterns parallel in each direction.
 5. Lay out pavers to avoid less-than-half-width pavers at perimeter or other terminations.
 6. Install pavers to vary not more than 1/16 inch in elevation between adjacent pavers or more than 1/16 inch from surface plane elevation of individual paver.
 7. Limit variation in paving installation to within 1/4 inch in 10 feet of surface plane in any direction; noncumulative.

3.9 FIELD QUALITY CONTROL

- A. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion. Coordinate date and time of final roof inspection with Owner's Representative to allow attendance.
- B. Flood Testing: Flood test each roof areas receiving roof pavers for leaks, according to recommendations in ASTM D 5957, after completing installation of roof membrane but before overlying construction is placed. Install temporary containment assemblies, plug or dam drains, and flood with potable water.
 1. Flood to a minimum depth of 1 inch, not exceeding a depth of 4 inches. Maintain 2 inches of clearance from top of sheet flashings.
 2. Flood each area for 24 hours.
 3. After flood testing, repair leaks, repeat flood tests, and make further repairs until waterproofing installation is watertight.
 4. Owner may engage an independent testing agency to observe flood testing and examine underside of decks and terminations for evidence of leaks during flood testing.
 5. Prepare test and inspection report.
- C. Repair or remove and replace components of roofing system where inspections indicate that they do not comply with specified requirements.
- D. Additional testing and inspecting, at Contractor's expense, will be performed to determine if replaced or additional work complies with specified requirements.

3.10 PROTECTING AND CLEANING

- A. Protect membrane roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove membrane roofing system that does not comply with requirements, repair substrates, and repair or reinstall membrane roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

3.11 ROOFING INSTALLER'S WARRANTY

Owner

Address

Project

Project Address

Date of Final Acceptance

Prime Contractor

Roofing Contractor

Address

Address

Phone Number

Phone Number

This warranty stipulates that the above-named Contractor shall, during a period of two (2) years from the date of final acceptance of the work, maintain the roof membrane and flashing systems in a watertight condition and repair all defects which result from faulty workmanship or defective materials, without further cost to the Owner, including replacement of any wet insulation caused by such defects.

Warranty includes removal of roof paver system to expose membrane and reinstallation of the same upon completion of repairs.

Excluded from this warranty may be any and all damage to said roof, the buildings or their contents caused by acts or omissions of the Owner; fire, lightning, winds of peak gust speeds of 72 mph or higher, hailstorm, or other unusual phenomenon of the elements; movement or failure of the supporting building structure that causes membrane or flashing failure; or vapor condensation beneath the roof.

Exclude from this warranty any damages to the building structure or the interior contents.

Before expiration of the above warranty period, the Roofing Contractor shall inspect the roof in the presence of the Owner and make necessary correction of all deficiencies not considered normal. The warranty shall remain in force until the necessary repair work has been done.

PRIME CONTRACTOR

ROOFING CONTRACTOR

Signed

Signed

Title

Title

Date

Date

OWNER ACCEPTANCE

Signed

Title

Date

END OF SECTION 07 53 23

SECTION 10 26 00 - WALL AND DOOR PROTECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes corner guards.

1.3 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each impact-resistant wall-protection unit.
- B. Shop Drawings: For each impact-resistant wall-protection unit showing locations and extent. Include sections, details, and attachments to other work.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store impact-resistant wall-protection units in original undamaged packages and containers inside well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.

1.5 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install impact-resistant wall-protection units until building is enclosed and weatherproof, wet work is complete and dry, and HVAC system is operating and maintaining temperature at 70 deg F for not less than 72 hours before beginning installation and for the remainder of the construction period.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Stainless-Steel Sheet: ASTM A 240/A 240M.

2.2 CORNER GUARDS

- A. Corner Guard Surface-Mounted, Metal Corner Guards: Fabricated from one-piece, formed or extruded metal with formed edges.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. ARDEN Architectural Specialties, Inc.
 - b. Balco, Inc.
 - c. Construction Specialties, Inc.
 - d. IPC Door and Wall Protection Systems; Division of InPro Corporation.
 - e. Korogard Wall Protection Systems; Division of RJF International Corporation.
 - f. Pawling Corporation.
 - 2. Material: Stainless steel, Type 304.
 - a. Thickness: Minimum 0.053 inch.
 - b. Finish: Directional satin, No. 4.
 - 3. Wing Size: Nominal 3 1/2 by 3 1/2 inches.
 - 4. Corner Radius: 1/8 inch.
 - 5. Height: 4'-0", unless otherwise indicated.
 - 6. Mounting: Factory prep, countersunk flat head screw installation.

2.3 FABRICATION

- A. Fabricate impact-resistant wall-protection units to comply with requirements indicated for design, dimensions, and member sizes, including thicknesses of components.
- B. Assemble components in factory to greatest extent possible to minimize field assembly. Disassemble only as necessary for shipping and handling.
- C. Fabricate components with tight seams and joints with exposed edges rolled. Provide surfaces free of wrinkles, chips, dents, uneven coloration, and other imperfections. Fabricate members and fittings to produce flush, smooth, and rigid hairline joints.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and wall areas, with Installer present, for compliance with requirements for installation tolerances, fire rating, and other conditions affecting performance of work.
 - 1. Examine walls to which impact-resistant wall protection will be attached for blocking, grounds, and other solid backing that have been installed in the locations required for secure attachment of support fasteners.
 - 2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Complete finishing operations, including painting, before installing impact-resistant wall-protection system components.
- B. Before installation, clean substrate to remove dust, debris, and loose particles.

3.3 INSTALLATION

- A. General: Install impact-resistant wall-protection units level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.
 - 1. Install impact-resistant wall-protection units in locations indicated on Drawings.
 - 2. Provide mounting hardware, anchors, and other accessories required for a complete installation.
 - a. Provide anchoring devices to withstand imposed loads.
- B. Immediately after completion of installation, clean according to manufacturer's instructions.

END OF SECTION 10 26 00

SECTION 12 24 13 - ROLLER WINDOW SHADES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Motor-operated roller shades with single and double rollers.
 - 2. Manually operated roller shades with single rollers.
- B. Related Requirements:
 - 1. Section 061000 "Rough Carpentry" for wood blocking and grounds for mounting roller shades and accessories.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions for roller shades.
- B. Shop Drawings: Show fabrication and installation details for roller shades, including shadeband materials, their orientation to rollers, and their seam and batten locations.
 - 1. Motor-Operated Shades: Include details of installation and diagrams for power, signal, and control wiring.
- C. Samples: For each exposed product and for each color and texture specified, 10 inches long.
- D. Roller-Shade Schedule: Use same designations indicated on Drawings.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For roller shades to include in maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roller shades in factory packages, marked with manufacturer, product name, and location of installation using same designations indicated on Drawings.

1.7 FIELD CONDITIONS

- A. Environmental Limitations: Do not install roller shades until construction and finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operating hardware of operable glazed units through entire operating range. Notify Architect of installation conditions that vary from Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: Subject to compliance with requirements, provide roller window shades by one of the following:
 - 1. Lutron Electronics Co., Inc.
 - 2. MechoShade Systems, Inc.
 - 3. Nysan Shading Systems
- B. Source Limitations: Obtain roller shades from single source from single manufacturer.

2.2 MOTOR-OPERATED, SINGLE-ROLLER SHADES

- A. Motorized Operating System: Provide factory-assembled, shade-operator system of size and capacity and with features, characteristics, and accessories suitable for conditions indicated, complete with electric motor and factory-prewired motor controls, power disconnect switch, enclosures protecting controls and operating parts, and accessories required for reliable operation without malfunction. Include wiring from motor controls to motors. Coordinate operator wiring requirements and electrical characteristics with building electrical system.
 - 1. Electrical Components: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
 - 2. Electric Motor: Manufacturer's standard tubular, enclosed in roller.
 - a. Electrical Characteristics: Single phase, 24 V, 60 Hz.
 - 3. Remote Control: Electric controls with NEMA ICS 6, Type 1 enclosure for recessed or flush mounting. Provide the following for remote-control activation of shades:
 - a. Keyed Control Station: Keyed, momentary-contact, three-position, switch-operated control station with open, close, and off functions. Provide two keys per station.
 - b. Color: As selected by Architect from manufacturer's full range.
 - 4. Limit Switches: Adjustable switches interlocked with motor controls and set to stop shades automatically at fully raised and fully lowered positions.
- B. Rollers: Corrosion-resistant steel or extruded-aluminum tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of shadebands indicated without deflection. Provide with permanently lubricated drive-end assemblies and idle-end assemblies designed to facilitate removal of shadebands for service.
 - 1. Direction of Shadeband Roll: Regular, from back of roller.
 - 2. Shadeband-to-Roller Attachment: Manufacturer's standard method.
- C. Mounting Hardware: Brackets or endcaps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.
- D. Shadebands:
 - 1. Shadeband Material: Single thickness, non-raveling 0.030-inch thick vinyl fabric, woven from 0.018- inch diameter extruded vinyl yarn comprising 21-percent polyester and 79-percent vinyl.
 - a. Color, Pattern, and Opacity: As indicated in Section 090000 "Finish and Materials Legend."
 - 2. Shadeband Bottom (Hem) Bar: Steel or extruded aluminum.
 - a. Type: Enclosed in sealed pocket of shadeband material.
- E. Installation Accessories:
 - 1. Exposed Headbox: Rectangular, extruded-aluminum enclosure including front fascia, top and back covers, endcaps, and removable bottom closure.
 - a. Height: Manufacturer's standard height required to enclose roller and shadeband when shade is fully open, but not less than 3 inches.
 - 2. Recessed Shade Pocket: Rectangular, extruded-aluminum enclosure designed for recessed ceiling installation; with front, top, and back formed as one piece, end plates, and removable bottom closure panel.
 - a. Provide pocket with lip at lower edge to support acoustical ceiling panel.

3. Installation Accessories Color and Finish: As selected from manufacturer's full range.

2.3 MOTOR-OPERATED, DOUBLE-ROLLER SHADES

- A. Motorized Operating Systems: Provide factory-assembled, shade-operator systems of size and capacity and with features, characteristics, and accessories suitable for conditions indicated, complete with electric motor and factory-rewired motor controls, power disconnect switch, enclosures protecting controls and operating parts, and accessories required for reliable operation without malfunction. Include wiring from motor controls to motors. Coordinate operator wiring requirements and electrical characteristics with building electrical system.
 1. Electrical Components: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
 2. Electric Motor: Manufacturer's standard tubular, enclosed in rollers.
 - a. Electrical Characteristics: Single phase, 24 V, 60 Hz.
 3. Remote Control: Electric controls with NEMA ICS 6, Type 1 enclosure for recessed or flush mounting. Provide the following for remote-control activation of shades:
 - a. Keyed Individual/Group Control Station: Keyed, momentary-contact, three-position, switch-operated control station with open, close, and off functions. Provide two keys per station.
 - b. Color: As selected by Architect from manufacturer's full range.
 4. Limit Switches: Adjustable switches, interlocked with motor controls and set to stop shade movement automatically at fully raised and fully lowered positions.
 5. Operating Features:
 - a. Group switching with integrated switch control; single faceplate for multiple switch cutouts.
- B. Rollers: Corrosion-resistant steel or extruded-aluminum tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of shadebands indicated without deflection. Provide with permanently lubricated drive-end assemblies and idle-end assemblies designed to facilitate removal of shades for service.
 1. Double-Roller Mounting Configuration: Offset, outside shade over and inside shade under.
 2. Shadeband-to-Roller Attachment: Manufacturer's standard method.
- C. Mounting Hardware: Brackets or endcaps, corrosion resistant and compatible with roller mounting configuration, roller assemblies, operating mechanisms, installation accessories, and installation locations and conditions indicated.
- D. Roller-Coupling Assemblies: Coordinated with operating mechanism and designed to join up to three inline rollers into a multiband shade that is operated by one roller drive-end assembly.
- E. Shadebands:
 1. Shadeband Material: Single thickness, non-raveling 0.030-inch thick vinyl fabric, woven from 0.018- inch diameter extruded vinyl yarn comprising 21-percent polyester and 79-percent vinyl.
 - a. Color, Pattern, and Opacity: As indicated in Section 090000 "Finish and Materials Legend."
 2. Shadeband Bottom (Hem) Bar: Steel or extruded aluminum.
 - a. Type: Enclosed in sealed pocket of shadeband material.
- F. Installation Accessories:
 1. Recessed Shade Pocket: Rectangular, extruded-aluminum enclosure designed for recessed ceiling installation; with front, top, and back formed as one piece, end plates, and removable bottom closure panel.
 - a. Provide pocket with lip at lower edge to support acoustical ceiling panel.
 2. Installation Accessories Color and Finish: As selected from manufacturer's full range.

2.4 ROLLER-SHADE FABRICATION

- A. Product Safety Standard: Fabricate roller shades to comply with WCMA A 100.1, including requirements for flexible, chain-loop devices; lead content of components; and warning labels.

- B. Unit Sizes: Fabricate units in sizes to fill window and other openings as follows, measured at 74 deg F:
 - 1. Outside of Jamb Installation: Width and length as indicated, with terminations between shades of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.

2.5 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS

- A. Chain-and-Clutch Operating Mechanisms: With continuous-loop bead chain and clutch that stops shade movement when bead chain is released; permanently adjusted and lubricated.
 - 1. Bead Chains: Stainless steel.
 - a. Loop Length: Full length of roller shade.
 - b. Limit Stops: Provide upper and lower ball stops.
- B. Rollers: Corrosion-resistant steel or extruded-aluminum tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of shadebands indicated without deflection. Provide with permanently lubricated drive-end assemblies and idle-end assemblies designed to facilitate removal of shadebands for service.
 - 1. Roller Drive-End Location: Right side of inside face of shade.
 - 2. Direction of Shadeband Roll: Regular, from back of roller.
- C. Mounting Hardware: Brackets or endcaps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.
- D. Roller-Coupling Assemblies: Coordinated with operating mechanism and designed to join up to three inline rollers into a multiband shade that is operated by one roller drive-end assembly.
- E. Shadebands:
 - 1. Shadeband Material: Single thickness, non-raveling 0.030-inch thick vinyl fabric, woven from 0.018- inch diameter extruded vinyl yarn comprising 21-percent polyester and 79-percent vinyl.
 - a. Color, Pattern, and Opacity: As indicated in Section 090000 "Finish and Materials Legend."
 - 2. Shadeband Bottom (Hem) Bar: Steel or extruded aluminum.
 - a. Type: Enclosed in sealed pocket of shadeband material.
- F. Installation Accessories:
 - 1. Front Fascia: Aluminum extrusion that conceals front and underside of roller and operating mechanism and attaches to roller endcaps without exposed fasteners.
 - a. Shape: L-shaped.
 - b. Height: Manufacturer's standard height required to conceal roller and shadeband when shade is fully open.
 - 2. Endcap Covers: To cover exposed endcaps.
 - 3. Installation Accessories Color and Finish: As selected from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, accurate locations of connections to building electrical system, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ROLLER-SHADE INSTALLATION

- A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions.

1. Opaque Shadebands: Located so shadeband is not closer than 2 inches to interior face of glass. Allow clearances for window operation hardware.

B. Electrical Connections: Connect motor-operated roller shades to building electrical system.

3.3 ADJUSTING

A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.4 CLEANING AND PROTECTION

A. Clean roller-shade surfaces after installation, according to manufacturer's written instructions.

B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that roller shades are without damage or deterioration at time of Substantial Completion.

C. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

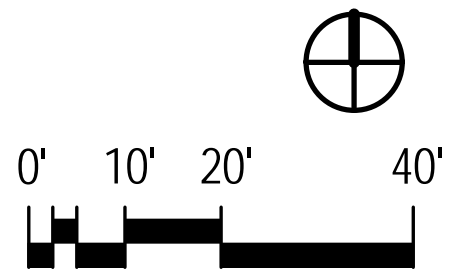
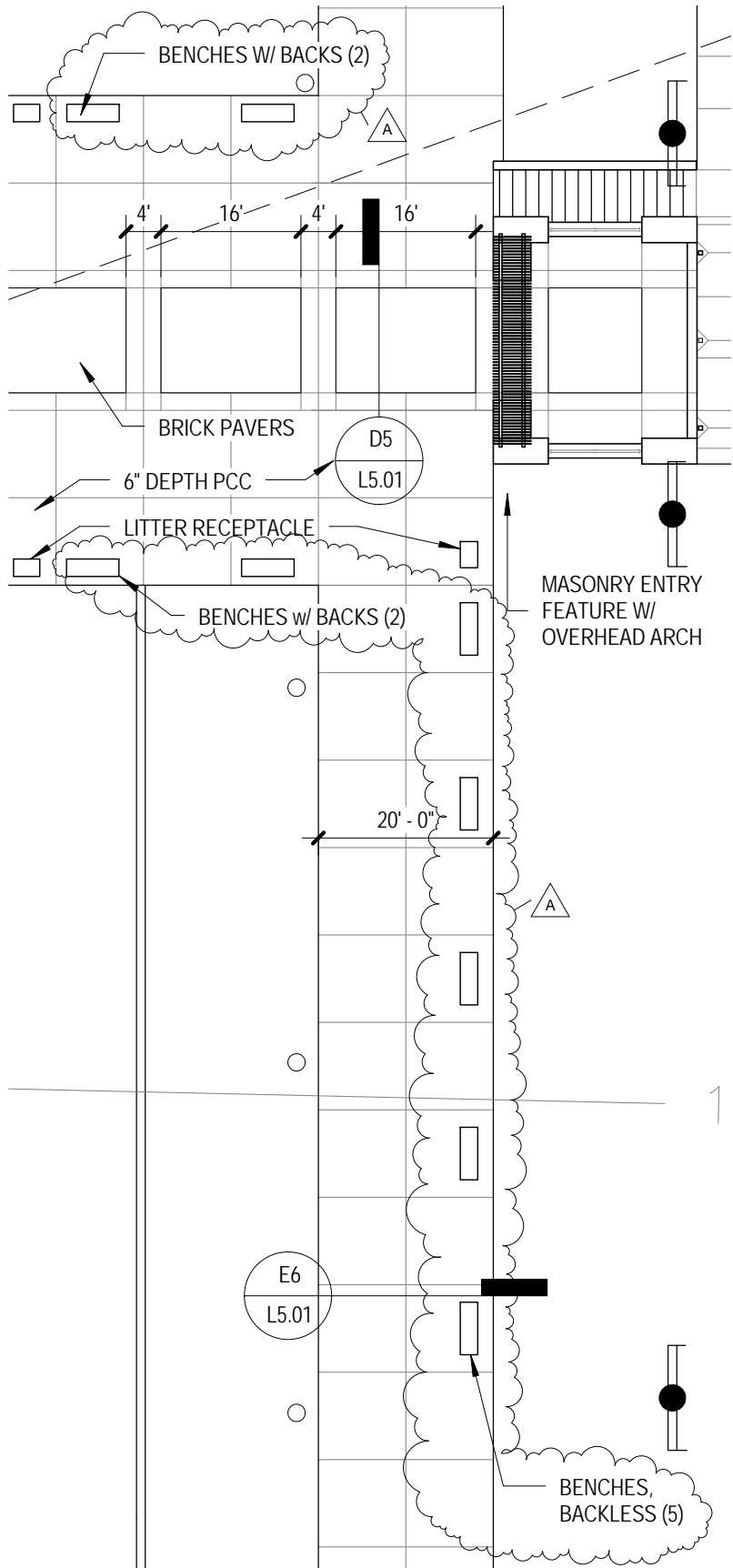
3.5 ROLLER WINDOW SHADE SCHEDULE

RM No.	Room	Location	Qty	Approx. Size	Sill Ht.	Type	Operation	Notes	
202	Conference	East Wall	4	4'-0" x 10'-0"	2"	RS-1 - Dual Shades	Motorized		
			1	3'-2" x 10'-0"	2"	RS-1 - Dual Shades	Motorized		
			1	3'-4" x 10'	2"	RS-1 - Dual Shades	Motorized		
			South Wall	3	4'-0" x 8'-0"	2"	RS-1 - Dual Shades	Motorized	A.
				2	3'-2" x 8'-0"		RS-1 - Dual Shades	Motorized	
				West Wall	2	4'-0" x 10'-0"	2"	RS-1 - Dual Shades	Motorized
CR2B	Corridor	South Wall	21	5'-0" x 8'-0"	2"	RS-2	Manual		
		South Wall	1	7'-0" x 8'-0"	2"	RS-2	Manual	B.	
LB1A	Lobby	South Wall - Adjacent to Vestibule	1	3'-6" x 9'-0"	2"	RS-2	Motorized		
		South Wall - Adjacent to Vestibule	2	4'-0" x 9'-0"	2"	RS-2	Motorized		
		South Wall - Two Story - Lower	3	4'-0" x 12'-0"	2"	RS-2	Motorized	C.	
		South Wall - Two Story - Upper	3	4'-0" x 8'-0"	None	RS-2	Motorized		
LB2A	Spectator Lounge	South Wall	2	5'-0" x 8'-0"	2"	RS-2	Manual		
			1	3'-0" x 8'-0"	2"	RS-2	Manual		

SCHEDULE NOTES:

- A. Shade at door to be controlled separately from room shades.
- B. 7'-0" wide shade to be installed to encompass the window and door adjacent side lite
- C. Mount shade housing for lower shades below beam. See Elevation B1/A1.86. Exposed housing to be clear anodized aluminum.

END OF SECTION 12 24 13



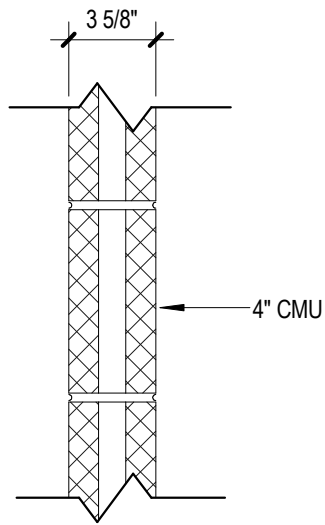
TOILET AND BATH ACCESSORY KEY:

ITEM	DESCRIPTION	MANUFACTURER
CS	CHANGING STATION	KOALA KB 110-SSRE
MR	24"W X 42"H	BOBRICK B 290 2442
MR-F	24"W X 72"H	BOBRICK B 290 2472
TR-1	TRASH RECEPTACLE	BOBRICK B 3644
SND	SANITARY NAPKIN DISPOSAL	BOBRICK B 254
SNV	NAPKIN/TAMPON VENDOR	BOBRICK B 352-25
GB36	1 1/4" DIA. X 36" GRAB BAR	BOBRICK B 5806 36
GB42	1 1/4" DIA. X 42" GRAB BAR	BOBRICK B 5806 42
GBL	1 1/4" DIA., 18" X 36" "L" GRAB BAR	BOBRICK B 6861
SC	SHOWER CURTAIN AND HOOKS	BOBRICK B 204-2, 204-1
SCR	SHOWER CURTAIN ROD	BOBRICK B 6047
MP-BR	MOP BROOM HOLDER	BOBRICK B 223 X 24
TTD	TOILET TISSUE DISPENSER	KIMBERLY CLARK 39731 (LARGE-DOUBLE ROLL)
STTD	SINGLE ROLL TOILET TISSUE DISPENSER	KIMBERLY CLARK K09554 (LARGE-SINGLE ROLL)
PTD	PAPER TOWEL DISPENSER	KIMBERLY CLARK K09996 (ROLL DISPENSER)
SD	SOAP DISPENSER	IMPACT- IMP 9331 (30 OZ TANK)
FSS	FOLDING SHOWER SEAT	BOBRICK B 517
TH	TOWEL HOOK	BOBRICK B-671
UTSH	UTILITY SHELF	12" DEEP X LENGTH ON PLAN (16GA STAINLESS STEEL)

*ALL ACCESSORIES ARE CONTRACTOR FURNISHED AND INSTALLED EXCEPT DSD, TTD AND STTD WHICH ARE OFCI

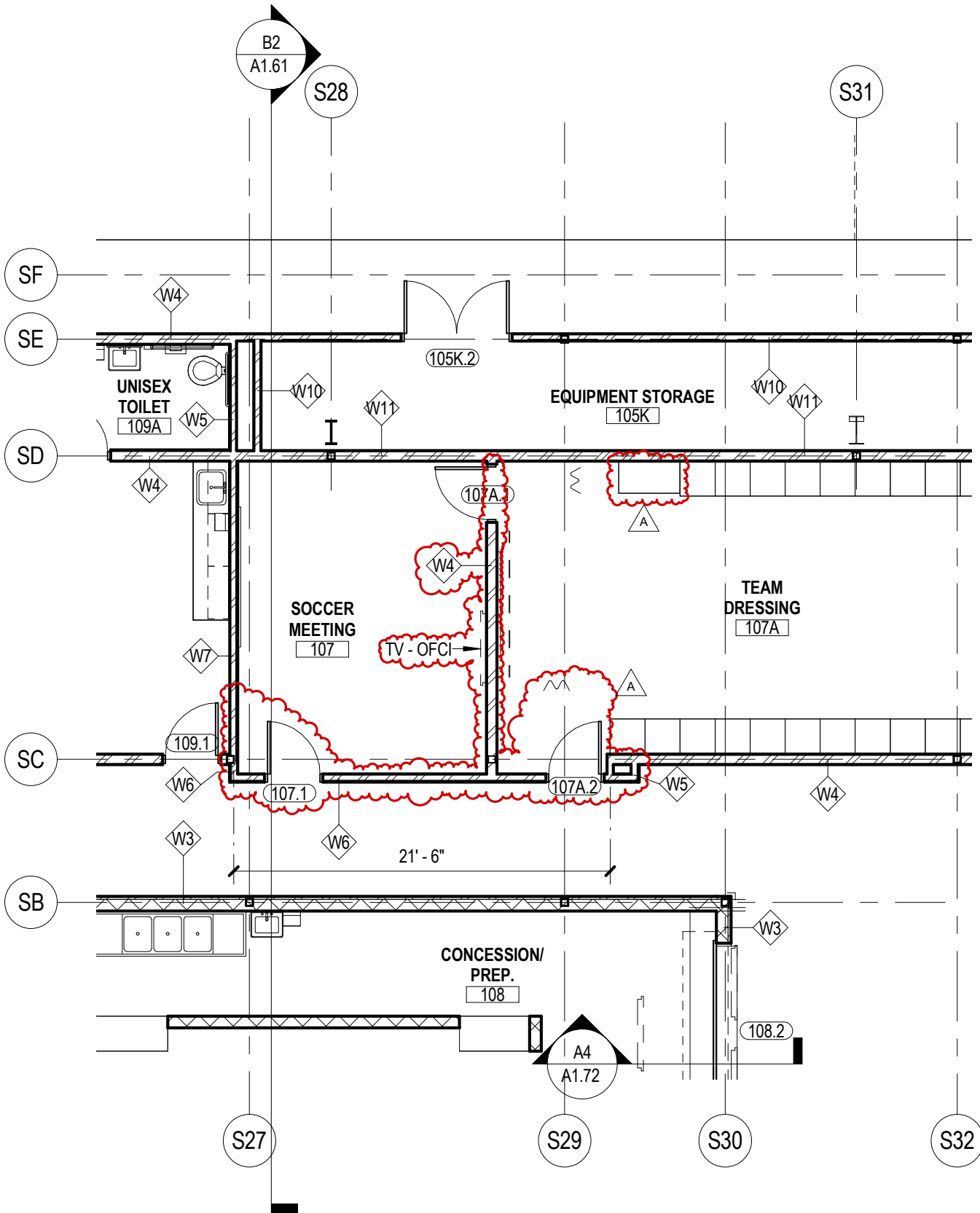


A



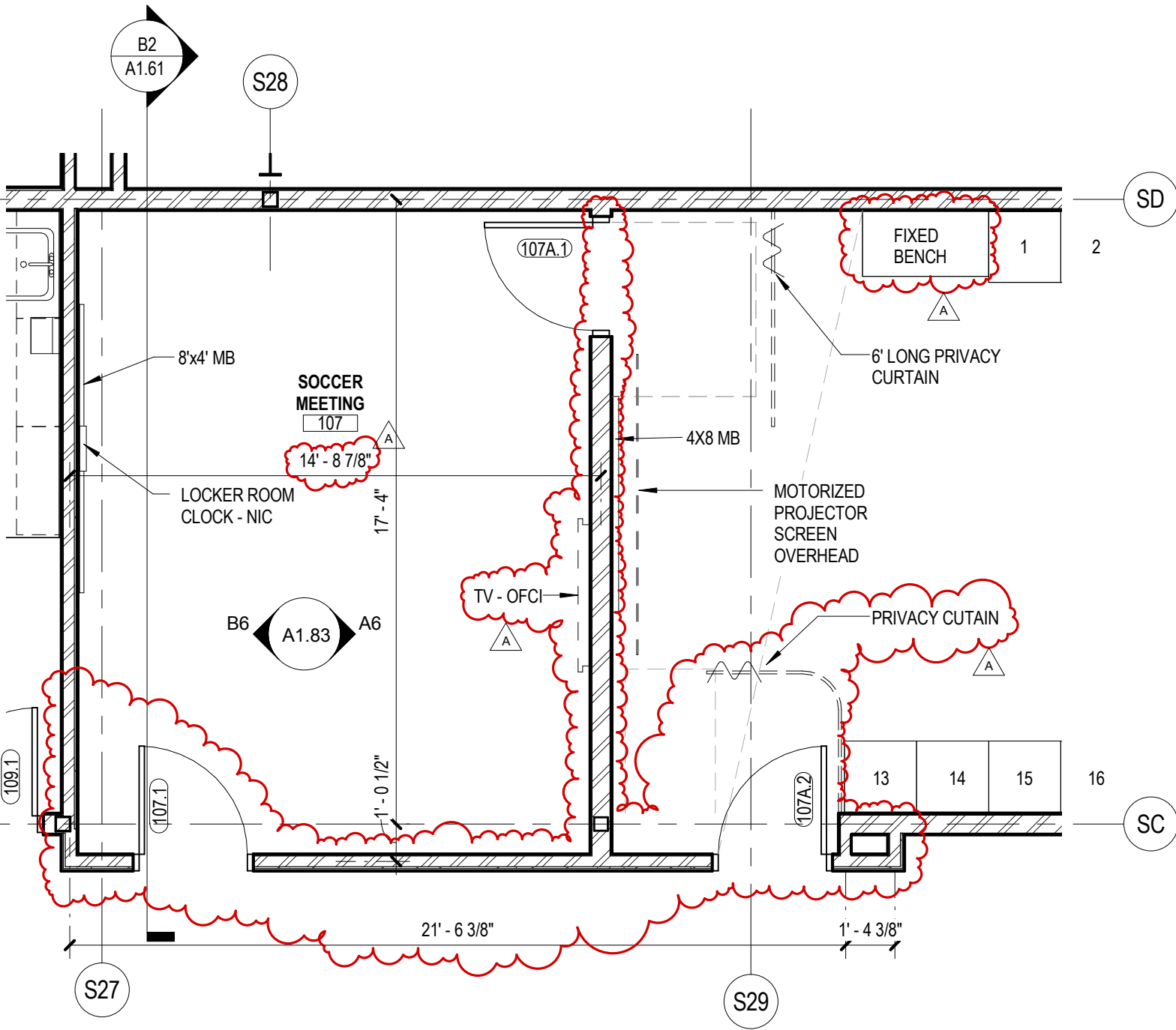
D2 **WALL TYPE W12**
1 1/2" = 1'-0"





1 INDOOR TENNIS/ SUPPORT BUILDING FLOOR PLAN LEVEL 1 - AREA B
 1/8" = 1'-0"

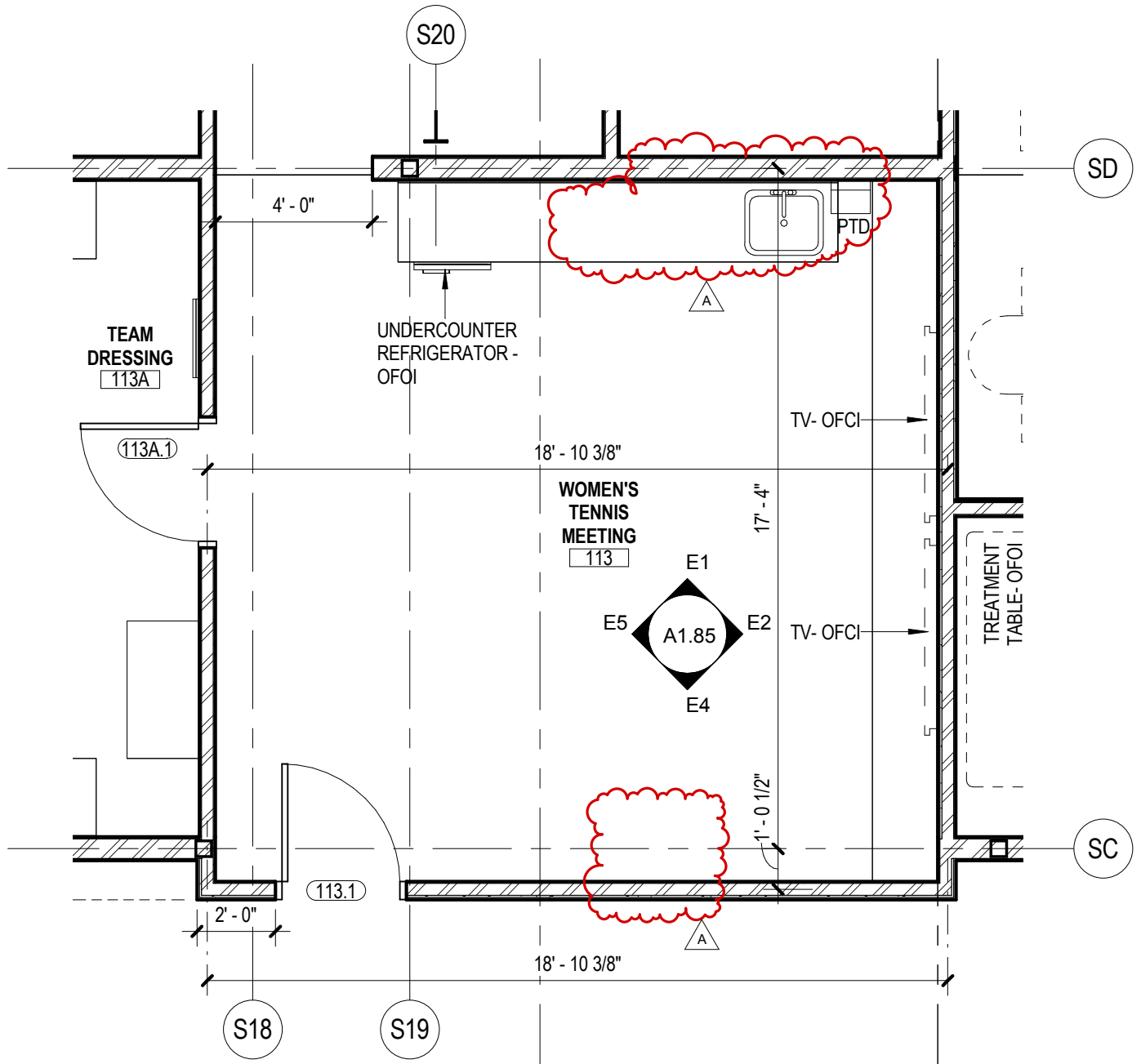
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	UNIVERSITY OF NEBRASKA- LINCOLN							
	ADDENDUM 1				UNL SOCCER & TENNIS COMPLEX			



**ENLARGED PLAN @ SOCCER,
TREATMENT & WOMEN'S TENNIS**

D1


1/4" = 1'-0"

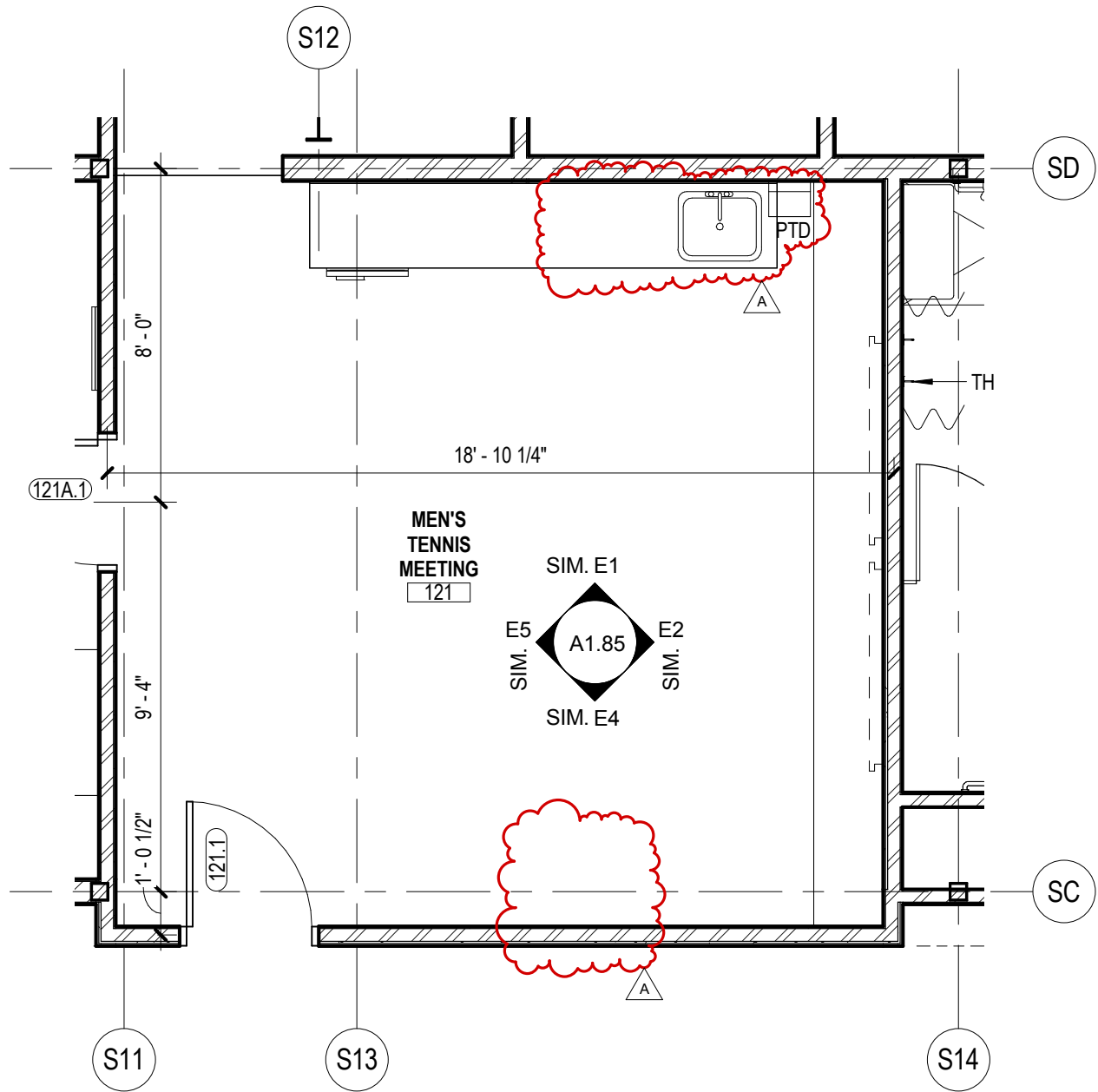


D1

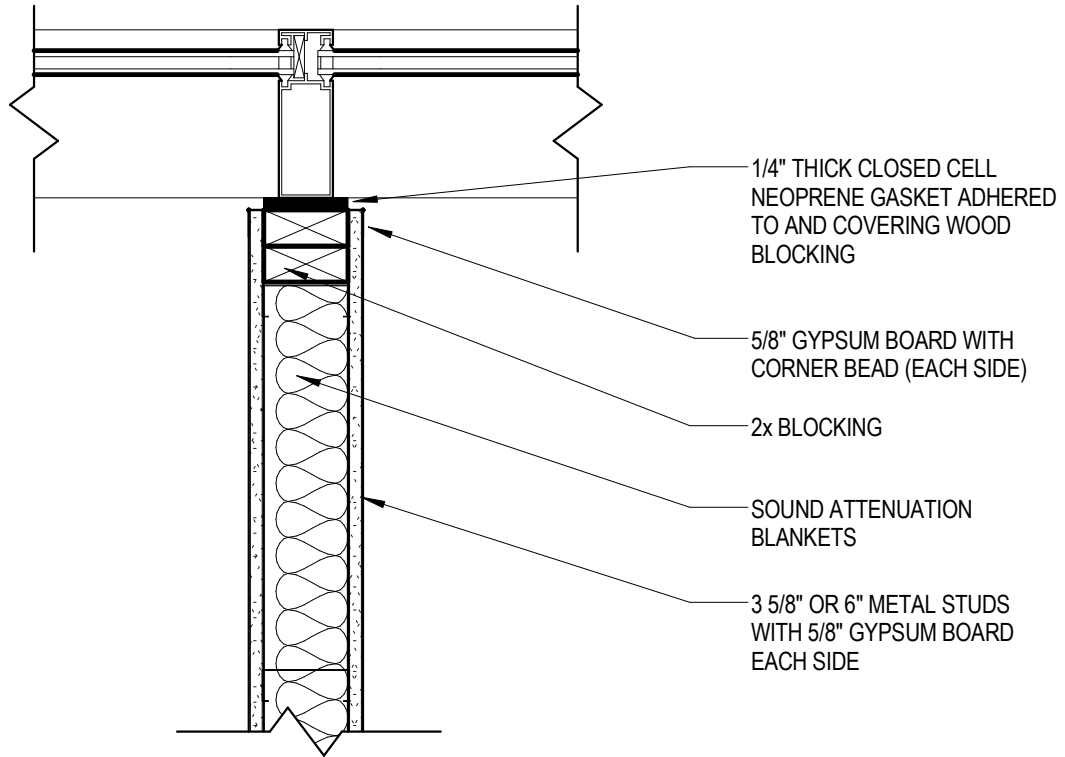
ENLARGED PLAN @ SOCCER, TREATMENT & WOMEN'S TENNIS

1/4" = 1'-0"

 <p>RDG Planning & Design • Omaha, NE • Des Moines, IA •</p>	Project Number:	Date:	Change to Sheet:	Drawing:	
	2013.512.00	03/27/14		A1.23	AD1-A05
	UNIVERSITY OF NEBRASKA- LINCOLN				UNL SOCCER & TENNIS COMPLEX
ADDENDUM 1					



C1 ENLARGED PLAN @ MENS TENNIS MEETING 113
 1/4" = 1'-0"



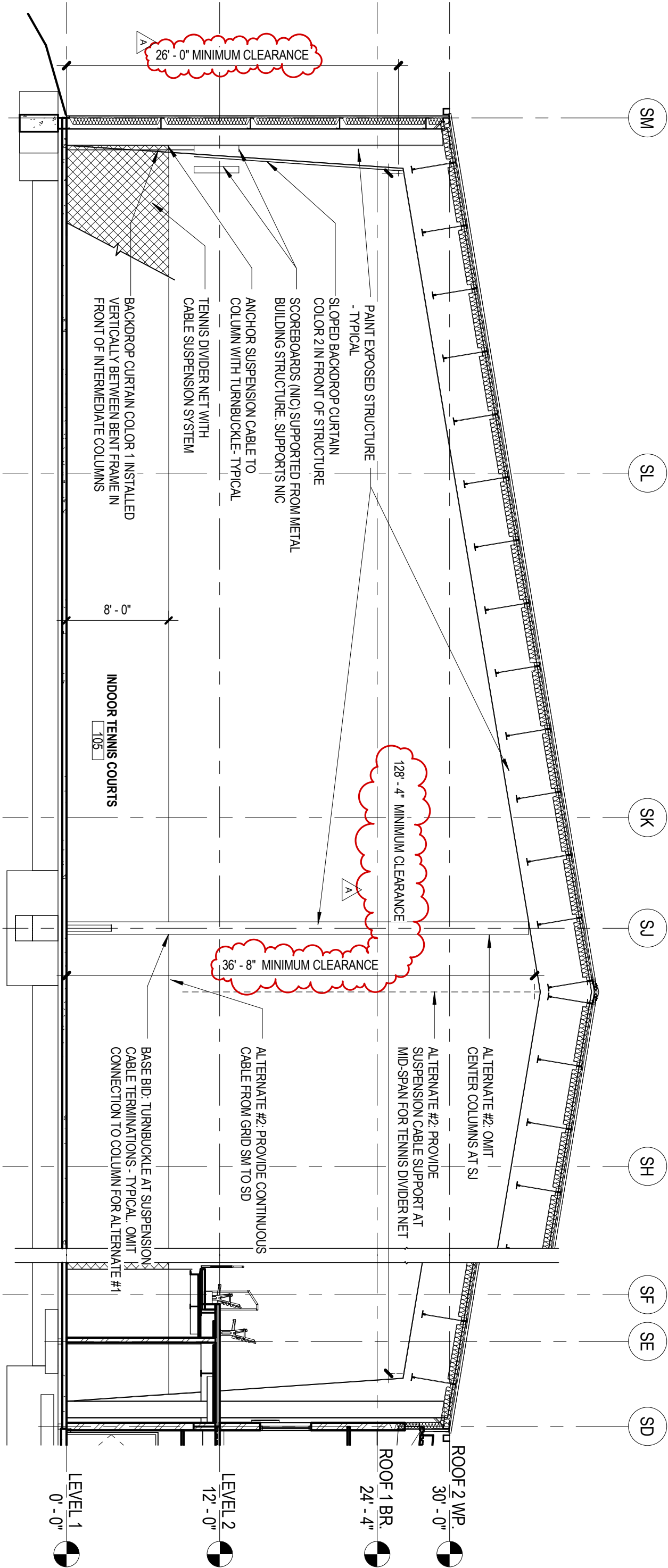
E2 WALL AT EXTERIOR MULLION
 1 1/2" = 1'-0"

A

B2

1/8" = 1'-0"

NORTH-SOUTH BUILDING SECTION @ GRID 4.5 - PARTIAL



Project Number: 2013.512.00	Date: 03/27/14	Add to Sheet:	Drawing: A1.61	AD1-A08
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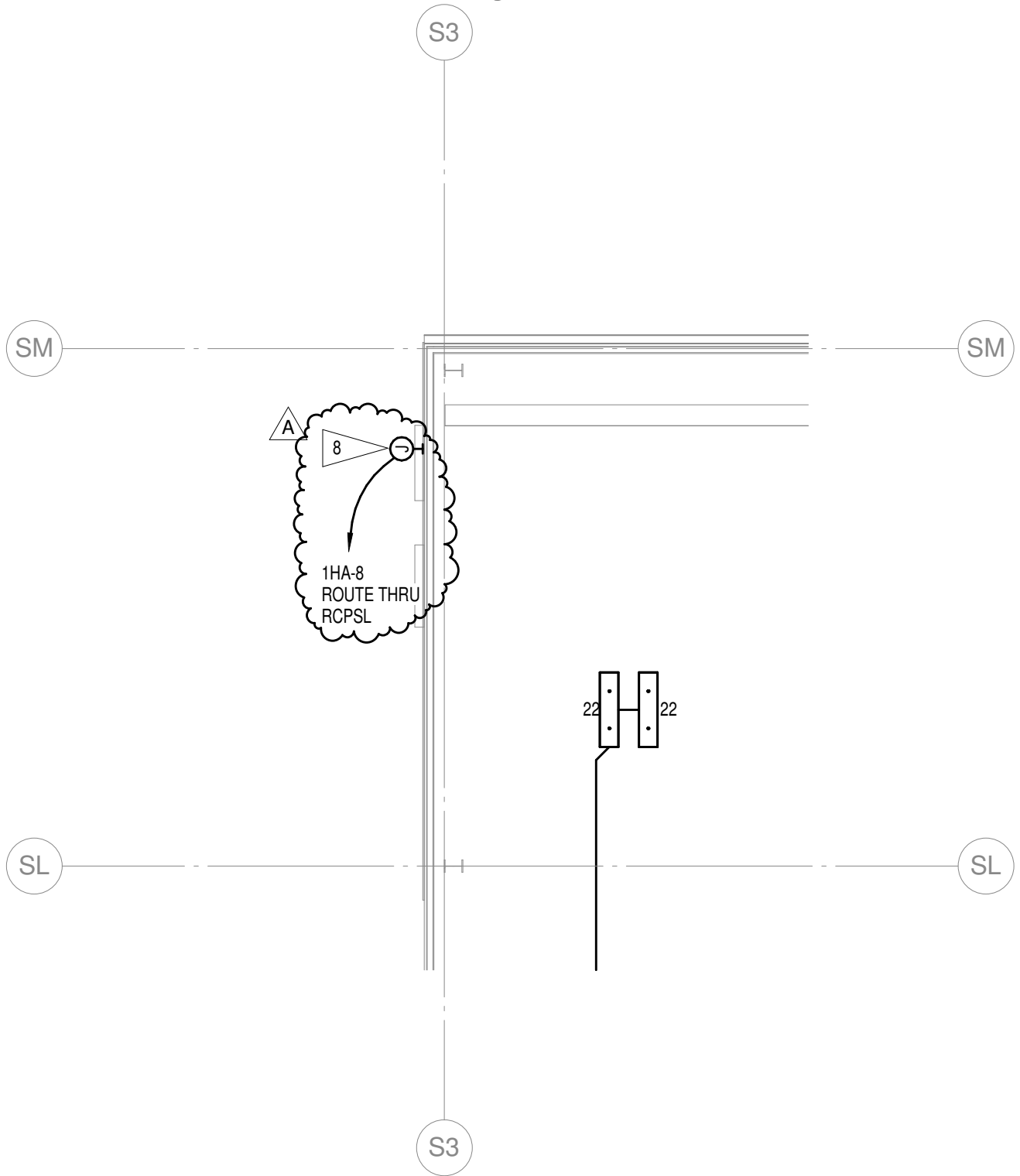
ADDENDUM 1



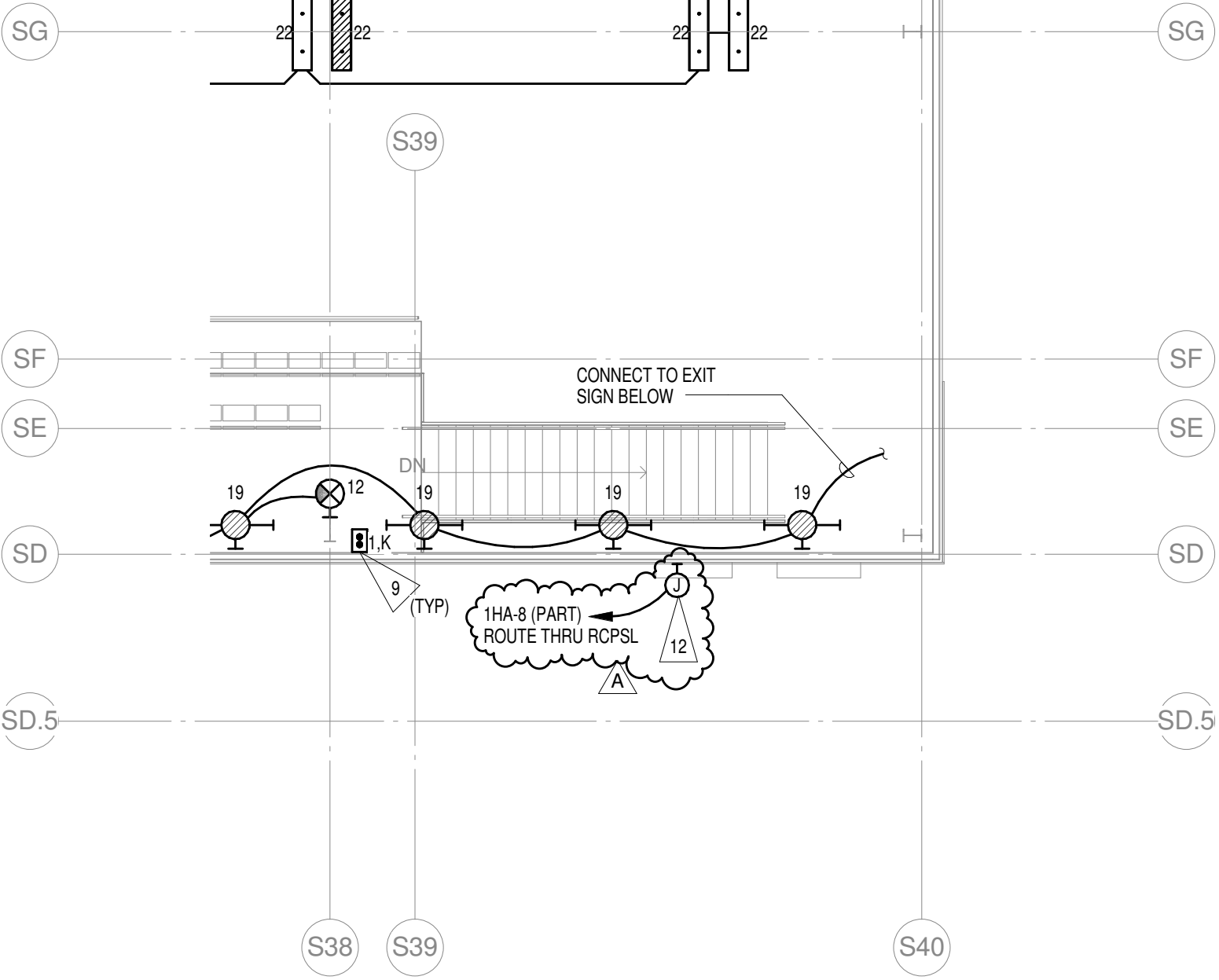
PLANNING DESIGN

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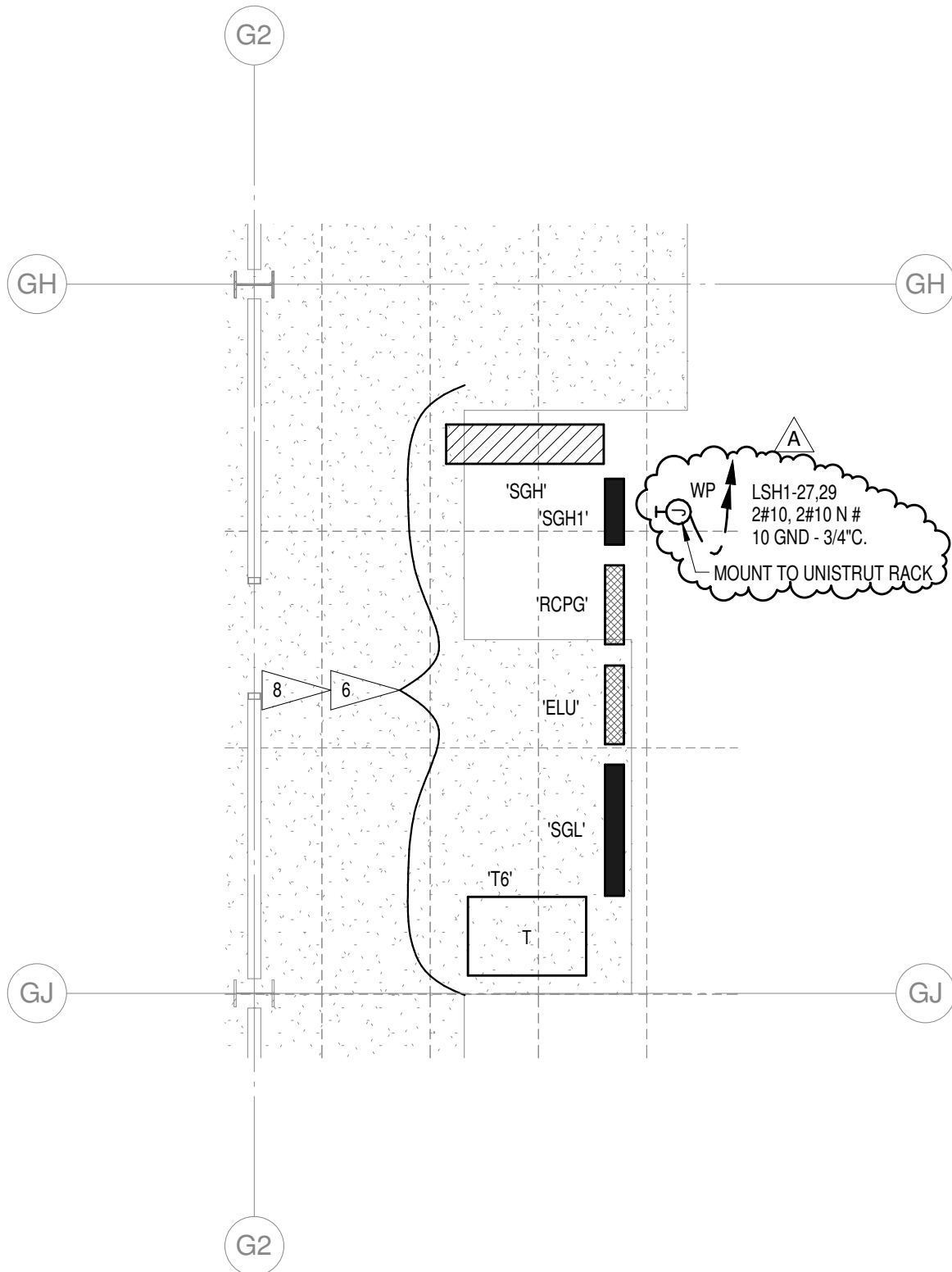
8 PROVIDE CONNECTION TO ILLUMINATED SIGN. VERIFY MOUNTING LOCATION WITH LIGHTED SIGN SUPPLIER PRIOR TO ROUGH-IN. PROVIDE DISCONNECT AS REQUIRED. ROUTE THRU PHOTOCELL.

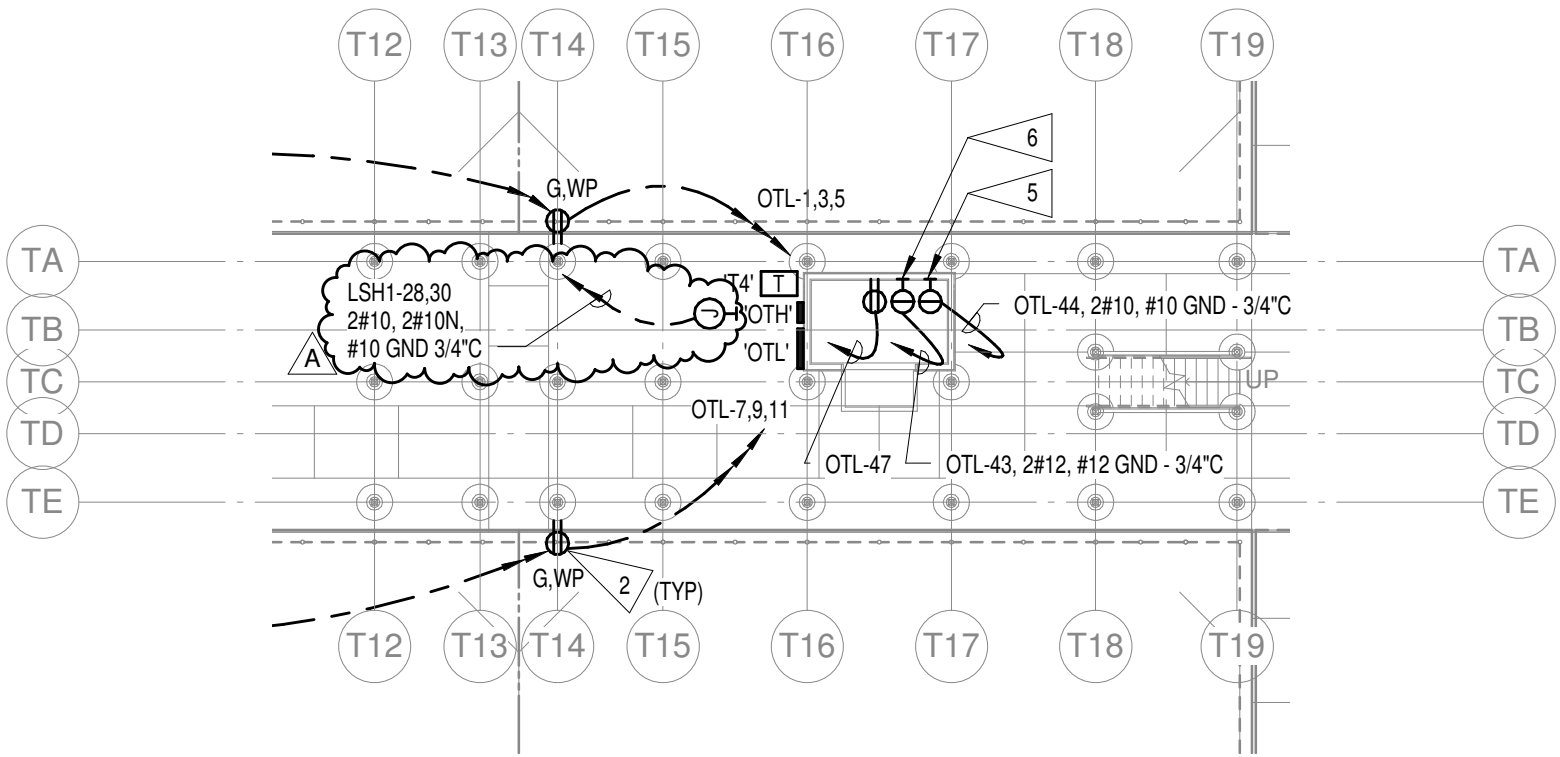


12 PROVIDE CONNECTION TO ILLUMINATED SIGN. VERIFY MOUNTING LOCATION WITH LIGHTED SIGN SUPPLIER PRIOR TO ROUGH-IN. PROVIDE DISCONNECT AS REQUIRED. ROUTE THRU PHOTOCELL.












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ADDENDUM 1				





LUMINAIRE SCHEDULE

LUM. NO.	MANUFACTURER	CATALOG NO.	LAMP DATA	VOLTAGE	DESCRIPTION	MOUNTING	ALTERNATE MANUFACTURERS	REMARKS
19	ALETRA	 S8-42D-18-WMR-A12125-MW	 2-F25T8 841	120/277	8X6" BEAM, ROOM WASH DISTRIBUTION, 0.125" CLEAR ACRYLIC LENS, PATTERN 12, STEEL HOUSING WITH WALL BRACKETS, PAINTED AFTER FABRICATION	WALL 8-6" AFF		VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN
27	AMERICAN LIGHTING	024-0002	FURNISHED WITH FIXTURE	120	LED BULLET, MINIATURE ACCENT LIGHT, 1" HOLE SIZE, 27 LUMENS, 3100K, 85 CRI, 110-DEGREE BEAM ANGLE, 1.25 WATTS	RECESSED		3.5
28	FINELITE	HPW-1-4-FO-11T8-SC-C1	 1-F25T8 841	120/277	4' HIGH PERFORMANCE RECESSED ASYMMETRIC WALL WASHER, STEEL HOUSING, SEMI-SPECULAR REFLECTOR	RECESSED		6
35	PINNACLE	 EV3WG-40HO-4-G9-SF-UNV-1C-W-C390L-EF	FURNISHED WITH FIXTURE	120/277	LED RECESSED 6FT LINEAR WALL GRAZER, EXTRUDED ALUMINUM TRIM WITH STEEL BACK BOX HOUSING, FILLER AND CORNER OPTIONS, CRI 82, 450 LUMENS/FT	RECESSED		9, 10
36	PINNACLE	 EV3WG-40HO-4-G9-SF-UNV-1C-W-C390L-EF	FURNISHED WITH FIXTURE	120/277	LED RECESSED 9FT LINEAR WALL GRAZER, EXTRUDED ALUMINUM TRIM WITH STEEL BACK BOX HOUSING, FILLER AND CORNER OPTIONS, CRI 82, 450 LUMENS/FT	RECESSED		9, 10
37	PINNACLE	 EV3WG-40HO-1-1-SF-UNV-1C-W-EF	FURNISHED WITH FIXTURE	120/277	LED RECESSED 11FT LINEAR WALL GRAZER, EXTRUDED ALUMINUM TRIM WITH STEEL BACK BOX HOUSING, FILLER AND CORNER OPTIONS, CRI 82, 450 LUMENS/FT	RECESSED		9
38	PINNACLE	 EV3WG-40HO-3-7-G9-UNV-1C-W-EF	FURNISHED WITH FIXTURE	120/277	LED RECESSED  LINEAR WALL GRAZER, EXTRUDED ALUMINUM TRIM WITH STEEL BACK BOX HOUSING, FILLER AND CORNER OPTIONS, CRI 82, 450 LUMENS/FT	RECESSED		6.9
39	HUBBELL	SCP-36LU-4K-5M-GR	FURNISHED WITH FIXTURE	120/277	SURFACE MOUNT, CAST ALUMINUM HOUSING, IP65, TYPE V SQUARE LIGHTING DISTRIBUTION, 36 LEDS 8203 LUMENS, 10KVA SURGE SUPPRESSOR, WET LOCATION	SURFACE		
40	LUMENPULSE	LBL-277-40K-FL-SHO-SY LBL-VS-SL-BK	FURNISHED WITH FIXTURE	120/277	LED 10" ROUND 40-DEGREE FLOOD LIGHT, DIE-CAST ALUMINUM HOUSING WITH VISOR ACCESSORY, HEAVY ALUMINUM FORMED SHORT YOKE, CLEAR TEMPERED GLASS, CRI 80, IP66	SURFACE		
41	LUMENPULSE	LBL-277-40K-WFL-SHO-SY LBL-VS-SL-BK	FURNISHED WITH FIXTURE	120/277	LED 10" ROUND 60-DEGREE FLOOD LIGHT, DIE-CAST ALUMINUM HOUSING WITH VISOR ACCESSORY, HEAVY ALUMINUM FORMED SHORT YOKE, CLEAR TEMPERED GLASS, CRI 80, IP66	SURFACE		
42	ALETRA	S6-42D-18-WMR-A12125-MW	 2-F25T8 841	120/277	6X6" BEAM, ROOM WASH DISTRIBUTION, 0.125" CLEAR ACRYLIC LENS, PATTERN 12, STEEL HOUSING WITH WALL BRACKETS, PAINTED AFTER FABRICATION	WALL 7-6" AFF		
43	PINNACLE	EV3WG-40HO-40-G9-UNV-1C-W-EF	FURNISHED WITH FIXTURE	120/277	LED RECESSED 40FT LINEAR WALL GRAZER, EXTRUDED ALUMINUM TRIM WITH STEEL BACK BOX HOUSING, FILLER AND CORNER OPTIONS, CRI 82, 450 LUMENS/FT	RECESSED		6.9
44	PINNACLE	EV3WG-40HO-44-G9-UNV-1C-W-EF	FURNISHED WITH FIXTURE	120/277	LED RECESSED 44FT LINEAR WALL GRAZER, EXTRUDED ALUMINUM TRIM WITH STEEL BACK BOX HOUSING, FILLER AND CORNER OPTIONS, CRI 82, 450 LUMENS/FT	RECESSED		6.9
45	PINNACLE	EV3WG-40HO-4-G9-UNV-1C-W-EF	FURNISHED WITH FIXTURE	120/277	LED RECESSED 4FT LINEAR WALL GRAZER, EXTRUDED ALUMINUM TRIM WITH STEEL BACK BOX HOUSING, FILLER AND CORNER OPTIONS, CRI 82, 450 LUMENS/FT	RECESSED		6.9
46	PINNACLE	EV3WG-40HO-13-SF-UNV-1C-W-EF	FURNISHED WITH FIXTURE	120/277	LED RECESSED 13FT LINEAR WALL GRAZER, EXTRUDED ALUMINUM TRIM WITH STEEL BACK BOX HOUSING, FILLER AND CORNER OPTIONS, CRI 82, 450 LUMENS/FT	RECESSED		9

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UNL SOCCER & TENNIS COMPLEX

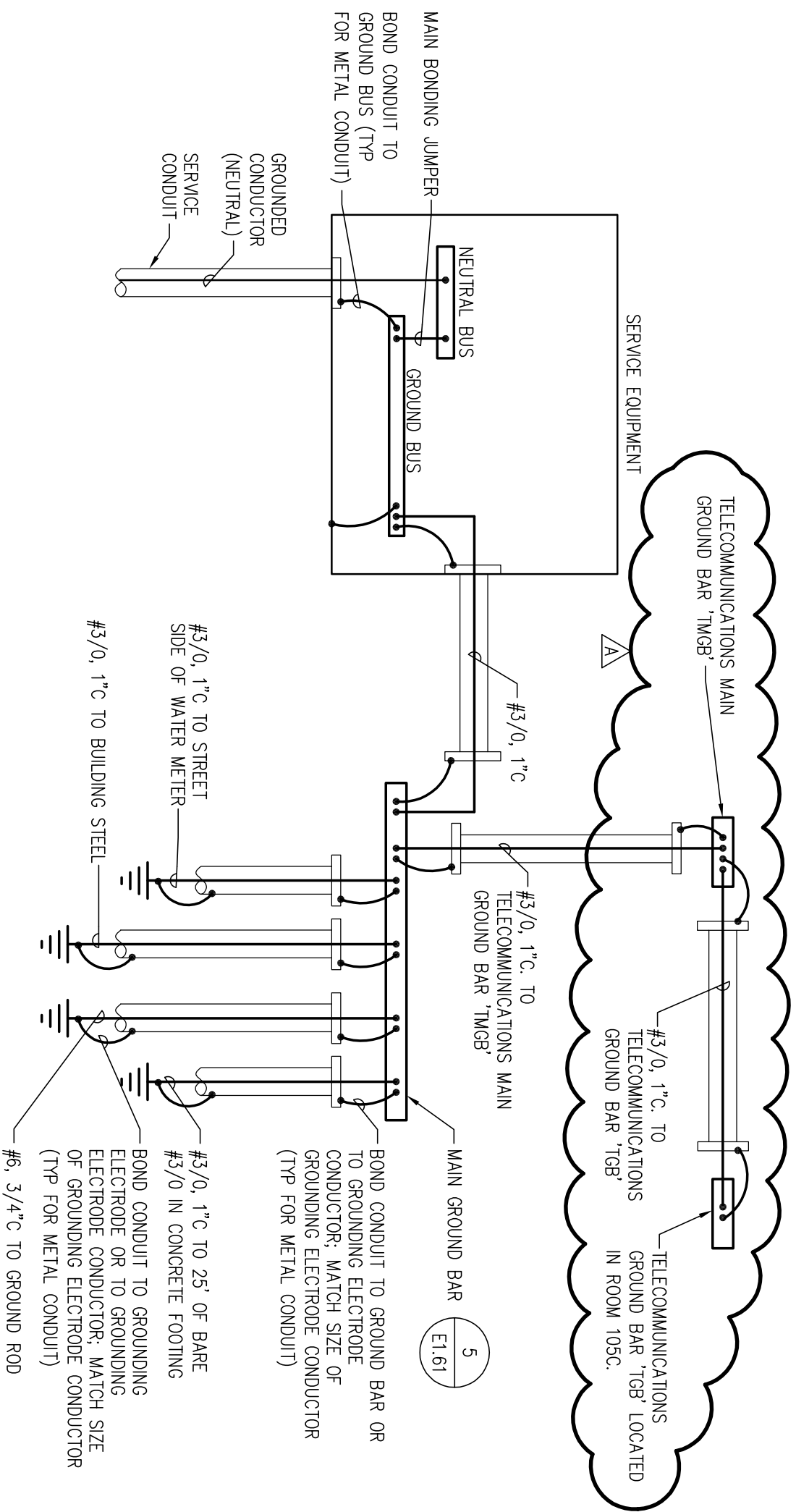
ADDENDUM 1



PLANNING DESIGN

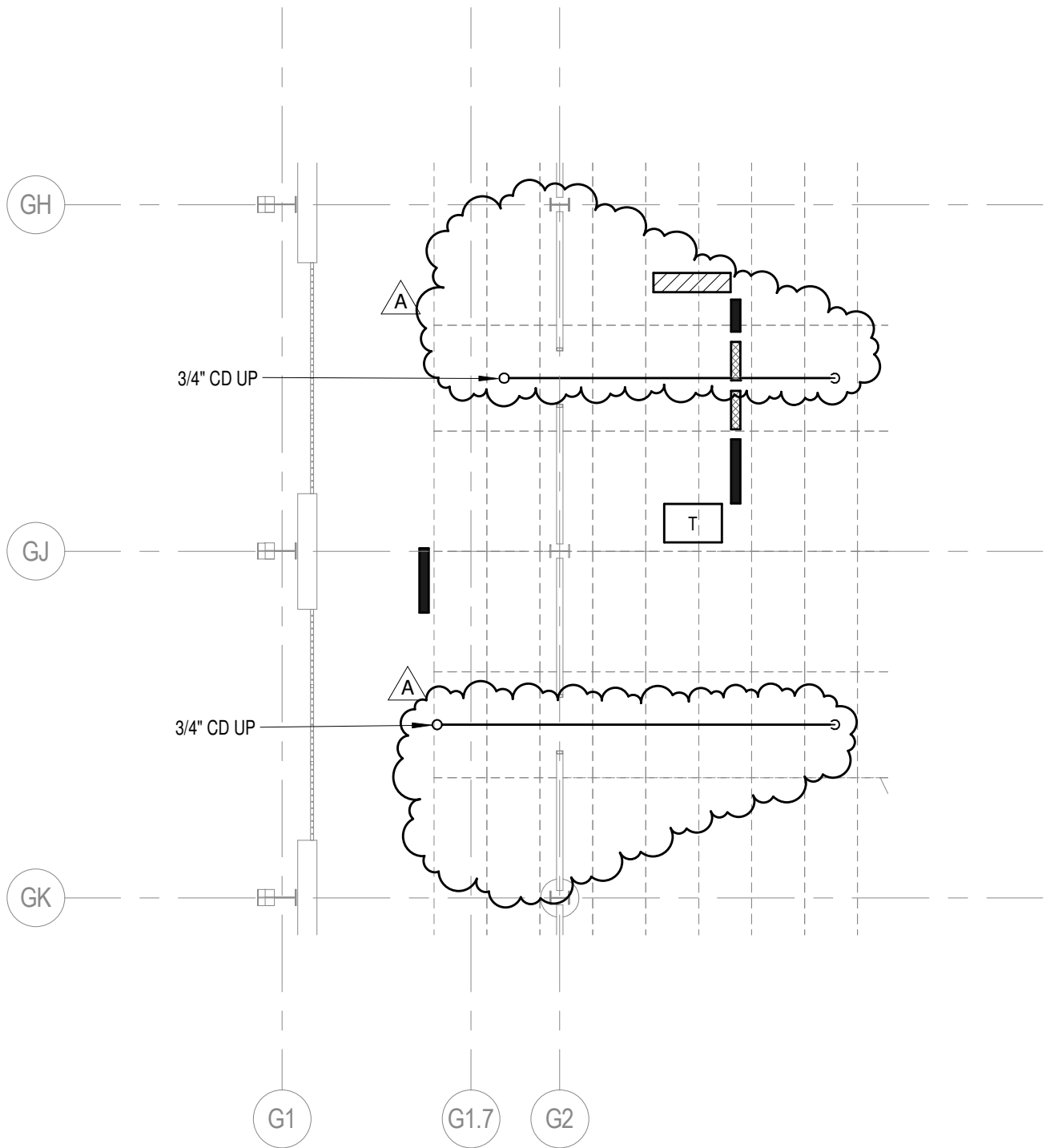
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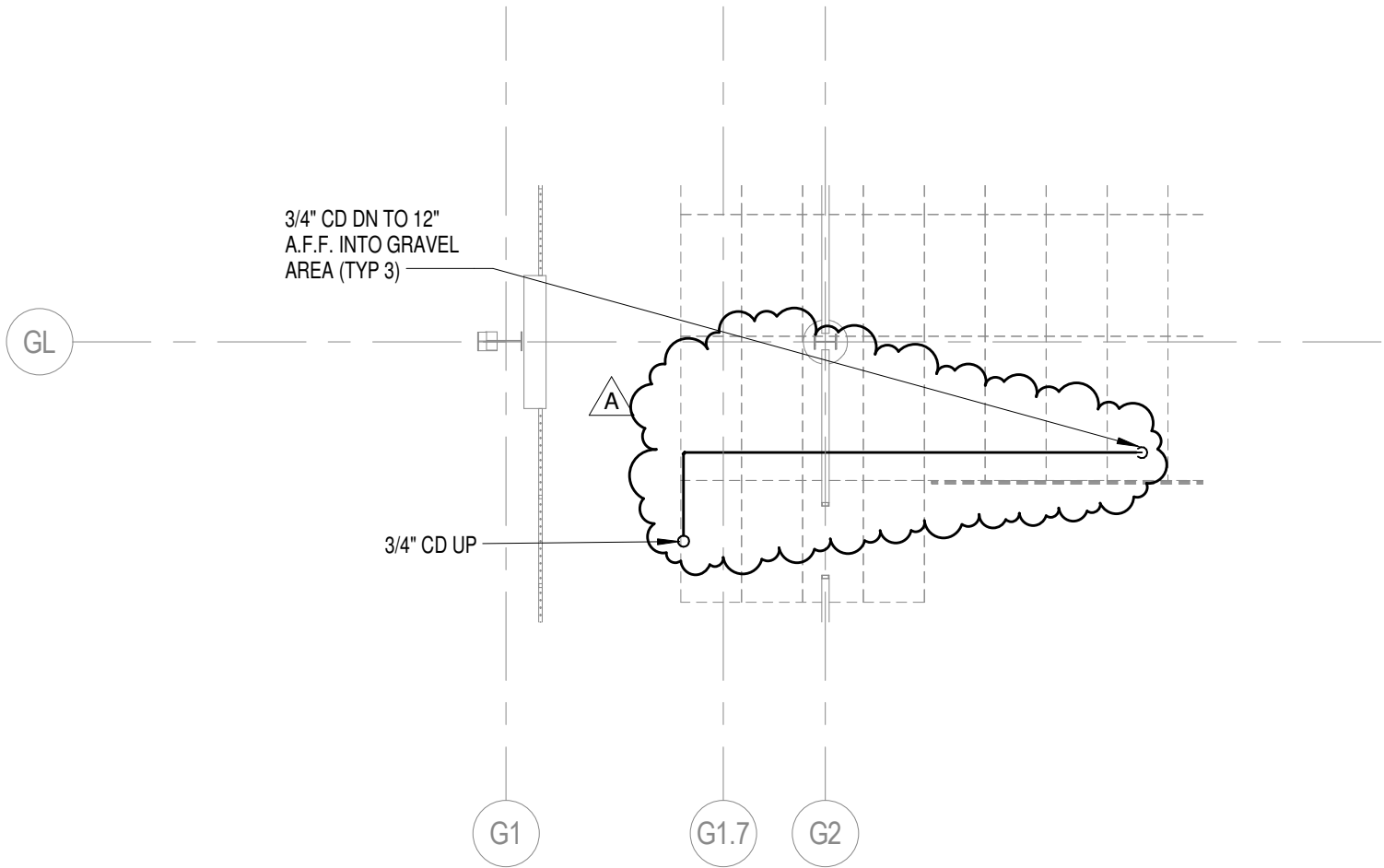
Project Number: Date: Add to Sheet: Drawing:



SERVICE GROUNDING
 NO SCALE

6
 E1.61





PLANNING • DESIGN

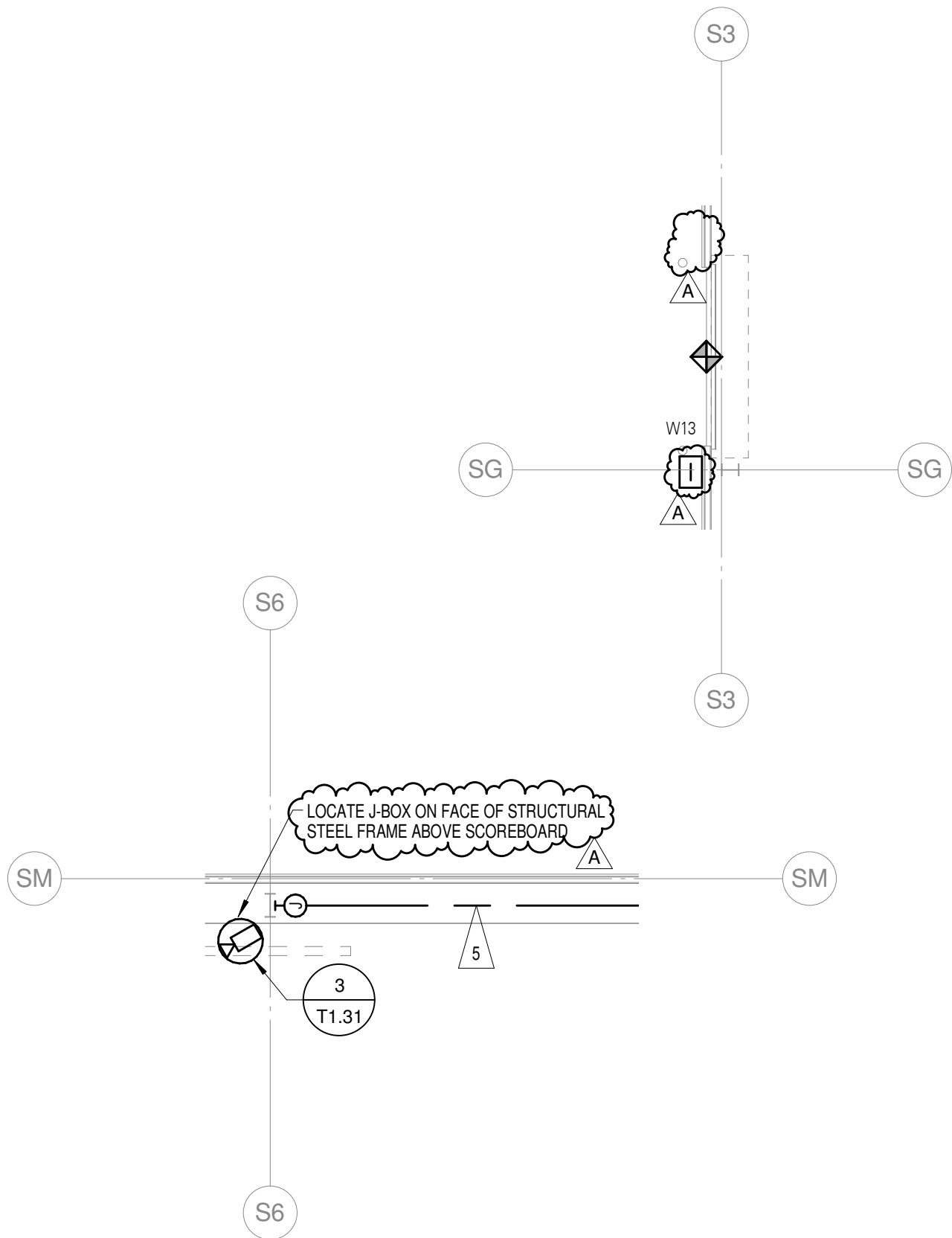
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Project Number: 2013.512.00	Date: 03/27/14	Change to Sheet: M2.21	Drawing: AD1-M02
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UNIVERSITY OF NEBRASKA - LINCOLN

ADDENDUM 1

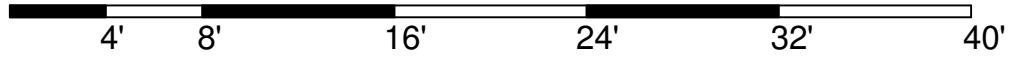
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1

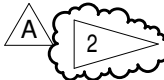

TENNIS/ SUP'T. FLOOR PLAN LEVEL 1 - AREA A - TELECOM

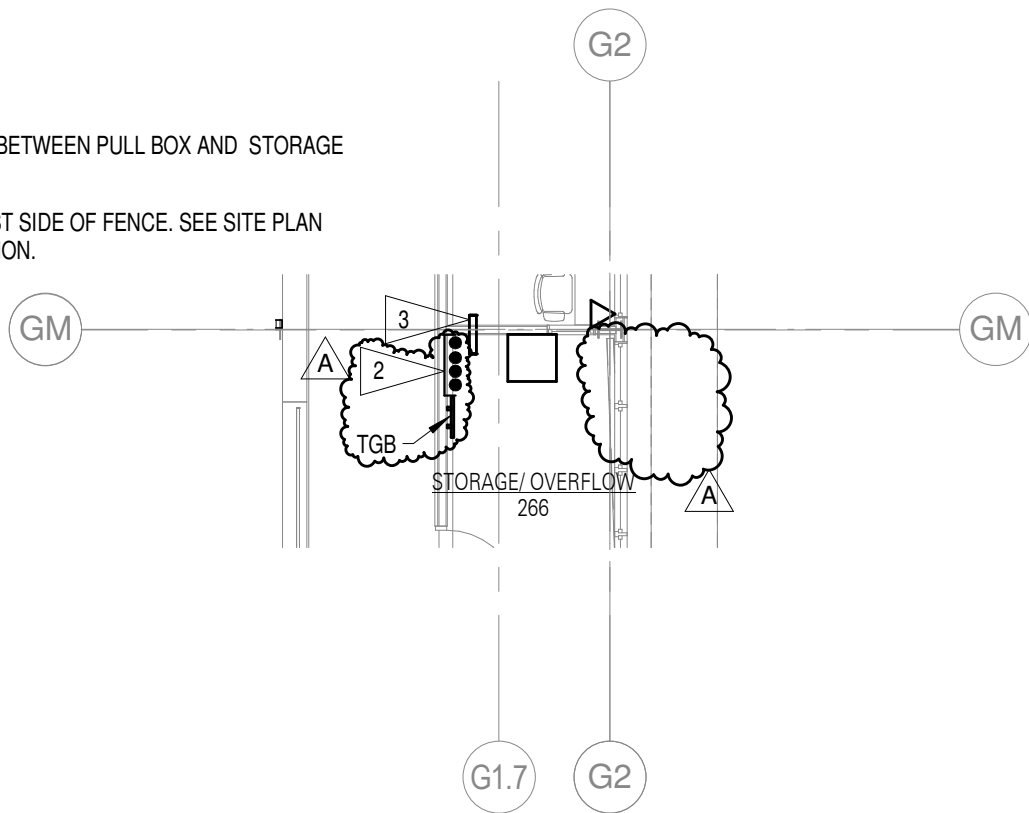
1/8" = 1'-0"



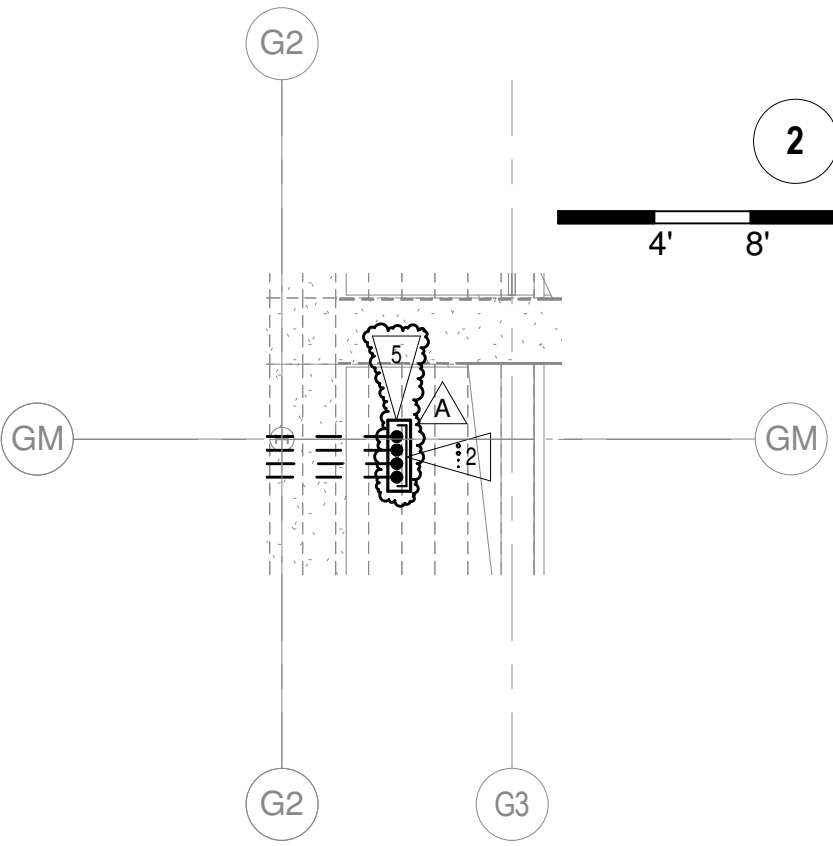
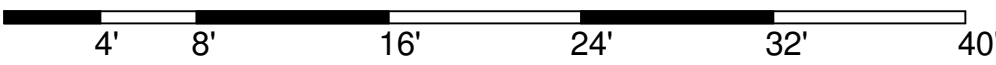
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	2013.512.00	03/27/14	T1.11A	AD1-T01
	ADDENDUM 1		UNIVERSITY OF NEBRASKA - LINCOLN UNL SOCCER & TENNIS COMPLEX	

FLAG NOTES

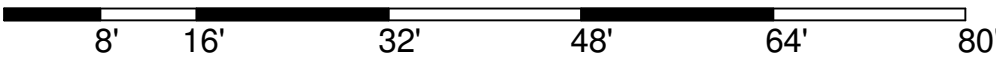
-  PROVIDE (6) 2.5" CONDUITS BETWEEN PULL BOX AND STORAGE 266.
-  PULL BOX MOUNTED TO EAST SIDE OF FENCE. SEE SITE PLAN FOR ADDITIONAL INFORMATION.




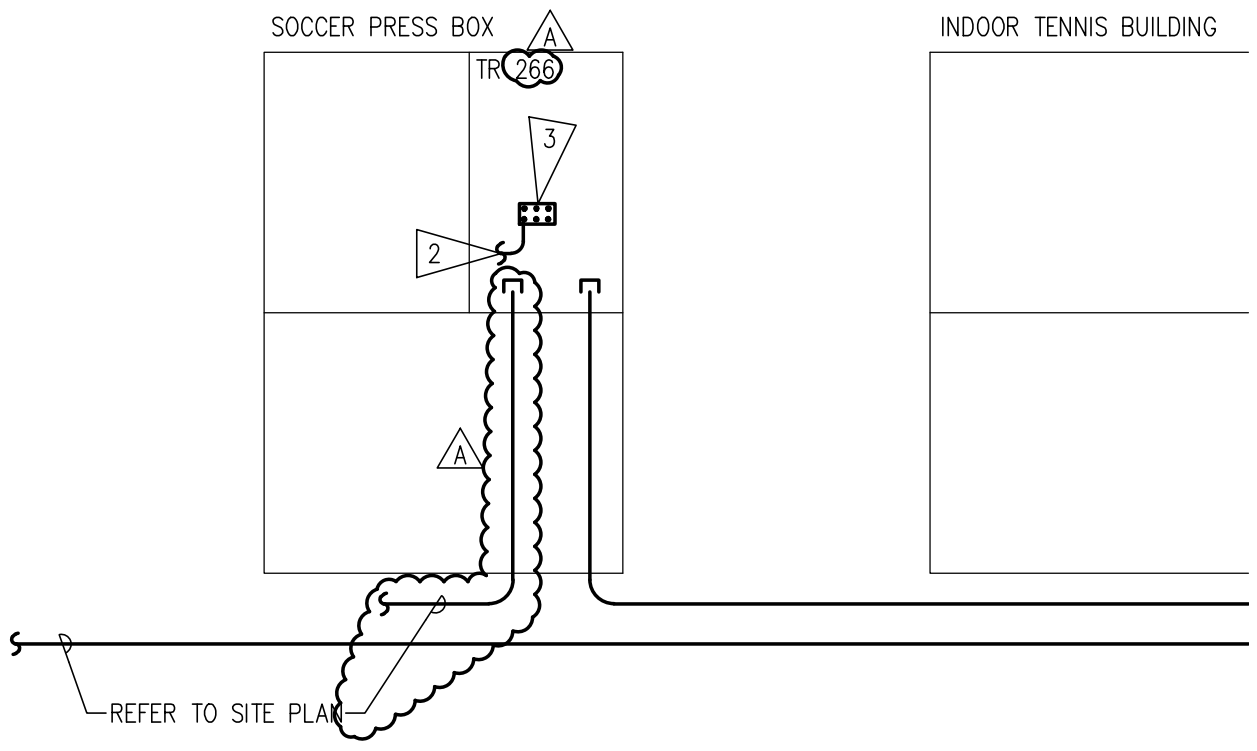
2 B-FP02 PRESSBOX - TELECOM
1/8" = 1'-0"



1 GRANDSTAND FLOOR PLAN LEVEL 1 - TELECOM
1/16" = 1'-0"



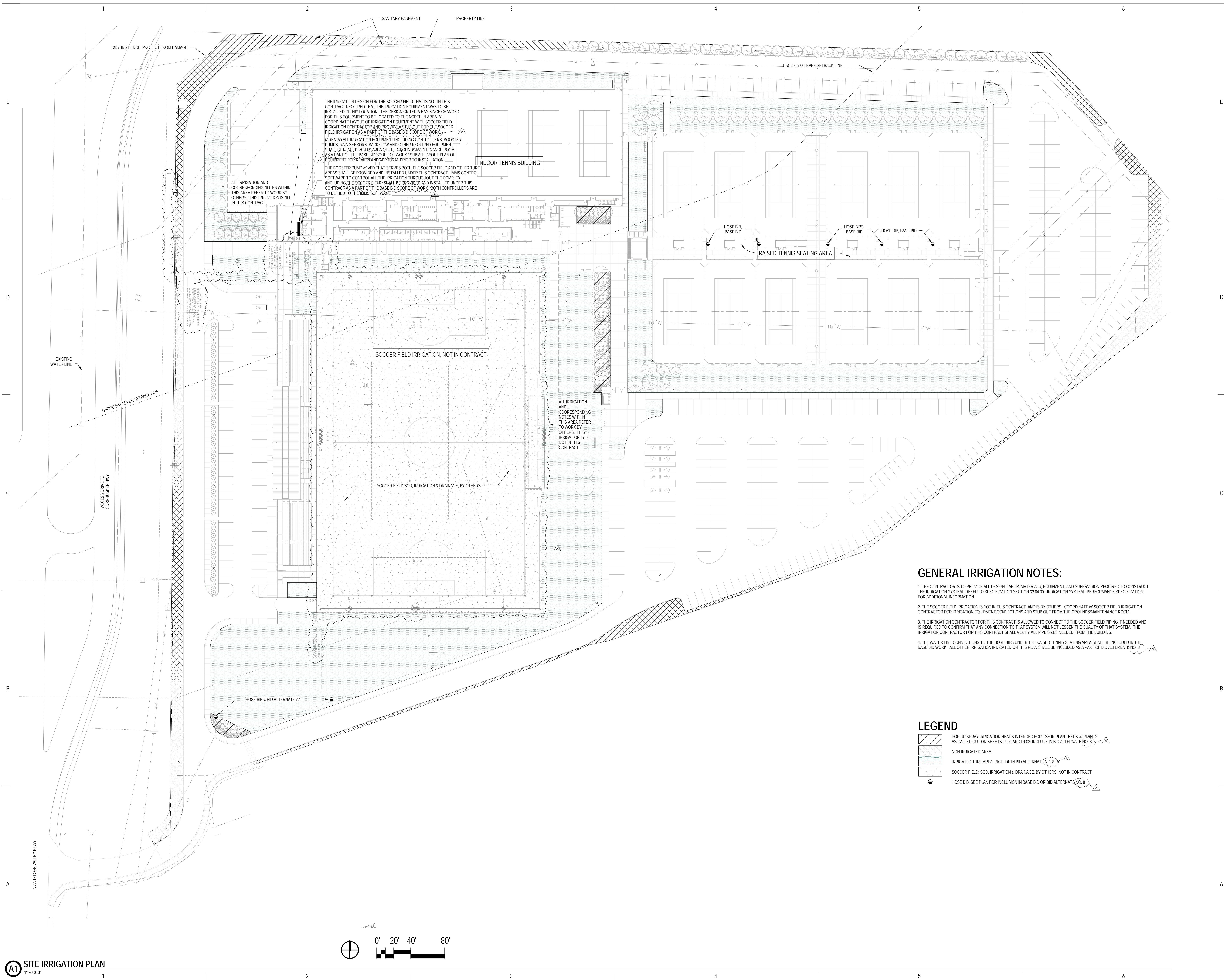
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	UNIVERSITY OF NEBRASKA - LINCOLN			
	ADDENDUM 1		UNL SOCCER & TENNIS COMPLEX	



PATHWAY/GROUNDING SCHEMATIC

NO SCALE

1
T0.20



THE IRRIGATION DESIGN FOR THE SOCCER FIELD THAT IS NOT IN THIS CONTRACT REQUIRED THAT THE IRRIGATION EQUIPMENT WAS TO BE INSTALLED IN THIS LOCATION. THE DESIGN CRITERIA HAS SINCE CHANGED FOR THIS EQUIPMENT TO BE LOCATED TO THE NORTH IN AREA 'A'. COORDINATE LAYOUT OF IRRIGATION EQUIPMENT WITH SOCCER FIELD IRRIGATION CONTRACTOR AND PROVIDE A STUB OUT FOR THE SOCCER FIELD IRRIGATION AS A PART OF THE BASE BID SCOPE OF WORK.

AREA 'A' ALL IRRIGATION EQUIPMENT INCLUDING CONTROLLERS, BOOSTER PUMPS, RAIN SENSORS, BACKFLOW AND OTHER REQUIRED EQUIPMENT SHALL BE PLACED IN THIS AREA OF THE GROUNDS MAINTENANCE ROOM (AS A PART OF THE BASE BID SCOPE OF WORK). SUBMIT LAYOUT PLAN OF EQUIPMENT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

THE BOOSTER PUMP W/ VFD THAT SERVES BOTH THE SOCCER FIELD AND OTHER TURF AREAS SHALL BE PROVIDED AND INSTALLED UNDER THIS CONTRACT. IMMS CONTROL SOFTWARE TO CONTROL ALL THE IRRIGATION THROUGHOUT THE COMPLEX (INCLUDING THE SOCCER FIELD) SHALL BE PROVIDED AND INSTALLED UNDER THIS CONTRACT AS A PART OF THE BASE BID SCOPE OF WORK. BOTH CONTROLLERS ARE TO BE TIED TO THE IMMS SOFTWARE.

ALL IRRIGATION AND COORDINATING NOTES WITHIN THIS AREA REFER TO WORK BY OTHERS. THIS IRRIGATION IS NOT IN THIS CONTRACT.

ALL IRRIGATION AND COORDINATING NOTES WITHIN THIS AREA REFER TO WORK BY OTHERS. THIS IRRIGATION IS NOT IN THIS CONTRACT.

GENERAL IRRIGATION NOTES:

1. THE CONTRACTOR IS TO PROVIDE ALL DESIGN, LABOR, MATERIALS, EQUIPMENT, AND SUPERVISION REQUIRED TO CONSTRUCT THE IRRIGATION SYSTEM. REFER TO SPECIFICATION SECTION 32.04.00 - IRRIGATION SYSTEM - PERFORMANCE SPECIFICATION FOR ADDITIONAL INFORMATION.
2. THE SOCCER FIELD IRRIGATION IS NOT IN THIS CONTRACT, AND IS BY OTHERS. COORDINATE W/ SOCCER FIELD IRRIGATION CONTRACTOR FOR IRRIGATION EQUIPMENT CONNECTIONS AND STUB OUT FROM THE GROUNDS MAINTENANCE ROOM.
3. THE IRRIGATION CONTRACTOR FOR THIS CONTRACT IS ALLOWED TO CONNECT TO THE SOCCER FIELD PIPING IF NEEDED AND IS REQUIRED TO CONFIRM THAT ANY CONNECTION TO THAT SYSTEM WILL NOT LESSEN THE QUALITY OF THAT SYSTEM. THE IRRIGATION CONTRACTOR FOR THIS CONTRACT SHALL VERIFY ALL PIPE SIZES NEEDED FROM THE BUILDING.
4. THE WATER LINE CONNECTIONS TO THE HOSE BIBS UNDER THE RAISED TENNIS SEATING AREA SHALL BE INCLUDED IN THE BASE BID WORK. ALL OTHER IRRIGATION INDICATED ON THIS PLAN SHALL BE INCLUDED AS A PART OF BID ALTERNATE NO. 8.

LEGEND

- POP-UP SPRAY IRRIGATION HEADS INTENDED FOR USE IN PLANT BEDS w/ PLANTS AS CALLED OUT ON SHEETS L4.01 AND L4.02. INCLUDE IN BID ALTERNATE NO. 8
- NON-IRRIGATED AREA
- IRRIGATED TURF AREA. INCLUDE IN BID ALTERNATE NO. 8
- SOCCER FIELD: SOD, IRRIGATION & DRAINAGE, BY OTHERS, NOT IN CONTRACT
- HOSE BIB. SEE PLAN FOR INCLUSION IN BASE BID OR BID ALTERNATE NO. 8

A1 SITE IRRIGATION PLAN
1" = 40'-0"

UNL SOCCER & TENNIS COMPLEX

CONSTRUCTION DOCUMENTS

**LINCOLN, NE 2400 NORTH 14TH STREET
LINCOLN, NEBRASKA**

UNIVERSITY OF NEBRASKA - LINCOLN

L4.03

RDG Planning & Design

UNL SOCCER & TENNIS COMPLEX

SITE IRRIGATION PLAN

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STRUCTURAL
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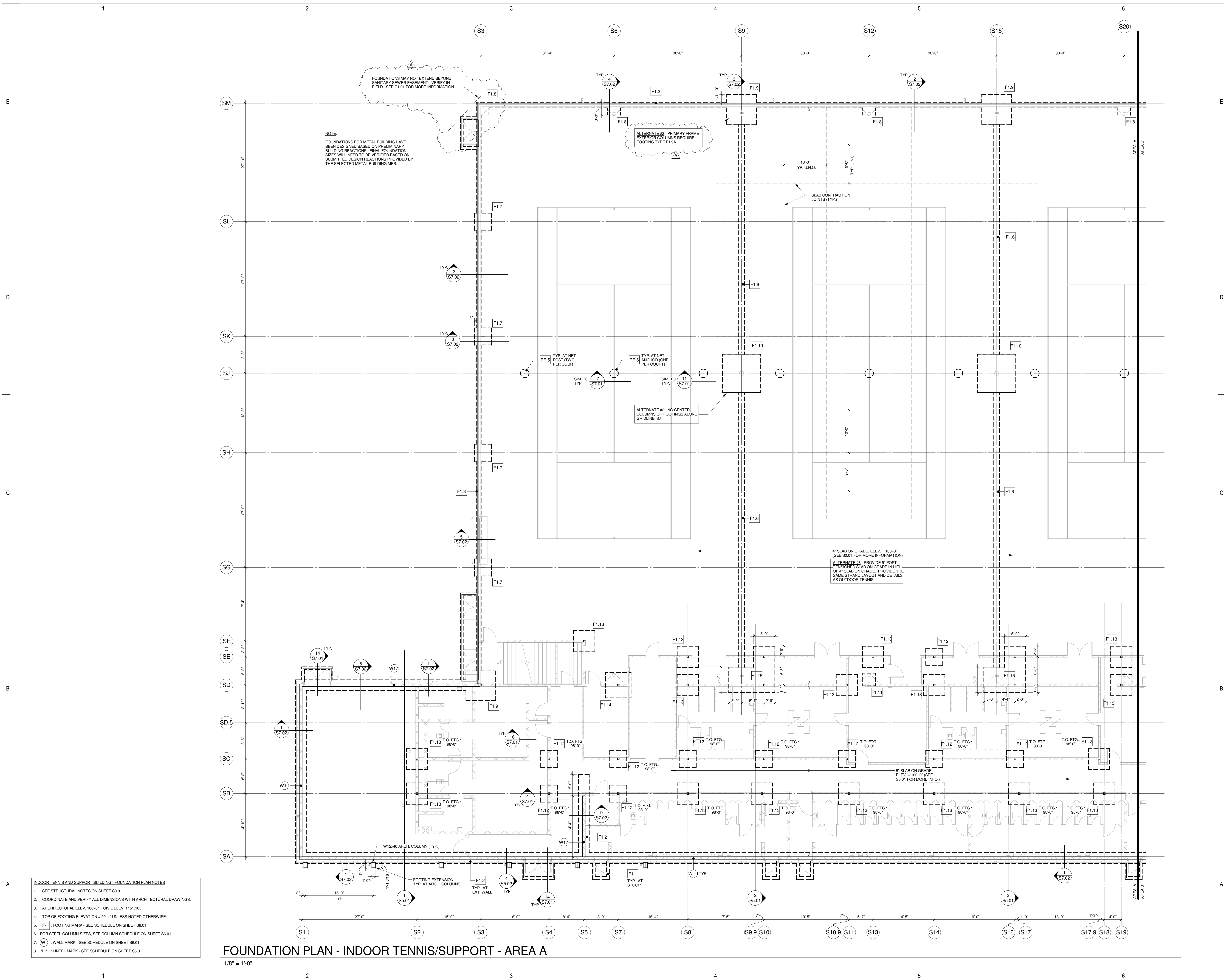
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REVISION	DATE	DESCRIPTION
A	3/20/14	ADDED NEW
ISSUED	3/20/14	
PROJECT NO.	2013.512.00	
DATE	3/20/14	
RDG Planning & Design		
ALL DOCUMENTS ARE UNLESS OTHERWISE SPECIFIED		
UNL SOCCER & TENNIS COMPLEX		
UNL SFC 100000101		
PROJECT: 1010 CAPITAL SQUARE (SFC) UNL SOCCER & TENNIS COMPLEX		
DRAWING: SITE IRRIGATION PLAN		
DATE: 3/20/14		
PROJECT: 1010 CAPITAL SQUARE (SFC) UNL SOCCER & TENNIS COMPLEX		
DRAWING: SITE IRRIGATION PLAN		
DATE: 3/20/14		

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INDOOR TENNIS AND SUPPORT BUILDING - FOUNDATION PLAN NOTES

- SEE STRUCTURAL NOTES ON SHEET S6.01.
- COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- ARCHITECTURAL ELEV. 100'-0" = CIVIL ELEV. 1151.10'.
- TOP OF FOOTING ELEVATION = 99'-4" UNLESS NOTED OTHERWISE.
- F : FOOTING MARK - SEE SCHEDULE ON SHEET S6.01.
- FOR STEEL COLUMN SIZES, SEE COLUMN SCHEDULE ON SHEET S6.01.
- W : WALL MARK - SEE SCHEDULE ON SHEET S6.01.
- L1 : LINTEL MARK - SEE SCHEDULE ON SHEET S6.01.

FOUNDATION PLAN - INDOOR TENNIS/SUPPORT - AREA A
1/8" = 1'-0"

UNL SOCCER & TENNIS COMPLEX

CONSTRUCTION ISSUE

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Fax: 515-281-8831

Professional Engineer
Lincoln, NE 68508
E-119560
03/07/2014

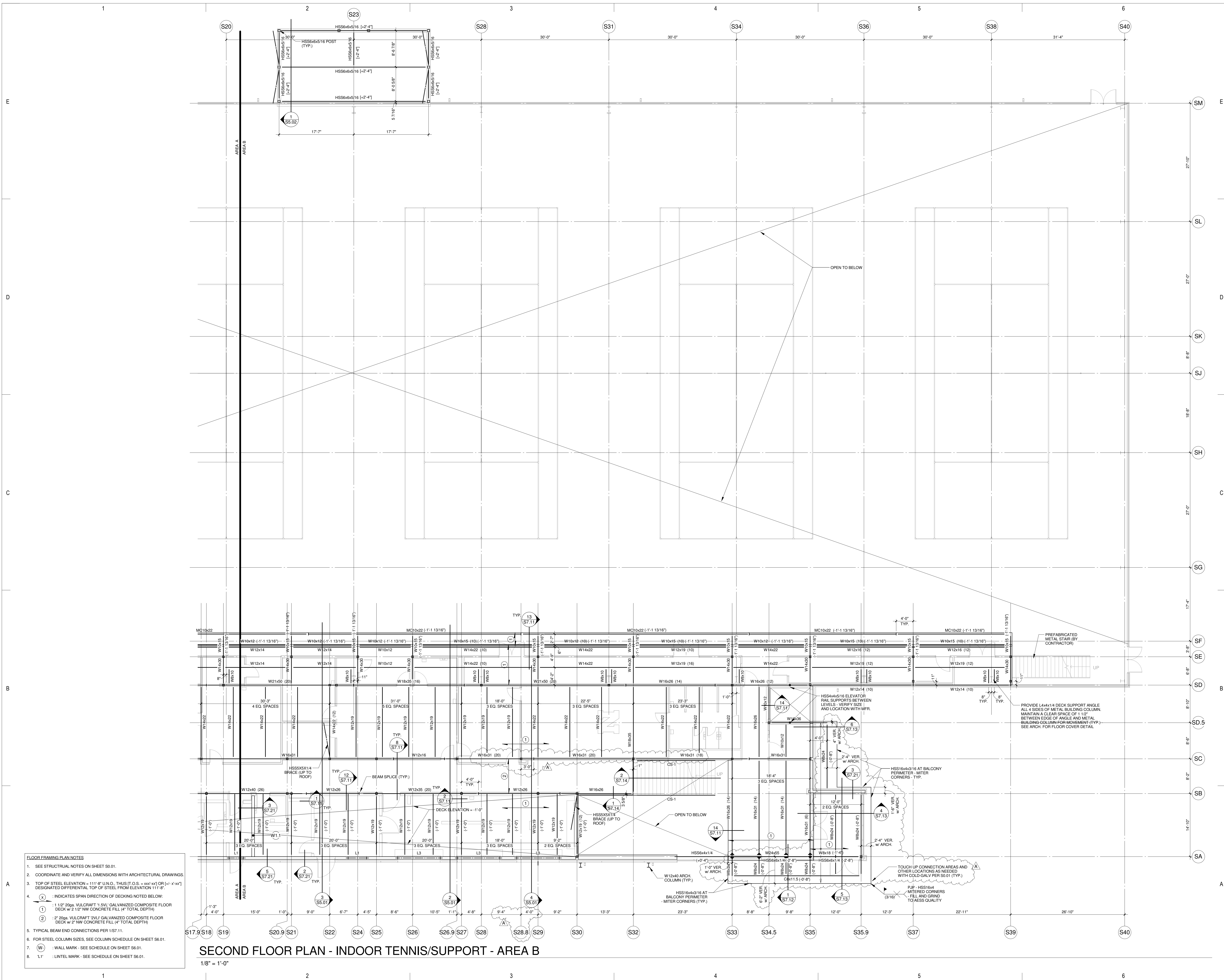
TD2 engineering & surveying
TD2 PROJECT # 919-421

2400 NORTH 14TH STREET
LINCOLN, NEBRASKA
UNIVERSITY OF NEBRASKA LINCOLN

REVISION	DATE	DESCRIPTION
1	3/7/2014	ISSUED
2	2/13/2014	PROJECT NO. 2013.512.00

FOUNDATION PLAN - INDOOR TENNIS/SUPPORT - AREA A

S1.11A



- FLOOR FRAMING PLAN NOTES**
- SEE STRUCTURAL NOTES ON SHEET S0.01.
 - COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - TOP OF STEEL ELEVATION = 111'-8" U.O.D., THUS [I.O.S. = xxx'xxx] OR [L'-X'XX"] DESIGNATED DIFFERENTIAL TOP OF STEEL FROM ELEVATION 111'-8".
 - INDICATES SPAN DIRECTION OF DECKING NOTED BELOW:
 - 1 1/2" 20ga. VULCRAFT 1 1/2" GALVANIZED COMPOSITE FLOOR DECK w/ 2" 20" NW CONCRETE FILL (4" TOTAL DEPTH)
 - 2" 20ga. VULCRAFT 2" GALVANIZED COMPOSITE FLOOR DECK w/ 2" NW CONCRETE FILL (4" TOTAL DEPTH)
 - TYPICAL BEAM END CONNECTIONS PER 1/57.11.
 - FOR STEEL COLUMN SIZES, SEE COLUMN SCHEDULE ON SHEET S6.01.
 - W : WALL MARK - SEE SCHEDULE ON SHEET S6.01.
 - L1 : LINTEL MARK - SEE SCHEDULE ON SHEET S6.01.

SECOND FLOOR PLAN - INDOOR TENNIS/SUPPORT - AREA B
 1/8" = 1'-0"

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CIVIL
 Lane Planning & Associates
 1100 North 10th Street
 Omaha, NE 68104
 Phone: 402.336.8831
 Fax: 402.336.8831

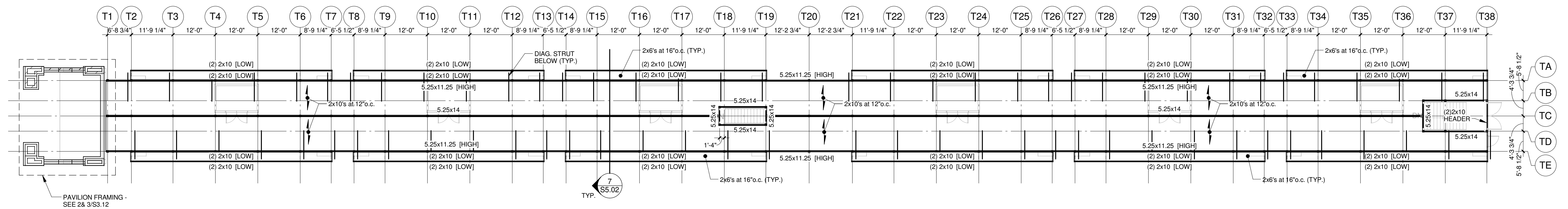
TD2
 engineering & surveying
 TD2 PROJECT # 919-421

**2400 NORTH 14TH STREET
 LINCOLN, NEBRASKA**

UNIVERSITY OF NEBRASKA LINCOLN

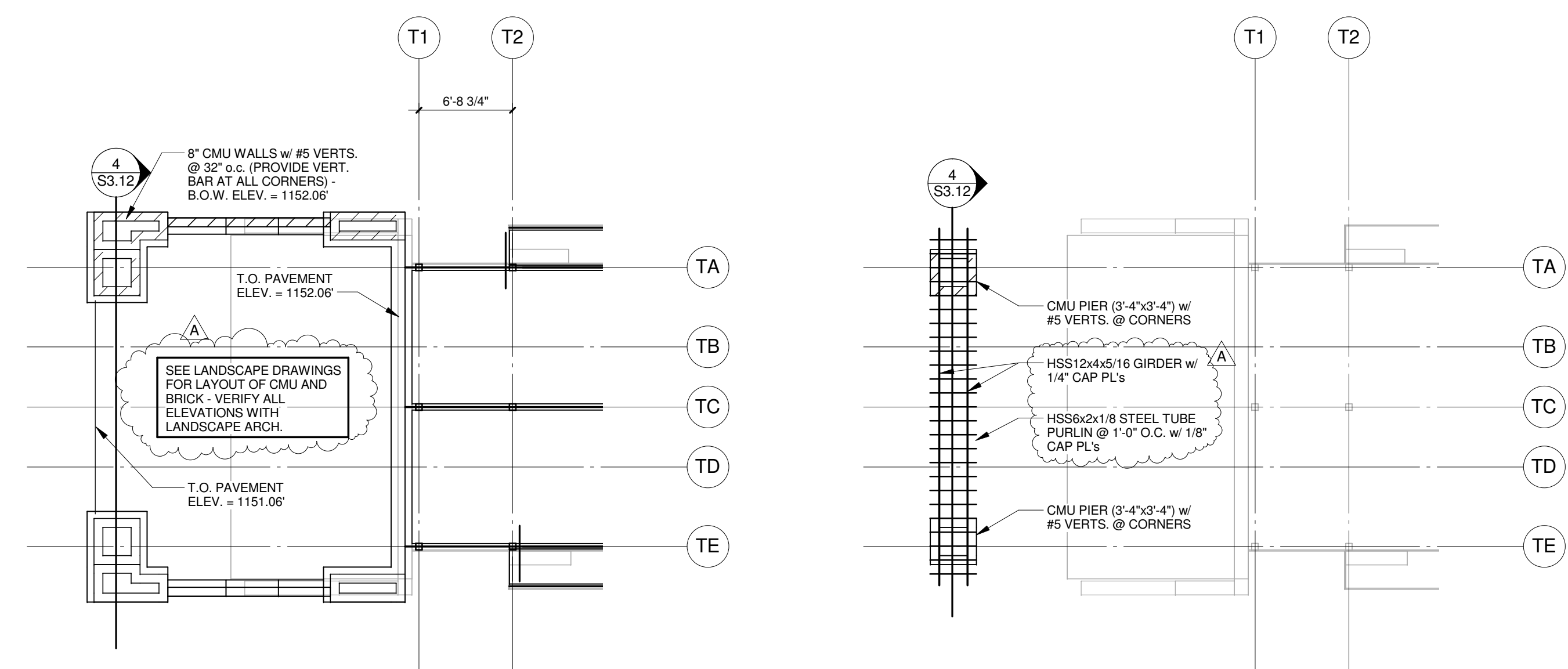
**SECOND FLOOR
 PLAN - INDOOR
 TENNIS/SUPPORT
 - AREA B**

S1.12B



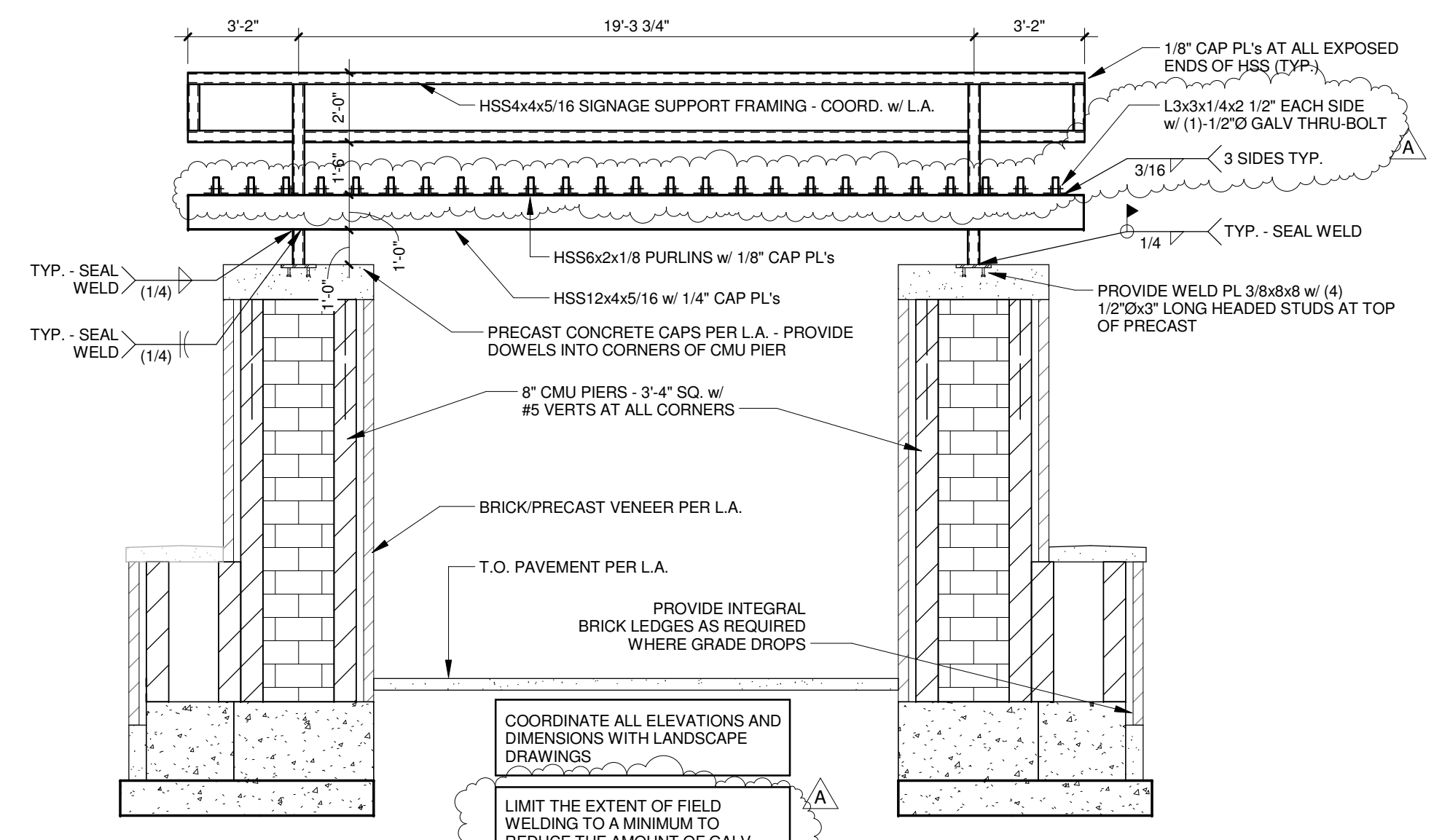
- ROOF FRAMING PLAN NOTES**
- SEE STRUCTURAL NOTES ON SHEET S0.01.
 - COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - TOP OF STRUCTURE ELEVATION - VARIES - SEE CIVIL
 - 5.25x11.4" AND 5.25x11.25" = POWER PRESERVED GLULAM BEAM SIZES, AS MANUFACTURED BY ANTHONY FOREST PRODUCTS (OR EQUIV.)

FRAMING PLAN - OUTDOOR TENNIS
1/16" = 1'-0"



FRAMING PLAN - PAVILION
1/8" = 1'-0"

HIGH FRAMING PLAN - PAVILION
1/8" = 1'-0"



PAVILION SECTION
1/4" = 1'-0"

CONSTRUCTION ISSUE

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UNL SOCCER & TENNIS COMPLEX
2400 NORTH 14TH STREET
LINCOLN, NEBRASKA

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FRAMING PLAN - OUTDOOR TENNIS
S3.12

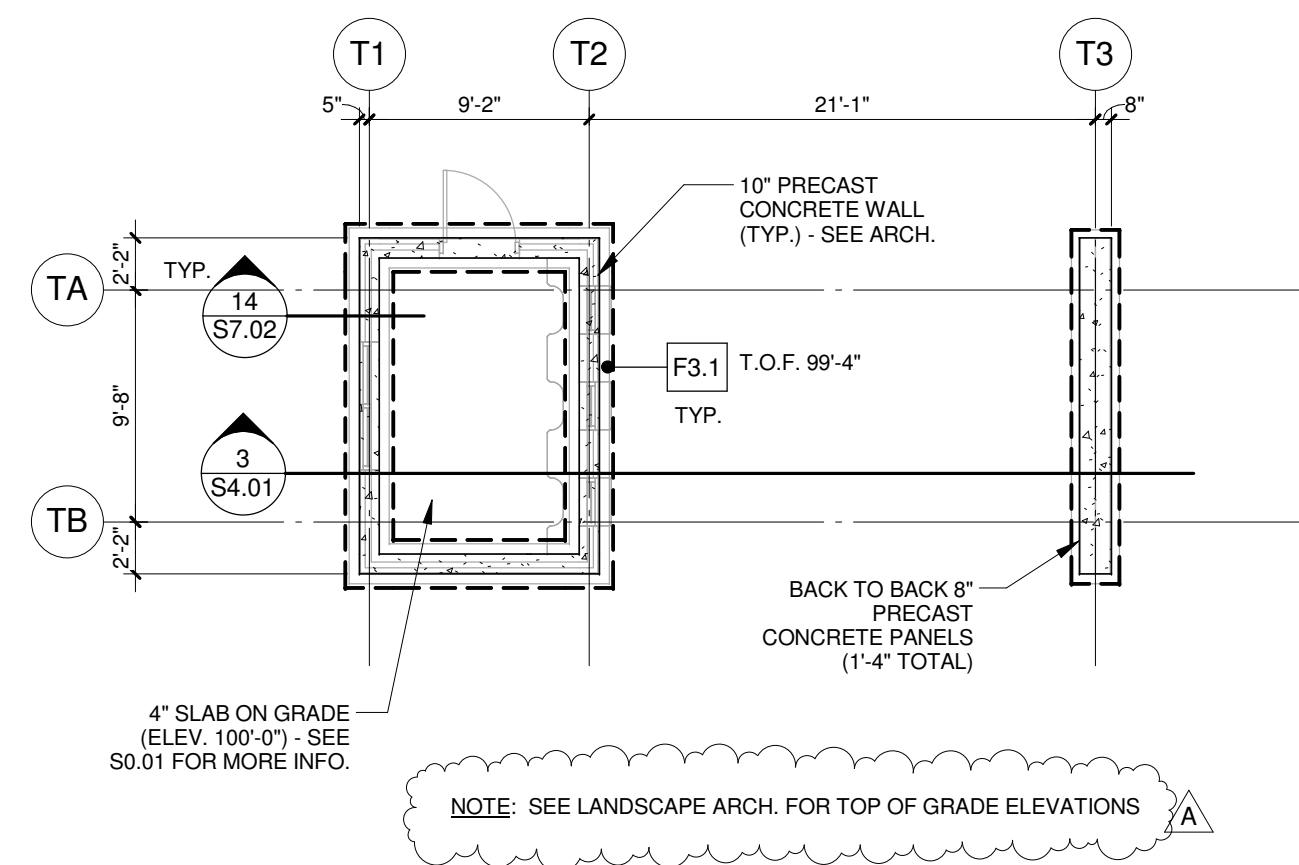
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PLANNING ARCHITECT

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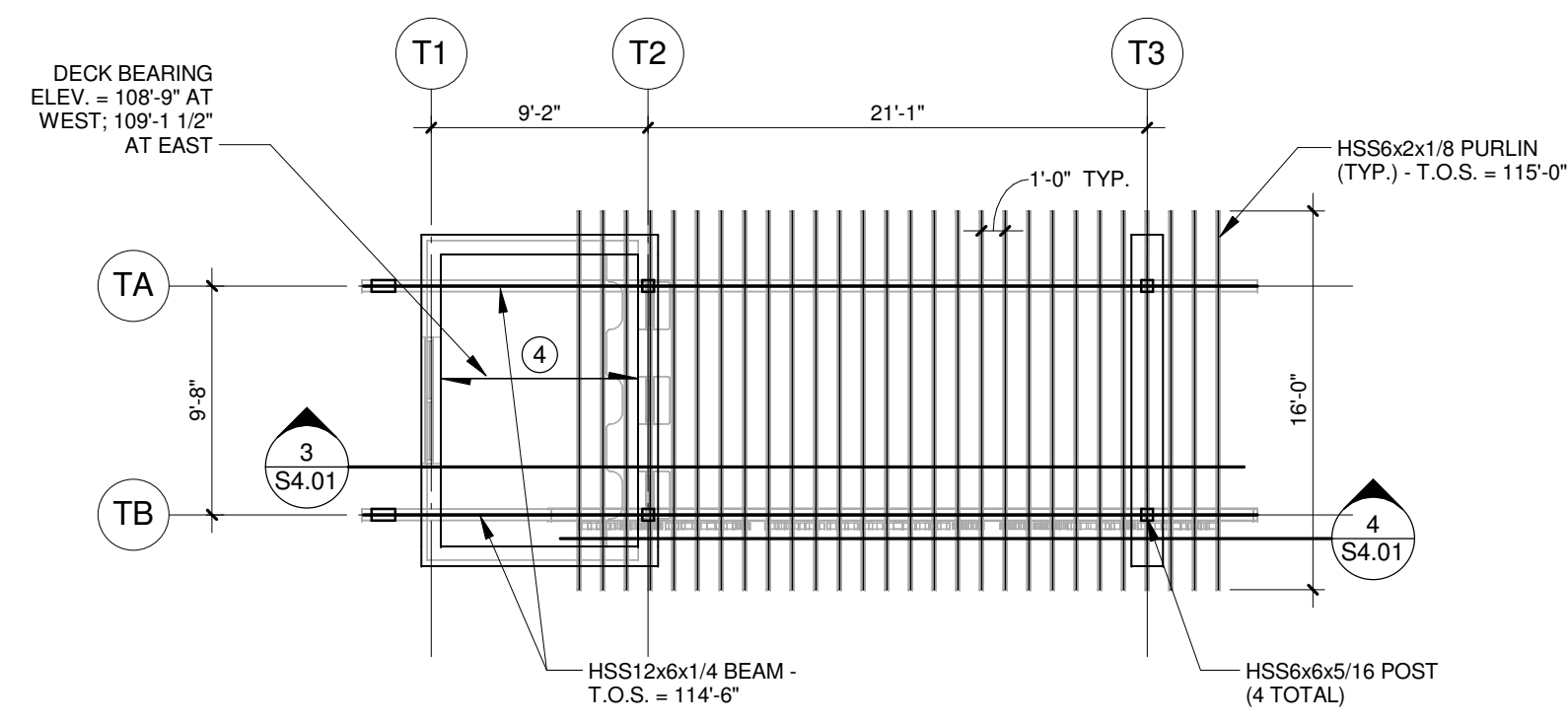
FRAMING PLAN - OUTDOOR TENNIS
S3.12



FOUNDATION PLAN - TICKETS

1/8" = 1'-0"

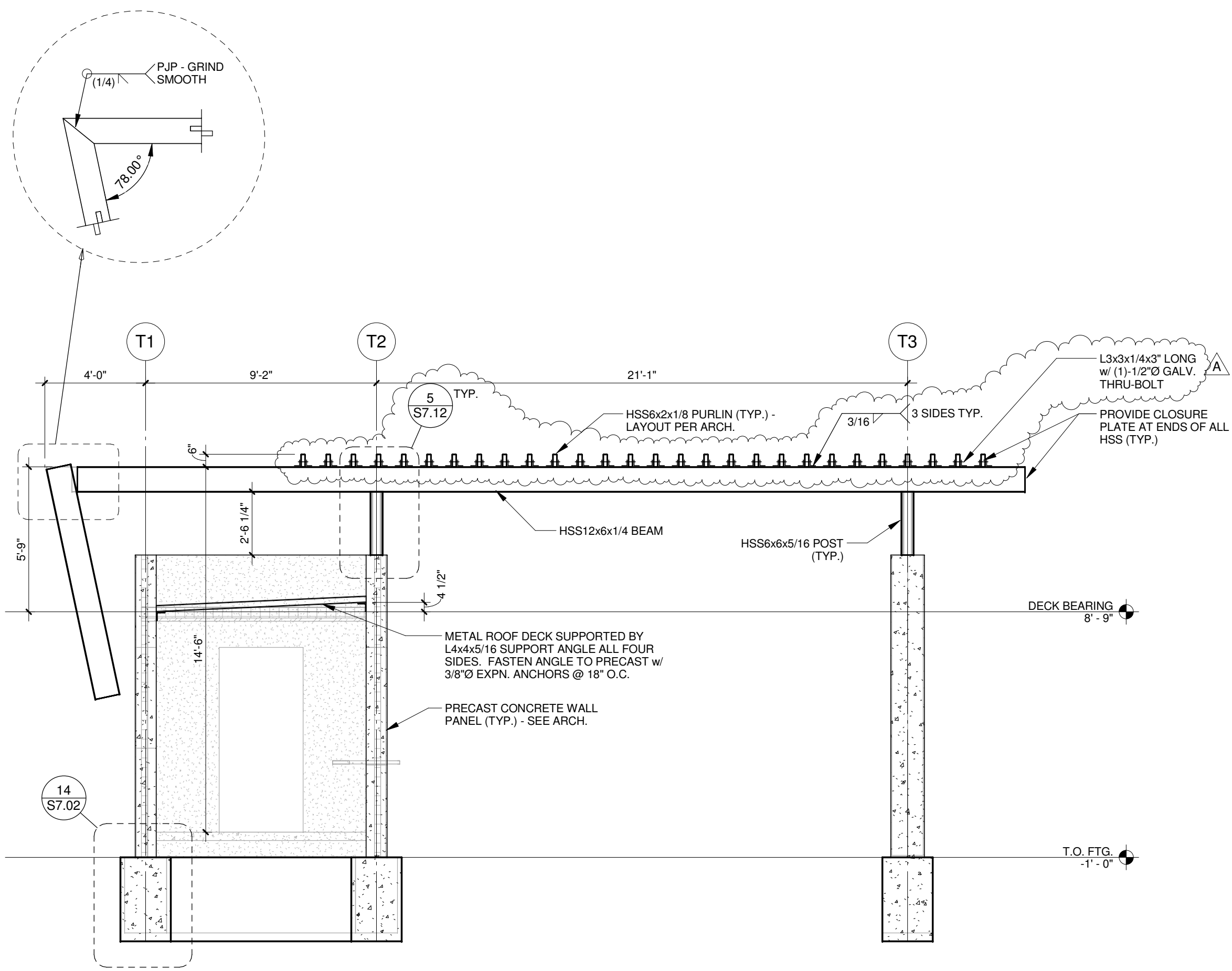
- TICKETS - FOUNDATION PLAN NOTES**
- SEE STRUCTURAL NOTES ON SHEET S0.01.
 - COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - ARCHITECTURAL ELEV. 100'-0" = CIVIL ELEV. 1151'-10".
 - TOP OF FOOTING ELEVATION = VARIES - SEE PLAN
 - F. FOOTING MARK - SEE SCHEDULE ON SHEET S6.01



ROOF FRAMING PLAN - TICKETS

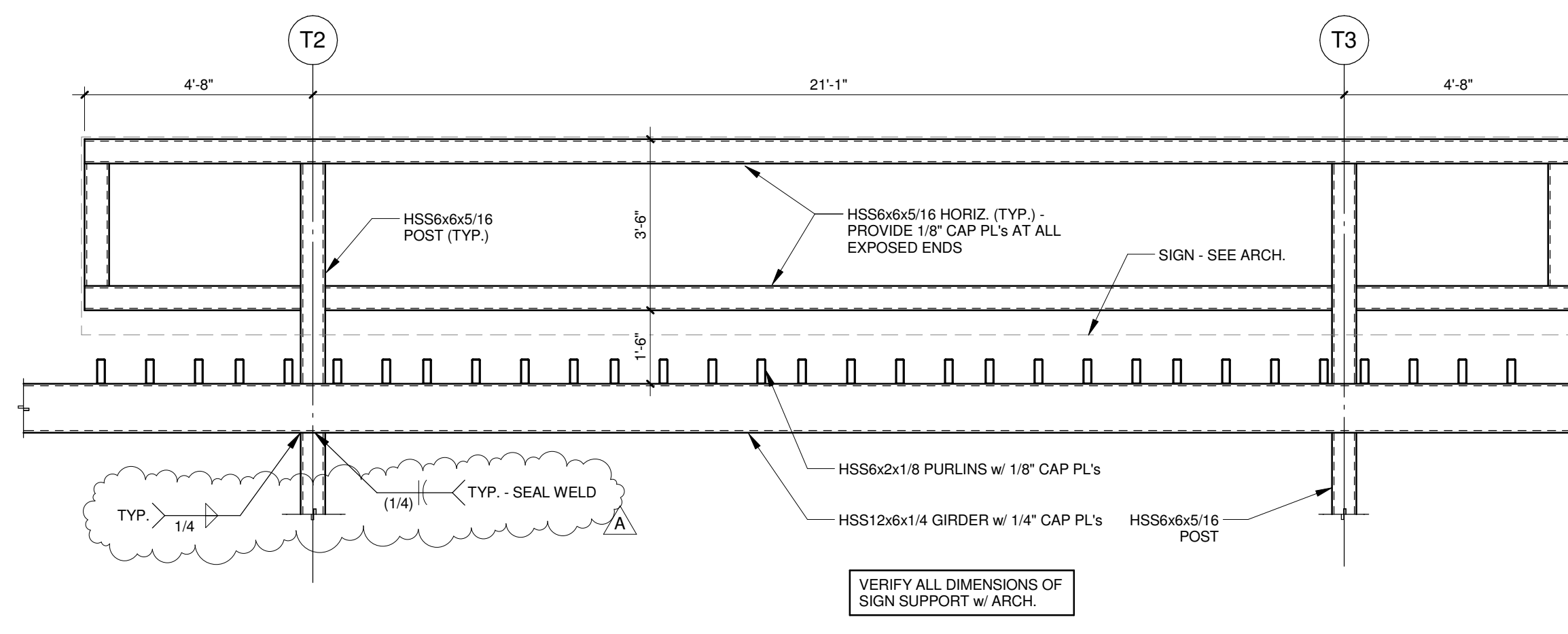
1/8" = 1'-0"

- TICKETS - ROOF FRAMING PLAN NOTES**
- SEE STRUCTURAL NOTES ON SHEET S0.01.
 - COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - TOP OF STEEL ELEVATION = VARIES, THUS (T.O.S. = xxx'xxx).
 - (X) : INDICATES SPAN DIRECTION OF DECKING NOTED BELOW:
 (A) : 3" 20ga. VULCRAFT 3M GALVANIZED METAL ROOF DECK



3 BUILDING SECTION AT TICKETS

1/4" = 1'-0"



4 TICKETS SIGNAGE SUPPORT

3/8" = 1'-0"

CONSTRUCTION ISSUE

UNL SOCCER & TENNIS COMPLEX

2400 NORTH 14TH STREET
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CIVIL
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Overland Park, KS 66207
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TD2
engineering & surveying
TD2 PROJECT # 919-421

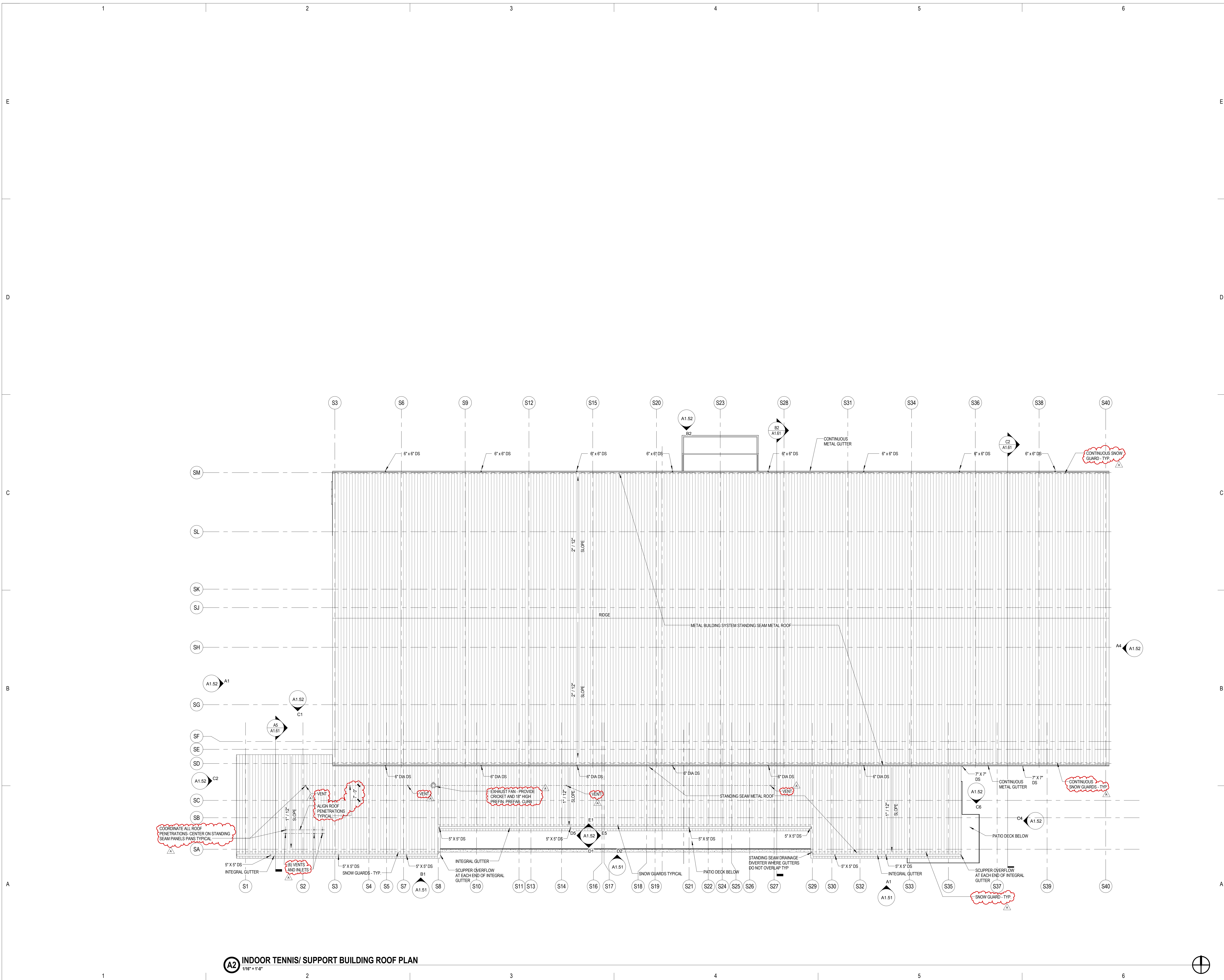
30714 ACCURACY #1
REVISION DATE DESCRIPTION
ISSUED: 03/02/14
PROJECT NO: 2013.512.00

RDG Planning & Design
UNL SOCCER & TENNIS COMPLEX
UNL FPC 40509191

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TICKETS

S4.01



A2 INDOOR TENNIS/ SUPPORT BUILDING ROOF PLAN
1/16" = 1'-0"

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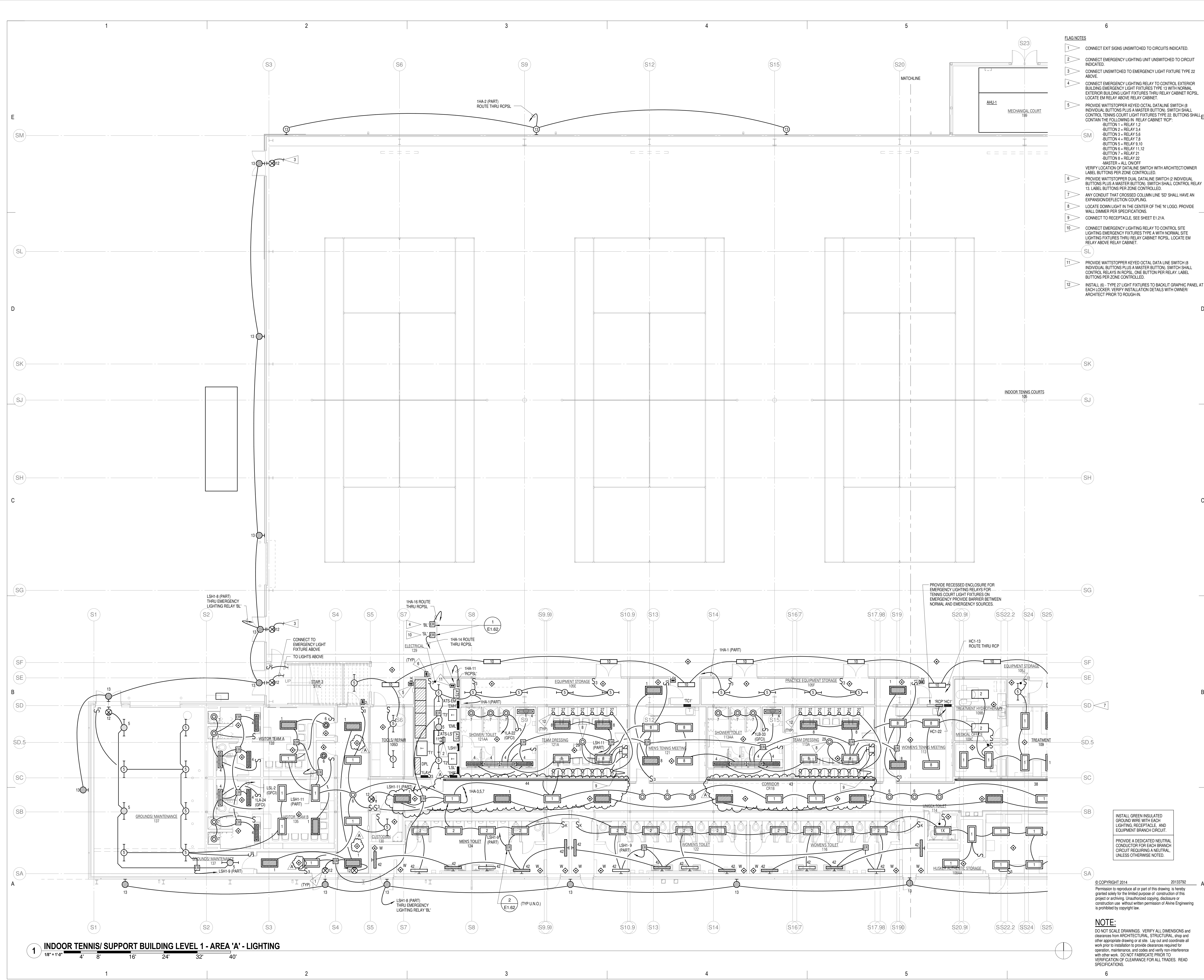
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CIVIL
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REVISION	DATE	DESCRIPTION
1	3/7/2014	ISSUED
2	3/7/2014	PROJECT NO. 2013.012.00

UNL SOCCER & TENNIS COMPLEX
UNL FPC 400007011
UNL SOCCER & TENNIS COMPLEX
ROOF PLAN

A1.13



- FLAG NOTES**
- 1 CONNECT EXIT SIGNS UNSWITCHED TO CIRCUITS INDICATED.
 - 2 CONNECT EMERGENCY LIGHTING UNIT UNSWITCHED TO CIRCUIT INDICATED.
 - 3 CONNECT UNSWITCHED TO EMERGENCY LIGHT FIXTURE TYPE 22 ABOVE.
 - 4 CONNECT EMERGENCY LIGHTING RELAY TO CONTROL EXTERIOR BUILDING EMERGENCY LIGHT FIXTURES THRU RELAY CABINET RCPSL. LOCATE EM RELAY ABOVE RELAY CABINET.
 - 5 PROVIDE WATTSTOPPER KEYS OCTAL DATALINE SWITCH (8 INDIVIDUAL BUTTONS PLUS A MASTER BUTTON). SWITCH SHALL CONTROL TENNIS COURT LIGHT FIXTURES TYPE 22. BUTTONS SHALL CONTAIN THE FOLLOWING IN RELAY CABINET RCP:
 - BUTTON 1 = RELAY 1,2
 - BUTTON 2 = RELAY 3,4
 - BUTTON 3 = RELAY 5,6
 - BUTTON 4 = RELAY 7,8
 - BUTTON 5 = RELAY 9,10
 - BUTTON 6 = RELAY 11,12
 - BUTTON 7 = RELAY 21
 - BUTTON 8 = RELAY 22
 - MASTER = ALL ON/OFF
 - 6 VERIFY LOCATION OF DATALINE SWITCH WITH ARCHITECT/OWNER. LABEL BUTTONS PER ZONE CONTROLLED.
 - 7 PROVIDE WATTSTOPPER DUAL DATALINE SWITCH (2 INDIVIDUAL BUTTONS PLUS A MASTER BUTTON). SWITCH SHALL CONTROL RELAY 13. LABEL BUTTONS PER ZONE CONTROLLED.
 - 8 ANY CONDUIT THAT CROSSED COLUMN LINE 'SD' SHALL HAVE AN EXPANSION DEFLECTION COUPLING.
 - 9 LOCATE DOWN LIGHT IN THE CENTER OF THE 'N' LOGO. PROVIDE WALL DIMMER PER SPECIFICATIONS.
 - 10 CONNECT TO RECEPTACLE. SEE SHEET E1.21A.
 - 11 CONNECT EMERGENCY LIGHTING RELAY TO CONTROL SITE LIGHTING EMERGENCY FIXTURES TYPE A WITH NORMAL SITE LIGHTING FIXTURES THRU RELAY CABINET RCPSL. LOCATE EM RELAY ABOVE RELAY CABINET.
 - 12 PROVIDE WATTSTOPPER KEYS OCTAL DATA LINE SWITCH (8 INDIVIDUAL BUTTONS PLUS A MASTER BUTTON). SWITCH SHALL CONTROL RELAYS IN RCPSL. ONE BUTTON PER RELAY. LABEL BUTTONS PER ZONE CONTROLLED.
 - 13 INSTALL (6) - TYPE 27 LIGHT FIXTURES TO BACKLIT GRAPHIC PANEL AT EACH LOCKER. VERIFY INSTALLATION DETAILS WITH OWNER/ARCHITECT PRIOR TO RUSH-IN.

INSTALL GREEN INSULATED GROUND WIRE WITH EACH LIGHTING RECEPTACLE AND EQUIPMENT BRANCH CIRCUIT.

PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT REQUIRING A NEUTRAL, UNLESS OTHERWISE NOTED.

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1 INDOOR TENNIS/ SUPPORT BUILDING LEVEL 1 - AREA 'A' - LIGHTING
1/8" = 1'-0"

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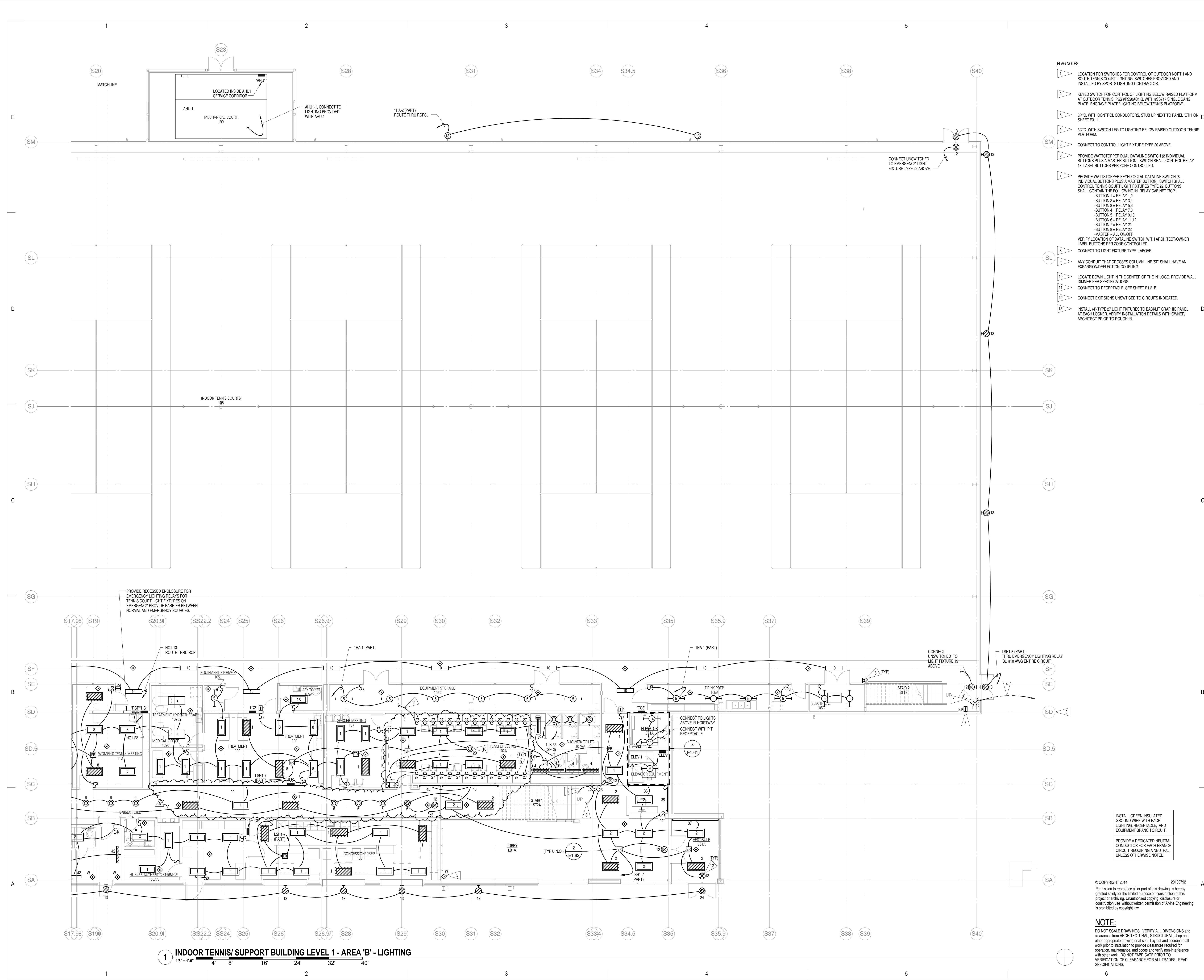
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KEY PLAN

PROJECT NO.	3772914
ISSUE DATE	2013.5.12.10
PROJECT NAME	UNL SOCCER & TENNIS COMPLEX
UNL PFC #	PCW1791

TENNIS/ SUPP. FLOOR PLAN LEVEL 1 - AREA A - LIGHTING

E1.11A



- FLAG NOTES**
- 1 LOCATION FOR SWITCHES FOR CONTROL OF OUTDOOR NORTH AND SOUTH TENNIS COURT LIGHTING. SWITCHES PROVIDED AND INSTALLED BY SPORTS LIGHTING CONTRACTOR.
 - 2 KEYSWITCH FOR CONTROL OF LIGHTING BELOW RAISED PLATFORM AT OUTDOOR TENNIS. P&S APPROXIMATE WITH #5517 SINGLE GANG PLATE. ENGRAVE PLATE LIGHTING BELOW TENNIS PLATFORM.
 - 3 3/4" WITH CONTROL CONDUCTORS. STUB UP NEXT TO PANEL 07H ON SHEET E1.1.
 - 4 3/4" WITH SWITCH-LEG TO LIGHTING BELOW RAISED OUTDOOR TENNIS PLATFORM.
 - 5 CONNECT TO CONTROL LIGHT FIXTURE TYPE 20 ABOVE.
 - 6 PROVIDE WATTSSTOPPER DUAL DATALINE SWITCH (2 INDIVIDUAL BUTTONS PLUS A MASTER BUTTON). SWITCH SHALL CONTROL RELAY 13. LABEL BUTTONS PER ZONE CONTROLLED.
 - 7 PROVIDE WATTSSTOPPER KEYSWITCH OCTAL DATALINE SWITCH (8 INDIVIDUAL BUTTONS PLUS A MASTER BUTTON). SWITCH SHALL CONTROL TENNIS COURT LIGHT FIXTURES TYPE 22. BUTTONS SHALL CONTAIN THE FOLLOWING IN RELAY CABINET "RCP":
 - BUTTON 1 = RELAY 1,2
 - BUTTON 2 = RELAY 3,4
 - BUTTON 3 = RELAY 5,6
 - BUTTON 4 = RELAY 7,8
 - BUTTON 5 = RELAY 9,10
 - BUTTON 6 = RELAY 11,12
 - BUTTON 7 = RELAY 21
 - BUTTON 8 = RELAY 22
 - MASTER = ALL ON/OFF
 VERIFY LOCATION OF DATALINE SWITCH WITH ARCHITECT/OWNER LABEL BUTTONS PER ZONE CONTROLLED.
 CONNECT TO LIGHT FIXTURE TYPE 1 ABOVE.
 - 8 ANY CONDUIT THAT CROSSES COLUMN LINE 'SD' SHALL HAVE AN EXPANSION/DEFLECTION COUPLING.
 - 9 LOCATE DOWN LIGHT IN THE CENTER OF THE 'N' LOGO. PROVIDE WALL DIMMER PER SPECIFICATIONS.
 - 10 CONNECT TO RECEPTACLE. SEE SHEET E1.21B
 - 11 CONNECT EXIT SIGNS UNSWITCHED TO CIRCUITS INDICATED.
 - 12 INSTALL (4) TYPE 27 LIGHT FIXTURES TO BACKLIT GRAPHIC PANEL AT EACH LOCKER. VERIFY INSTALLATION DETAILS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

INSTALL GREEN INSULATED GROUND WIRE WITH EACH LIGHTING RECEPTACLE AND EQUIPMENT BRANCH CIRCUIT.
 PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT REQUIRING A NEUTRAL UNLESS OTHERWISE NOTED.

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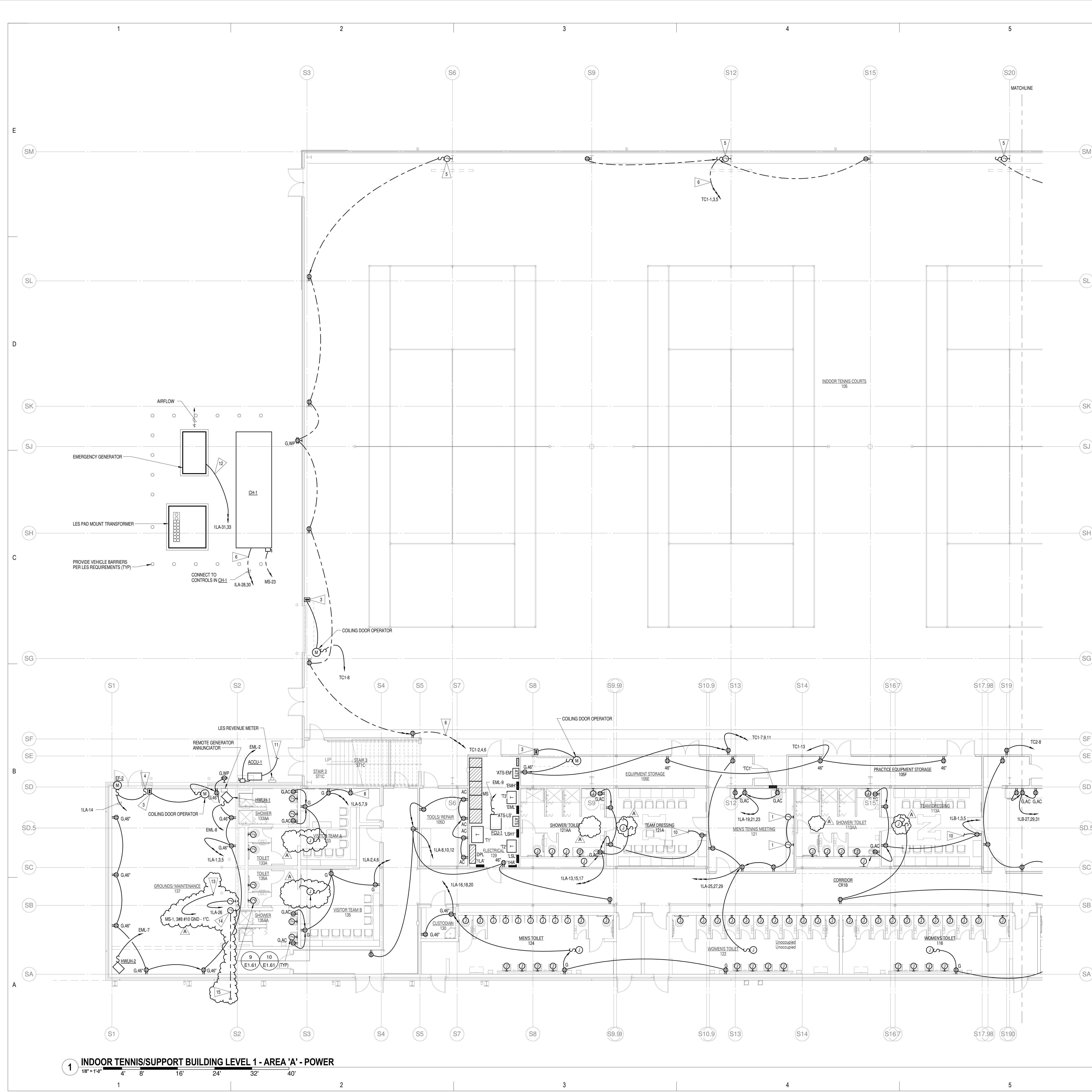
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KEY PLAN

PROJECT NO.	032714	ADDENDUM 1
ISSUED:	DATE	DESCRIPTION
PROJECT NO.	2013.912.00	3/7/2014
DATE:	2013.912.00	
PROJECT NO.	2013.912.00	

TENNIS/ SUPP. FLOOR PLAN LEVEL 1 - AREA B - LIGHTING

E1.11B



- FLAG NOTES**
- 1 WIREMOLD WALL BOX HEFSB2. PROVIDE NEMA 5-20 DUPLEX RECEPTACLE AND WALL PLATE. COORDINATE MOUNTING LOCATION WITH WALL MOUNTED FLAT PANEL TELEVISION.
 - 2 LOCATE RECEPTACLE FOR WATER COOLER SO THAT CORD AND PLUG ARE CONCEALED OR BEHIND WATER COOLER.
 - 3 INSTALL AND CONNECT CONTROL STATION FURNISHED WITH DOOR OPERATOR. CONNECT ALL SAFETY INTERLOCKS.
 - 4 ENGRAVE SWITCH PLATE "EXHAUST FAN."
 - 5 COORDINATE MOUNTING LOCATION ON METAL BUILDING STRUCTURE TO SERVE SINGLE COURT SCORE BOARD.
 - 6 PROVIDE #10 CONDUCTORS IN 3/4" ENTIRE LENGTH OF CIRCUITS.
 - 7 COORDINATE MOUNTING LOCATION TO SERVE SECURITY CAMERAS.
 - 8 COORDINATE LOCATION OF OUTLET TO SERVE LOCKER ROOM CLOCK, 90" A.F.F. (VERIFY)
 - 9 ANY ABOVE GROUND CONDUIT THAT CROSSES COLUMN LINE 'SD' SHALL HAVE AN EXPANSION/DEFLECTION COUPLING.
 - 10 CONNECT TO LED BULLET LIGHT FIXTURE TYPE 27, SHEET E1.11A
 - 11 FEEDER TO AC-1 IN TELECOM ROOM 225.
 - 12 CONNECT TO GENERATOR BLOCK HEATER AND BATTERY CHARGER.
 - 13 PROVIDE CONNECTION TO VARIABLE FREQUENCY CONTROLLER AND IRRIGATION BOOSTER PUMP. CONFIRM LOCATION WITH IRRIGATION CONTRACTOR.
 - 14 PROVIDE CONNECTION TO IRRIGATION CONTROLLER. CONFIRM LOCATION WITH IRRIGATION CONTRACTOR.
 - 15 STUB-OUT (1) 2" C. BELOW GRADE SOFT FROM BUILDING TO LAWN AREA SOUTH OF BUILDING AND CONCRETE WALKWAY. CAP AND STAKE END.

INSTALL GREEN INSULATED GROUND WIRE WITH EACH LIGHTING RECEPTACLE AND EQUIPMENT BRANCH CIRCUIT.

PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT REQUIRING A NEUTRAL UNLESS OTHERWISE NOTED.

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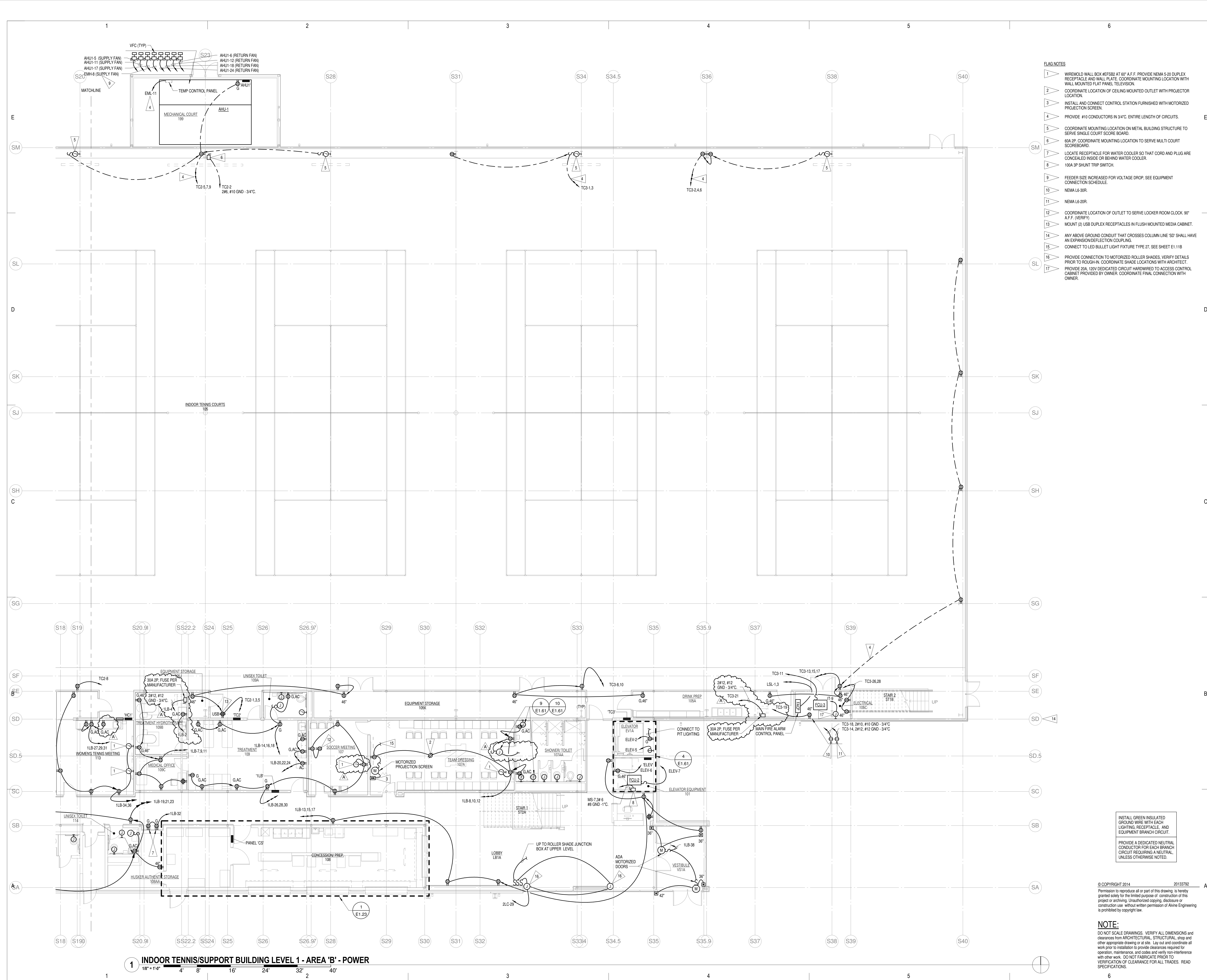
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KEY PLAN

PROJECT NO.	032714	ADDENDUM 1
ISSUED:	3/7/2014	DESCRIPTION
PROJECT DATE:	2013.9.12.00	
DATE:	3/7/2014	
BY:	RDG Planning & Design	
FOR:	UNL SOCCER & TENNIS COMPLEX	
UNL POC:	RDG P101	

TENNIS/ SUPP. FLOOR PLAN LEVEL 1 - AREA A - POWER

E1.21A



- FLAG NOTES**
- 1 WIREMOLD WALL BOX WFSB2 AT 6" A.F.F. PROVIDE NEMA 5-20 DUPLEX RECEPTACLE AND WALL PLATE. COORDINATE MOUNTING LOCATION WITH WALL MOUNTED FLAT PANEL TELEVISION.
 - 2 COORDINATE LOCATION OF CEILING MOUNTED OUTLET WITH PROJECTOR LOCATION.
 - 3 INSTALL AND CONNECT CONTROL STATION FURNISHED WITH MOTORIZED PROJECTION SCREEN.
 - 4 PROVIDE #10 CONDUCTORS IN 3/4" ENTIRE LENGTH OF CIRCUITS.
 - 5 COORDINATE MOUNTING LOCATION ON METAL BUILDING STRUCTURE TO SERVE SINGLE COURT SCORE BOARD.
 - 6 60A 2P. COORDINATE MOUNTING LOCATION TO SERVE MULTI COURT SCOREBOARD.
 - 7 LOCATE RECEPTACLE FOR WATER COOLER SO THAT CORD AND PLUG ARE CONCEALED INSIDE OF BEHIND WATER COOLER.
 - 8 100A 3P SHUNT TRIP SWITCH.
 - 9 FEEDER SIZE INCREASED FOR VOLTAGE DROP. SEE EQUIPMENT CONNECTION SCHEDULE.
 - 10 NEMA L6-30R.
 - 11 NEMA L6-20R.
 - 12 COORDINATE LOCATION OF OUTLET TO SERVE LOCKER ROOM CLOCK. 90" A.F.F. (VERIFY)
 - 13 MOUNT (2) USB DUPLEX RECEPTACLES IN FLUSH MOUNTED MEDIA CABINET.
 - 14 ANY ABOVE GROUND CONDUIT THAT CROSSES COLUMN LINE 'SD' SHALL HAVE AN EXPANSION/DEFLECTION COUPLING.
 - 15 CONNECT TO LED BULLET LIGHT FIXTURE TYPE 27, SEE SHEET E1.11B
 - 16 PROVIDE CONNECTION TO MOTORIZED ROLLER SHADES. VERIFY DETAILS PRIOR TO ROUGH-IN. COORDINATE SHADE LOCATIONS WITH ARCHITECT.
 - 17 PROVIDE 20A, 120V DEDICATED CIRCUIT HARDWIRED TO ACCESS CONTROL CABINET PROVIDED BY OWNER. COORDINATE FINAL CONNECTION WITH OWNER.

INSTALL GREEN INSULATED GROUND WIRE WITH EACH LIGHTING RECEPTACLE AND EQUIPMENT BRANCH CIRCUIT.

PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT REQUIRING A NEUTRAL UNLESS OTHERWISE NOTED.

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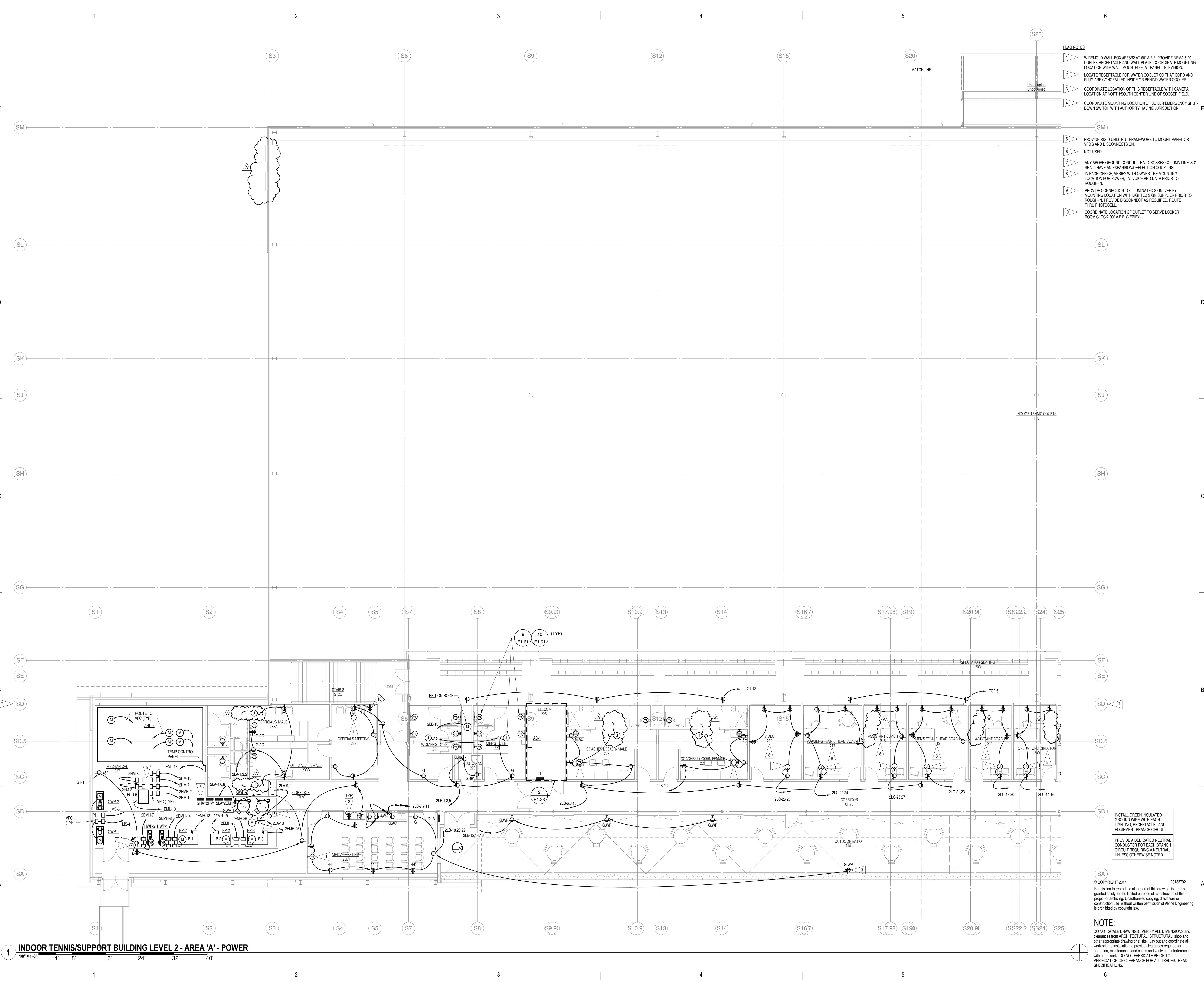
KEY PLAN

PROJECT NO.	032714	ADDENDUM 1
ISSUED:	3/7/2014	DESCRIPTION
PROJECT DATE:	2013.9.12.00	

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UNL FPC RCHW191

TENNIS SUPP. FLOOR PLAN LEVEL 1 - AREA B - POWER

E1.21B



- FLAG NOTES**
- 1 WIREMOLD WALL BOX #FBSR AT 60" A.F.F. PROVIDE NEMA 5-20 DUPLEX RECEPTACLE AND WALL PLATE. COORDINATE MOUNTING LOCATION WITH WALL MOUNTED FLAT PANEL TELEVISION.
 - 2 LOCATE RECEPTACLE FOR WATER COOLER SO THAT CORD AND PLUG ARE CONCEALED INSIDE OR BEHIND WATER COOLER.
 - 3 COORDINATE LOCATION OF THIS RECEPTACLE WITH CAMERA LOCATION AT NORTHSOUTH CENTER LINE OF SOCCER FIELD.
 - 4 COORDINATE MOUNTING LOCATION OF BOILER EMERGENCY SHUT-DOWN SWITCH WITH AUTHORITY HAVING JURISDICTION.
 - 5 PROVIDE RIGID UNISTRUT FRAMEWORK TO MOUNT PANEL OR VFC'S AND DISCONNECTS ON.
 - 6 NOT USED.
 - 7 ANY ABOVE GROUND CONDUIT THAT CROSSES COLUMN LINE 'SD' SHALL HAVE AN EXPANSION/DEFLECTION COUPLING.
 - 8 IN EACH OFFICE, VERIFY WITH OWNER THE MOUNTING LOCATION FOR POWER, TV, VOICE AND DATA PRIOR TO ROUGH-IN.
 - 9 PROVIDE CONNECTION TO ILLUMINATED SIGN. VERIFY MOUNTING LOCATION WITH LIGHTED SIGN SUPPLIER PRIOR TO ROUGH-IN. PROVIDE DISCONNECT AS REQUIRED. ROUTE THRU PHOTOCELL.
 - 10 COORDINATE LOCATION OF OUTLET TO SERVE LOCKER ROOM CLOCK. 90" A.F.F. (VERIFY).

INSTALL GREEN INSULATED GROUND WIRE WITH EACH LIGHTING RECEPTACLE AND EQUIPMENT BRANCH CIRCUIT.

PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT REQUIRING A NEUTRAL UNLESS OTHERWISE NOTED.

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1 INDOOR TENNIS/SUPPORT BUILDING LEVEL 2 - AREA 'A' - POWER
1/8" = 1'-0"

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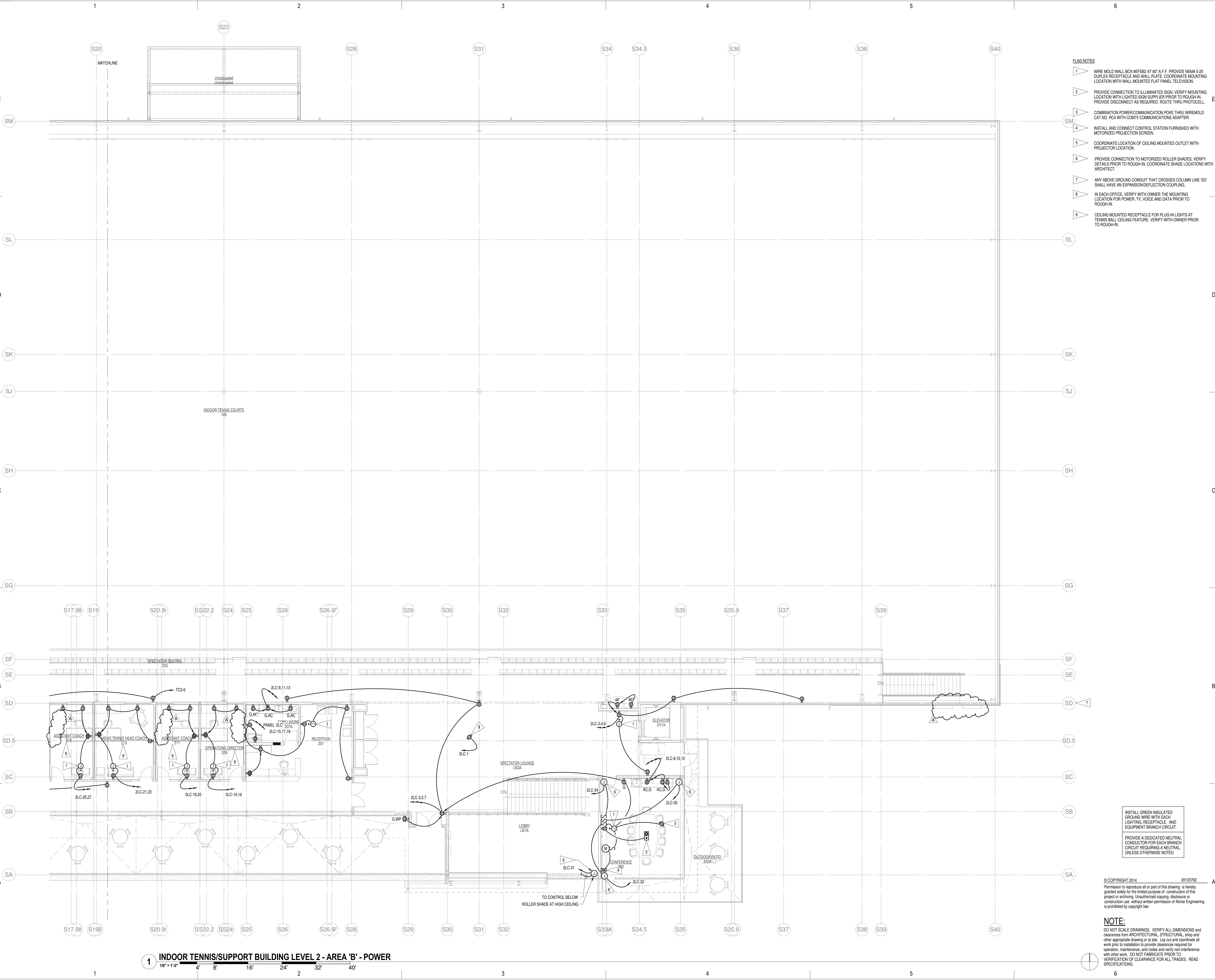
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PROJECT NO.	032714	ADDENDUM 1
ISSUED DATE	3/7/2014	DESCRIPTION
PROJECT NO.	2013.312.00	
DATE	3/7/14	

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UNL FPC #C009191

TENNIS SUP'T FLOOR PLAN LEVEL 2 - AREA A - POWER

E1.22A



- FLAG NOTES**
- 1 WIRE MOLD WALL BOX #EFSB AT 60" A.F.F. PROVIDE NEMA 5-20 DUPLEX RECEPTACLE AND WALL PLATE. COORDINATE MOUNTING LOCATION WITH WALL MOUNTED FLAT PANEL TELEVISION.
 - 2 PROVIDE CONNECTION TO ILLUMINATED SIGN. VERIFY MOUNTING LOCATION WITH LIGHTED SIGN SUPPLIER PRIOR TO ROUGH-IN. PROVIDE DISCONNECT AS REQUIRED. ROUTE THRU PHOTOCELL.
 - 3 COMBINATION POWER/COMMUNICATION POKE THRU WIREMOLD CAT. NO. 834 WITH COMMS COMMUNICATIONS ADAPTER.
 - 4 INSTALL AND CONNECT CONTROL STATION FURNISHED WITH MOTORIZED PROJECTION SCREEN.
 - 5 COORDINATE LOCATION OF CEILING MOUNTED OUTLET WITH PROJECTOR LOCATION.
 - 6 PROVIDE CONNECTION TO MOTORIZED ROLLER SHADES. VERIFY DETAILS PRIOR TO ROUGH-IN. COORDINATE SHADE LOCATIONS WITH ARCHITECT.
 - 7 ANY ABOVE GROUND CONDUIT THAT CROSSES COLUMN LINE 'SD' SHALL HAVE AN EXPANSION/DEFLECTION COUPLING.
 - 8 IN EACH OFFICE, VERIFY WITH OWNER THE MOUNTING LOCATION FOR POWER, TV, VOICE AND DATA PRIOR TO ROUGH-IN.
 - 9 CEILING MOUNTED RECEPTACLE FOR PLUG-IN LIGHTS AT TENNIS BALL CEILING FEATURE. VERIFY WITH OWNER PRIOR TO ROUGH-IN.

INSTALL GREEN INSULATED GROUND WIRE WITH EACH LIGHTING RECEPTACLE AND EQUIPMENT BRANCH CIRCUIT.

PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT REQUIRING A NEUTRAL, UNLESS OTHERWISE NOTED.

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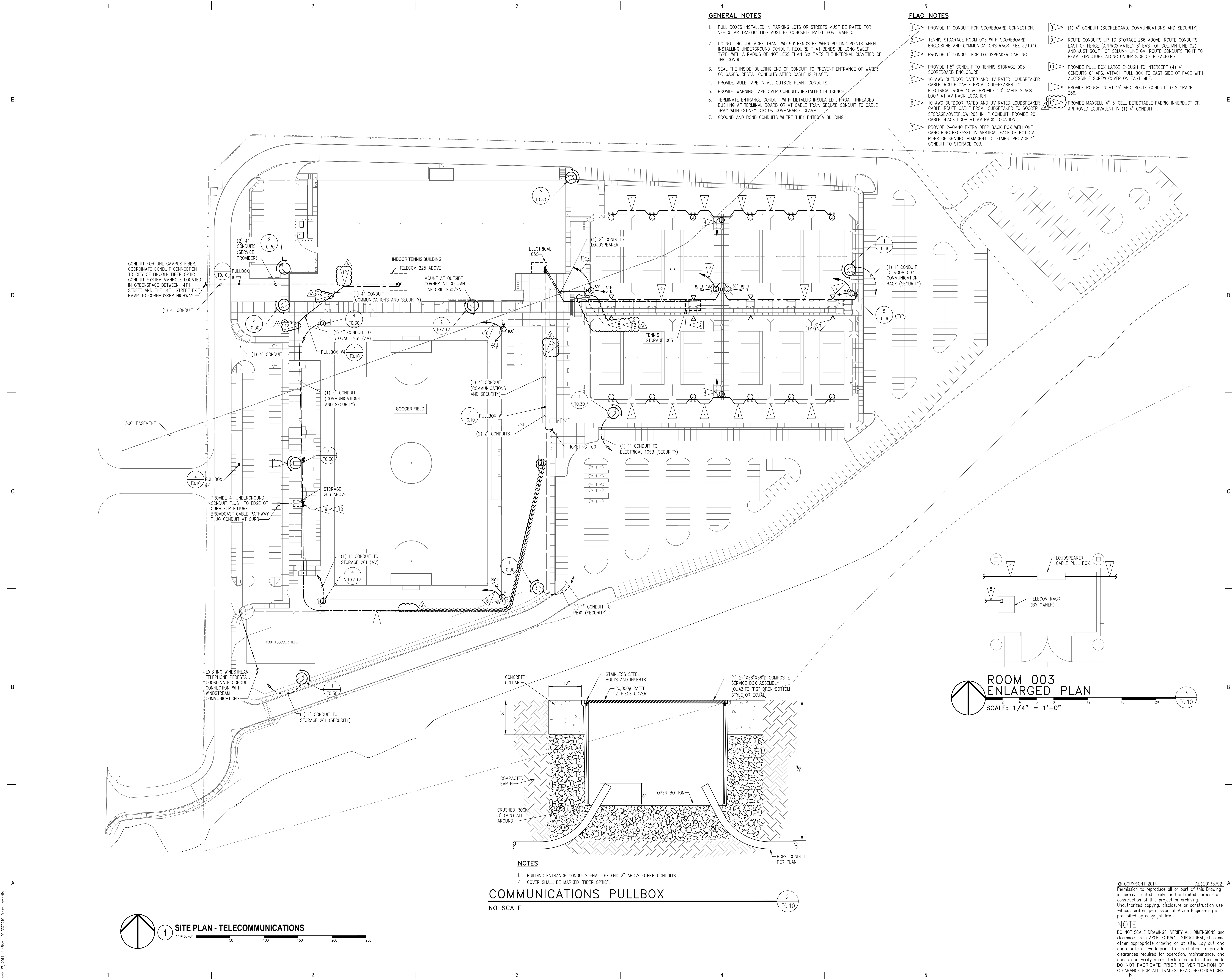
PROJECT NO.	2013.312.00	
ISSUED:	3/7/2014	
REV.	DATE	DESCRIPTION
A	03/27/14	ADDENDUM 1

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UNL FPC R00W191

TENNIS/ SUPT.
FLOOR PLAN
LEVEL 2 - AREA
B - POWER

E1.22B

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GENERAL NOTES

- PULL BOXES INSTALLED IN PARKING LOTS OR STREETS MUST BE RATED FOR VEHICULAR TRAFFIC. LIDS MUST BE CONCRETE RATED FOR TRAFFIC.
- DO NOT INCLUDE MORE THAN TWO 90° BENDS BETWEEN PULLING POINTS WHEN INSTALLING UNDERGROUND CONDUIT. SECURE THAT BENDS BE LONG SWEEP TYPE, WITH A RADIUS OF NOT LESS THAN SIX TIMES THE INTERNAL DIAMETER OF THE CONDUIT.
- SEAL THE INSIDE-BUILDING END OF CONDUIT TO PREVENT ENTRANCE OF WATER OR GASES. RESEAL CONDUITS AFTER CABLE IS PLACED.
- PROVIDE MULE TAPE IN ALL OUTSIDE PLANT CONDUITS.
- PROVIDE WARNING TAPE OVER CONDUITS INSTALLED IN TRENCH.
- TERMINATE ENTRANCE CONDUIT WITH METALLIC INSULATED-THROAT THREADED BUSHING AT TERMINAL BOARD OR AT CABLE TRAY. SECURE CONDUIT TO CABLE TRAY WITH KENNEY C/O OR COMPARABLE CLAMP.
- GROUND AND BOND CONDUITS WHERE THEY ENTER A BUILDING.

FLAG NOTES

- PROVIDE 1" CONDUIT FOR SCOREBOARD CONNECTION.
- TENNIS STORAGE ROOM 003 WITH SCOREBOARD ENCLOSURE AND COMMUNICATIONS RACK. SEE 3/10.10.
- PROVIDE 1" CONDUIT FOR LOUDSPEAKER CABLING.
- PROVIDE 1.5" CONDUIT TO TENNIS STORAGE 003 SCOREBOARD ENCLOSURE.
- 10 AWG OUTDOOR RATED AND UV RATED LOUDSPEAKER CABLE. ROUTE CABLE FROM LOUDSPEAKER TO ELECTRICAL ROOM 105B. PROVIDE 20' CABLE SLACK LOOP AT AV RACK LOCATION.
- 10 AWG OUTDOOR RATED AND UV RATED LOUDSPEAKER CABLE. ROUTE CABLE FROM LOUDSPEAKER TO SOCCER STORAGE/OVERFLOW 266 IN 1" CONDUIT. PROVIDE 20' CABLE SLACK LOOP AT AV RACK LOCATION.
- PROVIDE 2-GANG EXTRA DEEP BACK BOX WITH ONE GANG RING RECESSED IN VERTICAL FACE OF BOTTOM RISER OF SEATING ADJACENT TO STAIRS. PROVIDE 1" CONDUIT TO STORAGE 003.
- (1) 4" CONDUIT (SCOREBOARD, COMMUNICATIONS AND SECURITY).
- ROUTE CONDUITS UP TO STORAGE 266 ABOVE. ROUTE CONDUITS EAST OF FENCE (APPROXIMATELY 6' EAST OF COLUMN LINE G2) AND JUST SOUTH OF COLUMN LINE GM. ROUTE CONDUITS TIGHT TO BEAM STRUCTURE ALONG UNDER SIDE OF BLEACHERS.
- PROVIDE PULL BOX LARGE ENOUGH TO INTERCEPT (4) 4" CONDUITS 6" AFG. ATTACH PULL BOX TO EAST SIDE OF FACE WITH ACCESSIBLE SCREW COVER ON EAST SIDE.
- PROVIDE ROUGH-IN AT 15' AFG. ROUTE CONDUIT TO STORAGE 266.
- PROVIDE MAXCELL 4" 3-CELL DETECTABLE FABRIC INNERDUCT OR APPROVED EQUIVALENT IN (1) 4" CONDUIT.

CONDUIT FOR UNL CAMPUS FIBER. COORDINATE CONDUIT CONNECTION TO CITY OF LINCOLN FIBER OPTIC CONDUIT SYSTEM MANHOLE LOCATED IN GREENSPACE BETWEEN 14TH STREET AND THE 14TH STREET EXIT RAMP TO CORNHUSKER HIGHWAY.

500' EASEMENT

PROVIDE 4" UNDERGROUND CONDUIT FLUSH TO EDGE OF CURB FOR FUTURE BROADCAST CABLE PATHWAY. PLUS CONDUIT AT CURB.

EXISTING WINDSTREAM TELEPHONE PEDESTAL. COORDINATE CONDUIT CONNECTION WITH WINDSTREAM COMMUNICATIONS.

INDOOR TENNIS BUILDING
TELECOM 225 ABOVE
MOUNT AT OUTSIDE CORNER AT COLUMN LINE GRID S30/S4

SOCCER FIELD

YOUTH SOCCER FIELD

ELECTRICAL 105C

TENNIS STORAGE 003

TICKETING 100

STORAGE 266 ABOVE

EXISTING WINDSTREAM TELEPHONE PEDESTAL

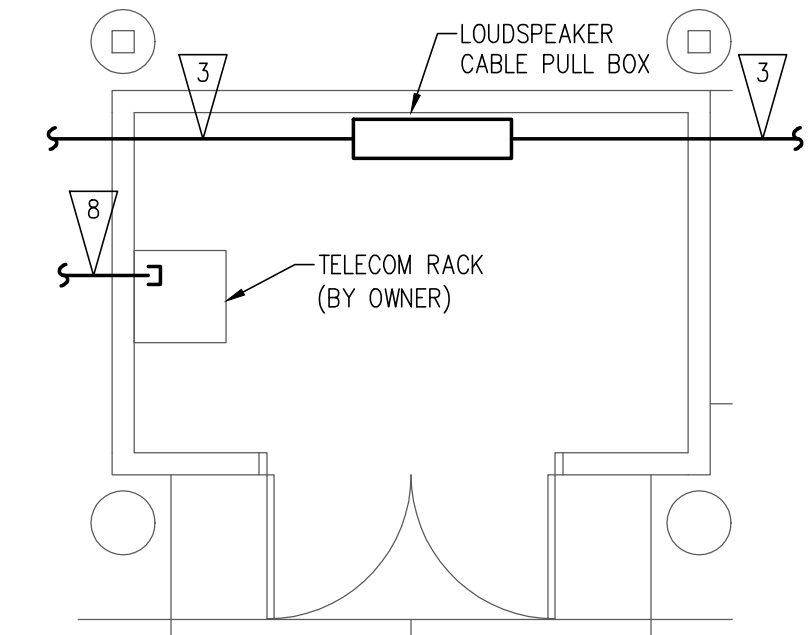
CONCRETE COLLAR

COMPACTED EARTH

CRUSHED ROCK 6" (MIN) ALL AROUND

HDPE CONDUIT PER PLAN

NO SCALE

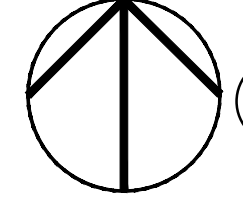


ROOM 003 ENLARGED PLAN
SCALE: 1/4" = 1'-0"

NOTES

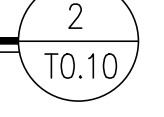
- BUILDING ENTRANCE CONDUITS SHALL EXTEND 2" ABOVE OTHER CONDUITS.
- COVER SHALL BE MARKED "FIBER OPTIC".

COMMUNICATIONS PULLBOX



1 SITE PLAN - TELECOMMUNICATIONS

1" = 50'-0"



2 COMMUNICATIONS PULLBOX

NO SCALE

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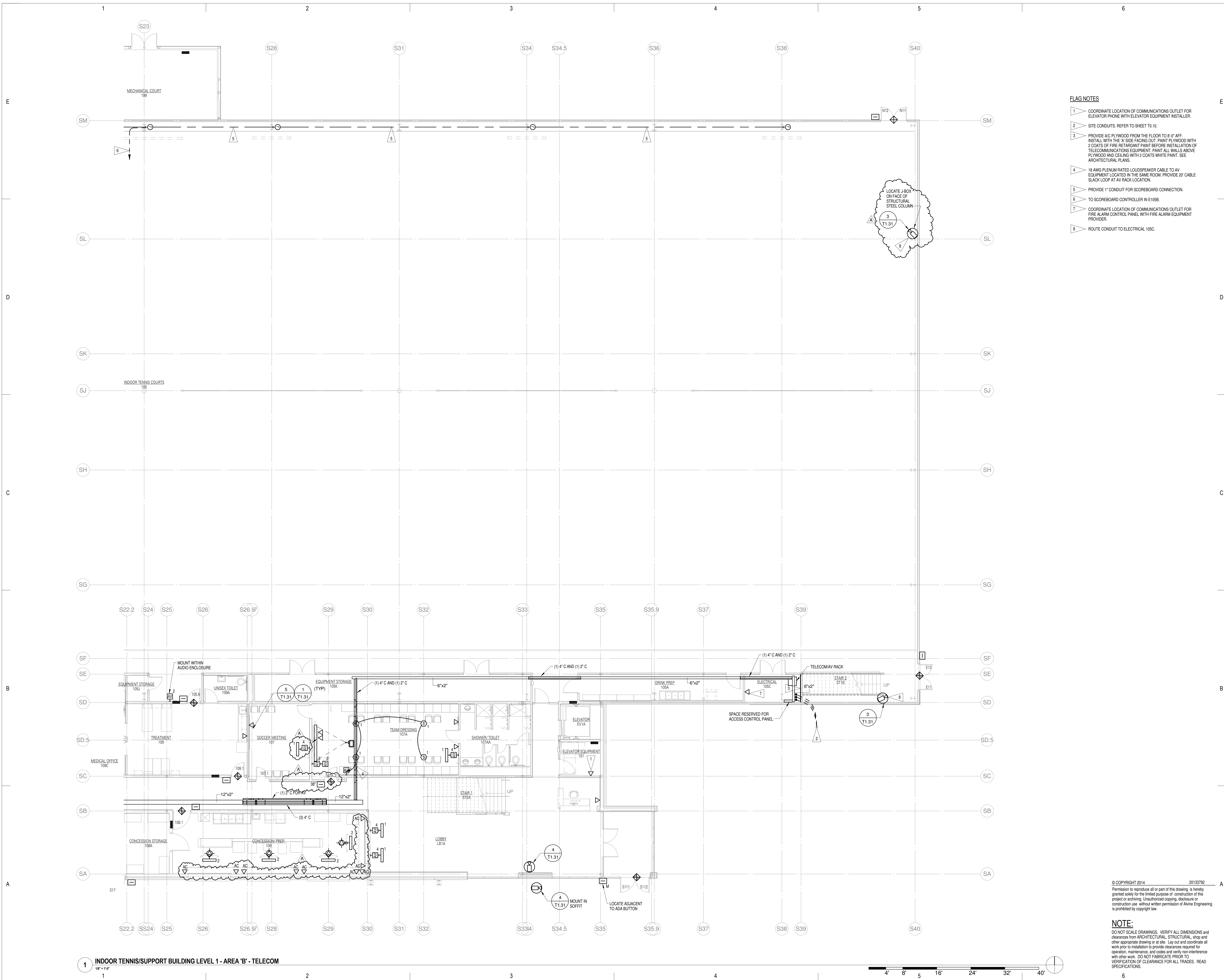
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ISSUED: 3/7/2014
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SITE PLAN - TELECOM
T0.10



FLAG NOTES

- 1 COORDINATE LOCATION OF COMMUNICATIONS OUTLET FOR ELEVATOR PHONE WITH ELEVATOR EQUIPMENT INSTALLER.
- 2 SITE CONDUITS REFER TO SHEET TO 10.
- 3 PROVIDE AC PLYWOOD FROM THE FLOOR TO 8'-0" AFF. INSTALL WITH THE 'A' SIDE FACING OUT. PAINT PLYWOOD WITH 2 COATS OF FIRE RETARDANT PAINT BEFORE INSTALLATION OF TELECOMMUNICATIONS EQUIPMENT. PAINT ALL WALLS ABOVE PLYWOOD AND CEILING WITH 2 COATS WHITE PAINT. SEE ARCHITECTURAL PLANS.
- 4 18 AWG PLENUM RATED LOUDSPEAKER CABLE TO AV EQUIPMENT LOCATED IN THE SAME ROOM. PROVIDE 20' CABLE SLACK LOOP AT AV RACK LOCATION.
- 5 PROVIDE 1" CONDUIT FOR SCOREBOARD CONNECTION.
- 6 TO SCOREBOARD CONTROLLER IN E105B.
- 7 COORDINATE LOCATION OF COMMUNICATIONS OUTLET FOR FIRE ALARM CONTROL PANEL WITH FIRE ALARM EQUIPMENT PROVIDER.
- 8 ROUTE CONDUIT TO ELECTRICAL 105C.

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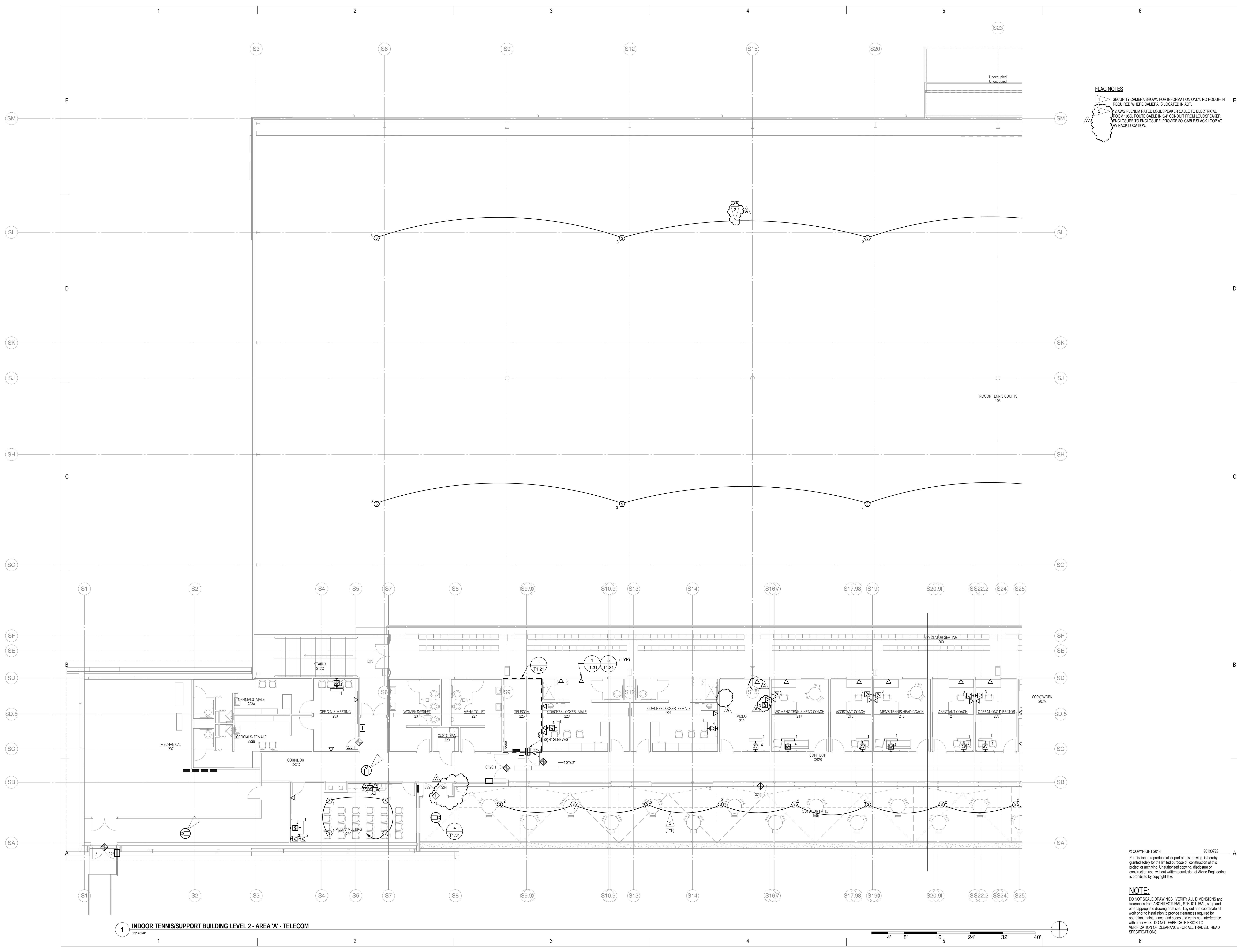
KEY PLAN

REV	DATE	DESCRIPTION
A	03/27/14	ADDENDUM 1

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TENNIS SUPP. FLOOR PLAN LEVEL 1 - AREA B - TELECOM

T1.11B



FLAG NOTES

1 SECURITY CAMERA SHOWN FOR INFORMATION ONLY. NO ROUGH-IN REQUIRED WHERE CAMERA IS LOCATED IN ACT.

2 1/2 AWG PLENUM RATED LOUDSPEAKER CABLE TO ELECTRICAL ROOM 105C. ROUTE CABLE IN 3/4" CONDUIT FROM LOUDSPEAKER ENCLOSURE TO ENCLOSURE. PROVIDE 20' CABLE SLACK LOOP AT S/W BACK LOCATION.

1 INDOOR TENNIS/SUPPORT BUILDING LEVEL 2 - AREA 'A' - TELECOM
1/8" = 1'-0"

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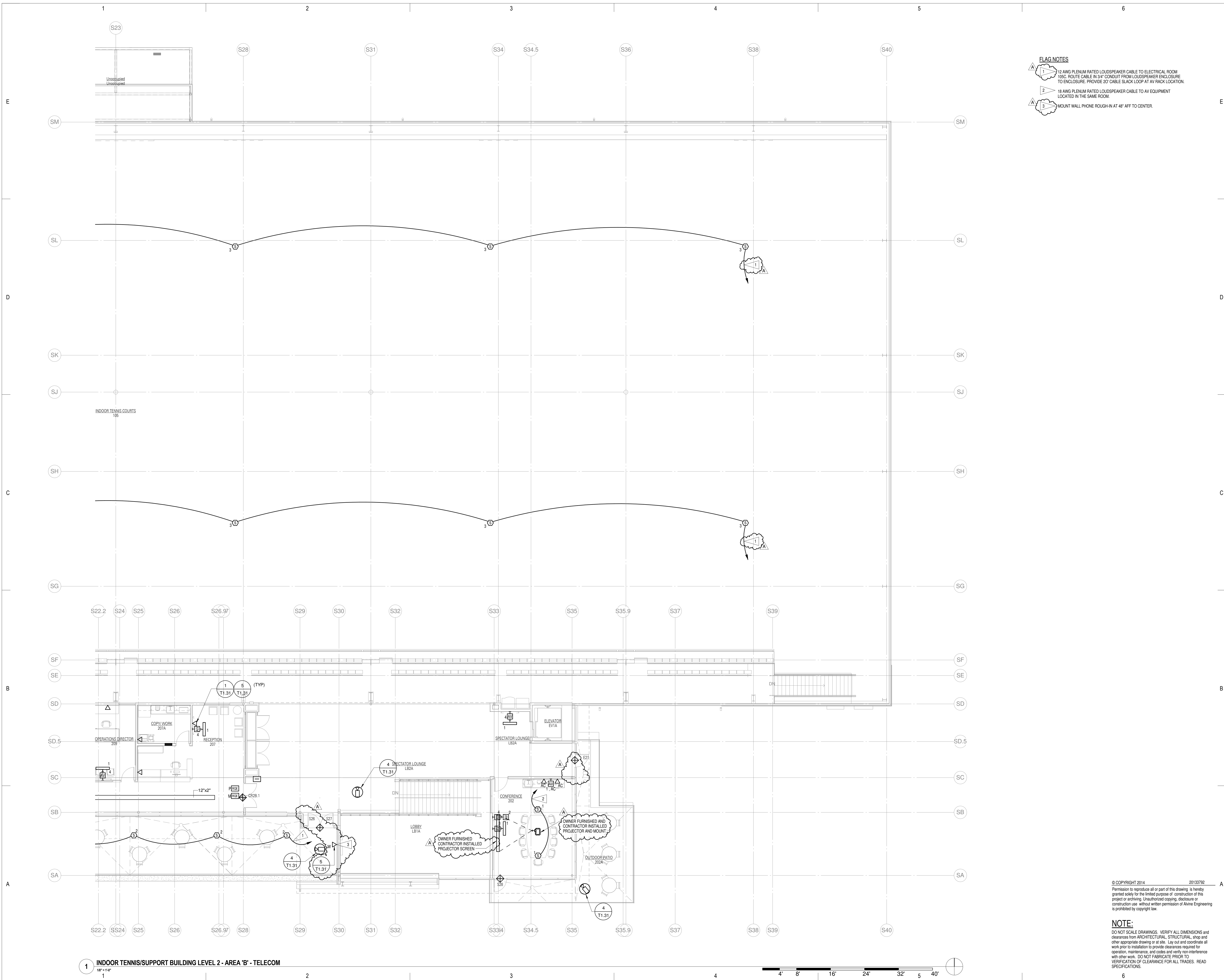
KEY PLAN

REV	DATE	DESCRIPTION
A	03/27/14	ADDENDUM 1

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ISSUED: 2013.02.08
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TENNIS/ SUPP FLOOR
PLAN LEVEL 2 - AREA
A - TELECOM

T1.12A



- FLAG NOTES**
- 1 12 AWG PLENUM RATED LOUDSPEAKER CABLE TO ELECTRICAL ROOM 105C. ROUTE CABLE IN 3/4\" CONDUIT FROM LOUDSPEAKER ENCLOSURE TO ENCLOSURE. PROVIDE 20\" CABLE SLACK LOOP AT AV RACK LOCATION.
 - 2 18 AWG PLENUM RATED LOUDSPEAKER CABLE TO AV EQUIPMENT LOCATED IN THE SAME ROOM.
 - 3 MOUNT WALL PHONE ROUGH-IN AT 48\" AFF TO CENTER.

1 INDOOR TENNIS/SUPPORT BUILDING LEVEL 2 - AREA 'B' - TELECOM

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TENNIS/ SUPT.
 FLOOR PLAN LEVEL 2
 - AREA B - TELECOM

T1.12B

ACCESS CONTROL OPENING SCHEDULE										
DOOR NUMBER	TERMINATION POINT	ACCESS CONTROL DEVICE (W/ MOUNTING BEZEL) (K=KEYPAD)	OUTER/INNER CARD READER (SUBSCRIPT MEANING)	ELECTRIFIED LOCKING DEVICE (R=REQUEST-TO-EXIT SWITCH (D=DELAYED EGRESS OPTION (E=ELECTRIC TRM))	ELECTRIFIED DOOR STRIKE (L=LATCH MONITOR SWITCH)	MAG-LOCK	DOOR POSITION SWITCH (R=RECESSED) (O=OVERHEAD DOOR) (S= SURFACE MOUNT)	REQUEST-TO-EXIT DEVICE (M= MOTION SENSOR) (P= PUSH BUTTON)	ADA OPERATOR	NOTES
105.4	225	P,K		R,ET						
105.5	225	P,K		R,ET						
113.1	225	P,K		R,ET						
121.1	225	P,K		R,ET						
133.1	225	P,K		R,ET						
135.1	225	P,K		R,ET						
S11/S12	225	P		R,EL						
S13	225			R						(4)
S14	225			R						
S15	225			R						
S16	225			R						
S17	225	P		R,ET						
W11/W12	225			R						
W13	225	P					O			(1)
W14/W15	225	P		R,EL						
W16/W17	225	P		R,EL						
W18	225						O			
W19/W110	225	P		R,ET						
105.6	225	P,K		R,ET						
107.2	225	P,K		R,ET						
108.1	225	P,K		R,ET						
108AA.1	225	P,K		R,ET						
109.1	225	P,K		R,ET						
E11/E12	225	P		R,EL						
N11/N12	225			R						
S111/S112	225	P		R,EL						X
225.1	225	P		R,ET						
233.1	225	P,K		R,EL						(3)
CR2C.1	225	P		R,EL						
S21/S22	225	P		R,EL						
S23/S24	225									(2)
S25	225									
E21	225									
CR2B.1	225	P			X			P,M		(2)(3)
S26/S27	225									(2)
S28	225									

GENERAL NOTES:
 1. THE CONTRACTOR SHALL PROVIDE CONDUIT AND ROUGH-IN BOXES IN ACCORDANCE WITH DETAIL 2/T1.31. UNL BSM WILL PROVIDE CARD READERS, DOOR POSITION SWITCHES, CABLE, TERMINATIONS AND CONTROL PANELS.

- NOTES:
 1. OVERHEAD DOOR CONTROLLED BY CARD READER ON EXTERIOR AND PUSH BUTTON STATION ON THE INTERIOR.
 2. DELAYED EGRESS DOOR
 3. DOOR HAS TWO LEAVES.
 4. CARD READER TO CONTROL OVERHEAD DOOR OPERATOR

AV ELECTRICAL ROUGH-IN AND CONDUIT REQUIREMENTS						
AV FACEPLATE	ELECTRICAL ROUGH-IN BOX	BACK BOX DEPTH	ELECTRICAL PLASTER RING	CONDUIT SIZE	MOUNTING HEIGHTS	REMARKS
AV1	4-GANG	2-3/4"	4-GANG	(2) 1-1/4"	NOTE 2A	
AV2	2-GANG	2-3/4"	2-GANG	1"	NOTE 1A	
AV3	2-GANG	2-3/4"	2-GANG	1-1/4"	NOTE 2A	
AV4	NOTE 4A	N/A	N/A	NOTE 3A	65"	
AV5	2-GANG	2-3/4"	2-GANG	1"	NOTE 2A	
AV6	2-GANG	2-3/4"	2-GANG	3/4"	CEILING MOUNTED	
AV7	1-GANG	2-3/4"	1-GANG	3/4"		PRESS BOX ONLY
AV8	1-GANG	2-3/4"	1-GANG	3/4"		

- NOTES:
 1. INSTALLATION BY ELECTRICAL CONTRACTOR.
 2. COORDINATE INSTALLATION REQUIREMENTS WITH ELECTRICAL CONTRACTOR AND ARCHITECT.
 3. CONDUITS TO BE STUBBED INTO NEAREST ACCESSIBLE CEILING LOCATION.
 4. COORDINATE MOUNTING HEIGHT TO MATCH ADJACENT DEVICES WHERE APPLICABLE.

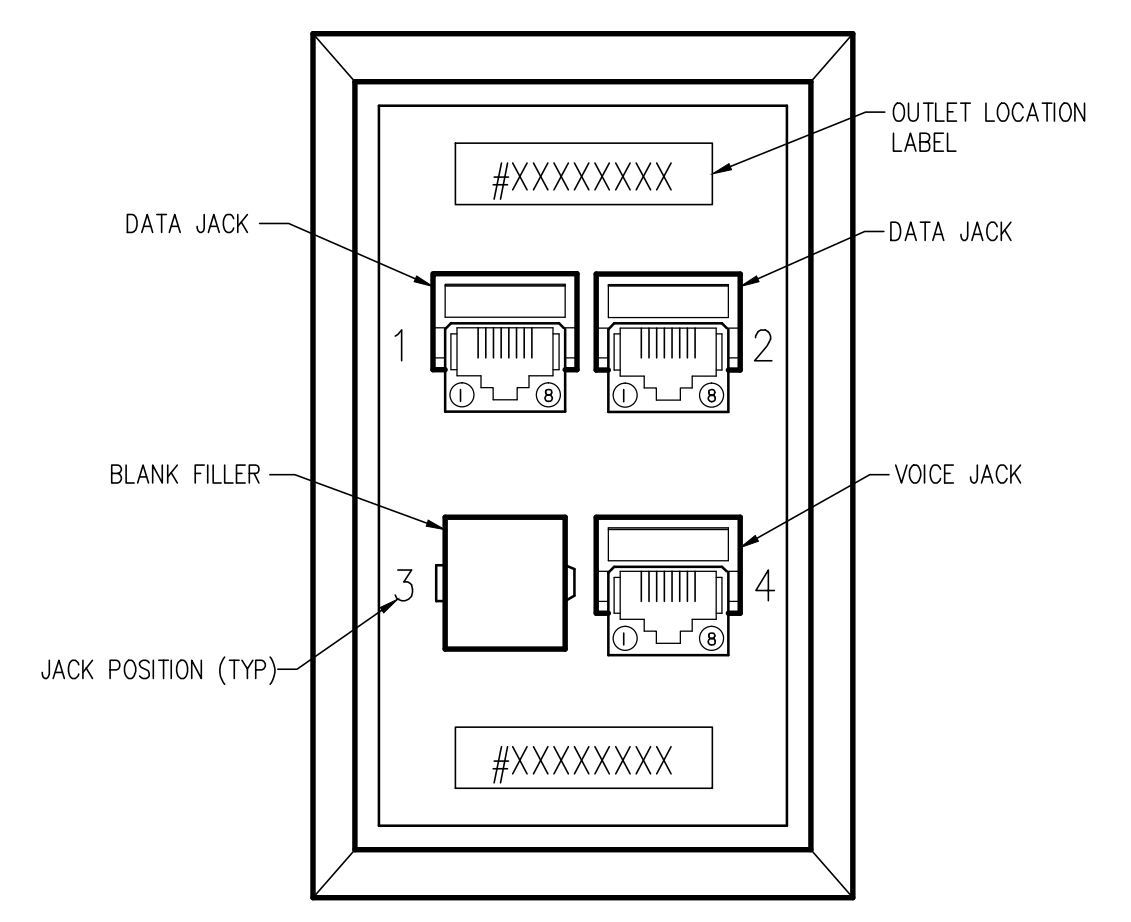
- DEVICE NOTES:
 1A. MOUNTING HEIGHT TO MATCH ELECTRICAL SWITCH HEIGHT.
 2A. MOUNTING HEIGHT TO MATCH ELECTRICAL OUTLET HEIGHT.
 3A. (1) 1" CONDUIT ROUTED TO NEAREST ACCESSIBLE CABLE TRAY. (1) 1-1/4" CONDUIT ROUTED TO ABOVE THE ACCESSIBLE CEILING WITHIN THE SAME ROOM.
 4A. BACK BOX TO BE LEGRAND EPSB2.

VIDEO DISPLAY SCHEDULE								
TYPE	MANUFACTURER	MODEL	ASPECT RATIO	IMAGE SIZE (DIAGONAL)	MOUNTING HEIGHT	MOUNT		REMARKS
						TYPE	MANUFACTURER	
1	OWNER FURNISHED CONTRACTOR INSTALLED	N/A	16:9	N/A	SEE ARCH ELEVATIONS	TILT WALL	CHIEF LTMU	
2	OWNER FURNISHED CONTRACTOR INSTALLED	N/A	16:9	N/A	SEE ARCH ELEVATIONS	POLE CEILING MOUNT	CHIEF MCS	NOTE 1A

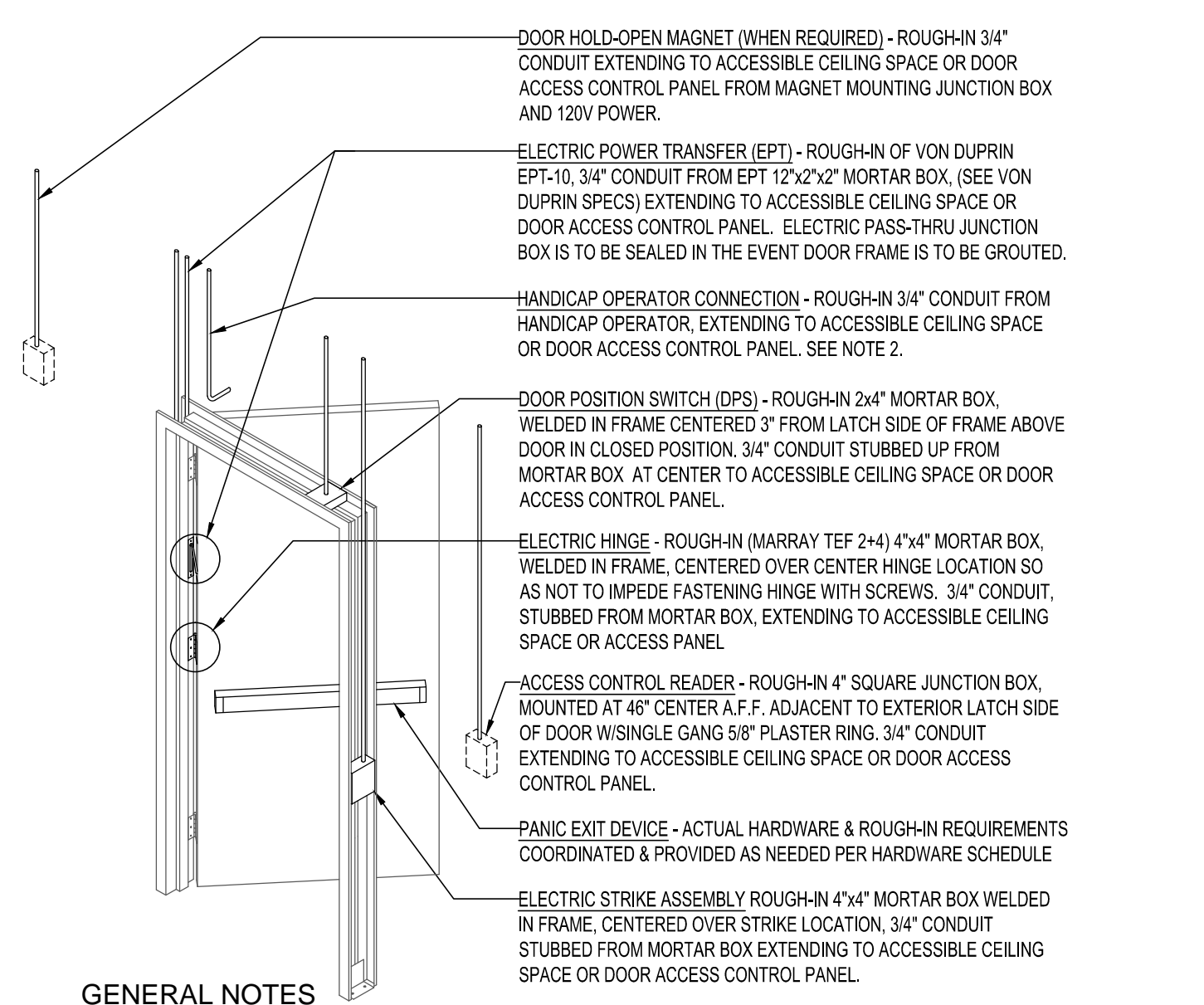
- NOTES:
 1A. PROVIDE WITH ALL MOUNTING HARD WARE, CEILING PLATE AND REQUIRED EXTENSION COLUMN.

LOUDSPEAKER SCHEDULE					
FIXTURE NUMBER	MANUFACTURER	CATALOG NUMBER (NOTE 1)	MOUNTING	DESCRIPTION	REMARKS
1	JBL	CONTROL 26CT	RECESSED CEILING	6.5" FULL RANGE	
2	QSC	AD-C152T	OUTDOOR RECESSED CEILING	6.5" FULL RANGE	
3	SOUNDTUBE	HF890I	PENDANT	8" FULL RANGE	
4	COMMUNITY	R.5-947Z	POLE MOUNT	12" FULL RANGE	
5	COMMUNITY	R.25-947Z	SURFACE MOUNT	8" FULL RANGE	

- NOTES:
 1. CONTRACTOR TO VERIFY SPEAKER CATALOG NUMBER AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING.
 2. COORDINATE LOUDSPEAKER FINISH WITH ARCHITECT AND INTERIOR DESIGNER.
 3. PROVIDE LOUDSPEAKER WITH ALL REQUIRED MOUNTING HARDWARE.

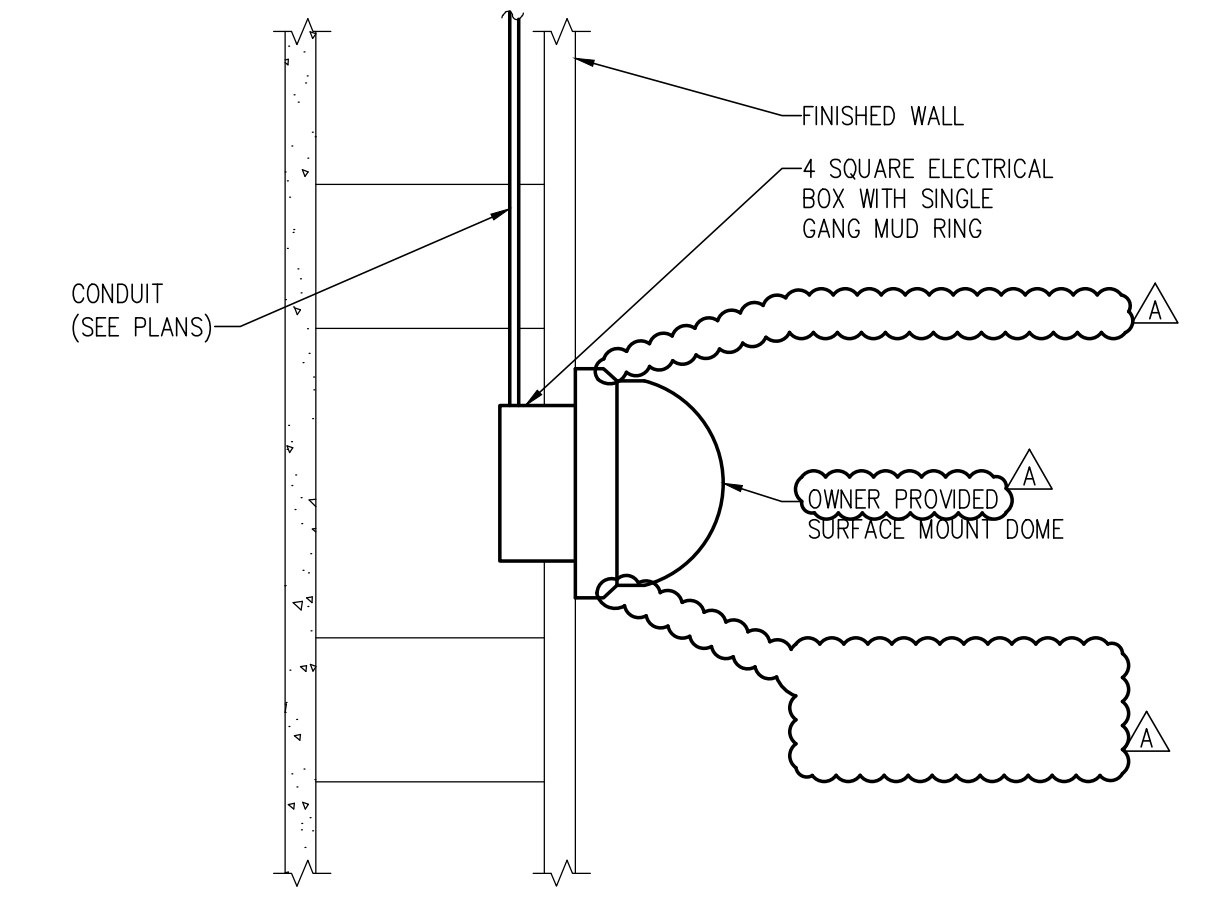


VOICE AND DATA FACEPLATE DETAIL
 NO SCALE
 NOTES:
 1. OWNER FURNISHED EQUIPMENT SHOW FOR REFERENCE ONLY.

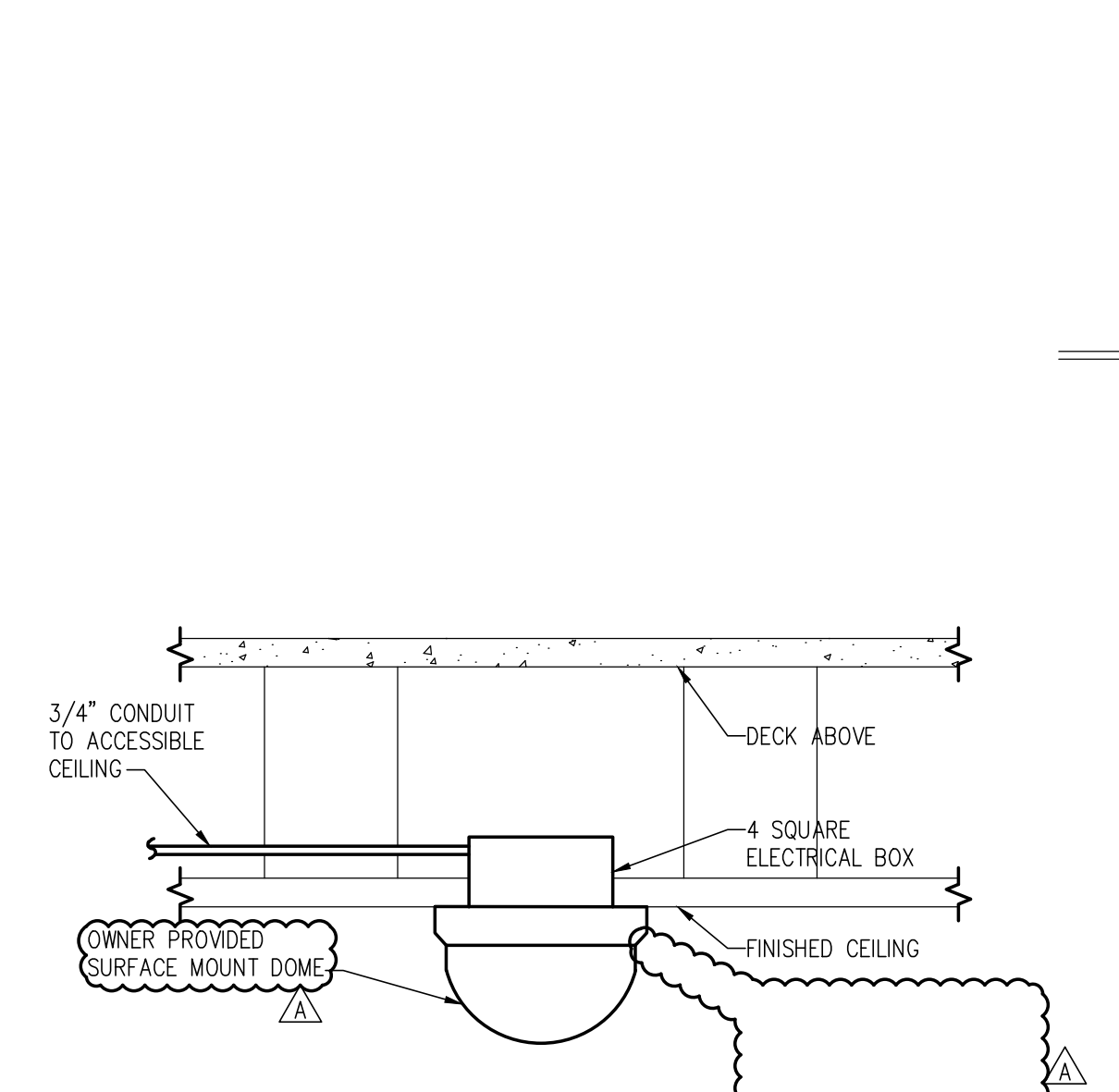


- GENERAL NOTES**
 1. IF DOOR IS TO BE GROUDED, GROUT ONLY TO LEVEL OF TOP FRAME MEMBER, MAKING SURE EPT-10 MORTAR BOX IS IN PLACE, PIPED & SEALED.
 2. IF DOOR IS TO BE EQUIPPED WITH HANDICAP ACCESS OPERATOR, THOSE ROUGH-IN PROVISIONS SHALL BE IN ADDITION TO THESE REQUIREMENTS. HANDICAP ACCESS OPERATOR SHALL HAVE CONDUIT RUN FROM ITS CONTROL PANEL TO THE DOOR ACCESS CONTROL PANEL AND INCLUDE 120V POWER.
 3. IF NO ACCESSIBLE CEILING SPACE IS NEAR THE CONTROLLED DOOR, ALL CONDUITS ARE TO BE RUN CONTINUOUS TO THE DOOR ACCESS CONTROL PANEL.
 4. FOR DOUBLE DOORS, DUPLICATE THE DOOR POSITION SWITCH ROUGH-IN AND ELECTRIC PASS THRU ROUGH-IN.
 5. IF PATH TO DOOR ACCESS CONTROL PANEL IS THRU EXPOSED AREA, ALL CONDUITS MAY BE JOINED TOGETHER AT A DEEP 4"x4" JUNCTION BOX AND ROUTED TO THE CONTROL PANEL AS A SINGLE 3/4" CONDUIT.
 6. DOOR HARDWARE SCHEDULE DETERMINES ACTUAL ROUGH-IN REQUIREMENTS.

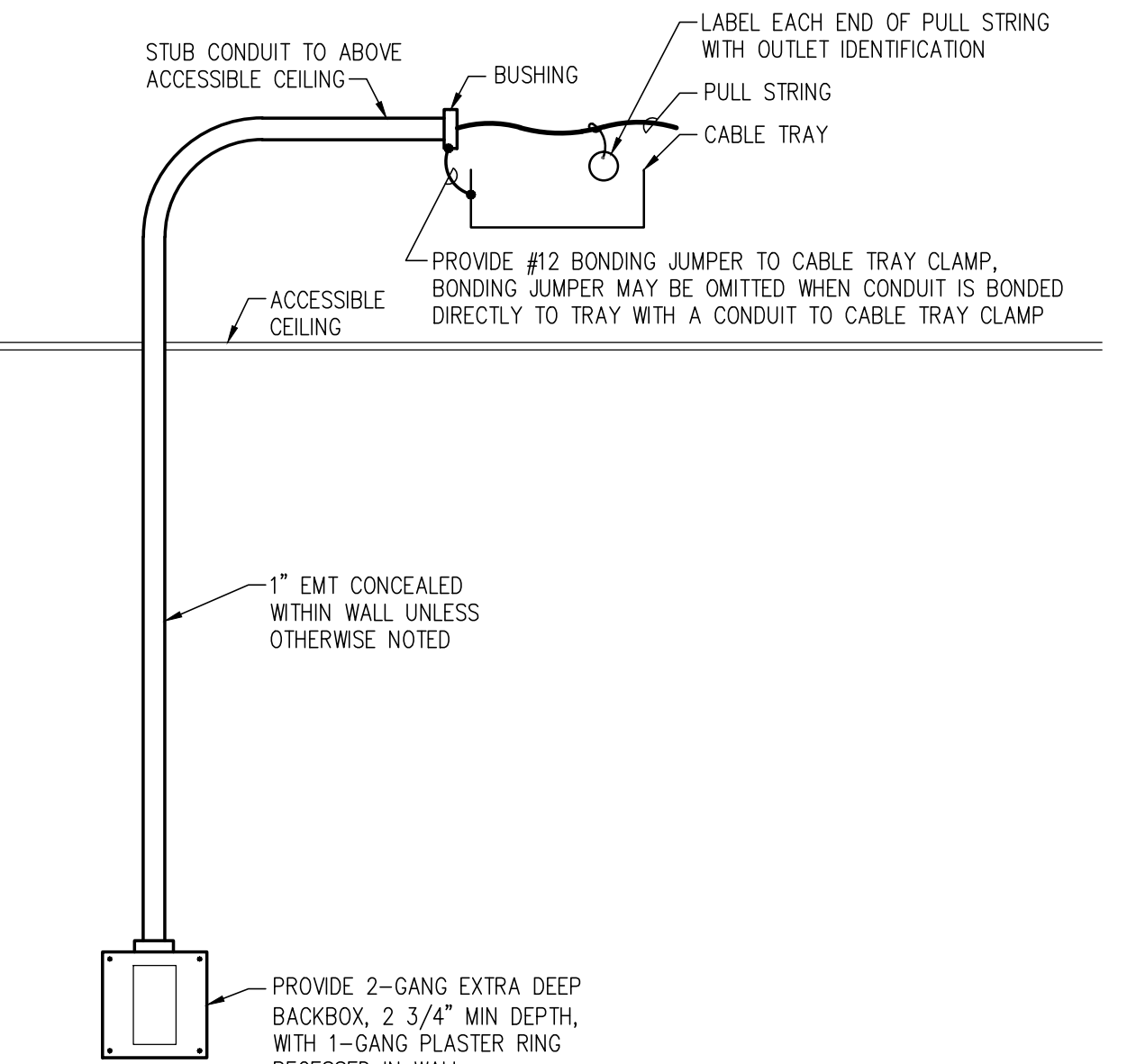
CARD ACCESS ROUGH-IN DETAIL
 NO SCALE



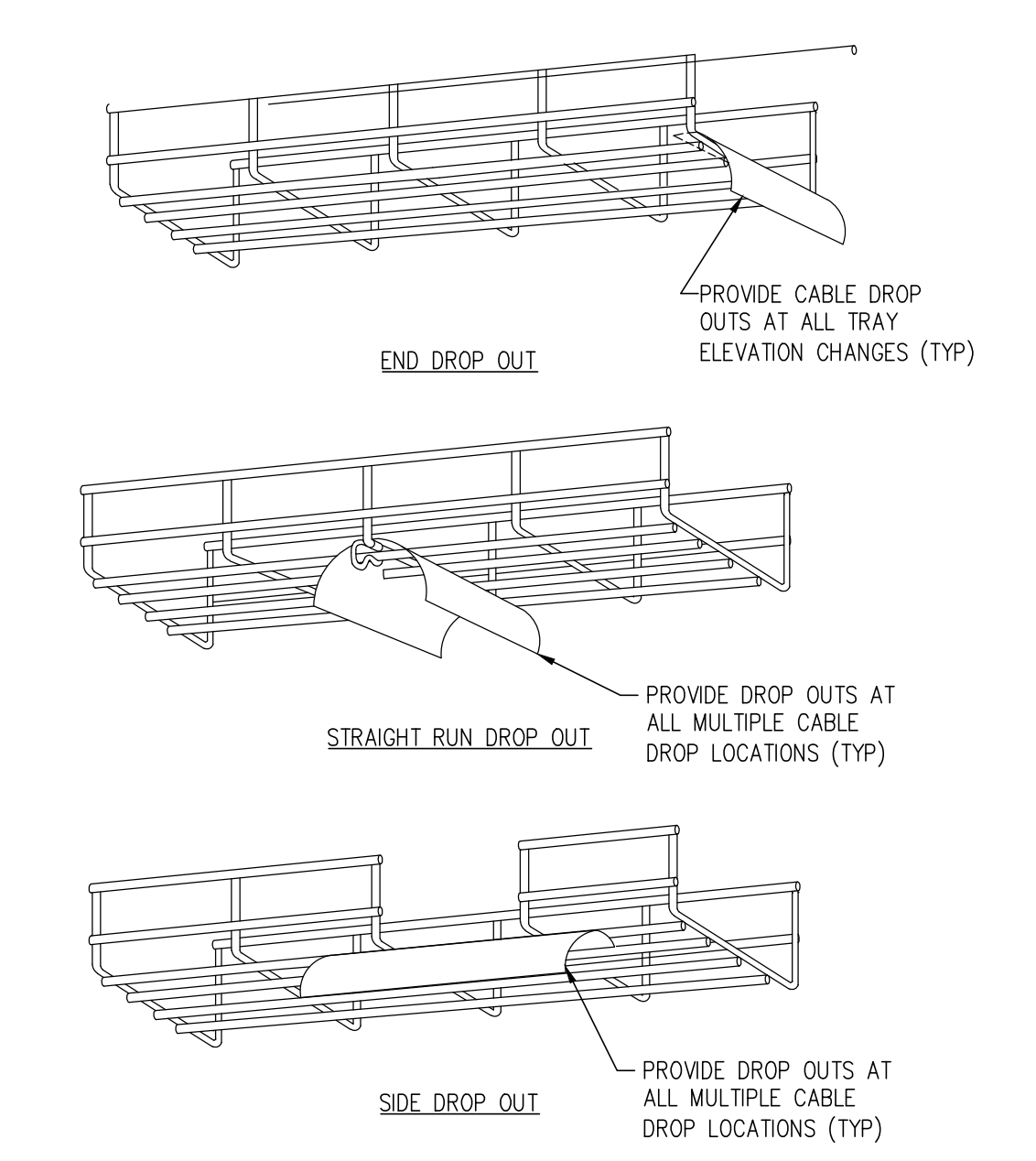
WALL MOUNT DOME
 SCALE: NO SCALE
 NOTES:
 1. UNLESS OTHERWISE NOTED LOCATE ROUGH-IN BOX APPROXIMATELY 12" AFF.



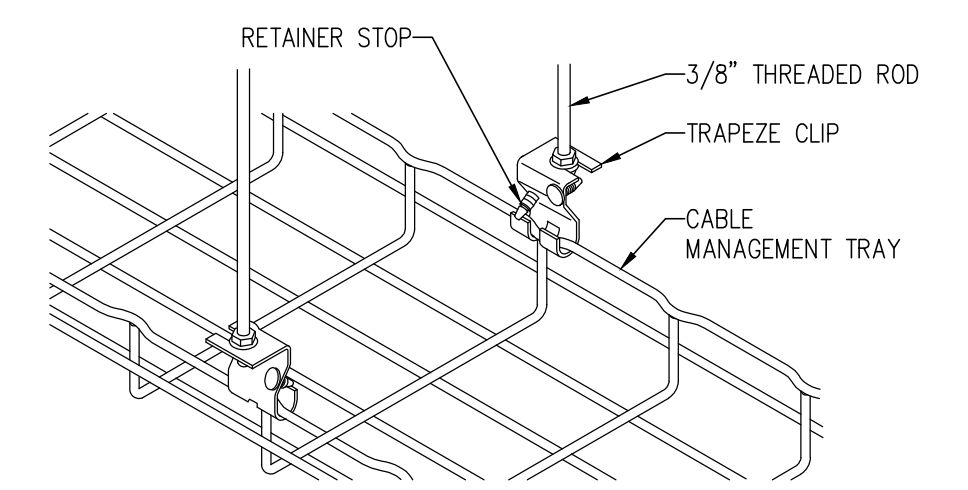
HARD CEILING MOUNT DOME
 SCALE: NO SCALE



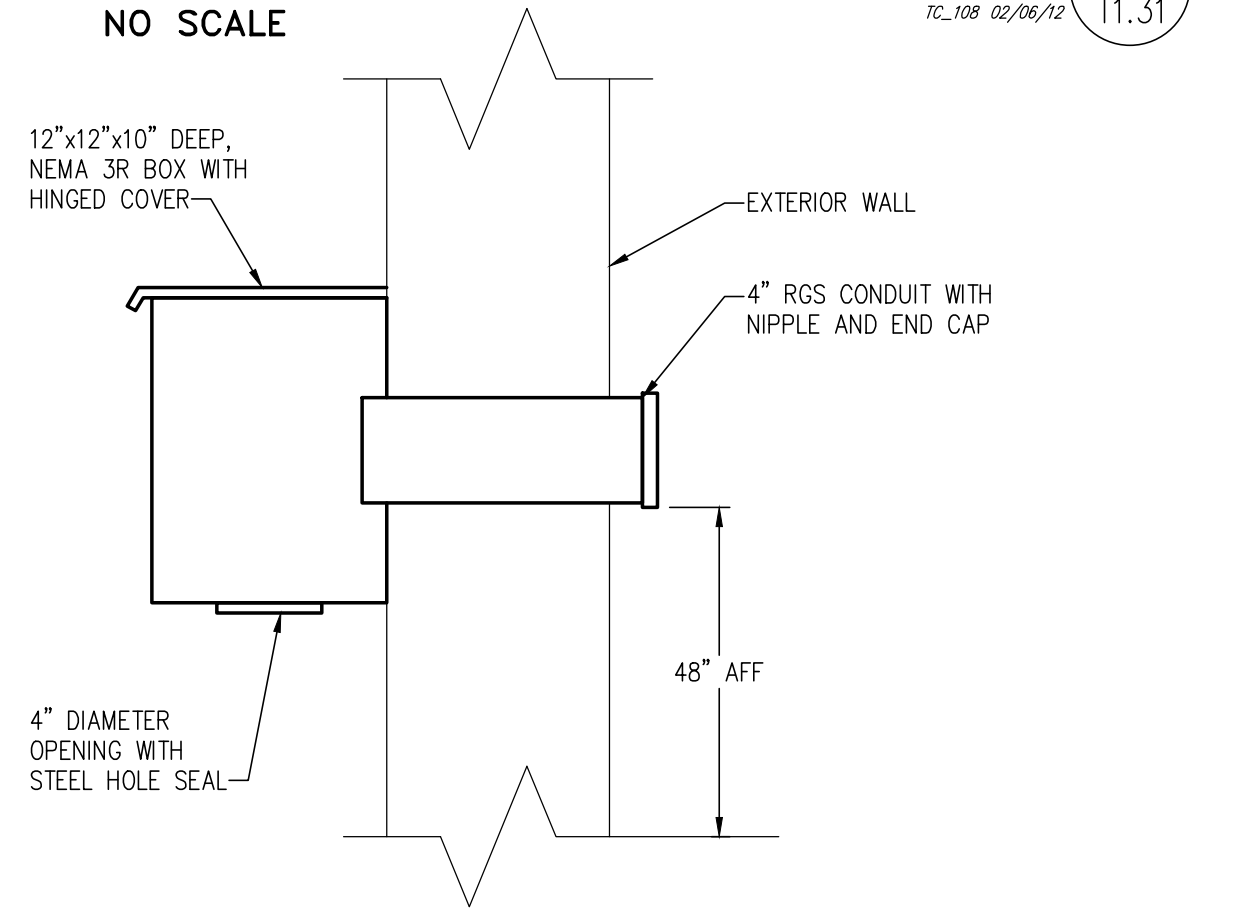
COMMUNICATION ROUGH-IN CONCEALED RACEWAY DETAIL
 NO SCALE



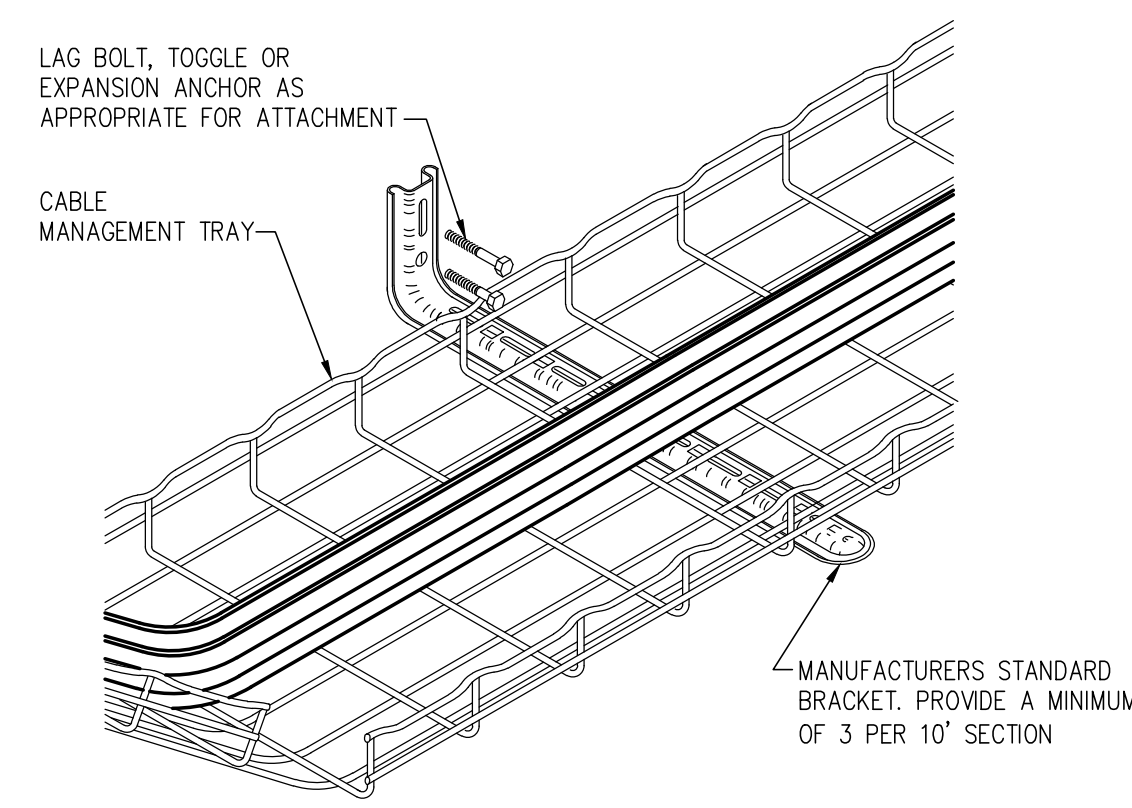
CABLE MANAGEMENT TRAY CABLE DROPOUT DETAIL
 NO SCALE



CABLE MANAGEMENT TRAY TRAPEZE HUNG
 NO SCALE



BROADCAST CABLE EXTERIOR BUILDING PENETRATION
 NO SCALE



CABLE MANAGEMENT TRAY WALL MOUNT
 NO SCALE

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KEY PLAN

A 13/27/14 ADDENDUM 1
 REVISION DATE DESCRIPTION

ISSUED: 3/7/2014
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RDG Planning & Design
 UNL SOCCER & TENNIS COMPLEX
 UNL PFC #09991911

TELECOM DETAILS

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