Date: January 14, 2020

ADDENDUM NO. 4
To Project Bidding Documents for:

RFQ CCC-056

A#03-119686
New Student Services Building
Compton Community College District

tBP Project. No. 20987.00

tBP/ARCHITECTURE
4611 Teller Avenue
Newport Beach, CA 92660
(949) 673-0300

TO: PROSPECTIVE BIDDERS

This Addendum forms a part of the Contract Documents and modifies the original approved Bidding Drawings. Acknowledge receipt of this Addendum in space provided on the Bid Form. Failure to acknowledge may subject Bidder to disqualification.

CHANGES TO THE SPECIFICATIONS:

1. Spec 000110 - TABLE OF CONTENTS - Remove this section in its entirety and replace by the new section 000110 included in this addendum.

2. Spec 080671 – DOOR HARDWARE SCHEDULE – Revise hardware set door references as follows:

    a. Set 1.0:
        - Add door 266A.
    b. Set 2.0:
        - Delete door 012.
        - Add doors 008, 010, 011, 013.
    c. Set 4.0:
        - Delete door 014.
        - Add door 012.
    d. Set 5.0:
        - Delete doors 250A & 250B.
        - Add door 180C.
    e. Set 7.0:
        - Delete door 168.
        - Add doors 266D & 266E.
    f. Set 9.0:
        - Delete doors 114, 140, 163, 180 & 220.
        - Add doors 100, 140A, 140B, 170, 180A, 220A & 279.
    g. Set 11.0:
        - Delete door 204.
        - Add door 204B.

h. Set 13.0:
   - Delete door 281.
   - Add doors 141B & 281B.

i. Set 14.0:
   - Delete doors 141, 282 & 287A.
   - Add doors 220B, 265, 266B, 266C, 272, 273, 274, 282A & 282B.

3. Spec 105129 – PHENOLIC LOCKERS – Added new section 105129 included in this addendum.

4. Spec 261105 – PAD MOUNT TRANSFORMERS – Added new section 261105 included in this addendum.

5. Spec 273000 – AREA OF REFUGE 2-WAY COMMUNICATION - Added new section 273000 included in this addendum.

6. Spec 283100 – INTRUSION DETECTION – Added new section 283100 included in this addendum.

CHANGES TO DRAWINGS

This addendum revisions includes revised full-size sheets unless noted otherwise below.

1. Revised SHEET AS-2 PARTIAL SITE PLAN - DEMOLITION

   a. Revised keynotes No. 1.
   b. Added keynotes No's 2 & 3.

2. Revised SHEET A1-1 1ST FLOOR PLAN

   a. Added Asterisk next to interior windows 101 in rooms 150 and 151.
   b. Added Asterisk next to door 150 in room 150.

3. Revised SHEET A1-2 2ND FLOOR PLAN

   a. Added Asterisk next to door 266A in room 266.

4. Revised SHEET A3-1 ROOF PLAN

   a. Added roof tie downs at 3 locations on roof.

5. Revised SHEET A7-1 ENLARGED TOILET RM. PLANS & ELEVAS. – 1ST FLR.

   a. Added niche details for Toilet Tissue Dispenser and Paper towel dispenser to clarify condition.

6. Revised SHEET A7-2 ENLARGED TOILET RM. PLANS & ELEVAS. – 2nd FLR.

   a. Added niche details for Toilet Tissue Dispenser and Paper towel dispenser to clarify condition.

7. Revised SHEET A9-1 INTERIOR ELEVATIONS

    a. Added Asterisk adjacent to window reference for window ALI/101 on Interior Elevation 100-3.
    b. Added Asterisk adjacent to door reference for doors 150 and 166 on Interior elevation 100-3.
    c. Modified door 100 on elevation 100-1 to correspond to the door schedule.

8. Revised SHEET A9-2 INTERIOR ELEVATIONS

    a. Added window/door types to elevations.

9. Revised SHEET A9-3 INTERIOR ELEVATIONS

    a. Added Asterisk adjacent to window reference for windows ALI/101 on Interior Elevation 151-1 and 150-1.
    b. Added Asterisk adjacent to door reference for doors 150 on Interior Elevation 150-1.

10. Revised SHEET A9-4 INTERIOR ELEVATIONS

    a. Added window/door types to elevations.

11. Revised SHEET A9-5 INTERIOR ELEVATIONS

    a. Added Asterisk adjacent to door reference for door 166A on Interior Elevation 266-1.

12. Revised SHEET 3.01 EXTERIOR WALL DETAILS

    a. Added detail 7.

13. Revised SHEET 4.02 METAL STUD PARTITION FIRESTOP DETAILS

    a. Added detail 14.

14. Revised SHEET 8.01 DOOR SCHEDULE

    a. Revised Door type B.
    b. Added note 14 to Notes.
    c. Clarified door type on door 150.

15. Revised SHEET 8.51 WINDOW SCHEDULE - INTERIOR

    a. Added Asterisk and note next to window type 101.
    b. Added note 3 in ALI/101 notes.

16. Revised SHEET S0-1.8 TYPICAL DETAILS

a. Detail 9: Added 9ft. max. angle length.

17. Revised SHEET S-2.1 MAT FOUNDATION PLAN

    a. Reference added on sheet S-2.1A and S-2.1B for additional reinforcement.
    b. Added reference to soils report for fill compaction requirements.

18. Revised SHEET S-2.2 GROUND FLOOR SLAB PLAN

    a. Added reference to soils report for fill compaction requirements.

19. Revised SHEET S-3.1 SECOND FLOOR FRAMING PLAN

    a. Showing W12x at end of bridge at seismic gap.
    b. Framed out opening for shaft near waiting room 230A.
    c. Added sheet note 14 to clarify bracing at SLRS.

20. Revised SHEET S-3.2 ROOF FRAMING PLAN

    a. Updated select framing members
    b. Updated HSS trellis support beam
    c. Updated roof screen support location to match architectural drawings and updated/moved associated framing.
    d. Added sheet note 15 to clarify angle bracing at SLRS.

21. Revised SHEET S4-0.1 FOUNDATION DETAILS

    a. Detail 7 and 8: Revised 3” clear dimension to point to nut

22. Revised SHEET E0-2 SINGLE LINE DIAGRAMS

    a. Revise UPS and connection requirements.
    b. Add/change Plan Notes.
    c. Revise emergency lighting inverter size.

23. Revised SHEET E0-6 EQUIPMENT ANCHORAGE SCHEDULE

    a. Revise detail 1, “Pad-Mount Transformer Anchorage Detail.

24. Revised SHEET E0-7 LIGHTING FIXTURE SCHEDULE AND DETAILS

    a. Revise Detail B title.
    b. Revise relay schedule for MLCP.H

25. Revised SHEET E1-1 1ST FLOOR LIGHTING PLAN

    a. Revise Elevator Machine Room 111 lighting circuit.

26. Revised SHEET E2-1 1ST FLOOR POWER PLAN

    a. Revise Power Plan per revised Drawing.

27. Revised SHEET E2-2 2ND FLOOR POWER PLAN

    a. Revise Power Plan per revised Drawing.

28. Revised SHEET EF-1 FIRE ALARM SCHEDULE NOTES AND DETAILS

    a. Revised fire alarm sequence of operations.

29. Revised SHEET EF-3 FIRE ALARM RISER DIAGRAM

    a. Revised fire alarm riser diagram.

30. Revised SHEET EF-4 ENLARGED SITE FIRE ALARM PLAN

    a. Revised annunciator location to match Fire Alarm Plan.

31. Revised SHEET EF-5 1ST FLOOR FIRE ALARM PLAN

    a. Revised drawing to indicate fire damper alarm relays and elevator curtain.

32. Revised SHEET EF-6 2ND FLOOR FIRE ALARM PLAN

    a. Revised drawing to indicate fire damper alarm relays and elevator curtain.

33. Revised SHEET ET-1 TELECOM SYMBOL LIST NOTES AND DETAILS

    a. Revised symbol list.

34. Revised SHEET ET-2 ENLARGED TELECOM ROOMS

    a. Add rack elevations.

35. Revised SHEET ET-3 TELECOM SYSTEM RISER DIAGRAMS

    a. Revised Telecom Conduit Riser Diagram “D”.

36. Revised SHEET ET-5 1ST FLOOR TELECOM PLAN

    a. Revised Telecommunications Plan**.**
    b. Add Plan Notes.

37. Revised SHEET ET-6 2ND FLOOR TELECOM PLAN

    a. Revise Telecommunications Plan
    b. Add Plan Notes.

38. Revised SHEET ET-8 AV WIRING DIAGRAMS

    a. Revise AV Wiring diagrams to include conduit requirements
    b. Add AV Performance Notes.

39. Revised SHEET ET-9 AV WIRING DIAGRAMS

a. Revise AV wiring diagrams to include conduit requirements
b. Add AV Performance Notes.

---End of Memorandum---

ATTACHMENTS

1. **Full Size Documents 30" x 42" Drawings: (Total 39)**

ARCHITECTURAL

AS-2	PARTIAL SITE PLAN - DEMOLITION
A1-1	1ST FLOOR PLAN
A1-2	2ND FLOOR PLAN
A3-1	ROOF PLAN
A7-1	ENLARGED TOILET RM PLANS & ELEV'S – 1ST FLR.
A7-2	ENLARGED TOILET RM PLANS & ELEV'S – 2ND FLR.
A9-1	INTERIOR ELEVATION
A9-2	INTERIOR ELEVATION
A9-3	INTERIOR ELEVATION
A9-4	INTERIOR ELEVATION
A9-5	INTERIOR ELEVATION
3.01	EXTERIOR WALL DETAILS
4.02	METAL STUD PARTITON FIRESTOP DETAILS
8.01	DOOR SCHEDULE
8.51	WINDOW SCHEDULE - INTERIOR

STRUCTURAL

S0-1.8	TYPICAL DETAILS
S-2.1	MAT FOUNDATION PLAN
S-2.2	GROUND FLOOR SLAB PLAN
S-3.1	SECOND FLOOR FRAMING PLAN
S-3.2	ROOF FRAMING PLAN
S4-0.1	FOUNDATION DETAILS

ELECTRICAL

E0-2	SINGLE LINE DIAGRAMS
E0-6	EQUIPMENT ANCHORAGE SCHEDULE
E0-7	LIGHTING FIXTURE SCHEDULE AND DETAILS
E1-1	1ST FLOOR LIGHTING PLAN
E2-1	1ST FLOOR POWER PLAN
E2-2	2ND FLOOR POWER PLAN
EF-1	FIRE ALARM SCHEDULE, NOTES AND DETAILS
EF-3	FIRE ALARM RISER DIAGRAM
EF-4	ENLARGED SITE FIRE ALARM PLAN
EF-5	1ST FLOOR FIRE ALARM PLAN

EF-6 2ND FLOOR FIRE ALARM PLAN
ET-1 TELECOM SYMBOL LIST NOTES AND DETAILS
ET-2 ENLARGED TELECTOM ROOMS
ET-3 TELECOM SYSTEM RISER DIAGRAMS
ET-5 1ST FLOOR TELECOM PLAN
ET-6 2ND FLOOR TELECOM PLAN
ET-8 AV WIRING DIAGRAMS
ET-9 AV WIRING DIAGRAMS

2. Specifications

000110 TABLE OF CONTENTS-
105129 LOCKERS
261105 PAD MOUNT TRANSFORMER
273000 AREA OF REFUGE 2-WAY COMMUNICATION
283100 INTRUSION DETECTION

3. SPREAD SHEET WITH QUESTIONS AND ANSWERS

RFC questions and answers spreadsheet (8 pages)

4. FOR REFERENCE ONLY DRAWINGS

- Library Structural drawings provided in response to RFC #45 (Sheets S1-S10)
- Highlighted drawing sheets A4.1 & A4.2 indicating where window system testing is required in response to RFC #22

Hung Cheng

tBP/Architecture

SECTION 00 01 10
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PROCUREMENT AND CONTRACTING REQUIREMENTS

DIVISION 00 -- PROCUREMENT AND CONTRACTING REQUIREMENTS

00 01 01 - Project Title Page

00 01 07 - Seals Page

00 01 10 - Table of Contents **Addendum 4**

00 31 00 - Available Project Information

The following Division 00 - Procurement and Contracting Requirements documents and Division 01 - General Requirements sections are provided by the Compton Community College District and are under separate cover. These are not produced by the Architect.

00 11 13 - Notice Calling for Bids

00 21 13 - Instructions for Bidders

00 41 00 - Bid Proposal

00 43 24 - Pre-Bid Request for information

00 43 36 - Subcontractors List

00 45 10 - Verification of Contractor & Subcontractor DIR Registration

00 45 13 - Statement of Qualifications

00 45 19 - Non-Collusion Affidavit

00 45 26 - Certificate of Workers Compensation Insurance

00 45 27 - Drug-Free Workplace Certification

00 52 00 - Agreement

00 61 00 - Bid Bond

00 61 13 - Performance Bond

00 61 14 - Labor and Material Payment Bond

00 62 90 - Verification of Certified Payroll Records Submittal to Labor Commissioner

00 65 36 - Guarantee

00 72 00 - General Conditions

00 73 00 - Special Conditions

SPECIFICATIONS

DIVISION 01 -- GENERAL REQUIREMENTS

01 21 00 - Allowances

01 23 00 - Alternates

01 25 00 - Contract Modification Procedures
01 29 00 - Payment Procedures
01 30 40 - Post Bid Interview
01 30 50 - Construction Procedures Manual
01 31 00 - Project Coordination
01 32 00 - Acceleration of Work
01 33 00 - Submittal Procedures
01 35 10 - Alteration Project Procedures
01 42 00 - References
01 43 80 - Work Plan and Milestone Schedule
01 45 00 - Quality Control
01 50 00 - Temporary Facilities and Controls
01 62 00 - Product Options
01 63 00 - Product Substitution Procedures
01 70 00 - Cleaning
01 72 20 - Field Engineering
01 73 20 - Cutting and Patching
01 74 00 - Warranties and Guarantees
01 77 00 - Closeout Procedures
01 78 20 - Project Record Documents
01 78 50 - Operating and Maintenance Data
01 81 00 - Commissioning

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For Pavements and Site Improvements, see Division 32
For Site Utilities, see Division 33
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02 41 19 - Selective Demolition

DIVISION 03 -- CONCRETE

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03 20 00 - Concrete Reinforcing
03 30 00 - Cast-in-Place Concrete
03 35 11 - Concrete Floor Finishes

DIVISION 04 -- MASONRY

04 05 11 - Mortar and Masonry Grout
04 20 00 - Unit Masonry

04 22 00 - Concrete Masonry Units

DIVISION 05 -- METALS

05 05 19 - Post-Installed Concrete Anchors

05 12 00 - Structural Steel Framing

05 12 13 - Architecturally-Exposed Structural Steel Framing

05 31 00 - Steel Decking

05 40 00 - Cold-Formed Metal Framing

05 50 00 - Metal Fabrications

05 51 00 - Metal Stairs

05 52 13 - Pipe and Tube Railings

05 70 00 - Decorative Metal

DIVISION 06 -- WOOD, PLASTICS, AND COMPOSITES

06 10 00 - Rough Carpentry

06 20 00 - Finish Carpentry

06 41 00 - Architectural Wood Casework

06 64 60 - Translucent Resin Panel System

06 83 16 - Fiberglass Reinforced Paneling

DIVISION 07 -- THERMAL AND MOISTURE PROTECTION

07 05 53 - Fire and Smoke Assembly Identification

07 21 00 - Thermal Insulation

07 25 00 - Weather Barriers

07 26 16 - Under-Slab Vapor Retarder

07 42 13 - Metal Wall Panels

07 42 13.23 - Metal Composite Material Wall Panels

07 54 00 - Thermoplastic Membrane Roofing Addendum 1

07 62 00 - Sheet Metal Flashing and Trim

07 62 70 - Exterior Penetration Flashing Panels

07 72 00 - Roof Accessories

07 84 00 - Firestopping

07 92 00 - Joint Sealants

DIVISION 08 -- OPENINGS

08 06 71 - Door Hardware Schedule

08 11 13 - Hollow Metal Doors and Frames

08 14 16 - Flush Wood Doors

08 31 00 - Access Doors and Panels

08 33 26_13 - Folding Security Grilles (New Section) Addendum 1
08 42 29 - Automatic Entrances
08 43 13 - Aluminum-Framed Storefronts
08 44 13 - Glazed Aluminum Curtain Walls
08 62 23 - Tubular Skylights
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08 87 33 - Architectural Decorative Window Films
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09 21 16 - Gypsum Board Assemblies
09 22 36.23 - Metal Lath
09 24 00 - Cement Plastering
09 30 00 - Tiling
09 51 00 - Suspended Acoustical Ceilings
09 65 00 - Resilient Flooring
09 68 13 - Tile Carpeting
09 84 30 - Sound-Absorbing Wall and Ceiling Units
09 91 13 - Exterior Painting
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09 94 50 - Architectural Decorative Films
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10 14 53 - Traffic and Parking Signage
10 21 13.17 - Phenolic Toilet Compartments
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10 28 00 - Toilet Accessories
10 51 29 - Phenolic Lockers (New Section) Addendum 4
10 44 00 - Fire Protection Specialties
10 71 13.43 - Fixed Sun Screens

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21 00 50 - Common Work Results for Fire Suppression Systems

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21 05 18 - Escutcheons for Fire-Suppression Piping

21 05 23 - General-Duty Valves for Water-Based Fire Suppression Piping

21 05 48 - Vibration and Seismic Controls for Fire-Suppression Piping and Equipment

21 05 53 - Identification for Fire-Suppression Piping and Equipment

21 12 00 - Fire-Suppression Standpipes

21 13 13 - Wet-Pipe Sprinkler Systems

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22 05 16 - Expansion Fittings and Loops for Plumbing Piping

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22 05 18 - Escutcheons for Plumbing Piping

22 05 19 - Meters and Gages for Plumbing Piping

22 05 23 - General-Duty Valves for Plumbing Piping

22 05 29 - Hangers and Supports for Plumbing Piping and Equipment

22 05 48 - Vibration and Seismic Controls for Plumbing Piping and Equipment

22 05 53 - Identification for Plumbing Piping and Equipment

22 07 19 - Plumbing Piping Insulation

22 11 16 - Domestic Water Piping

22 11 19 - Domestic Water Piping Specialties

22 11 23 - Domestic Water Pumps

22 13 16 - Sanitary Waste and Vent Piping

22 13 19 - Sanitary Waste Piping Specialties

22 13 19.13 - Sanitary Drains

22 14 13 - Facility Storm Drainage Piping

22 14 23 - Storm Drainage Piping Specialties
22 34 00 - Fuel-Fired, Domestic-Water Heaters
22 42 13.13 - Commercial Water Closets
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22 42 16.16 - Commercial Sinks
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DIVISION 23 -- HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

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23 05 13 - Common Motor Requirements for HVAC Equipment
23 05 16 - Expansion Fittings and Loops for HVAC Piping
23 05 17 - Sleeves and Sleeve Seals for HVAC Piping
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23 05 53 - Identification for HVAC Piping and Equipment
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23 07 13 - Duct Insulation
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23 07 19 - HVAC Piping Insulation
23 09 23 - Direct-Digital Control System for HVAC Addendum 1
23 11 23 - Facility Natural-Gas Piping
23 21 13 - Hydronic Piping Addendum 1
23 21 13.13 - Underground Hydronic Piping
23 21 16 - Hydronic Piping Specialties Addendum 1
23 21 23 - Hydronic Pumps
23 23 00 - Refrigerant Piping
23 29 23 - Variable-Frequency Motor Controllers
23 31 13 - Metal Ducts
23 33 00 - Air Duct Accessories
23 33 46 - Flexible Ducts
23 34 23 - HVAC Power Ventilators
23 36 00 - Air Terminal Units
23 37 13 - Diffusers, Registers, and Grilles

23 41 00 - Particulate Air Filtration
23 51 23 - Gas Vents
23 52 16 - Fire-Tube Condensing Boilers
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26 05 00 - Common Work Results for Electrical
26 05 01 - Basic Electrical Materials and Methods
26 05 05 - Electrical Demolition
26 05 30 - Conduit and Wire
26 05 43 - Underground Ducts and Raceways for Electrical Systems
26 05 48 - Sound Control
26 09 10 - Supplemental Metering and Sub-Metering
26 09 43 - Lighting Control Systems
26 10 05 - Power Distribution (Over 600 volts)
26 11 05 - Pad Mount Transformer **Addendum 4**
26 24 13 - Switchboards
26 24 16 - Branch Circuit Panelboards and Terminal Cabinets
26 24 19 - Motor Control Equipment
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27 08 00 - Commissioning of Communications Systems
27 11 00 - Communications Equipment Rooms
27 20 00 - Electronic Network Systems Infrastructure
27 30 00 - Area of Refuge Two-Way Communication System **Addendum 4**
27 41 16 - Audio-Video Systems and Equipment
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DIVISION 28 -- ELECTRONIC SAFETY AND SECURITY

28 10 00 - Access Control
28 31 00 - Intrusion Detection System **Addendum 4**
28 46 20 - Fire Alarm

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31 10 00 - Site Clearing

31 20 00 - Earthwork

31 31 32 - Import Materials Testing

31 71 23 - Field Engineering

31 74 16 - Storm Water Pollution Prevention

DIVISION 32 -- EXTERIOR IMPROVEMENTS

32 01 90 - Tree and Shrub Preservation

32 01 91 - Operation and Maintenance of Planting

32 12 16 - Asphalt Paving

32 12 36 - Seal Coat

32 13 13 - Cement Concrete Paving

32 13 16 - Decorative Concrete Paving

32 15 31 - Decomposed Granite

32 17 13 - Pavement Markings

32 32 13 - Cast-in-Place Concrete Retaining Walls

32 84 00 - Planting Irrigation

32 90 00 - Landscape Planting

DIVISION 33 -- UTILITIES

33 10 00 - Site Water Utilities

33 30 00 - Sanitary Utilities

33 40 00 - Storm Drainage Utilities

END OF SECTION

SECTION 10 51 29
PHENOLIC LOCKERS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Phenolic lockers.

1.02 RELATED REQUIREMENTS

A. Section 03 30 00 - Cast-in-Place Concrete: Concrete base construction.

B. Section 09 21 16 - Gypsum Board Assemblies:

1. Backing requirements.

1.03 REFERENCE STANDARDS

A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.

B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2016.

C. CBC Chapter 11B

1.04 SUBMITTALS

A. See Section 01 33 00 - Submittal Procedures, for submittal procedures.

B. Product Data: Manufacturer's published data on locker construction, sizes and accessories.

1. Technical data for materials, fabrication, finishing, fasteners, hardware and installation details.

C. Shop Drawings: Indicate locker plan layout, numbering plan and combination lock code.

1. Submit with reference to Architect's detail numbers.

2. Indicate lockers in detail, method of installation, fillers, trim, base and accessories, with actual dimensions of lockers for proper layout.

3. Coordinate with available space to install lockers, as per field measurements.

D. Full Size Sample: One full-size locker of each construction specified for evaluation of construction.

E. Samples: Submit two samples 3 by 6 inches in size, of each color scheduled.

F. Manufacturer's Installation Instructions: Indicate component installation assembly.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Protect locker finish and adjacent surfaces from damage.

1.06 WARRANTY

A. Warrantee all lockers and associated materials for:

1. Minimum Ten (10) years against delamination, breakage, or corrosion.

B. Include and cover all defects in materials and workmanship, excluding the finish and vandalism.

C. Replace all defective parts at no cost to District.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Provide lockers meeting the requirements for the physically disabled of the California Code of Regulations (CCR), Title 24, Part 2, and ADA Standards, as amended. CBC 11B-225.2.1 and 11B-811.

1. Provide latch and locking hardware that does not require twisting, pinching, or grasping to operate. CBC 11B-309.4.
2. Provide shelf and pole at 48 inches maximum AFF and lower shelf at 15 inches minimum AFF. CBC 11B-308 and 11B-811.3
3. Where lockers are provided, at least 5%, but no fewer than one of each type shal comply with CBC 11B-811.

2.02 MANUFACTURERS

A. Phenolic Lockers:

1. Alan Lewis Inc.; Titan Solid Phenolic Composite Lockers; www.alanlewisinc.net.
   a. Local Contact: Patrick Comerford 805.402.2167, patrick@sos.to, www.SOS.to.
2. ASI Storage Solutions; Traditional Plus Phenolic Lockers: asistorage.com
3. Columbia Lockers, a division of PSiSC; Phenolic Lockers: www.psisc.com/#sle.
4. Hollman; P6000; www.hollman.com, or approved equal.
5. List Industries, Inc: www.listindustries.com/#sle.
6. Substitutions: See Section 01 63 00 - Product Substitution Procedures.

2.03 LOCKER APPLICATIONS

A. Wardrobe Lockers: Phenolic lockers, wall mounted with matching closed base.

1. Accessibility: Comply with CBC Chapter 11B, ICC A117.1, and ADA Standards.
2. Width: 12 inches.
3. Depth: 18 inches.
4. Height: 72 inches.
5. Locker Configuration: Four tier.
6. Fittings: Size and configuration as indicated on drawings.
7. Ventilation: By open space between the back of the door and locker body.
8. Locking: Built-in combination locks.
   a. Basis of Design: Keyless 1 locks as manufactured by Keyless, www.keyless.co; or approved equal.
   b. ADA-Compliant Lockers: Provide 5% with ADA Standards and CBC 11B compliant locks..

9. Provide sloped top.

2.04 PHENOLIC LOCKERS

A. Lockers: Factory assembled, made of phenolic core panels with mortise and tenon joints and stainless steel mechanical joint fasteners; fully finished inside and out; each locker capable of standing alone.

1. Doors: Full overlay, covering full width and height of locker body; radiused corners and polished edges.
2. Panel Core Exposed at Edges: Machine polished, without chips or tool marks; square edge unless otherwise indicated.
3. Where locker ends or sides are exposed, finish the same as fronts or provide extra panels to match fronts.
4. Provide filler strips where indicated, securely attached to lockers.
5. Color: As selected by Architect from the manufacturer's full line
6. Fasteners for Accessories and Locking Mechanisms: Tamperproof type.

B. Component Thicknesses:

1. Doors: 1/2 inch minimum thickness.
2. Locker Body: One of the following combinations:
   a. Tops, bottoms, and shelves 1/2 inch; sides 3/8 inch; backs 1/4 inch; minimum.
3. End Panels and Filler Panels: 1/2 inch minimum thickness.
4. Sloped Tops: 1/2 inch minimum thickness.
5. Toe Kick Plates: 1/2 inch minimum thickness.

C. Phenolic Core Panels: Nonporous phenolic resin and paper core formed under high pressure, with natural colored finished edges, integral melamine surface, matte finish, and uniform surface appearance; glued laminated panels not acceptable.

1. Surface Burning Characteristics: Flame spread index of 75 or less, and smoke developed index of 450 or less; when tested in accordance with ASTM E84.

D. Hinges: Stainless steel, satin finish; minimum of 180 degree opening; either exposed barrel 5-knuckle hinge attached to back of door and inside of body with tamperproof screws, or concealed cabinetwork style hinge attached with tamperproof screws.

E. Number Plates: Manufacturer's standard, minimum 4-digit, permanently attached with adhesive; may be field installed.

1. Fonts to be a minimum 5/8 inch high up to four alphanumeric characters.

F. Locks: Locker manufacturer's standard type indicated above.

G. Lock Strike: Stainless steel, or black high impact ABS plastic strike plate attached to locker body with throughbolts.

H. Built-In Lock Boxes: Same material as locker, manufacturer's standard size, with padlock hasps, for padlocks provided by Owner.

I. Base:

1. Locker Legs: Manufacturer's standard adjustable support and leveling leg, minimum 1 inch adjustment; with hardware for attaching toe kick plates.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that prepared bases are in correct position and configuration.

B. Verify bases and embedded anchors are properly sized.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install lockers plumb and square.

C. Secure lockers with anchor devices to suit substrate materials. Minimum Pullout Force: 100 pounds.

D. Bolt adjoining locker units together to provide rigid installation.

E. Install end panels, filler panels, sloped tops, and miscellaneous panels.

F. Install accessories.

G. Replace components that do not operate smoothly.

3.03 CLEANING

A. Clean locker interiors and exterior surfaces.

END OF SECTION

SECTION 26 11 05
PAD MOUNT TRANSFORMER

PART 1 - GENERAL

1.01 SCOPE

A. Work Included: All labor, materials, appliances, tools, equipment necessary for and incidental to performing all operations in connection with furnishing, delivery and installation of the work of this Section, complete, as shown on the Drawings and/or specified herein. Work includes, but is not necessarily limited to the following:

1. Examine all other Specification Sections and Drawings for related work required to be included as work under Division 26.
2. General Provisions and Requirements for electrical work.

1.02 SUBMITTALS (ADDITIONAL REQUIREMENTS)

A. Submit Product Data Sheets for all wire, transformers, device plates, switches, lamps, circuit breakers, relays, cooling equipment, timeswitches, disconnects, fuses and meters.

B. Provide Nameplate Engraving Schedule.

C. Submit Detailed Shop Drawings including Dimensioned Plans, Elevations, Details, Interface Details, Schematic Single Line, Point To Point Control Wiring Diagrams and descriptive literature for all component parts. Submit Scaled Plans and Elevation View Drawings.

D. Submit Full-Scale Time/Current Transparencies on log/log paper for all fuses, circuit breakers, ground fault system devices, and relays. Additionally, provide software to generate time/ current curves of each circuit protection device.

E. Short Circuit, Coordination and Arc-Flash

1. Perform and submit Engineered Settings for each equipment location, fuse and adjustable circuit breaker device, showing the correct time and current settings to provide the selective coordination within the limits of the specified equipment, per the latest applicable Standards of IEEE and ANSI. Provide electrical system short circuit fault analysis, both 3-phase line-to-line and 1-phase line-to-ground calculations as part of the Coordination Analysis recommendations. Provide Electric Arc-Flash calculations as part of the Coordination Analysis recommendations.
2. The information shall be submitted in both tabular form and on time current log-log graph paper, with an Engineering Narrative. Written narrative describing data, assumptions, analysis of results and prioritized recommendations, six copies.
3. The goal is to minimize an unexpected but necessary electrical system outage and personnel exposure to the smallest extent possible within the fault occurrence location, using the specified Contract Equipment. Shall comply with, but not limited to:
   a. IEEE-242, Recommended Practices for Protection and Coordination of Industrial and Commercial Distribution.
   b. IEEE-399, Recommended Practice for Industrial and Commercial Power System Analysis.
   c. IEEE-1584, Guide to Performing Arc-Flash Hazard Study.

d. CEC.

4. Electrical equipment including switchgear, switchboards, electric panels, unit sub-stations, motor control centers, combination motor starters, transformers, disconnects, etc., shall each be labeled by the Manufacturer with “Electric-Arc-Flash” warning signs. The signs shall explain a hazard to personnel may exist if the equipment is worked on while energized or operated by Personnel while energized. The sign shall instruct Personnel to wear the correct Protective Equipment/clothing (PPE) when working “Live”, or operating “Live” electrical equipment and circuits.

F. Submit Transformer Test Reports.

G. Factory Tests: Equipment tests - ANSI C37.20. Certified copies of Design Tests, Production Tests, and Conformance Tests of the switchgear shall be submitted and review the Project Site. In lieu of the above tests, a report of these tests previously performed on identical units of each rating will be acceptable.

1.03 APPLICABLE STANDARDS

A. The Equipment shall be designed, tested, and assembled in accordance with the latest applicable Standards of CEC, ANSI, IEEE, and NEMA and UL including not limited to the following latest revisions:

1. ANSI C57.12.01, C57.12.50, C57.12.51, C57.12.54, C57.12.56, C57.12.57, C57.12.58, C57.12.90, C57.12.91, C57.12.96 and ST1 NEMA ST20, NEMA TR1-27, and NEMA TRI, NFPA 70:

2. The entire transformer assembly shall be UL listed and labeled.

B. All Materials selected for the Manufacturer of the transformers shall be the best available for the purpose for which they are used, considering strength, ductility, durability and the best Engineering Practice.

C. Equipment, Components/Devices, Switchboards, Switchgear and Transformers shall be manufactured by: Eaton; or Square-D; or Siemens.

PART 2 - PRODUCTS

2.01 GENERAL

A. Integrated and Tested Assembly

1. The Pad Mount Transformer shall be self-contained factory assembled, tested and coordinated unit consisting of incoming line section(s), transformer section, and secondary outgoing section(s), totally metal enclosed, free-standing housings.

2. All sections shall be combined in close coupled steel structure having internal barriers segregating the incoming line, transformer and outgoing sections, into separate compartments.

3. Provisions for jacking, lifting, skidding, and rolling shall be made as an integral part of the equipment design for all sections.

4. Construction shall be left to right or right to left as indicated on the Drawings.

5. Individual sections structure and the entire Pad Mount Transformer assembly shall be fabricated to comply with seismic earthquake occurring at the install location, without loss of continuous operation during an earthquake. Provide testing and documentation.

B. Structure

1. The Pad Mount Transformer shall have structural anchor points permanently attached to the assembly, to provide for bolting the unit sections securely to the floor.
2. Interconnections between the transformers, primary and secondary equipment sections shall be provided by the factory.
3. The unit shall be front accessible for normal maintenance. Rear access of primary incoming cables and secondary outgoing cables shall be provided, top or bottom conduit entrance as indicated on Drawings.
4. Ventilating openings in the enclosure shall be located to insure proper cooling at installed equipment location shown on the Drawings. Provide expanded metal screens on vent openings. Construction shall prevent entry of rodents into the Pad Mount Transformer interior, including rodent screens on bottoms of all equipment sections.
5. External and internal surfaces shall be painted. Clean and prime coat all metal structural surfaces with hot phosphatized rust-inhibitor prime coat prior to application of high quality hard dried acrylic enamel finish. Standard Manufacturers color. All sections shall be the same color.
6. A prominent nameplate bearing equipment ratings, tap-changing information, Manufacturer identification, and reference serial numbers shall be mounted on the front of the unit.
7. Provide a continuous and permanent mimic-bus on the front of each equipment section to graphically show electrical power flow through the equipment.

C. Special Configurations

1. Special consideration shall be required for installation to fit into limited space to include but not limited to, cutouts or flanged throats to facilitate mating with other primary and secondary switchgear and equipment (and/or coordination to match existing use and other terminations).

D. Seismic Earthquake and Wind Loading Withstand, Testing and Certification (Additional Requirements)

1. The complete assembly; including attached circuit protection devices, transformer, switchboards/switchgear, housings/enclosures, accessories, supports/anchors etc., shall be designed, manufactured and tested for:
   a. Wind loading all outdoor equipment locations.
   b. Earthquake and CBC/IBC withstand all indoor and all outdoor equipment locations.
2. Shall withstand, survive and maintain continuous non-interrupted energized operation (running) during the seismic event occurrences. Continued normal energized operation after the wind event and seismic event occurrences have abated.
3. Shall include demonstrations of successful operation-and-run test after completion of seismic event shake-table simulation.

4. Provide three dimensional finite element analysis demonstrating anchorage and operational withstand of wind loading not less than as follows and as required by AHJ:
   a. 110MPH – West Coast States USA and Hawaii, per ASCE/SEI 7-10.
5. Acceptance Test Seismic Qualification of proposed Pad Mount Transformer shall employ triple axis shake-table simulation of the Required Response Spectrum (RRS) seismic event motion, certified and approved by the AHJ.
6. Seismic test shall be performed by a third party independent Test Laboratory. Wind Analysis and Seismic Testing and Reports shall be certified, signed and "Stamped" by PE Professional Engineer licensed and in good standing in the State, Civil Engineer or Structural Engineer.

2.02 WEATHERPROOF ENCLOSURES

A. Equipment indicated as Weather Proof (W.P.) or outdoors shall be NEMA 3R, non-walk-in, tamper resistant construction. Provide full height hinged doors with provisions for padlocking the doors in the closed position.

B. Provide a nominal 300 watt sealed, resistance type, anti-condensation heater in each equipment section. Heaters shall be controlled automatically by Thermostats and humidistats. A circuit breaker shall be provided to supply equipment buss secondary voltage to the heaters, all prewired by the Manufacturer.

C. Finish shall be electrostatically applied finish paint over iron oxide rust inhibitor primer. Finish color shall be Manufacturers standard color, olive green Munsel #7GY3.29/1.5. The bottom side and bottom 6 inches of the equipment shall be coated with 4 mil minimum thickness rust inhibitor undercoating over finish paint, on all interior surfaces. Finish withstand test without face corrosion or blistering:
   1. Salt spray withstand - 2000 hours ASTM B117.
   2. Humidity withstand - 750 hour ASTM D2247.

D. Exposed Hardware and Hinges shall be Stainless Steel type 302 or 304, tamper resistant.

2.03 BUSSING

A. Horizontal and Vertical Busses shall be full length. Busses shall have a minimum withstand rating equal to available fault current indicated on Drawings, plus a 25% additional capacity (safety margin). However, in no case shall the bus rating be less than 50,000-amp, RMS symmetrical, secondary side: 50,000-amp, RMS symmetrical primary side, at indicated operating voltages.

B. Provide interconnected full capacity secondary neutral bus in each section with the same ratings and construction as the phase busses.

C. Provide Interconnected Ground Bus in each Section.

D. Provide Space, all hardware and mounting attachments for future devices as indicated on the Drawings.

E. Main Horizontal Bussing shall be full capacity in all Equipment Sections.

F. Vertical Riser Buss may be tapered, to not less than one third the ampacity rating of the main horizontal buss; but in no case shall the vertical buss be of less capacity than the sum of the

frame size ampacities of overcurrent devices mounted in the respective sections including any indicated spares and spaces.

G. The Equipment Bussing shall be of sufficient cross-sectional area to meet UL Standard 891 on temperature rise. Bus shall be copper or extruded aluminum with silver-plated bus joints. The through buss shall have provisions for the addition of future equipment sections. The through bus supports, connections and joints shall be bolted with Grade 5 hex head bolts and Belleville washers to Minimize Maintenance Requirements.

H. Primary Bussing shall be fully insulated with a factory applied, extruded bus insulating material. All primary bussing shall be supported on porcelain insulators. Primary bussing BIL shall be 95kV for 15kV Class and 60kV for 5kV and 2.5kV class.

I. The Minimum Bussing Capacity shall be rated for unit full load capacity plus the additional capacity with fan cooling installed, but in no case less then indicated on the Drawings.

2.04 INCOMING LINE

A. The Incoming Line shall be provided with factory filled porcelain "slip-on" type cable terminations for the incoming feeder entering the section as indicated on the Drawings, provide support brackets on equipment frame for cable terminators. Provide 4-bolt spade lug connector, bolt to bus with grade 5 HEX head bolts and Belleville washers.

1.	BIL	110 kV
2.	Current Rating	same as feeder cable
3	1 minute dry AC test	50 kV
4.	6 hour dry, AC test	35 kV
5.	10 second wet, AC test	45 kV
6.	15 minute dry, DC test	75 kV

7. Compatible with cable diameter, quantity and type as shown on Drawings.

8. Provide cross support channels with porcelain cable cradles for incoming feeder conductors.

B. The Primary Disconnect Switch(es) shall be load interrupting with quick-make, quick-break stored energy manual operating mechanism. Switches shall be 3-pole, two position gang operated with a current rating of 600-amp continuous and full load break. Switches shall be designed to meet NEMA Standards for a Class-A device. Arc interruption shall take place in air, aided by de-ionizing arc chutes operating in conjunction with high speed moving arcing contacts.

C. A Door Mounted Viewing Window shall provide observation of switch contacts.

D. The Switch and all Components within the Primary Incoming Section shall have a minimum NEMA Basic Impulse Level (BIL) corresponding to the system voltage class of 60kV BIL (for 2.5kV Class and 5kV Class) 95kV - BIL (for 15kV Class) as indicated on the Drawings. 50,000-amp RMS asymmetrical momentary fused withstand rating and 40,000 ampere RMS asymmetrical close and latch.

E. Means shall be provided to padlock the switch in the open or closed position.

F. Provide Lightning Surge Arresters Mounted inside the Compartment, one per phase distribution type, connected between the switch and fuses. Surge arrestors shall be non-fragmenting type and comply with ANSI-C62.1.

G. Non-expulsion current limiting primary fuses with a short circuit interrupting rating of 50,000-amp RMS symmetrical shall be supplied fixed mounted on the load side of each switch pole. The fuse continuous current rating shall be in accordance with the Manufacturer's recommendation to adequately protect the transformer from damaging overloads and short circuits. Fuses shall provide a visible "Blown-fuse" indication. Fuses shall be removable from the front without special tools.

H. Access to Fuses While Energized shall be positively prevented through a mechanical interlock system which keeps the section front door locked closed when the switch is in the closed position. Provide warning-labels if switch/fuse “back-feed” may occur and provide mechanical / electrical interlocks between “main” secondary disconnect and primary switch/fuse to prevent access for the duration of the back feed condition.

I. Any Internal Parts that Remain Energized with the Switch Open shall be guarded by a fixed internal safety barrier to prevent inadvertent contact by Operating or Maintenance Personnel with the door open. Interphase insulating barriers shall be provided for the system voltage class, to isolate switch and fuse poles from each other and from grounded metal.

2.05 TRANSFORMER SECTION (LIQUID FILLED)

A. General

1. A three phase, 60Hz AC, two winding, liquid filled transformer shall be provided as part of the Pad Mount Transformer assembly. Transformers shall comply with NEMA TR-1 and TP-1 latest revisions.

2. Core and coil shall be immersed in insulating liquid fluid. The transformer self-cooled Outside Air (OA) dual rating shall be 55/65 centigrade rise. The transformer shall be rated for a 12% continuous additional overload capacity at rated voltage without exceeding 65 degree centigrade winding temperature rise. The transformer temperature rise rating shall be in 40 degrees ambient, with an average ambient for any 14-hour period of 30 degrees C.

3. Transformer assembly, transformer core and coil shall be earthquake restrained for the installation location earthquake seismic CBC/IBC rated.

4. Refined Cold Rolled Optimized Grain-Oriented (CRGO) electro-magnetic silicon steel fabricated transformer core (ANSI-M5 or better grade), insulated core laminations and finish to protect against corrosion and improve transformer operational efficiencies.

   a. Shall reduce the transformer core no load loses to approximately 0.18% or less of the transformer nameplate rating.

B. Transformer Efficiency shall meet or exceed NEMA-TP1 (latest revision) Requirements, Class-1 efficiency levels and shall be marked as energy efficient for United States Department of Energy DOE/EPA “Energy-Star” Certification.

C. Less-Flammable Transformer Liquids:

1. NFPA 70, FM P7825/3990 and UL-EOVK/EOUV listed for less-flammable liquids. Fire point not less than 360 degrees centigrade and flash-point not less than 330 degrees centigrade, testing in accordance with ASTM D92. Dielectric strength not less than 33kV tested in accordance with ASTM D877. Shall be fully miscible with mineral based fluids.

2. Transformer liquid fluids shall be biodegradable, non-toxic, non-bio accumulating, non-mutagenic; produce no EPRI (Furhns); produce no formal decides; produce no PCDD

(Dioxins). Renewable resource based transformer insulating fluid. Shall be non-contaminating during electrical load break operations and energizing switching operations, occurring with switching devices and/or fuses immersed inside the transformer fluid.

3. Do not provide transformer liquids including mackerel and insulating liquids containing Polychlorinated Biphenyl's (PCB's), tetrachloroethylene (perchloroethylene), chlorine compounds, or halogenated compounds.
4. Shall be compatible with transformer insulation, gaskets and seals. Envirotemp-FR3 transformer fluid.

D. Transformer Impedance shall be NEMA standard but not be less than indicated on the Drawings or exceed the value indicated on the Drawings by more than 15% of the indicated value.

E. The Transformer Tank shall be completely welded, sealed metal tank construction. Gas space shall be provided in the tank to limit internal pressure due to normal load cycle operation, minimum 7.0 PSI. The transformer tank shall withstand not less than 15PSI positive internal pressure and 5PSI negative internal pressure without leaking or rupture.

F. Taps (De-Energized Operation):

1. Tap changer external transformer tank operation, manual handle operator.
2. Full kVA capacity external primary manual tap changer shall provide two 2.5% above normal three 2.5% below normal, voltage adjustments. Tap changer handle shall be pad-lockable.
3. When dual primary voltage windings are specified, both windings shall have taps.

G. Porcelain Insulated Connector Bushing Connectors shall be provided on the line and load sides (opposite sides) of the transformer tank.

H. Transformer Throat Flanges to Enclose the Connector Bushings shall be provided on the line and load side of the transformer tank. The flanges shall provide connection to the incoming line and outgoing equipment sections.

I. The Following Transformer Components shall be provided.

1. Combination drain and sampling valve.
2. 1-inch top filter press connection.
3. Pressure test connection.
4. Dial type transformer winding temperature gauge, with resettable peak indicating pointer, "high-temp" alarm contacts and on-off relay for stop-start cooling fan operation.
5. Liquid level gauge.
6. Lifting jacking, skidding provisions.
7. Ground pad.
8. Handhole on cover, gasketed and bolted connections.
9. Pressure/vacuum gauge.
10. Pressure relief device for positive over pressure and negative under pressure automatic protection.
11. Instruction nameplate.

12. Continuous welded tank cover.
13. Provisions for forced air fan cooling.

J. Cooling
   1. Transformer cooling fins shall be welded to the transformer tank.
   2. Transformer shall be Class OA (Liquid Immersed Outside Air) self-cooling below 300kVA and Class OA/FA (forced air fan) for 300kVA and above.
      a. The (OA) self-cooling kVA rating, primary and secondary voltage ratings shall be as shown on the Drawings.
      b. Provide Automatic Forced Air fan cooling (OA/FA) to increase the transformer capacity to not less than 120% of the self-cooling (OA) rating.
      c. All unit substation sections and bus capacity shall be increased to equal or exceed the forced air fan cooling transformer rating.

K. Transformer insulation Basic Impulse Level-BIL rating.

Nominal Voltage	Primary- BIL	Secondary- BIL
12kV Class	95kV	30kV
5kV Class	60kV	30kV
2.4kV Class	60kV	30kV

BIL Rating prior to use of surge arrestors.

L. Transformer Windings and Lead-outs shall be insulated copper or aluminum. Current carrying bolted connections shall incorporate Belleville compression washers.

M. Electrostatic Shield: Provide full width, copper, and 100% electrostatic shield, between primary and secondary transformer windings, on each transformer phase. Shields shall be low impedance/inductance grounded to the transformer metal frame and shall attenuate common mode and transverse mode electrical noise.

N. Transformers shall be rated K4, in accordance with IEEE-C57.110.

2.06 MISCELLANEOUS INSTRUMENTS

A. Instrument and Control Transformers: ANSI C57.13 and NEMA ST20 as applicable. Transformers shall be specifically designed for use on respective protective relay or metering schemes utilized.

B. Current transformers meter/relay grade shall be multi-ratio tap, tap setting as indicated on Drawings, (minimum of three field adjustable tap settings) with 5-amp secondary, insulation class, 600 volt, 60Hz, single ring type, and shall have an Accuracy Classification of 0.3 with the burden of B.01, B.02 and B.03.

C. Control and transfer switches shall be of the rotary, oil-tight multi-position, cam-operated, multistage type, with dust cover and silver-to-silver contacts rated 600 volts, 20-amp and adequate for the duty performed in excess of 10-amp. Equip each switch with engraved plastic escutcheon nameplate identifying its function and position.

2.07 CONTROL WIRING

A. Terminal blocks with barriered terminals for each connection shall be provided for all control wiring terminator points. Control wiring shall be run in horizontal and vertical, isolated,

internal metal wire-ways and shall be carried across hinges in laced bundles. Wire terminators shall be crimp-on type spade terminal

B. Secondary control wiring shall be a minimum of 14 AWG stranded copper type SIS 600-volt insulation.

C. Control circuits shall have circuit number tags at each termination or break in the wire to match circuit numbers on terminal strips and control wiring diagrams.

2.08 MISCELLANEOUS

Provide painted signs on housing doors, minimum 3-inch letters: "WARNING HIGH VOLTAGE AUTHORIZED PERSONNEL ONLY".

2.09 FORCED-AIR COOLING EQUIPMENT:

A. General:

1. Provide transformer forced air, fan cooling for transformers 300kVA and larger. The equipment shall consist of cooling fans, temperature-sensing devices, and controls, complete with housing, mounting devices, and wiring. Operation of the cooling fans shall be automatically controlled by temperature-sensing devices. Connect a manually-operable switch in parallel with the automatic control contacts. Enclose the controls in a cabinet located on the side of the transformer or mount the temperature control module on the front panel of the trans-former enclosure at a height not greater than 60 inches above.

2. Cooling fans shall increase the transformer and outgoing secondary load capacity an additional amount as follows:

   a. Dry type transformers, 30% increase.

   b. Cast coil transformers, 15% increase.

   c. Liquid filled transformers, 15% increase.

B. Operation

1. Cooling Fans: Motors shall be rated for the same voltage as secondary winding or an auxiliary power transformer shall be furnished. The auxiliary transformer shall be provided with primary and secondary over current protection. The fan motors shall be of totally enclosed fan cooled construction, 1 phase, ball bearing, continuous duty rated with 3-wing blades; direct drive blower wheels will also be accepted.

2. Temperature-Sensing Devices: Thermal sensors shall be embedded in the hot spot area of each secondary coil (a single top fluid sensor for liquid filled transformers) to provide the most precise measurement of heat rise performance.

3. Three-phase electronic temperature monitor unit accepting input from three thermal sensors. The monitor shall track the temperature of the transformer with automatic digital displays and functions controlled by the signal received from the hottest phase. Unit features shall include temperature monitoring of each transformer coil, hottest phase temperature display, temperature display of any phase, two SPST contacts for both local and remote fan control, temperature alarm, and trip functions, manual fan operation, local alarm with local and remote silence feature. Monitor unit shall be suitable for use on 120, 240, 277 volts AC, 60Hz supply power. It shall employ an

automatic fan exerciser, which shall energize fans for approximately 1-minute every 6-days.

PART 3 - EXECUTION

3.01 GENERAL REQUIREMENTS

A. Electrical Installation shall conform to ANSI C2, NFPA 70, and to the Requirements specified herein. All equipment and materials shall be new unless indicated or specified otherwise.

B. Prior to Energizing and Testing, Manufacturer's Field Engineer shall visually inspect and verify devices are operational and bus connects complete.

3.02 ANCHORING OF EQUIPMENT

Anchoring of equipment shall be in compliance with the earthquake seismic vertical and lateral acceleration install location and CBC/IBC rated. Submit structural calculations and details.

3.03 TORQUE INTERCONNECTING BUSSING BOLTS AND ANCHOR BOLTS PER MANUFACTURER'S DIRECTIONS.

3.04 INSTALLATION OF EQUIPMENT AND ASSEMBLIES

Install and connect equipment and switchgear, furnished under this or other Sections as indicated on Project Drawings, the Shop Drawings, and as specified herein.

3.05 FIELD TESTS, INSPECTIONS, AND COMMISSIONING (ADDITIONAL REQUIREMENTS)

A. Test all equipment after the installation has been completed, and the Owner's Representative has been given 10-days' notice of the proposed tests. The Contractor shall provide operating tests demonstrating that all equipment and devices operate in accordance with the Requirements of the Documents.

B. Adjustable Settings

1. Shall be set and tested after the equipment installation is complete, for proper operation at set points, pickup, and/or drop-out points. Shall be performed by an independent Test Laboratory and Trained Certified Technicians actively engaged in testing and using test instruments designed and manufactured for the purpose.
2. Provide protection device settings and test, to insure operation and coordination as described in the time/current coordination final submittal, and in accordance with the Contract Documents.
3. Calibrate and testing shall comply with the Equipment Manufacturer recommendations.
4. Correct deficiencies, non-compliant equipment and retest to demonstrate compliance.
5. Submit reports to Owner's Representative, six copies.

C. Acceptance Checks and Tests: Perform in accordance with the Manufacturer's recommendations and NFPA 70B, Appendix I and ANSI C57.94. Perform work in a careful and safe manner so as not to endanger personnel or equipment. Acceptance checks and tests shall include, but not be limited to, the following:

1. Inspect devices, equipment, etc., for damage or maladjustment caused by shipment or installation.

2. Remove wedges, ties, and blocks installed by the Manufacturer to prevent damage during shipment.
3. Verify ground lugs and grounding connections.
4. Verify that the proper phase sequence in maintained.

3.06 MISCELLANEOUS

A. Provide painted signs on equipment housing doors, minimum 3-inch letters "DANGER HIGH VOLTAGE, KEEP OUT, AUTHORIZED PERSONNEL ONLY".

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SECTION 27 30 00

AREA OF REFUGE - TWO-WAY COMMUNICATION SYSTEM

IP COMMAND CENTER (BASE STATION AND DISTRIBUTION MODULE)
CALL BOXES AND SIGNAGE

PART 1 - GENERAL

1.01 SUMMARY

A. The IP Command Center is to be located at a central control point on the first floor or as determined by local Authority Having Jurisdiction. RATH® Command Center IP Call Boxes are to be located on all floors above and below the first floor, ideally next to a stairwell emergency exit or elevator landing on each floor.

B. The IP Command Center must be capable of connecting to an existing Network and providing inputs for the IP Call Boxes. Visual indicators on the IP Command Center allow rescue personnel to know which IP Call Box needs assistance. The IP Command Center must allow rescue Personnel to speak to each IP Call Box individually. The IP Command Center must include both a handset and speakerphone to communicate back to the IP Call Boxes.

C. The Emergency Communication Hardware shall comply with the Americans with Disabilities Act (ADA). The IP Call Box shall have the ability to be programmed with up to two emergency phone numbers (either both off-site or Base Station and off-site). Upon activation of the emergency push button, a call will be automatically placed to the IP Command Center. If no one answers at the IP Command Center, the IP Call Box must dial a secondary location outside the building to activate two way off-site person to person voice communications.

1.02 SUBMITTALS

A. Submit Product Data Sheets. Include operation manuals.

B. Wiring or shop diagrams detailing wiring schematics, cabling.

1.03 CONSTRUCTION

A. The IP Command Center (2500 Series) shall include both the Base Station and Distribution Module. The Base Station must have a powder coated steel housing (surface or flush mount) or be desk mounted, include a black handset with coil cord and be powered from the Distribution Module.

B. Distribution Module must be a surface mount enclosure, include connections for the IP Call Boxes and power the Base Station. The Distribution Module shall be powered from 120vac power with a battery backup that provides power for a minimum of 4 hours (RATH® part # RP7700104).

C. The IP Call Boxes (2100 Series) must be in full compliance with the ADA. IP Call Boxes require a hands-free speakerphone with an LED to indicate status of call.

D. The IP Call Boxes must allow the programming in of a specific location message of the unit. This allows rescue Personnel to know the location of the activated IP Call Box.

E. The IP Call Boxes are to be located no higher than 48-inches reach to the center of the push button above ground level to ensure conformance with the ADA Requirements.

F. The IP Call Boxes must have a Braille face plate to ensure conformance with the ADA Requirements.

G. The IP Command Center must provide an audible and visual indicator that an IP Call Box has been activated.

H. The 120vac Power Supply RATH® part # RP7700104 must be capable of supplying power to a minimum of one Base Station and one Distribution Module.

1.04 MOUNTING

A. The IP Command Center is to be mounted on a flat wall surface or a desk top.

B. The IP Call Boxes are to be wall surface or flush mounted.

1.05 ELECTRICAL

A. The IP Command Center is to be powered by the Distribution Module. The IP Call Boxes are to be powered by PoE at 802.3af or a separate battery backed up 12-volt source.

B. Distribution Module shall be powered by the RATH® part # RP7700104 Power Supply. It shall require 120vac power and provide battery backup capable of providing a minimum of 4-hours of electrical backup in case of building power failure.

C. The Base Station shall connect to the Distribution Module with a single wire pair (10 zone) 2-wire pairs (16-64 zone) or 3-wire pairs (80-up).

D. Each IP Call Box shall connect to a local Network Switch directed to the Command Center Distribution Module. Wiring from the IP Call Box to the Network Switch shall be a minimum of CAT 5e or 6. If CI cable is required, utilize RATH® cable part # RP6600300M4.

E. System shall be in compliance with all State and Local Electrical Codes.

F. If protective covers are required on the Call Boxes per Local Municipal Codes, use RATH® part # 2100-XXXIPC2.

G. If the monitoring of system integrity is required per NFPA 72, use RATH® Supervisor part # 2500-VOIPM.

1.06 COMMUNICATIONS

A. The IP Call Boxes shall be an ADA compliant and vandal resistant speakerphone.

B. The IP Call Boxes shall be hands-free and be a push-button-once to talk system. Once the button has been pushed, the IP Call Box will call the Base Station. If no answer at the Base Station, it will automatically call a preprogrammed emergency number. The IP Call Box must be capable of being programmed with up to two emergency phone numbers (either both off-site or Base Station and off-site).

C. The IP Call Box shall have location message capability. The IP Call Box must have a minimum 18-second recordable message capability, programmable to play one or two times. IP Call Box shall notify called party of the location of the call upon being received at the emergency dispatch center.

D. The IP Call Box shall be capable of allowing the called party to replay the location message if necessary to ensure an understanding of the caller location.

E. If system is not attended to 24 hours a day, the IP Call Box must dial a secondary location out-side the building to activate two-way off-site person to person voice communications.

F. Once call has been made (button pushed), the call can only be terminated by the called party.

G. The IP Call Box must have a red LED that will light up upon push of the button. The light shall be a solid color when the IP Call Box is activated, and will flash when call has been answered.

H. The IP Call Box must be capable of being programmed and reprogrammed on-site.

I. Standard IP Call Box features:

1. Two number programming (either both off-site or Base Station and off-site).
2. Operating temperature of between -40˚F to +150˚F (-40˚ to + 65˚ C).
3. On-site programmable.
4. Powered from PoE at 802.3af or separate battery backed up 12-volt source.
5. EEPROM memory to protect programming.

PART 2 - PRODUCTS

2.01 SIGNAGE

System shall consist of a minimum of one 120/277vac edge light sign (part # 7050 or 7050E), and a "location" and "instruction" sign (part # 7049) to clearly indicate location of designated area. A tactile sign (part # 7043/7044 or 7087) with raised letter and Braille shall be located at entrance to area.

2.02 GRAPHICS

A. IP Command Center must include wording identifying the location of each IP Call Box and light an LED when a particular IP Call Box has been activated.

B. The IP Call Box wording must include "Emergency Phone", International Phone symbol and raised Braille lettering.

C. Cabling

1. Cabling for two-way communication system shall meet the Applicable Requirements for pathway survivability. Cabling installation shall consist of the following:
   a. Two hour fire-rated circuit integrity (CI) cable – RATH® part # RP6600300M4
   b. Two hour fire-rated cable system
   c. Two hour fire-rated enclosure or protected area

2.03 WARRANTY

The IP Command Center and IP Call Boxes shall be warranted for a period of 3-years.

2.04 MANUFACTURER

A. The Manufacturer shall be:

RATH® Area of Refuge
N56 W24720 North Corporate Circle Sussex, WI 53089
800-451-1460
Website: www.Area-of-Refuge.com

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122719/212220

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SECTION 28 31 00
INTRUSION DETECTION SYSTEM

PART 1 - GENERAL

1.01 SCOPE

A. Work Included: All labor, materials, appliances, tools, equipment necessary for and incidental to performing all operations in connection with furnishing, delivery and installation of the work of this Section, complete, as shown on the Drawings and/or specified herein. Work includes, but is not necessarily limited to the following:

1. Examine all other Specifications Sections and Drawings for related work required to be included as work under Division 26, 27, and 28.
2. General Provisions and Requirements for electrical work.

1.02 SUBMITTALS

A. Submit Product data sheets, including operation manuals.

B. Submit Shop Drawings showing all device locations, battery calculations, wiring, schematics, cabling, etc.

PART 2 - PRODUCTS

2.01 SYSTEM FUNCTIONS

A. Provide a complete supervised Intrusion Detection System as shown on the Plans including but not limited to master control panel, key pad stations, motion detectors, connections to door switches, a State Fire Marshal listed digital communicator and an automatic dialer, panic buttons, conduit, cabling, etc.

B. Upon detection of an intruder by initiation of any device in the system, the system shall cause the annunciator LED to light and sound an alarm signal on the Campus' telecommunication system. Alarm information shall be sent by digital dialer through the campus optic distribution to Central Station Alarm Monitoring Agency.

C. Systems shall detect the motion of a body taking not more than four steps in an area secured with motion detection equipment where entry doors or windows are possible access.

D. Each building area shall be on a separate zone with each zone controlled separately so that any building area may be secured while others remain unsecured.

E. The System shall be capable of off-site computerized access for remote access, programming and control.

2.02 CONTROL PANEL

A. Control/Communicator Panel shall be a DMP #XR-550 control panel with an integral digital communicator and shall be Underwriters Laboratories listed. All external circuit connections shall be UL listed as power limited in accordance with the provisions of Article 760 of the California Electrical Code (CEC).

1. Provide Point of Protection (POPEX) modules at the control panel for Popit module supervision.
2. Provide Point of Protection Identification Transponders (Popit) modules at building terminal cabinets to individually identify each detector in the system.

B. The Control/Communicator shall be IP based.

C. System shall include the following features:

1. Real time clock and test timer.
2. Battery charging circuit.
3. Battery voltage supervision.
4. Supervised automatic reset circuit breakers.
5. Onboard warning buzzer and diagnostic LEDs.
6. Automatic answer modem.
7. Lightning and RFI protection.
8. Central Station reporting format.
9. Printer/CRT interface module for on-site serial data printer recording or CRT display of events.
10. Quad serial output module for enhanced serial data interface capability for specific accessory modules and devices.
11. Individual zone responses.
12. Custom annunciator text.
13. Audible alarm output, steady or pulsed.
14. Automatic silencing.
15. Attack-Resistant enclosure and lock meeting Underwriters Laboratory Local Burglary requirements.
16. A minimum of eight auxiliary form "C" dry contacts for a variety of programmable responses to alarm and trouble conditions.
17. Transformer enclosure for internal mounting of Class 2 transformer.
18. Two telephone numbers with selective signaling options.
19. Individual zone responses.
20. Automatic test reports.

2.03 BAR-CODE

Bar-code Programmer for diagnostics and programming capability.

2.04 RECEIVER

A. Receiver shall be Bosch Security System #D6600 Series or equal, UL listed for fire and intrusion detection.

B. Provide a 50VA Class 2 plug in transformer for power input.

C. System shall contain 48 hours of standby power utilizing rechargeable sealed lead acid batteries and a battery charger.

D. System shall be FCC approved for telephone connections.

E. An alphanumeric LCD Display shall indicate account number, area number, time, date, event, zone or point number, line or group number, status and external devices.

F. Twenty-four hour Clock and 128 year calendar.

G. Forty Character Line internal printer and interface capability with an external serial printer.

H. Transmission Verification appropriate with the format utilized.

I. Storage of 249 separate events.

J. Transmission Format shall support the control panel.

K. Turn the Receiver over to the College for Central Station or Campus Monitoring.

2.05 REMOTE ACCOUNT MANAGER

A. System shall be Bosch Security Systems #D5300 Series or equal with all equipment necessary for computerized access, programming, diagnostics, and remote control of the system. It shall be possible to remotely change passcodes, locate faults, shunt problem zones, arm and disarm the system, silence alarms, and control the auxiliary output contacts in the control panel.

B. System shall permit remote diagnostics including utility and battery power conditions, phone line condition, event memory by zone, and current clock and calendar settings.

C. System shall be 100% compatible for use with personal computers.

D. System shall include a plug-in modem and software necessary for a complete and operable installation. Furnish the College with a Software License Agreement for updated software enhancements as they develop.

2.06 KEYPADS

A. Master Keypad shall be DMP 7800 Series graphic touchscreen or equal capable of displaying system status and controlling the alarm system. Unit shall receive its operating power from the main control panel. Keypad shall be flush-mounted on a wall near the entry doors of each building. Faceplate shall be brass or stainless steel as selected by the Architect.

B. Sub-Zone Keypads shall be DMP or equal to allow individual zones to be bypassed. Keypad shall be flush wall where shown on Plans Faceplate shall be brass or stainless steel as selected by the Architect.

2.07 MOTION SENSORS

Motion sensors shall be Honeywell DT-7450 with Bosch B328 mounting bracket. Sensors shall be dual performance, dual event devices to minimize false alarms or equal passive infrared devices detecting thermal motion signals. Sensor coverage patterns shall be as required for optimum coverage at each individual location. Sensor shall be adjustable Gimbal mounted with plate and outlet box.

2.08 MAGNETIC SWITCH

Magnetic switch shall be fully concealed in the door frame, Admeco, Sentrol or equal.

2.09 INTRUSION DETECTION SYSTEM

Each Intrusion Detection System terminal cabinet shall contain a power supply for motion sensors and/or POPIT/POPEX (Zonex) modules.

2.10 CABLING

Cabling shall be as required for system operation. All cabling shall be shielded. All cabling shall be in conduit, ¾-inch minimum.

2.11 SIREN

Siren shall be ATW (Mascon) PR-D550PW or equal.

2.12 PANIC BUTTONS

Panic buttons shall be DMP HUB-M or equal. Panic buttons shall concealed within the furniture systems/casework but readily available for silent alarm access by the room occupant. Coordination installation location with furniture systems installer.

PART 3 - EXECUTION

3.01 MOTION SENSORS

Locate Motion Sensors to provide optimum coverage of the space and to avoid conflicts with the architectural aesthetics of the building. Submittal Drawings shall show the exact locations of all system sensors and keypads for approval by the Architect, Engineer and College.

3.02 CONCEALED DOOR SWITCH

Coordinate Concealed Door Switch Installations with Finish Hardware Manufacturer.

END OF SECTION 28 31 00
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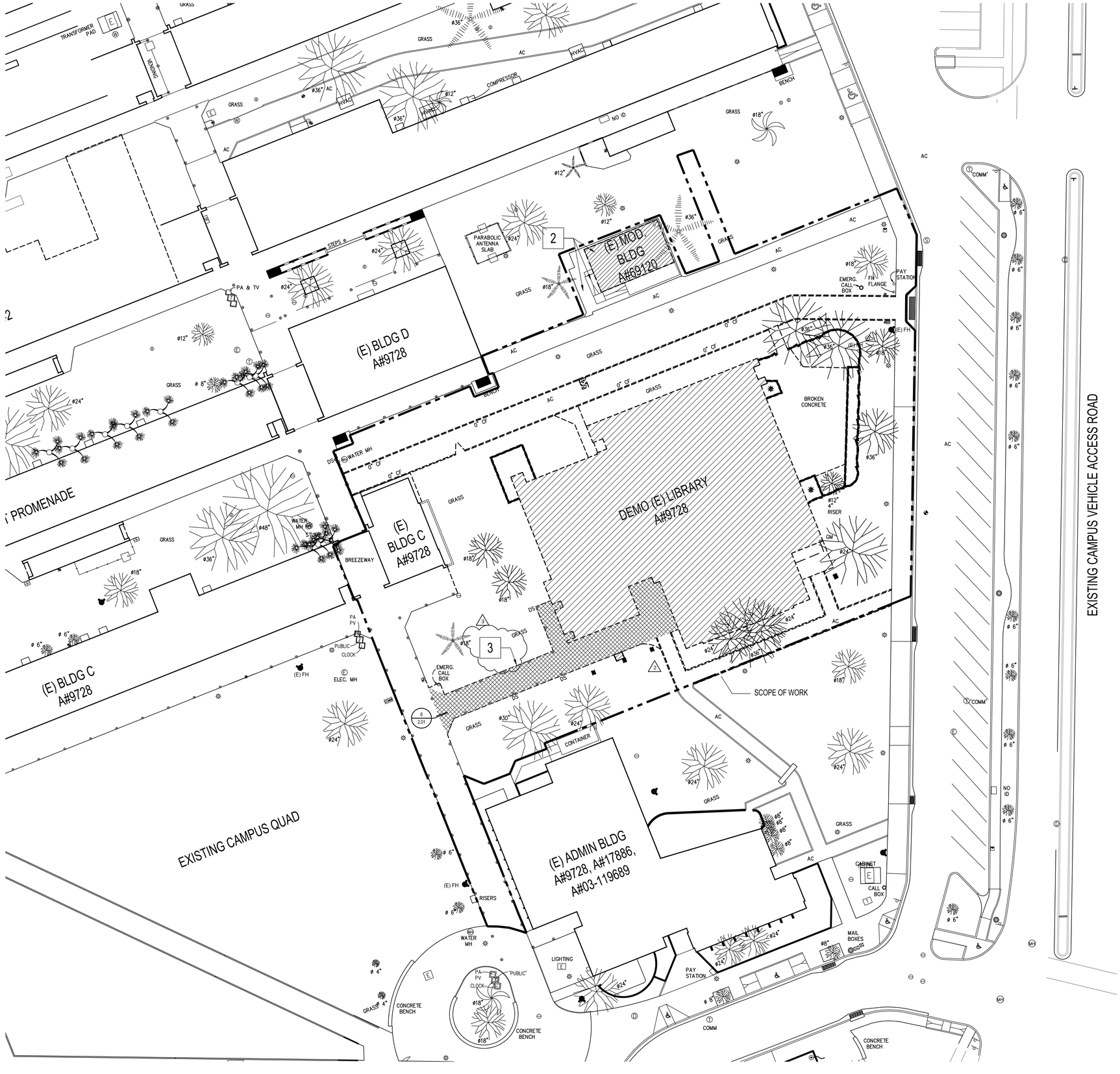

GENERAL NOTES

1. VERIFY ALL EXISTING & FINISH GRADES, DIMENSIONS & SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
2. ALL GRADING WORK SHALL CONFORM TO APPLICABLE PROVISIONS OF THE 2016 CALIFORNIA BUILDING CODE, TITLE 24, AND LOCAL CODES OR ORDINANCES. IN THE EVENT OF CONFLICTING PROVISIONS, ALWAYS CONFORM TO THE STRICTER REQUIREMENTS.
3. DETERMINE NECESSARY SUBGRADE ELEVATIONS AND CONSTRUCT SMOOTH TRANSITIONS BETWEEN FINISHED GRADES. FINISHED GRADE ELEVATIONS ADJACENT TO BUILDING PERIMETERS TO BE 6" BELOW FINISHED FLOOR ELEVATIONS, U.N.O.
4. ALL CONCRETE PAVING TO BE MEDIUM BROOM FINISH UNLESS NOTED OTHERWISE.
5. CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-206.
6. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
7. COMPLY WITH CALIFORNIA FIRE CODE CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
8. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE OR OTHERWISE INHIBIT THE USE OF REQUIRED EXITS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS AND OTHER ACCESS ROUTES FOR FIRE FIGHTING EQUIPMENT AND/OR PERSONNEL.
9. FOR ADDITIONAL SITE SCOPE OF WORK REFER TO
   A) GEOTECHNICAL REPORT
   B) PROJECT MANUAL
   C) CIVIL DRAWINGS C1.1 SITE DEMOLITION, C1.2 GRADING, & C1.5 UTILITIES
   D) LANDSCAPE DRAWINGS L1.11 LANDSCAPE CONSTRUCTION PLAN, L2.11 IRRIGATION PLAN, AND L3.11 LANDSCAPE PLANTING PLAN
   E) STRUCTURAL OVEREXCAVATION DETAIL ON SS-0.1, AND FOUNDATION PLANS S-2.1 AND S-2.2
   F) PLUMBING SITE PLAN P-0.3
   G) FIRE SPRINKLER SITE PLAN FS0-3
   H) MECHANICAL SITE PLAN M0-3
   I) ELECTRICAL SITE DRAWINGS ES-0, ES-1, ES-2, ES-3, EF-4, AND ET-4
10. CONTRACTOR TO CONFIRM INVERT ELEVATIONS FOR ALL UTILITY CROSSINGS AT OVEREXCAVATION LIMIT OF WORK TO CONFIRM NO CONFLICTS. CONTRACTOR TO REWORK EXISTING UTILITIES DUE TO OVEREXCAVATION AND / OR MAT FOUNDATION CONFLICTS AS REQUIRED.
11. CONTRACTOR TO REMOVE (E) BUILDING B UNDERGROUND UTILITIES WITHIN AREA OF NEW BUILDING MAT FOUNDATION.

KEYNOTES

1. DEMOLISH AND REMOVE (E) PILES UP TO THE LIMITS OF BOTTOM OF OVEREXCAVATION. REFER TO GEOTECHNICAL SUPPLEMENTAL RECOMMENDATIONS DATED APRIL 22, 2019 FOR ADDITIONAL INFORMATION. REFER ALSO TO THE STRUCTURAL AS-BUILT DRAWINGS FOR REFERENCE ONLY FOR PILE LOCATIONS AND SIZES.
2. DEMOLISH (E) RELOCATABLE(S), RAMP(S), AND ADJACENT HARDSCAPE AFTER THE NEW STUDENT SERVICES BUILDING IS COMPLETED.
3. DEMOLISH (E) COVERED WALK (INCLUDING, CANOPY, CONCRETE PAVING AND ANY ASSOCIATED FOOTINGS OR FOUNDATIONS.

SITE PLAN LEGEND - DEMOLITION

- DEMO (E) BUILDING STRUCTURE FOR NEW CONSTRUCTION
- DEMOLISH (E) COVERED WALK
- LIMITS OF WORK
- EXISTING (E) FIRE HYDRANT
- (E) FRICTION PILES & PILE CAPS TO BE DEMOLISHED

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consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number : 20987.00

file name: 0AS-2_SITE DEMO PLAN.DWG

drawn by: tBP checked by: T. HALL

date: 9.3.2019

Rev:	date:	description:
2	12/13/2019	ADDENDUM No. 2
3	12/31/2019	ADDENDUM No. 4

drawing title:
ENLARGED SITE PLAN - DEMOLITION

drawing no.:
AS-2
drawing of

GENERAL NOTES

1. PAINT ALL EXPOSED STEEL COLUMNS, BEAMS AND BRACES - REFER TO COLOR SCHEDULE, SHEET 9.02

LEGEND

NOTE: REFER TO SHEET T-2 FOR ADDITIONAL SYMBOLS

- Room name / 101 — RM. NO. — ROOM SYMBOL
- Room name / 4 / 1 / 101 / A10-X / 3 — RM. NO., ELEVATION NO., ELEVATION SHEET NO. — ROOM SYMBOL WITH INTERIOR ELEVATION DESIGNATIOND
- A-4 — WALL TYPE, SEE SHEET 4.01
- AL / 101 — WINDOW TYPE, SEE SHEET 8.51 FOR INTERIOR, SEE SHEETS 8.52 AND 8.53 FOR EXTERIOR
- 000 — DOOR TYPE, SEE SHEET 8.01 DOOR SCHEDULE
- HB — WALL-MOUNT HOSE BIBB, SEE PLUMBING DWGS.
- FEC — SEMI-RECESSED FIRE EXTINGUISHER CABINET (12 / 4.02)
- P.H. — PANIC HARDWARE, SEE SHEET 8.01 DOOR SCHEDULE
- 1 HR RATED WALL, SEE SHEET 9/4.01
- 1 HR SHAFT WALL, SEE SHEET 8/4.01
- CEMENT PLASTER WALL SYSTEM (1 / 3.01)
- METAL PANEL WALL SYSTEM (1 / 3.02)
- BRICK VENEER WALL SYSTEM (20F / 3.01)

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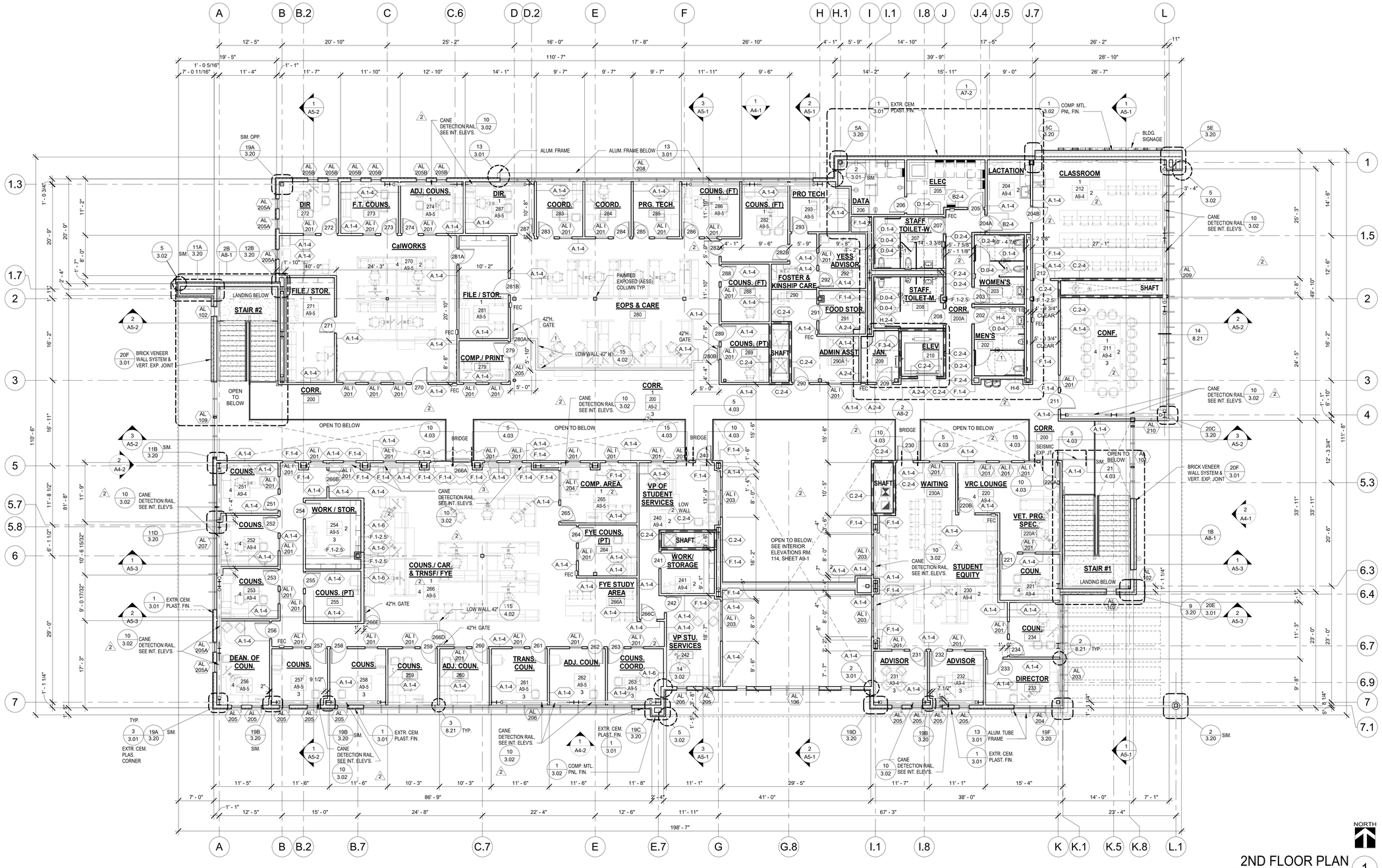
tBP project number: 20987.00
file name: CC_SS_Central.RVT
drawn by: Z. WEN checked by: T. HALL
date: 9.3.2019

rev:	date:	description:
1	11/20/19	Addendum 1
2	12/11/19	Addendum 2
3	12/31/19	Addendum 4

drawing title:
1ST FLOOR PLAN

drawing no.:
A1-1
drawing of



2ND FLOOR PLAN

SCALE 1/8" = 1'-0"

0' 2' 4' 8' 16'

GENERAL NOTES

1. PAINT ALL EXPOSED STEEL COLUMNS, BEAMS AND BRACES - REFER TO COLOR SCHEDULE, SHEET 9.02

LEGEND

NOTE: REFER TO SHEET T-2 FOR ADDITIONAL SYMBOLS

Room name 101 — RM. NO. — ROOM SYMBOL

Room name 101 4 A10-X 3 — RM. NO. / ELEVATION NO. / ELEVATION SHEET NO. — ROOM SYMBOL WITH INTERIOR ELEVATION DESIGNATIOND

A-4 — WALL TYPE, SEE SHEET 4.01

AL 101 — WINDOW TYPE, SEE SHEET 8.51 FOR INTERIOR, SEE SHEETS 8.52 AND 8.53 FOR EXTERIOR

000 — DOOR TYPE, SEE SHEET 8.01 DOOR SCHEDULE

HB — WALL-MOUNT HOSE BIBB, SEE PLUMBING DWGS.

FEC — SEMI-RECESSED FIRE EXTINGUISHER CABINET 12 / 4.02

P.H. — PANIC HARDWARE, SEE SHEET 8.01 DOOR SCHEDULE

1 HR RATED WALL, SEE SHEET 9/4.01

1 HR SHAFT WALL, SEE SHEET 8/4.01

CEMENT PLASTER WALL SYSTEM 1 / 3.01

METAL PANEL WALL SYSTEM 1 / 3.02

BRICK VENEER WALL SYSTEM 20F / 3.01

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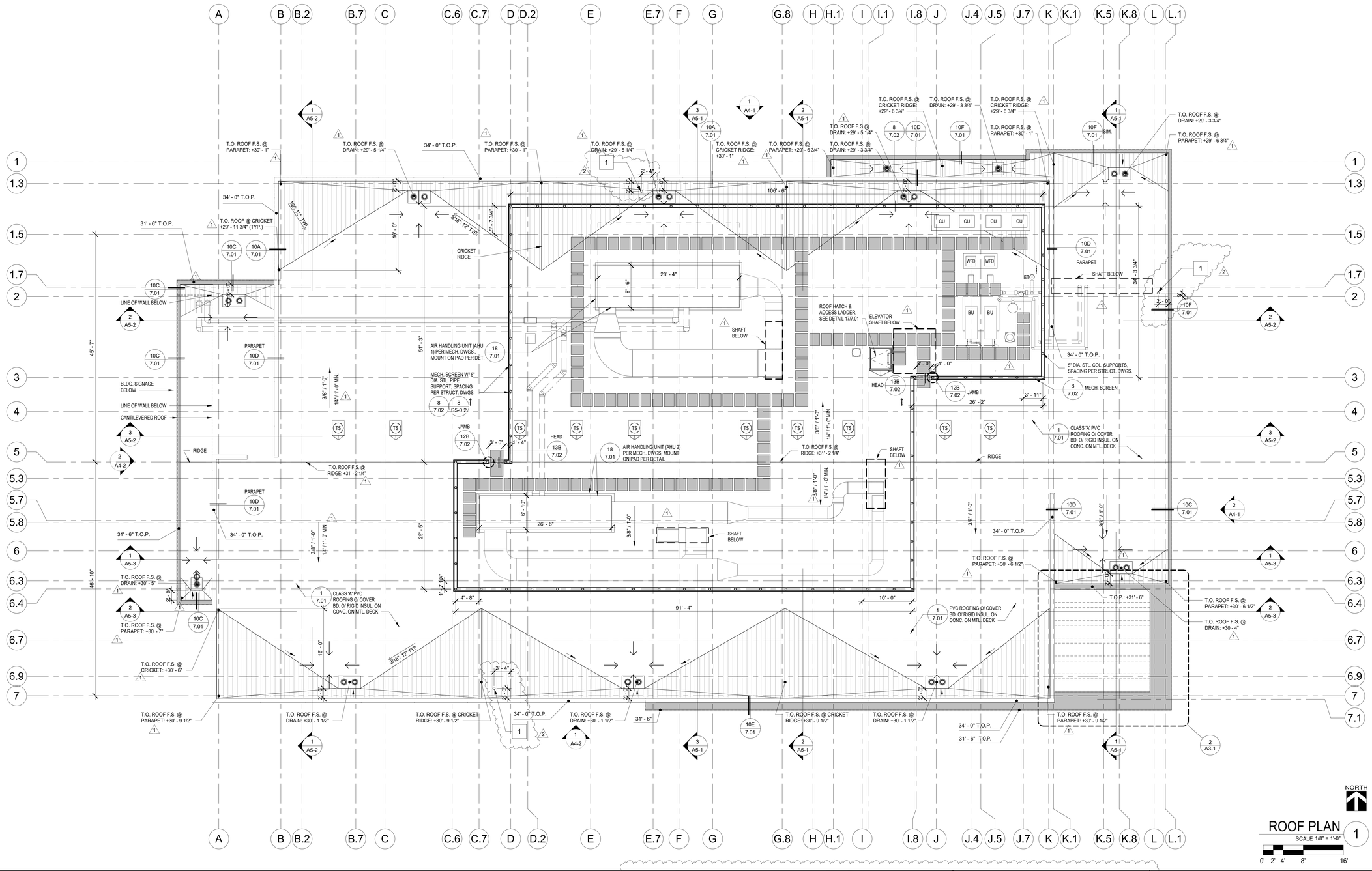
drawing title:
2ND FLOOR PLAN

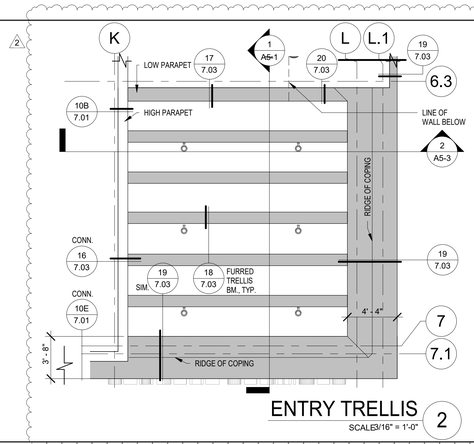
drawing no.:
A1-2
drawing of



ROOF PLAN 1

SCALE 1/8" = 1'-0"

0' 2' 4' 8' 16'



ENTRY TRELLIS 2

SCALE 3/16" = 1'-0"

KEY NOTES:

1 ROOF TIE-DOWN. REFER TO DETAIL 7/3.01

LEGEND

NOTE: ALL ROOFING SHALL BE CLASS "A" WHERE MULTIPLE PIPES OCCUR, PROVIDE CLEARANCE PER 14/7.01

ABBREVIATIONS

O.D.	OVERFLOW DRAIN
R.D.	ROOF DRAIN
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STEEL; UNDERSIDE OF DECK (U.N.O.)

- EF — EXHAUST FAN PER MECH. DWGS., MOUNT PER 13/7.01, 11/M7-1 & 12/S0-1.6
- TS — TUBULAR SKYLIGHT, SEE 5/7.02
- ROOF AND OVERFLOW DRAIN 3/7.02, ROOF DRAIN 4/7.02
- CRICKET 2/7.01
- ROOF HATCH W/ LADDER & GUARDRAIL 17/7.01
- WALKING PAD
- CU — CONDENSING UNIT PER MECH. DWGS., MOUNT PER 19/7.01 AND 9/S0-1.6
- BU — BOILER UNIT PER MECH. & PLUMBING DWGS., MOUNT PER 9/M7-1
- ET — EXPANSION TANK PER MECH. DWGS., MOUNT PER 2/M7-2

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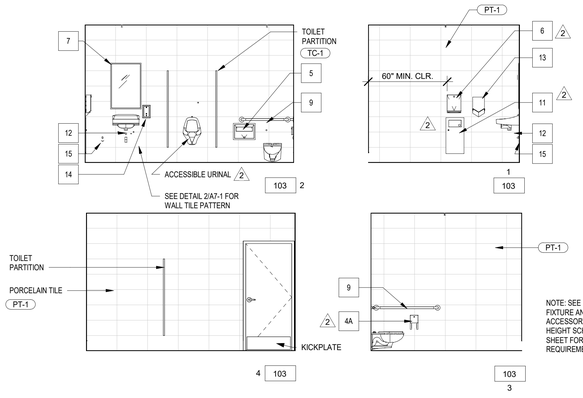
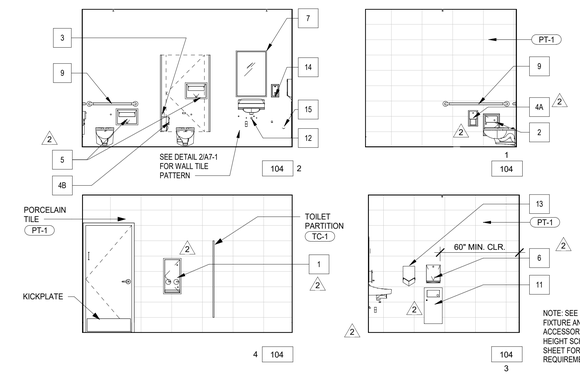
drawing title:
ROOF PLAN

drawing no.:
A3-1

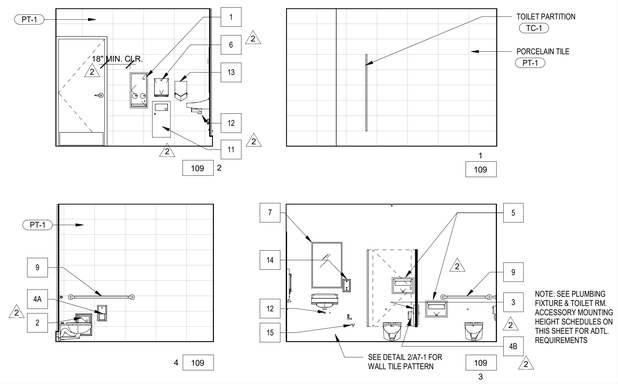
drawing of



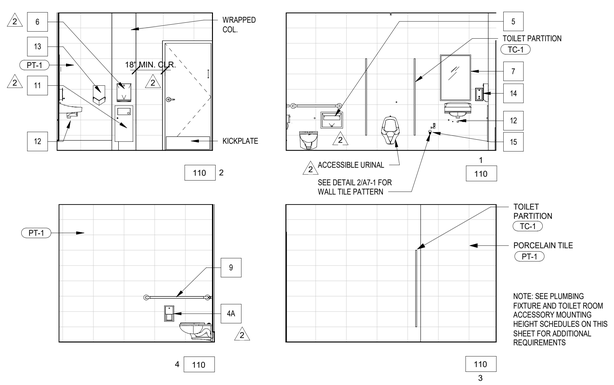
MEN'S RESTROOM — 103
SCALE: 1/4"=1'-0"



WOMEN'S RESTROOM — 104
SCALE: 1/4"=1'-0"



STAFF TOILET - WOMEN — 109
SCALE: 1/4"=1'-0"



STAFF TOILET - MEN — 110
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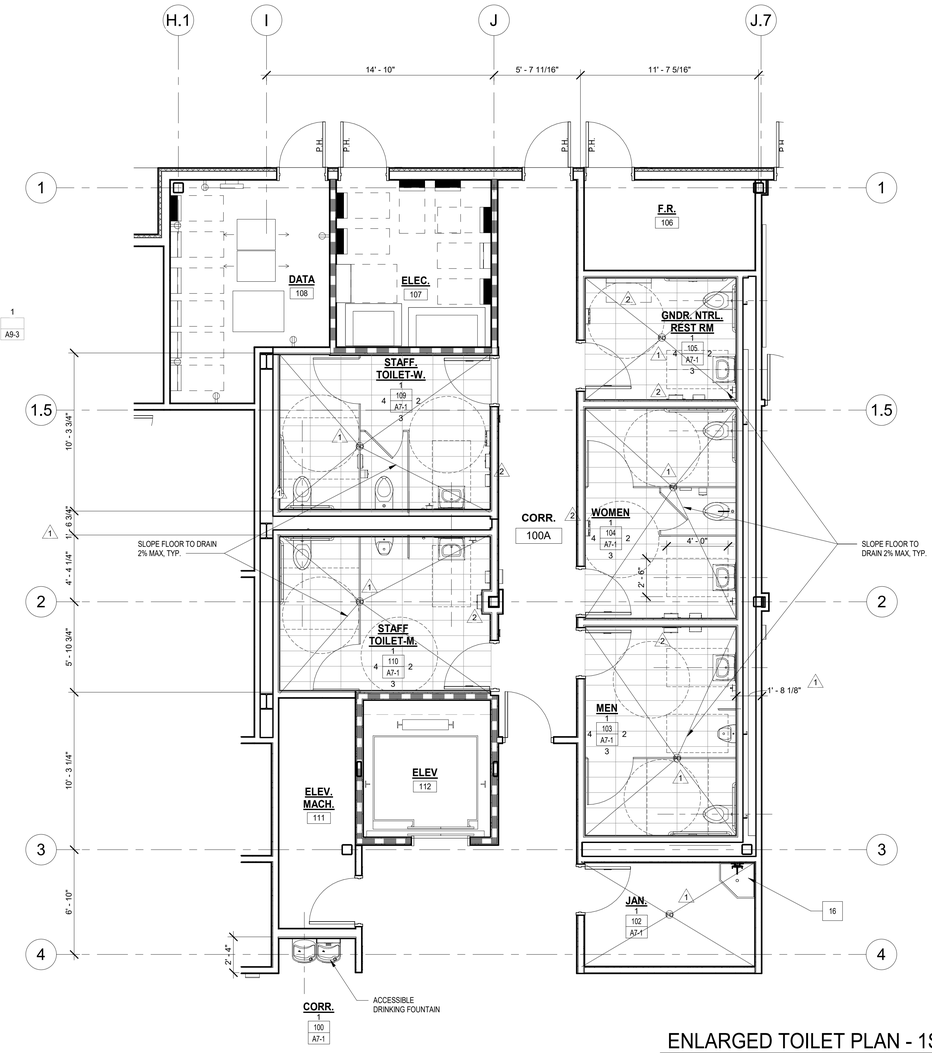
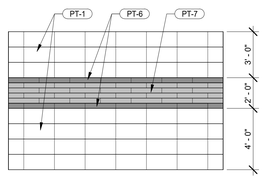


ENLARGED TOILET PLAN - 1ST FLR — 1
SCALE 1/4" = 1'-0"

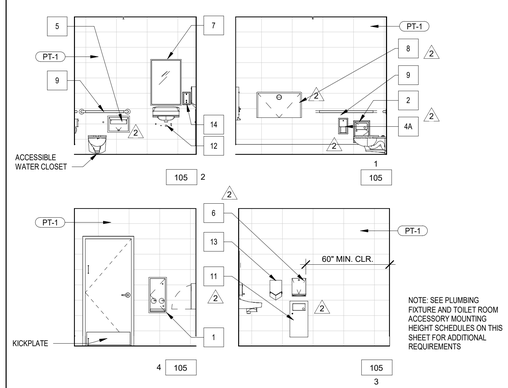
NOTES:

SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

ALL DIMENSIONS IN RESTROOMS ARE TO FACE OF FINISH



TOILET WALL PATTERN — 2
SCALE 1/4" = 1'-0"



GENDER NEUTRAL RESTROOM — 105
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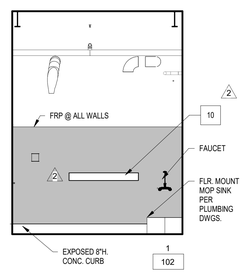
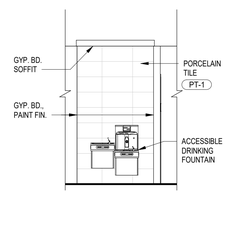


JANITOR — 102
SCALE: 1/4"=1'-0"

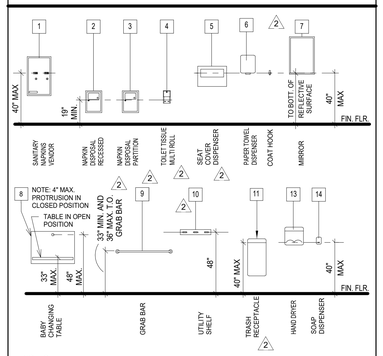


DRINKING FOUNTAIN — 100
SCALE: 1/4"=1'-0"

TOILET ROOM ACCESSORY KEYNOTES

1	SANITARY NAPKIN VENDOR, SEMI-RECESSED, 4" MAX. PROJECTION	O.F.C.I.	BOBRICK B-3706 25
2	SANITARY NAPKIN DISPOSAL, RECESSED	C.F.C.I.	BOBRICK B-4353
3	SANITARY NAPKIN DISPOSAL, PARTITION MOUNTED	C.F.C.I.	BOBRICK B-254
4A	RECESSED NICHE FOR 2 ROLL TOILET TISSUE DISPENSER 4" MAX. PROJECTION	O.F.C.I.	DUBL-SERV 80200
4B	3 ROLL TOILET TISSUE DISPENSER	O.F.C.I.	REVOLUTION 80300
5	SEAT COVER DISPENSER, RECESSED	C.F.C.I.	BOBRICK B-301
6	RECESSED NICHE FOR PAPER TOWEL DISPENSER, HANDS FREE, 4" MAX. PROJECTION	O.F.C.I.	OPTISERV 76700
7	MIRROR, STAINLESS STEEL CHANNEL FRAME, 24" X 36"	C.F.C.I.	BOBRICK B-1658 2436 OR EQ.
8	BABY CHANGING STATION - HORIZ. WALL-MOUNT, ST. STL., , 4" MAX. PROJECTION	C.F.C.I.	BOBRICK KOALA CARE KB110-SSWM
9	GRAB BARS, 1-1/2" DIA, BY 18 GA. STAINLESS STL. TUBING, 48"L SIDE WALL, 42" LONG BACK WALL, 42"L IN AMBULATORY STALL	C.F.C.I.	BOBRICK B-6806
10	UTILITY SHELF W/ MOP & BROOM HOLDER, SURFACE MOUNT	C.F.C.I.	BOBRICK B-239
11	RECESSED WASTE RECEPTACLE	C.F.C.I.	BOBRICK B-35633 / APRVD.EQ.
12	UNDERLAVATORY GUARDS, MOLDED VINYL COVERING FOR SUPPLY DRAIN PIPING W/FLIP TOPS @ VALVE TO ALLOW SERVICE ACCESS W/O REMOVING COVERS	C.F.C.I.	
13	ELECTRIC HAND DRYER, SEMI-RECESSED, 4" MAX. PROJECTION	C.F.C.I.	BOBRICK B-750 OR APRVD. EQ.
14	LOTION SOAP DISPENSER, VERTICAL TANK, SURF. MOUNTED	O.F.C.I.	IMPACT 9325
15	HOSE BIBB PER PLUMBING DRAWINGS		
16	FLOOR MOUNTED SERVICE SINK PER PLUMBING DRAWINGS		
17	GAS WATER HEATER PER PLUMBING DRAWINGS		
18	ROOF ACCESS LADDER		

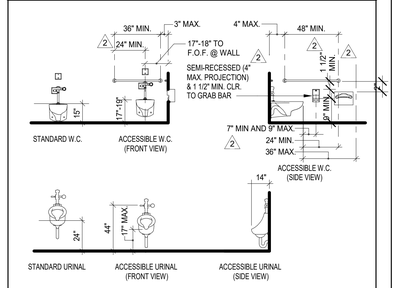
TOILET RM. ACCESSORY MOUNTING HEIGHTS

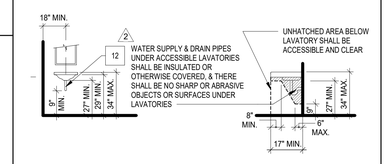


NOTES:

1. MOUNTING HEIGHTS SHOWN ARE TYPICAL, UNLESS OTHERWISE NOTED.
2. ALL ACCESSORIES SHALL BE ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 40" ABOVE FINISH FLOOR TO ALL OPERABLE PARTS AND COIN SLOTS. 2
3. SLOPE FLOORS 1/8" PER FOOT MINIMUM AND 1/4" PER FOOT MAXIMUM, UNLESS NOTED OTHERWISE.
4. SEE ENLARGED TOILET PLAN AND INTERIOR ELEVATION DRAWINGS FOR TOILET ACCESSORY LOCATIONS
5. OWNER FURNISHED ACCESSORIES SHALL BE CONTRACTOR INSTALLED (OFCI)
6. PROVIDE BACKING FOR GRAB BARS AND SHELVES PER (1 / 6.01) 2

PLUMBING FIXTURE MOUNTING HEIGHTS





PLUMBING FIXTURE / ACCESSORIES CLEARANCES TO FINISHED SURFACE

	ADULT
TOILET CENTERLINE FROM WALL	17" - 18" FROM CENTERLINE TO WALL FINISH
TOILET SEAT HEIGHT (AT SEAT LID)	17"-19" ABOVE FINISH FLOOR TO TOP OF SEAT
GRAB BAR HEIGHT (SIDE)	33" - 36" FROM FINISH FLOOR TO T.O. GRAB BAR
TOILET TISSUE DISPENSER IN FRONT OF TOILET	7" - 9" FROM TOILET TO CENTERLINE OF DISPENSER
TOILET TISSUE DISPENSER OUTLET	14" MIN. AND 19" MAX. ABOVE FINISH FLOOR
NAPKIN DISPOSAL IN FRONT OF TOILET	BETWEEN TOILET PAPER DISPENSER AND REAR WALL
DISPENSER OR MIRROR HEIGHT	40" MAX.
LAVATORY/SINK TOP HEIGHT	34" MAX.
LAVATORY/SINK KNEE CLEARANCE	29" MAX.
URINAL LIP HEIGHT	17" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.
RAMP/STAIR HANDRAIL HEIGHT	34"-38"

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COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

file name: CC_SS_Central.RVT

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1	11/20/19	Addendum 1
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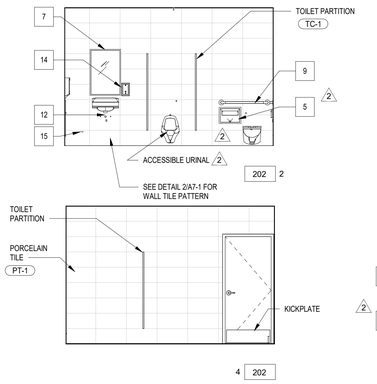
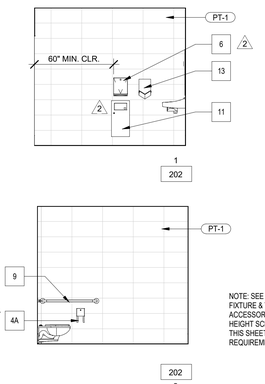
drawing title:
ENLARGED TOILET RM. PLANS & ELEVS. - 1ST FLR

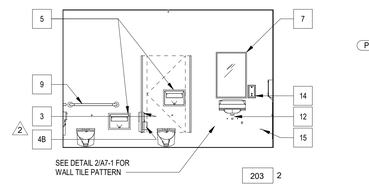
drawing no.:
A7-1
drawing of

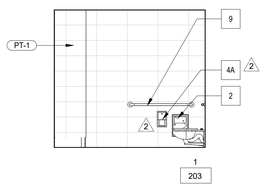


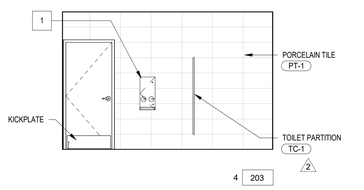


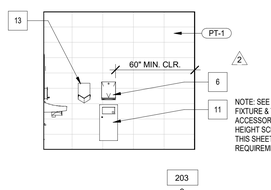
NOTE: SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

MEN'S RESTROOM
SCALE: 1/4"=1'-0" | 202



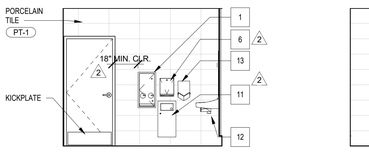


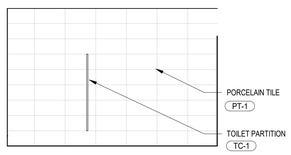


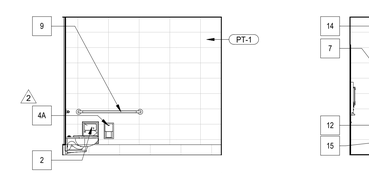


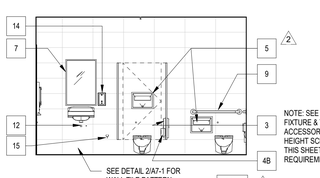
NOTE: SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

WOMEN'S RESTROOM
SCALE: 1/4"=1'-0" | 203



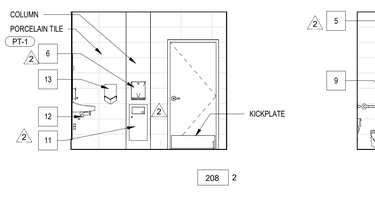


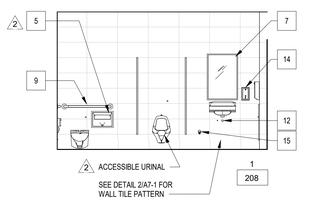


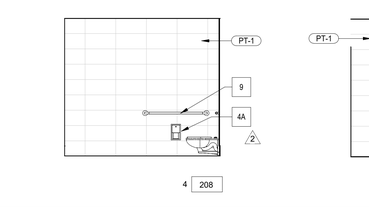


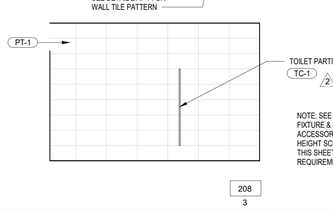
NOTE: SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

STAFF TOILET - WOMEN
SCALE: 1/4"=1'-0" | 207



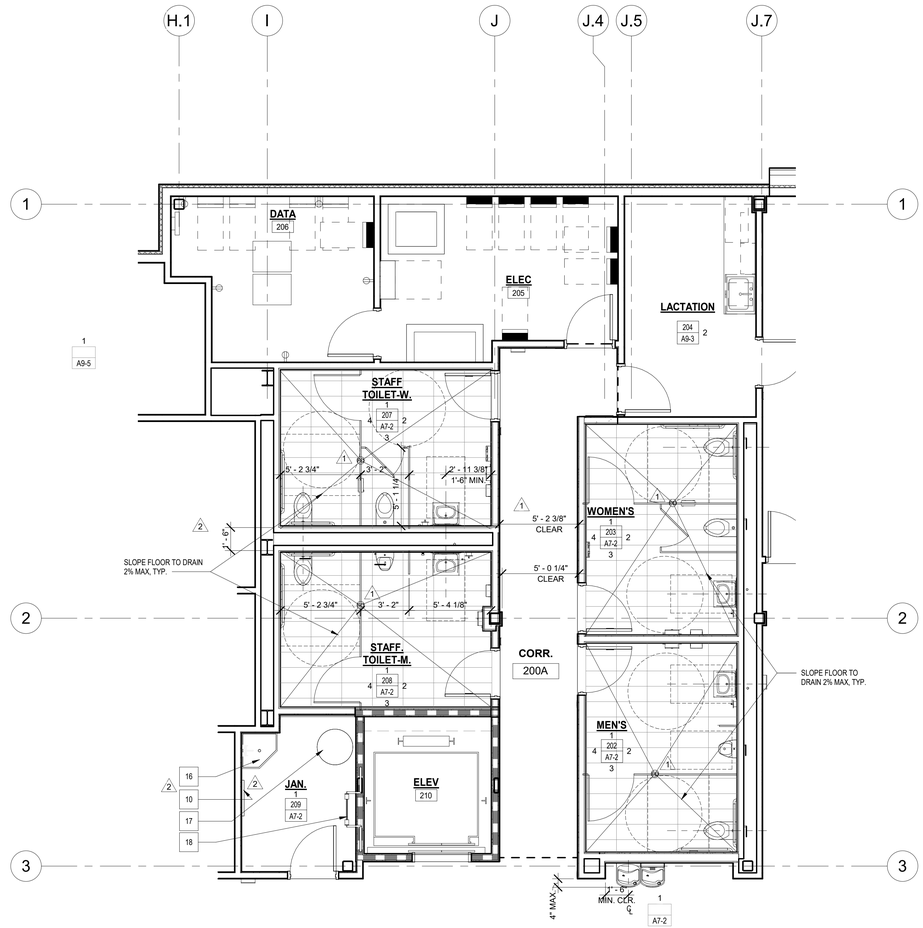






NOTE: SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

STAFF TOILET - MEN
SCALE: 1/4"=1'-0" | 208



NOTES:

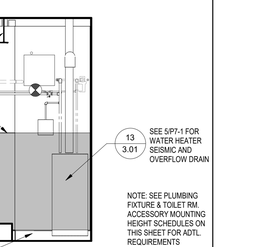
SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

ALL DIMENSIONS IN RESTROOMS ARE TO FACE OF FINISH

NORTH

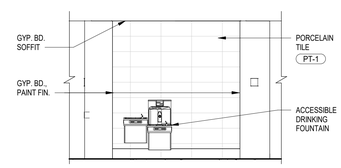
ENLARGED TOILET PLAN - 2ND FLR
SCALE 1/4" = 1'-0" | 1

0" 1" 2" 4" 8"



NOTE: SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

JANITOR
SCALE: 1/4"=1'-0" | 209



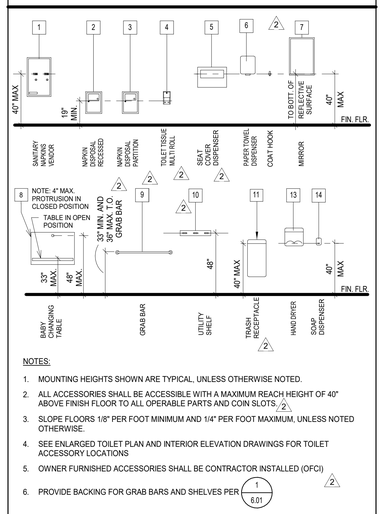
NOTE: SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

CORRIDOR DRINKING FOUNTAIN
SCALE: 1/4"=1'-0" | 2

TOILET ROOM ACCESSORY KEYNOTES

1	SANITARY NAPKIN VENDOR, SEMI-RECESSED, 4" MAX. PROJECTION	C.F.C.I.	BOBRICK B-3706 25
2	SANITARY NAPKIN DISPOSAL, RECESSED	C.F.C.I.	BOBRICK B-4353
3	SANITARY NAPKIN DISPOSAL, PARTITION MOUNTED	C.F.C.I.	BOBRICK B-254
4A	RECESSED NICHE FOR 2 ROLL TOILET TISSUE DISPENSER 4" MAX. PROJECTION	O.F.C.I.	DUBL-SERV 80200
4B	3 ROLL TOILET TISSUE DISPENSER	O.F.C.I.	REVOLUTION 80300
5	SEAT COVER DISPENSER, RECESSED	C.F.C.I.	BOBRICK B-301
6	RECESSED NICHE FOR PAPER TOWEL DISPENSER, HANDS FREE, 4" MAX. PROJECTION	O.F.C.I.	OPTISERV 76700
7	MIRROR, STAINLESS STEEL CHANNEL FRAME, 24" X 36"	C.F.C.I.	BOBRICK B-1658 2436 OR EQ.
8	BABY CHANGING STATION - HORIZ. WALL-MOUNT, ST. STL., , 4" MAX. PROJECTION	C.F.C.I.	BOBRICK KOALA CARE KB110-SSWM
9	GRAB BARS, 1-1/2" DIA, BY 18 GA. STAINLESS STL. TUBING, 48"L SIDE WALL, 42" LONG BACK WALL, 42"L IN AMBULATORY STALL	C.F.C.I.	BOBRICK B-6806
10	UTILITY SHELF W/ MOP & BROOM HOLDER, SURFACE MOUNT	C.F.C.I.	BOBRICK B-239
11	RECESSED WASTE RECEPTACLE	C.F.C.I.	BOBRICK B-35633 / APRVD.EQ.
12	UNDERLAVATORY GUARDS, MOLDED VINYL COVERING FOR SUPPLY/ DRAIN PIPING W/FLIP TOPS @ VALVE TO ALLOW SERVICE ACCESS W/O REMOVING COVERS	C.F.C.I.	
13	ELECTRIC HAND DRYER, SEMI-RECESSED, 4" MAX. PROJECTION	C.F.C.I.	BOBRICK B-750 OR APRVD. EQ.
14	LOTION SOAP DISPENSER, VERTICAL TANK, SURF. MOUNTED	O.F.C.I.	IMPACT 9325
15	HOSE BIBB PER PLUMBING DRAWINGS		
16	FLOOR MOUNTED SERVICE SINK PER PLUMBING DRAWINGS		
17	GAS WATER HEATER PER PLUMBING DRAWINGS		
18	ROOF ACCESS LADDER		

TOILET RM. ACCESSORY MOUNTING HEIGHTS



NOTES:

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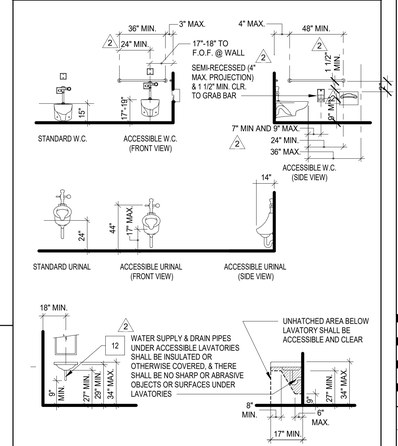
5. OWNER FURNISHED ACCESSORIES SHALL BE CONTRACTOR INSTALLED (OFCI)
6. PROVIDE BACKING FOR GRAB BARS AND SHELVES PER 1/6.01

PLUMBING FIXTURE MOUNTING HEIGHTS



PLUMBING FIXTURE / ACCESSORIES CLEARANCES TO FINISHED SURFACE

	ADULT
TOILET CENTERLINE FROM WALL	17" - 18" FROM CENTERLINE TO WALL FINISH
TOILET SEAT HEIGHT (AT SEAT LID)	17"-19" ABOVE FINISH FLOOR TO TOP OF SEAT
GRAB BAR HEIGHT (SIDE)	33" - 36" FROM FINISH FLOOR TO T.O. GRAB BAR
TOILET TISSUE DISPENSER IN FRONT OF TOILET	7" - 9" FROM TOILET TO CENTERLINE OF DISPENSER
TOILET TISSUE DISPENSER OUTLET	14" MIN. AND 19" MAX. ABOVE FINISH FLOOR
NAPKIN DISPOSAL IN FRONT OF TOILET	BETWEEN TOILET PAPER DISPENSER AND REAR WALL
DISPENSER OR MIRROR HEIGHT	40" MAX.
LAVATORYSINK TOP HEIGHT	34" MAX.
LAVATORYSINK KNEE CLEARANCE	29" MAX.
URINAL LIP HEIGHT	17" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.
DRINKING FOUNTAIN BUBBLER HEIGHT	38" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.
RAMP/STAIR HANDRAIL HEIGHT	34"-38"

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architect

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COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

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drawn by: Z. WEN checked by: T. HALL

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rev:	date:	description:
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3	12/31/19	Addendum 4

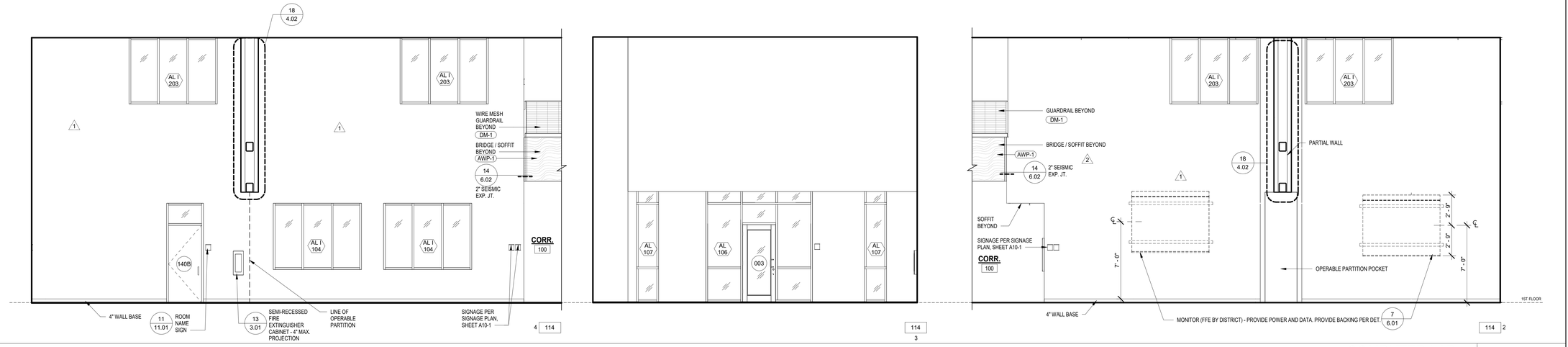
drawing title:

ENLARGED TOILET RM. PLANS & ELEVS. - 2ND FLR

drawing no.:

A7-2

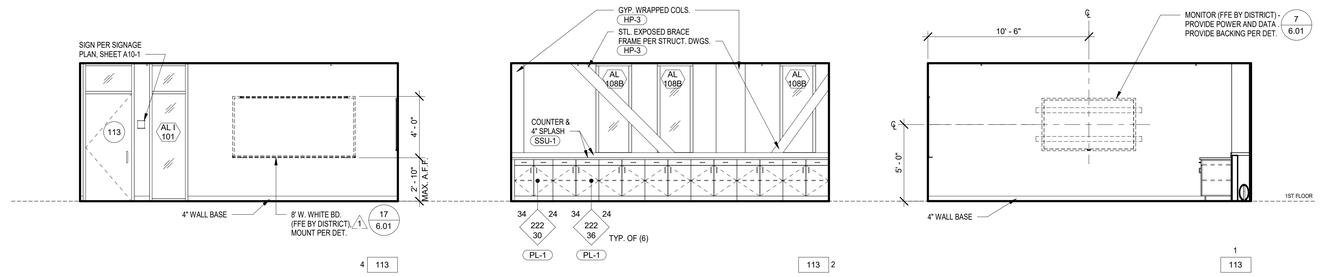
drawing of



COMPUTER LAB

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

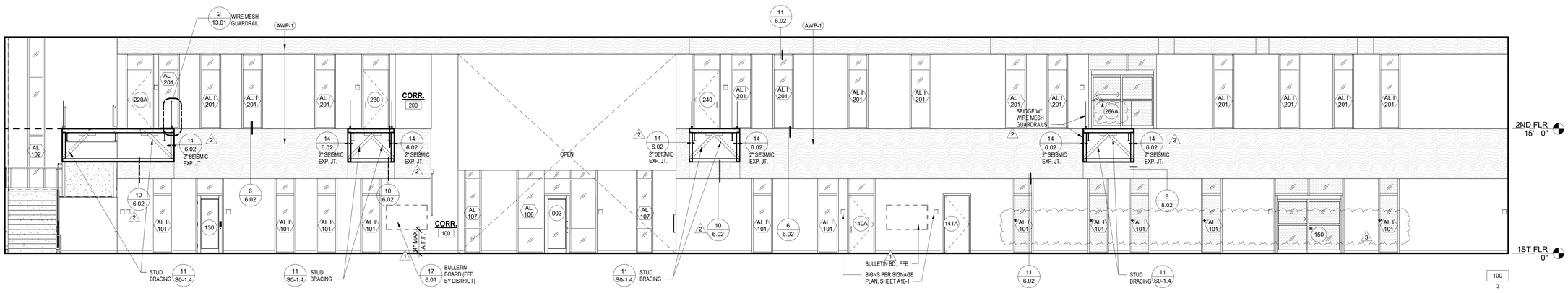
114

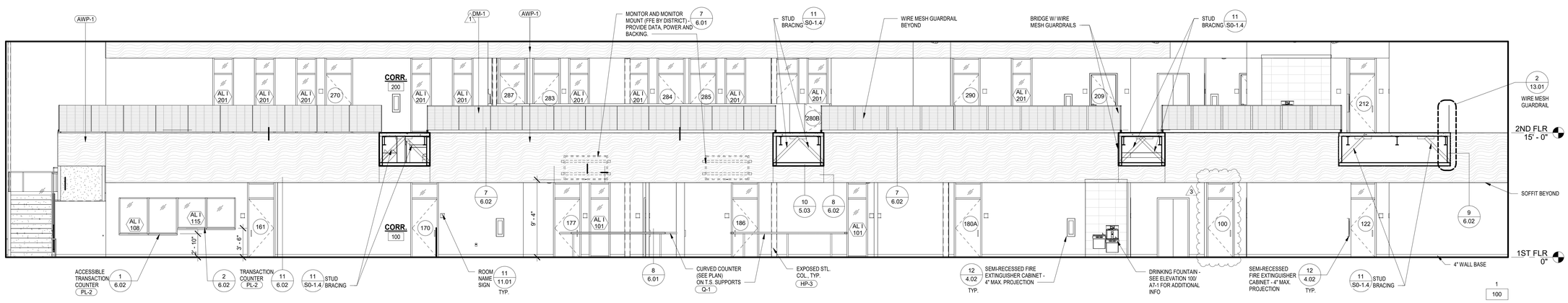


CONFERENCE

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

113





CORRIDOR

SCALE: 3/16"=1'-0"

100, 200

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3	12/31/19	Addendum 4

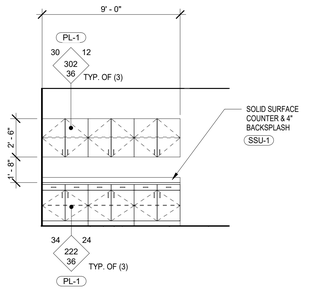
drawing title:

INTERIOR ELEVATIONS

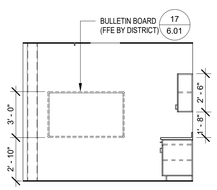
drawing no.:

A9-1

drawing of



4 141 PARTIAL ELEVATION



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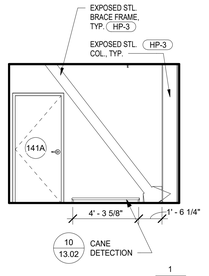
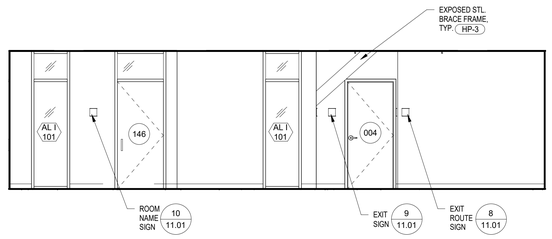
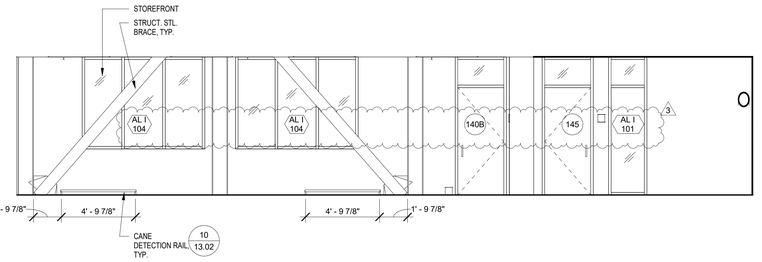


1 141

STOR. / WORKROOM
SCALE: 1/4"=1'-0" — 141



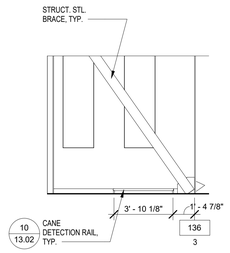
140 3



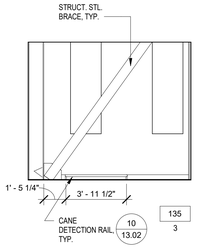
140 2

SSSP / WELCOME CENTER / OUTREACH
SCALE: 1/4"=1'-0" — 140

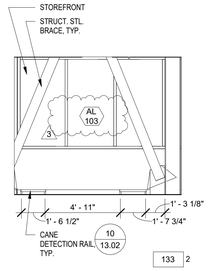
2



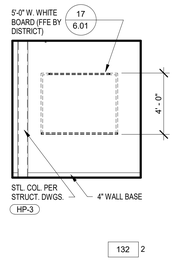
FOOD STOR.
SCALE: 1/4"=1'-0" — 136



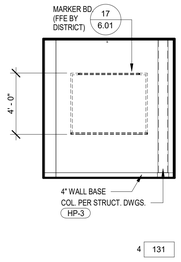
STORAGE
SCALE: 1/4"=1'-0" — 135



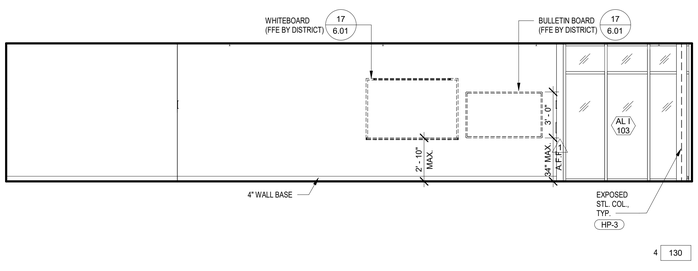
PROG. MNGR.
SCALE: 1/4"=1'-0" — 133

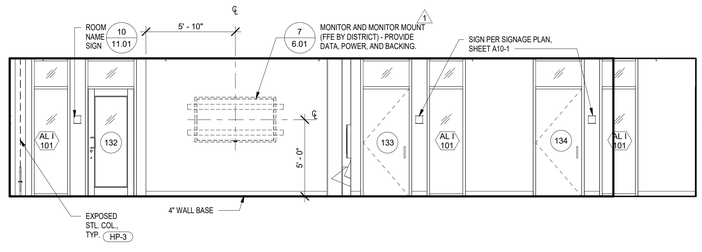


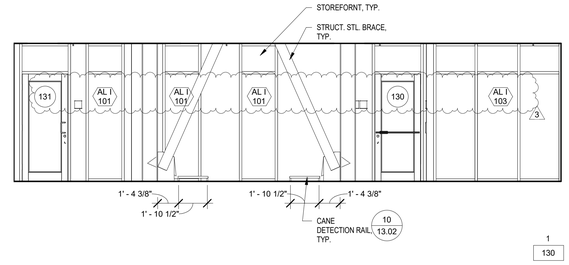
STUDY
SCALE: 1/4"=1'-0" — 132



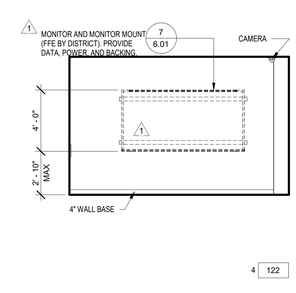
STUDY
SCALE: 1/4"=1'-0" — 131

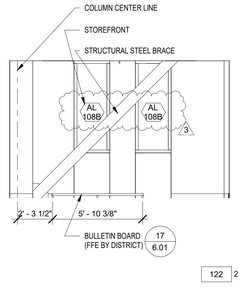




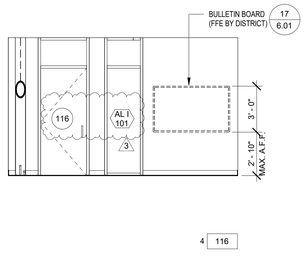


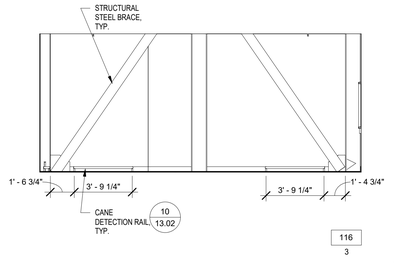
TRIO OPEN OFFICE
SCALE: 1/4"=1'-0" — 130

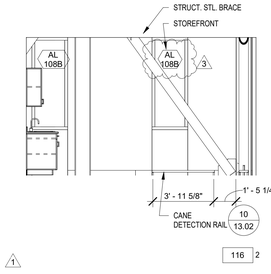


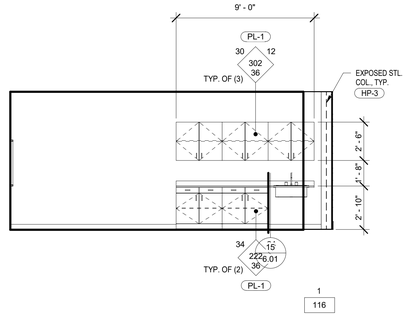


TESTING CENTER
SCALE: 1/4"=1'-0" — 122









INNOVATION CENTER
SCALE: 1/4"=1'-0" — 116

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architect

consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
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COMPTON, CA 90221

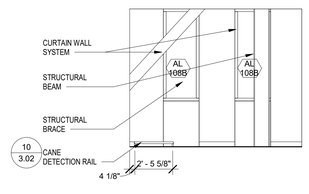
owner

tBP project number: 20987.00
file name: CC_SS_Central.RVT
drawn by: Z. WEN checked by: T. HALL
date: 9.3.2019

rev:	date:	description:
1	11/20/19	Addendum 1
2	12/11/19	Addendum 2
3	12/31/19	Addendum 4

drawing title:
INTERIOR ELEVATIONS

drawing no.:
A9-2
drawing of



1 185

ASSOC. REGSTR. 185
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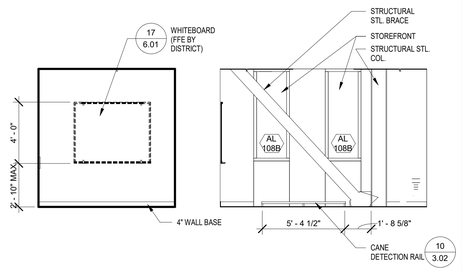
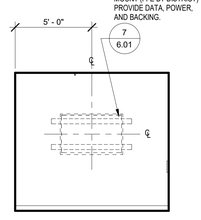


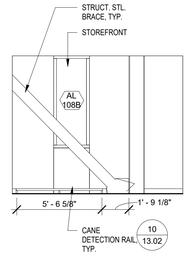
4 184 1 184

DIRECTOR 184
SCALE: 1/4"=1'-0"



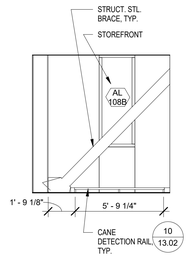
181 3

HUDDLE 181
SCALE: 1/4"=1'-0"



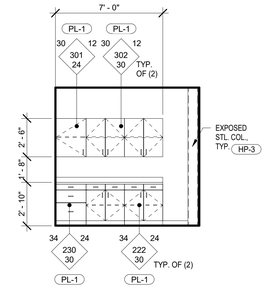
1 176

HOPE SUPRV. 176
SCALE: 1/4"=1'-0"



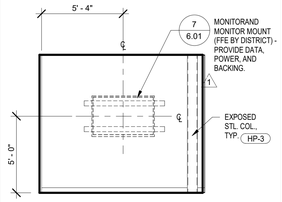
1 174

DIRECTOR 174
SCALE: 1/4"=1'-0"



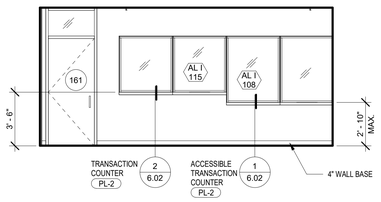
4 173

WORK/ STOR. 173
SCALE: 1/4"=1'-0"

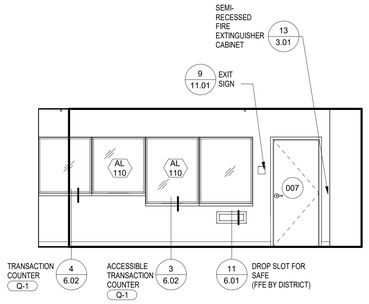


171 2

HUDDLE 171
SCALE: 1/4"=1'-0"

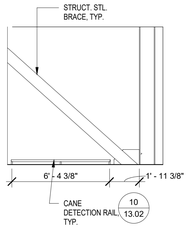


161 3



1 161

BURSAR OPEN OFFICE 161
SCALE: 1/4"=1'-0"



159 3

HIGH TECH STOR. 159
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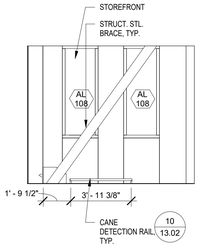
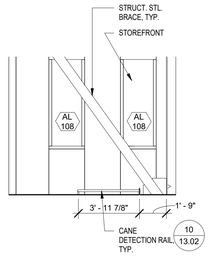


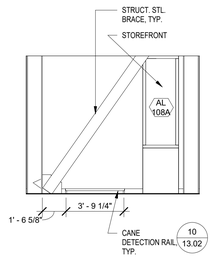
156 3

COUNS. 156
SCALE: 1/4"=1'-0"



155 3

ADJ. COUNS 155
SCALE: 1/4"=1'-0"



4 154

COUNS/ LD SPEC. 154
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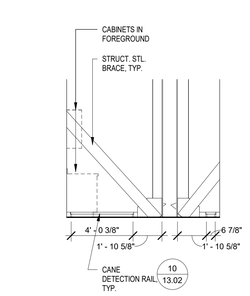

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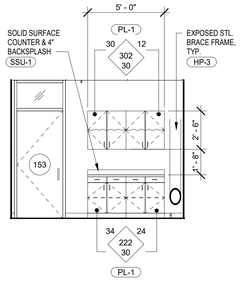

153 3

FILE 153
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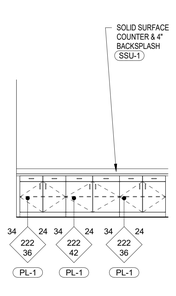

4 152

SUPPLY STOR. 152
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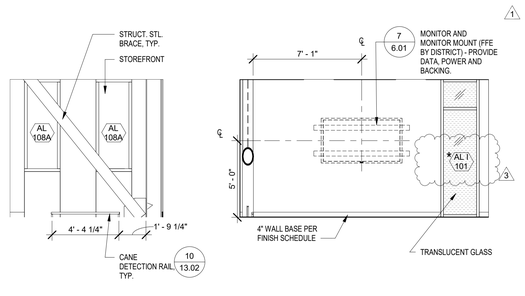
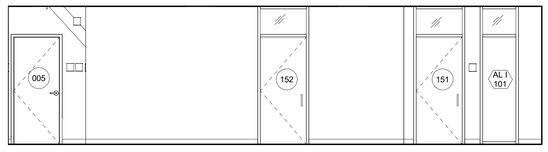


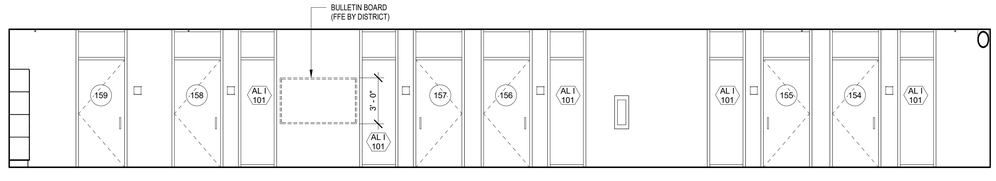
4 151 1 151

TUTOR 151
SCALE: 1/4"=1'-0"

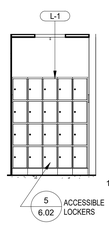


4 150

SRC OPEN OFFICE - CONTINUED 150
SCALE: 1/4"=1'-0"



150 3



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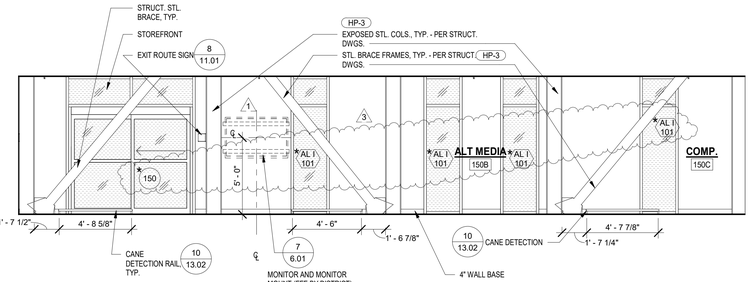
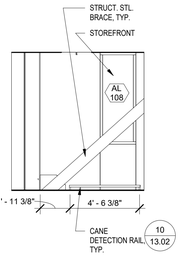


1 150

SRC OPEN OFFICE 150
SCALE: 1/4"=1'-0"



145 3

SSSP COORD 145
SCALE: 1/4"=1'-0"

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architect

consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

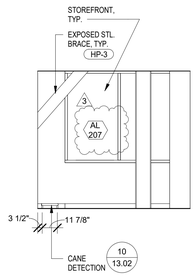
owner

tBP project number: 20987.00
file name: CC_SS_Central.RVT
drawn by: Z. WEN checked by: T. HALL
date: 9.3.2019

rev:	date:	description:
1	11/20/19	Addendum 1
2	12/11/19	Addendum 2
3	12/31/19	Addendum 4

drawing title:
INTERIOR ELEVATIONS

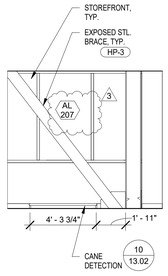
drawing no.:
A9-3
drawing of



4 253

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

253



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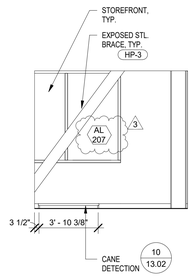
COUNS.
SCALE: 1/4"=1'-0"

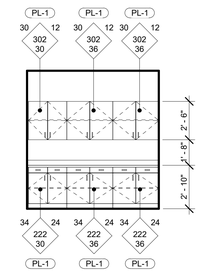
252



4 251

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

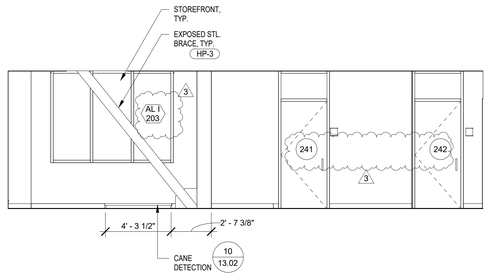
251



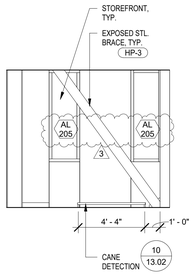
241 2

WORK/ STOR.
SCALE: 1/4"=1'-0"

241



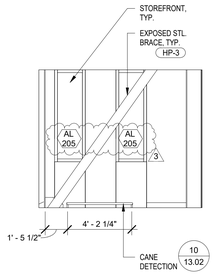
240 2



232
3

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

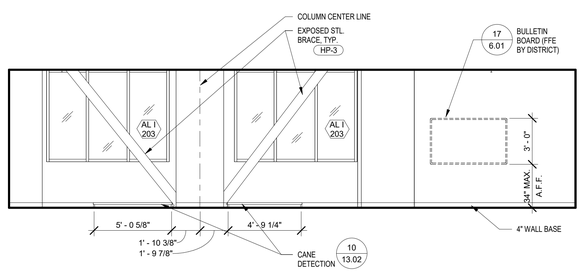
232



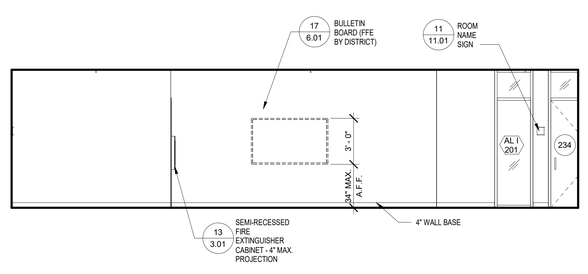
231
3

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

231



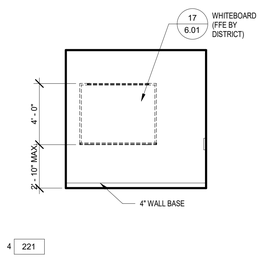
4 230



230 2

STUDENT EQUITY OPEN OFFICE
SCALE: 1/4"=1'-0"

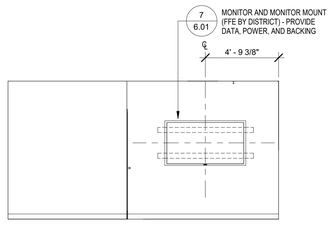
230



4 221

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

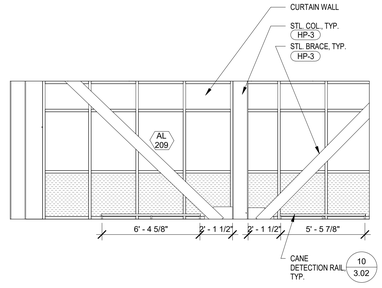
221



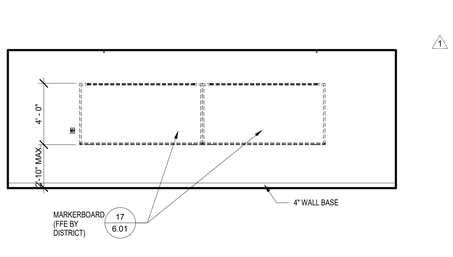
4 220

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

220



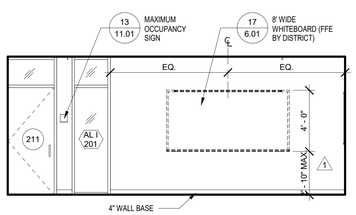
212 2



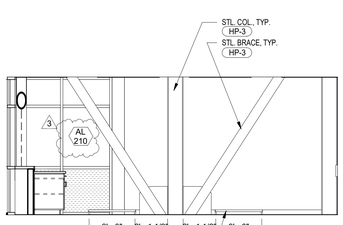
1
212

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

212



4 211



211
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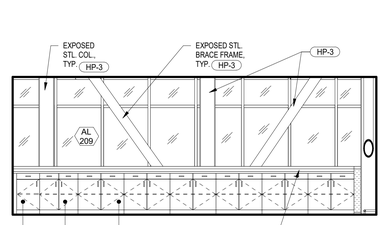
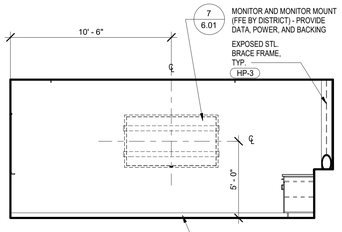


211 2



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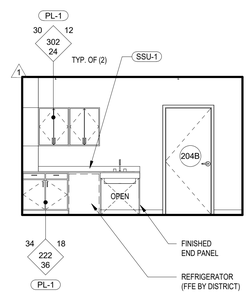
211

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

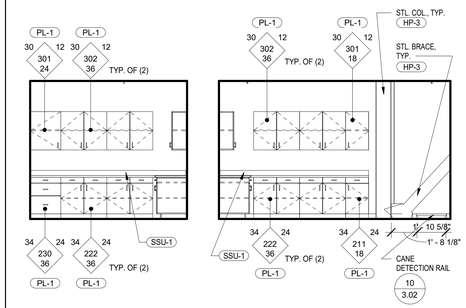
211



204 2

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

204



4 186

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186

WORK/ STOR.
SCALE: 1/4"=1'-0"

186

DIVISION OF THE STATE ARCHITECT
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owner

tBP project number: 20987.00

file name: CC_SS_Central.RVT

drawn by: Z. WEN checked by: T. HALL

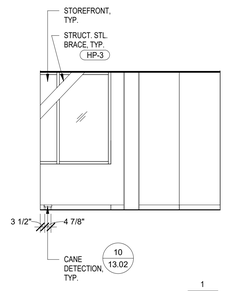
date: 9.3.2019

rev:	date:	description:
1	11/20/19	Addendum 1
2	12/11/19	Addendum 2
3	12/31/19	Addendum 4

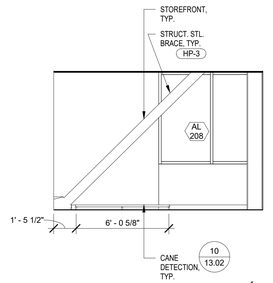
drawing title:
INTERIOR ELEVATIONS

drawing no.:
A9-4
drawing of

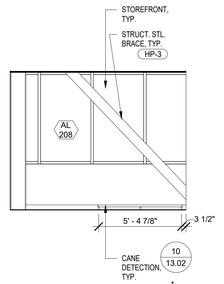
2



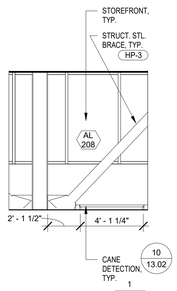
PRO TECH — SCALE: 1/4"=1'-0" — 293



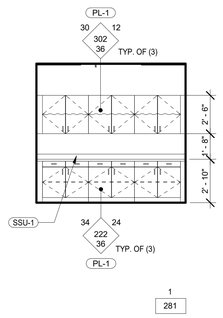
DIR. — SCALE: 1/4"=1'-0" — 287



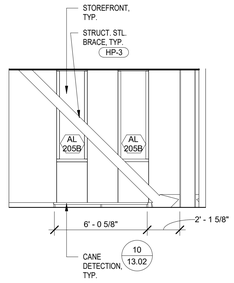
COUNS. (FT) — SCALE: 1/4"=1'-0" — 286



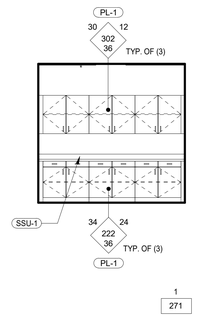
COUNS. (FT) — SCALE: 1/4"=1'-0" — 282



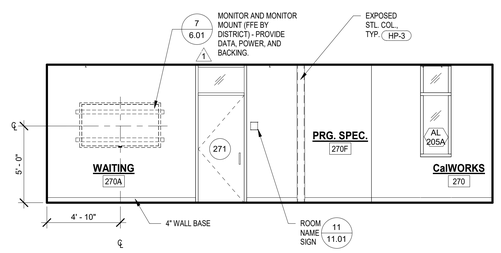
FILE/ STOR. — SCALE: 1/4"=1'-0" — 281



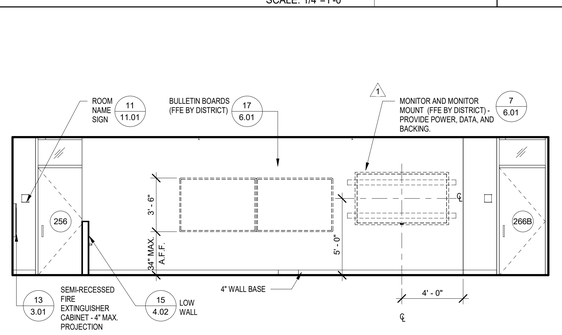
ADJ. COUNS. — SCALE: 1/4"=1'-0" — 274

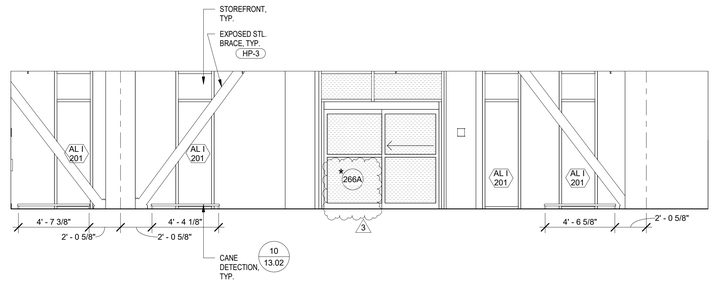


FILE/ STOR. — SCALE: 1/4"=1'-0" — 271

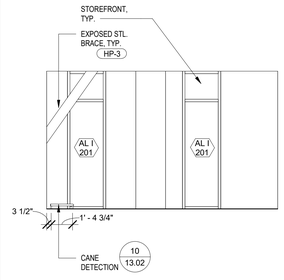


CALWORKS OPEN OFFICE — SCALE: 1/4"=1'-0" — 270

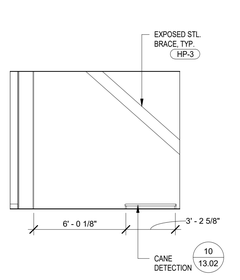




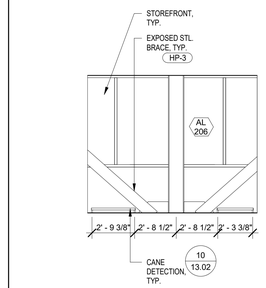
COUNSELING/ CAREER TRANSFER - OPEN OFFICE — SCALE: 1/4"=1'-0" — 266



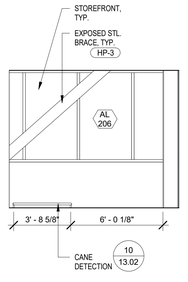
COMP. AREA — SCALE: 1/4"=1'-0" — 265



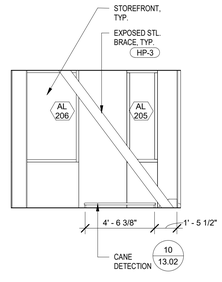
COUNS. COORD. — SCALE: 1/4"=1'-0" — 263



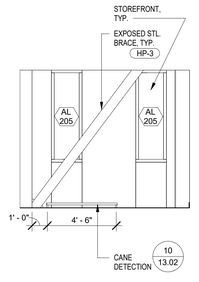
ADJ. COUNS — SCALE: 1/4"=1'-0" — 262



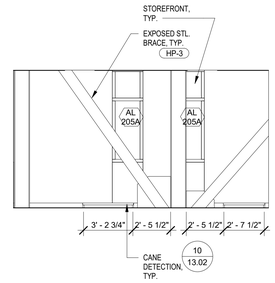
TRANS. COUNS. — SCALE: 1/4"=1'-0" — 261



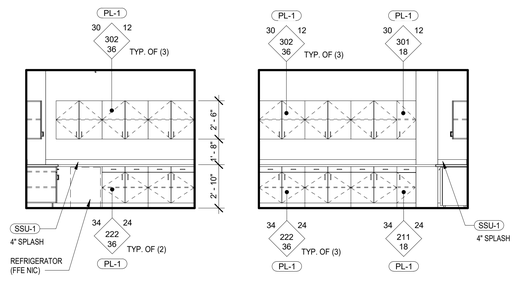
COUNS. — SCALE: 1/4"=1'-0" — 258



COUNS. — SCALE: 1/4"=1'-0" — 257



DEAN. OF COUN. — SCALE: 1/4"=1'-0" — 256



WORK/ STOR. — SCALE: 1/4"=1'-0" — 254

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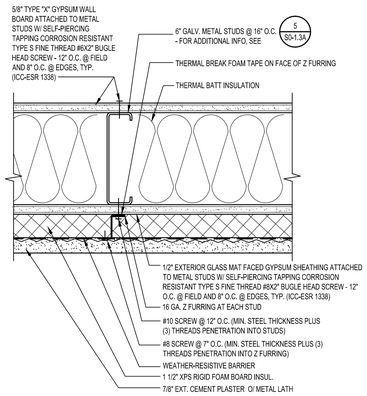
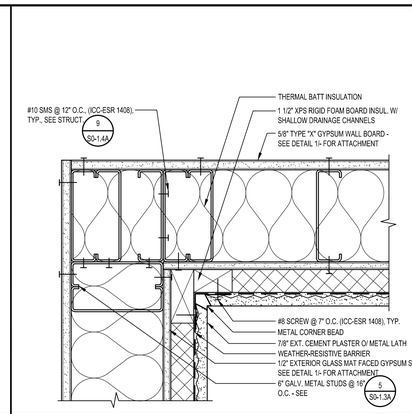
drawing no.:
A9-5
drawing of



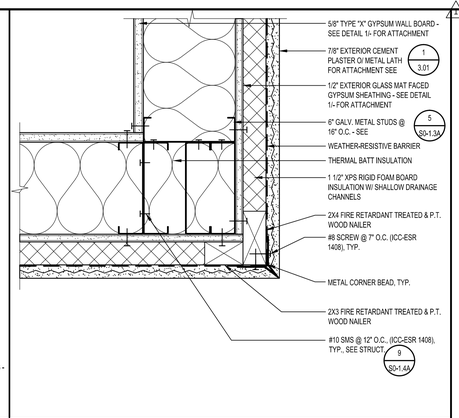
EXTERIOR CEMENT PLASTER WALL 1

SCALE: 3" = 1'-0"



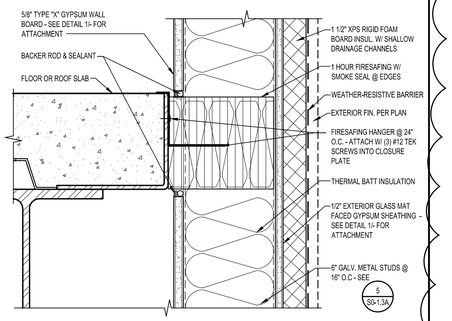
EXTERIOR PLASTER WALL - INSIDE CORNER 2

SCALE: 3" = 1'-0"



EXTERIOR PLASTER WALL - OUTSIDE CORNER 3

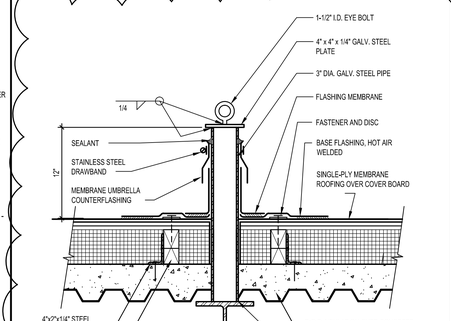
SCALE: 3" = 1'-0"



NOTES:
1. TYP. FIRE SAFING @ FLR. EDGE TERMINATING @ EXT. WALL
2. SEE STRUCT. DWGS. FOR STUD ATTACHMENT TO SLAB EDGE (15/S0-1.3A)

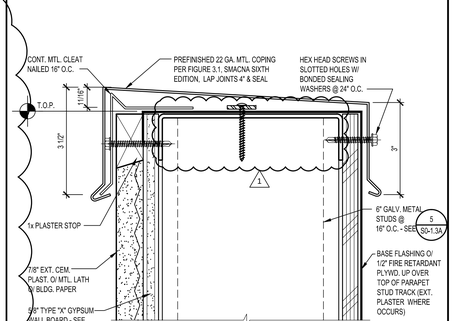
2ND. FLOOR SLAB @ EXT WALL 6

SCALE: 3" = 1'-0"



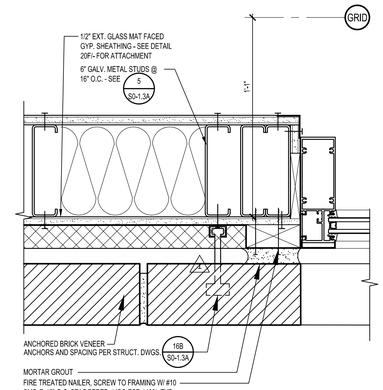
ROOF TIE-DOWN 7

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

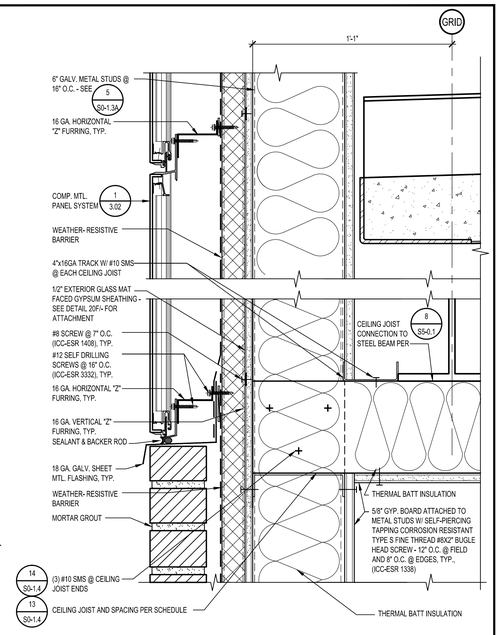


COPING - EXT. CEM. PLAST. PARAPET 8

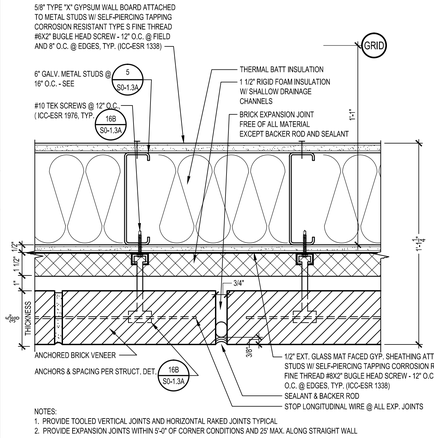
SCALE: HALF



20G BRICK VENEER WALL @ WINDOW JAMB

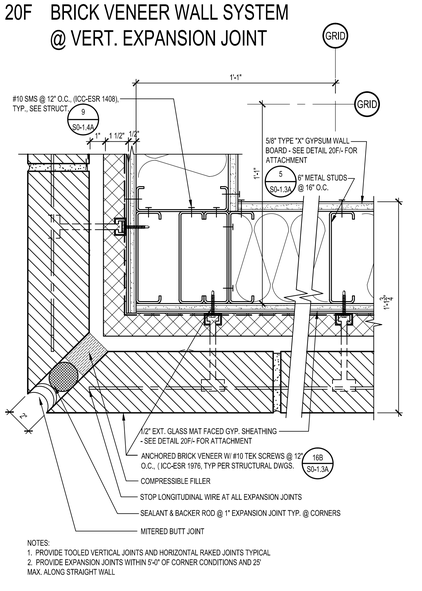


20D BRICK VENEER WALL @ METAL PANEL SOFFIT



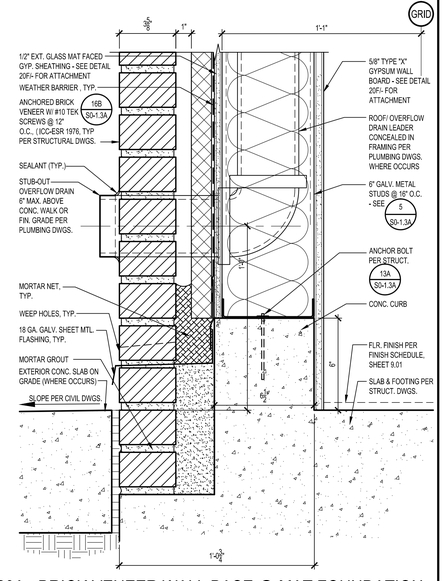
NOTES:
1. PROVIDE TOOLED VERTICAL JOINTS AND HORIZONTAL RAKED JOINTS TYPICAL
2. PROVIDE EXPANSION JOINTS WITHIN 5'-0" OF CORNER CONDITIONS AND 25' MAX. ALONG STRAIGHT WALL

20F BRICK VENEER WALL SYSTEM @ VERT. EXPANSION JOINT

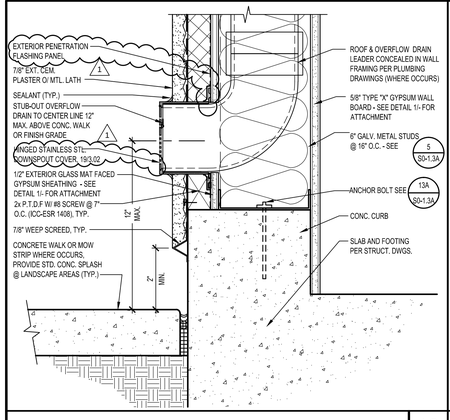


NOTES:
1. PROVIDE TOOLED VERTICAL JOINTS AND HORIZONTAL RAKED JOINTS TYPICAL
2. PROVIDE EXPANSION JOINTS WITHIN 5'-0" OF CORNER CONDITIONS AND 25' MAX. ALONG STRAIGHT WALL

20E BRICK VENEER WALL OUTSIDE CORNER

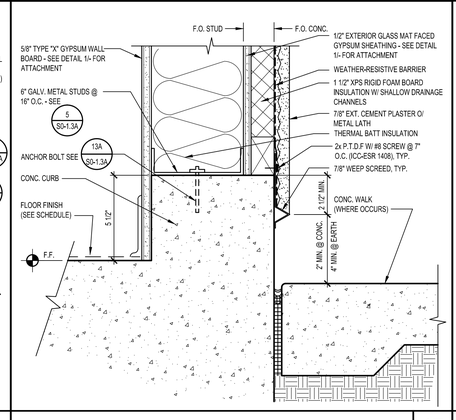


20A BRICK VENEER WALL BASE @ MAT FOUNDATION



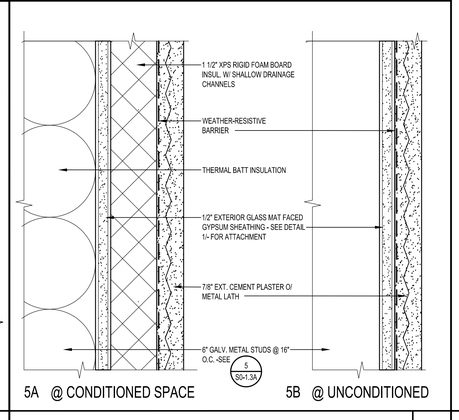
OVERFLOW DRAIN OUTLET

SCALE: 3" = 1'-0"



CURB AT EXTERIOR PLASTER WALL 17

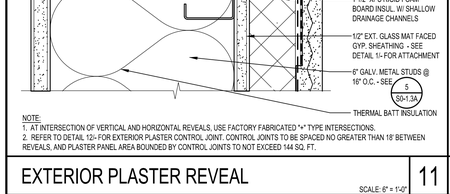
SCALE: 3" = 1'-0"



5A @ CONDITIONED SPACE — 5B @ UNCONDITIONED

EXTERIOR CEMENT PLASTER SYSTEM 18

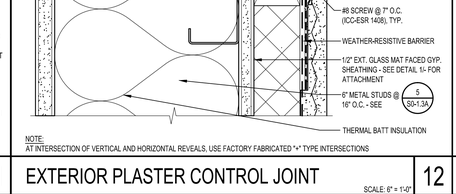
SCALE: HALF



NOTE:
1. AT INTERSECTION OF VERTICAL AND HORIZONTAL REVEALS, USE FACTORY FABRICATED "+" TYPE INTERSECTIONS.
2. REFER TO DETAIL 12/- FOR EXTERIOR PLASTER CONTROL JOINT. CONTROL JOINTS TO BE SPACED NO GREATER THAN 18' BETWEEN REVEALS, AND PLASTER PANEL AREA BOUNDED BY CONTROL JOINTS TO NOT EXCEED 144 SQ. FT.

EXTERIOR PLASTER REVEAL 11

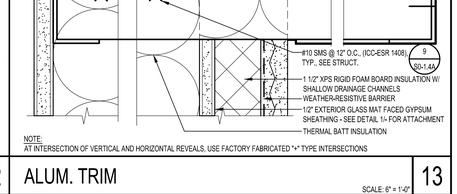
SCALE: 6" = 1'-0"



NOTE:
AT INTERSECTION OF VERTICAL AND HORIZONTAL REVEALS, USE FACTORY FABRICATED "+" TYPE INTERSECTIONS

EXTERIOR PLASTER CONTROL JOINT 12

SCALE: 6" = 1'-0"



NOTE:
AT INTERSECTION OF VERTICAL AND HORIZONTAL REVEALS, USE FACTORY FABRICATED "+" TYPE INTERSECTIONS

ALUM. TRIM 13

SCALE: 6" = 1'-0"

BRICK VENEER SYSTEM 20

SCALE: 3" = 1'-0"

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COMPTON, CA 90221

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tBP project number : 20987.00

file name: DTL-0301 EXT PLAST.DWG

drawn by: tBP checked by: T. HALL

date: 9.3.2019

Rev:	date:	description:
1	11/20/2019	ADDENDUM No. 1
2	12/31/2019	ADDENDUM No. 4

drawing title:

EXTERIOR WALL DETAILS

drawing no.:

3.01

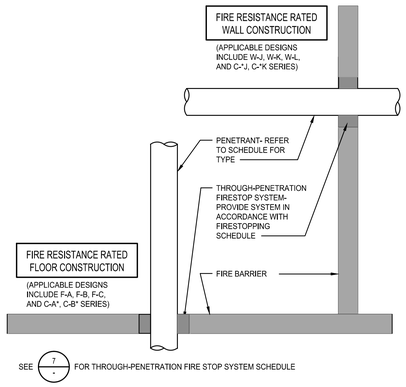
drawing 61 of

THROUGH-PENETRATION FIRESTOP SYSTEM SCHEDULE

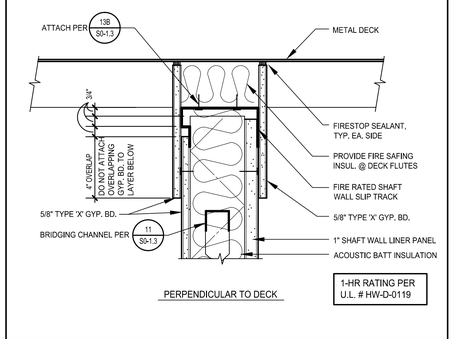
Firestop Systems Are Listed Using the Alpha-Alpha-Numeric identification System Published in UL's Fire Resistance Directory, Vol. 2

TYPE OF PENETRANT	CONSTRUCTION					
	FLOOR PENETRATION SYSTEMS (First Alpha Component = C or W)			WALL PENETRATION SYSTEMS (First Alpha Component = C or W)		
	Concrete Floors with a Minimum Thickness Less Than or Equal to 5 Inches	Concrete Floors with a Minimum Thickness Greater Than 5 Inches	Framed Floors	Concrete or Masonry Walls with a Minimum Thickness Less Than or Equal to 8 Inches	Concrete or Masonry Walls with a Minimum Thickness Greater Than 8 Inches	Framed Walls
NO PENETRATING ITEMS	C-AJ-0001-0999 OR F-A-0001-0999	C-BJ-0001-0999	X	C-AJ-0001-0999 OR C-BJ-0001-0999 OR W-J-0001-0999	X	W-L-0001-0999
METALLIC PIPE, CONDUIT, OR TUBING	C-AJ-1001-1999 OR F-A-1001-1999	C-BJ-1001-1999 OR C-BK-1001-1999 OR F-B-1001-1999	F-C-1001-1999	C-AJ-1001-1999 OR C-BJ-1001-1999 OR W-J-1001-1999	C-BK-1001-1999 OR W-K-1001-1999	W-L-1001-1999
NONMETALLIC PIPE, CONDUIT, OR TUBING	C-AJ-2001-2999 OR F-A-2001-2999	C-BJ-2001-2999 OR F-B-2001-2999	F-C-2001-2999	C-AJ-2001-2999 OR C-BJ-2001-2999 OR W-J-2001-2999	X	W-L-2001-2999
ELECTRICAL CABLES	C-AJ-3001-3999 OR F-A-3001-3999	C-BJ-3001-3999 OR F-B-3001-3999	F-C-3001-3999	C-AJ-3001-3999 OR C-BJ-3001-3999 OR W-J-3001-3999	X	W-L-3001-3999
CABLE TRAYS WITH ELECTRICAL CABLES	C-AJ-4001-4999 OR F-A-4001-4999	C-BJ-4001-4999	X	C-AJ-4001-4999 OR C-BJ-4001-4999 OR W-J-4001-4999	W-K-4001-4999	W-L-4001-4999
INSULATED PIPES	C-AJ-5001-5999 OR F-A-5001-5999	C-BJ-5001-5999	F-C-5001-5999	C-AJ-5001-5999 OR W-J-5001-5999	X	W-L-5001-5999
MISC. ELECTRICAL PENETRANTS	C-AJ-6001-6999 OR F-A-6001-6999	X	X	C-AJ-6001-6999	X	W-L-6001-6999
MISC. MECHANICAL PENETRANTS	C-AJ-7001-7999	X	F-C-7001-7999	C-AJ-7001-7999 OR W-J-7001-7999	X	W-L-7001-7999
GROUPINGS OF PENETRATIONS	C-AJ-8001-8999 OR F-A-8001-8999	C-BJ-8001-8999	F-C-8001-8999	C-AJ-8001-8999 OR C-BJ-8001-8999 OR W-J-8001-8999	X	W-L-8001-8999

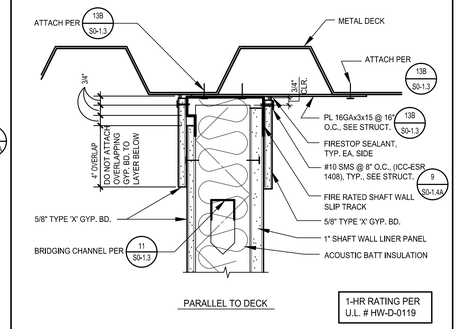
FOR EACH LOCATION WHERE A FIRE-RESISTANCE-RATED FLOOR OR WALL ASSEMBLY IS PENETRATED, PROVIDE A UL-LISTED THROUGH-PENETRATION FIRESTOP SYSTEM SELECTED FROM THE APPLICABLE UL NUMBER RANGE LISTED ABOVE THAT COMPLIES WITH SPECIFICATION SECTION 07 84 00 "THROUGH-PENETRATION FIRESTOP SYSTEMS' AND IS SUITABLE FOR THE PENETRATION CONDITIONS INDICATED FOR THE PROJECT.



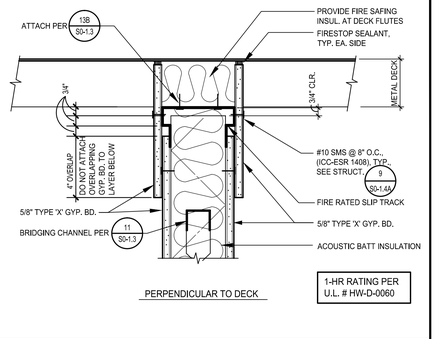
FIRESTOP SYSTEMS KEY — 3

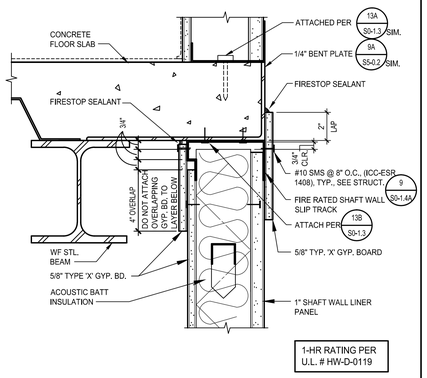


1-HR. SHAFTWALL TOP CONNECTION — SCALE: 3" = 1'-0" — 4

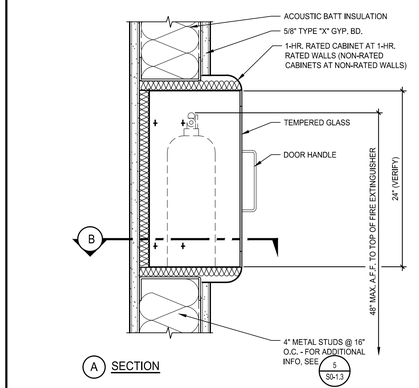


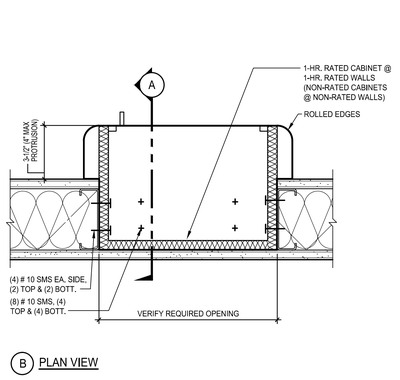
1-HR. PARTITION TOP CONNECTION — SCALE: 3" = 1'-0" — 5



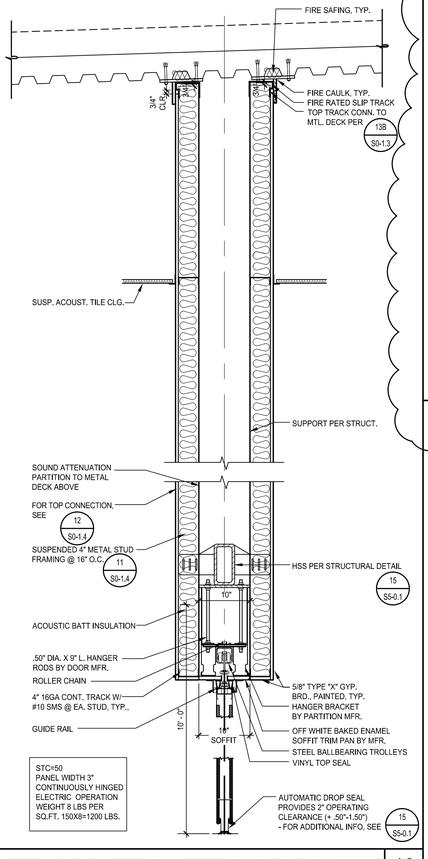


FIRESTOP SYSTEM SCHEDULE — 7

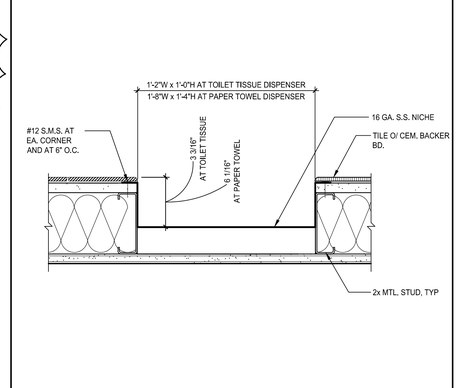




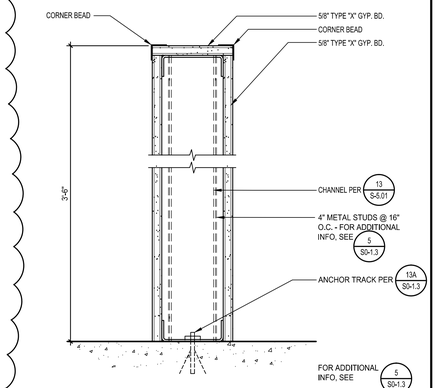
1-HR. RATED PARTITION @ ELEVATOR SHAFT — SCALE: 3" = 1'-0" — 8



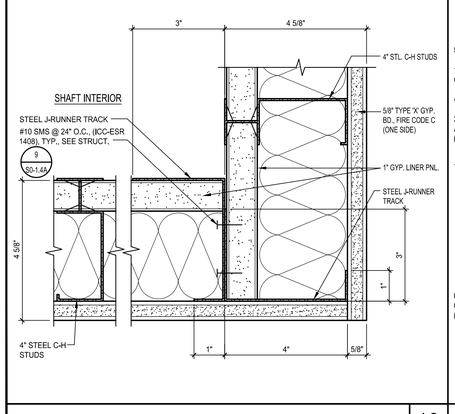
1-HR. SHAFTWALL TOP CONNECTION — SCALE: 3" = 1'-0" — 9

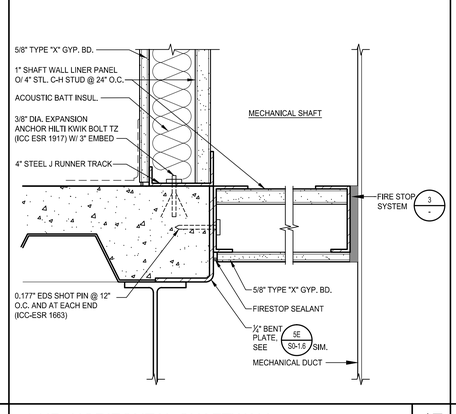


1-HR. PARTITION TOP CONNECTION — SCALE: 3" = 1'-0" — 10

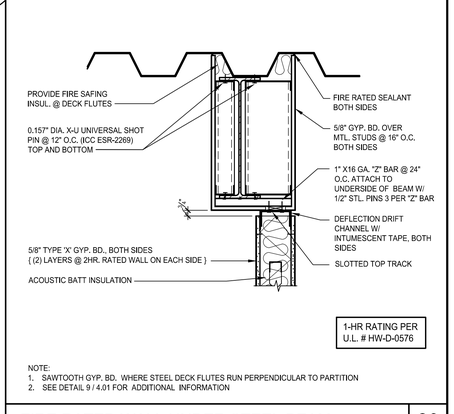


FIRE EXTINGUISHER CABINET IN METAL STUD PARTITION — SCALE: 3" = 1'-0" — 12





RECESSED NICHE — SCALE: 3" = 1'-0" — 14



SHAFT WALL CORNER DETAIL — SCALE: HALF — 16

1-HR. HORIZONTAL SHAFTWALL — SCALE: 3" = 1'-0" — 17

OPERABLE PARTITION VERTICAL SECTION — SCALE: 1" = 1'-0" — 18

FIRE RATED WALL UNDER STEEL BEAM — SCALE: 1-1/2" = 1'-0" — 20

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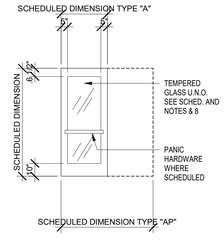
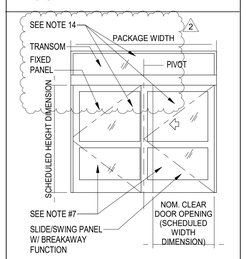
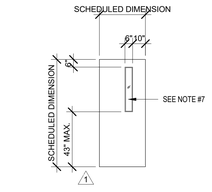
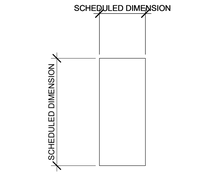
drawing title:
METAL STUD PARTITION FIRESTOP DETAILS

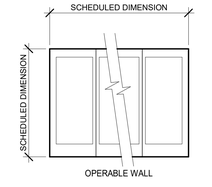
drawing no.:
4.02
drawing of











DOOR SCHEDULE

				DOOR			FRAME		DETAILS				ASSEMBLY FIRE RATING		SIGNAGE	
DOOR NO.	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	HEAD	TRANSOM	JAMB	TRESHOLD		REMARKS	TEXT	DETAIL
Exterior																
001	8' - 0"	7' - 6"		ALUM / GL	F		ALUM / GL	F						CARD READER, EMERGENCY BREAKOUT DOOR AND SIDELIGHT		
002	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	TRIO / EXIT	9 & 11/11.01
003	3' - 0"	7' - 0"	A	ALUM / GL	F		ALUM / GL	F								
004	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	WELCOME CENTER, EXIT	9 & 11/11.01
005	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	SRC, EXIT	9 & 11/11.01
006	8' - 0"	7' - 8"		ALUM / GL	F		ALUM / GL	F						CARD READER, EMERGENCY BREAKOUT DOOR AND SIDELIGHT		
007	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	BURSAR / EXIT	9 & 11/11.01
008	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	FINANCIAL AID, EXIT	9 & 11/11.01
009	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	MDF ROOM	11/11.01
010	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER	ELECTRICAL ROOM	11/11.01
011	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER	RESTROOMS / EXIT	9 & 11/11.01
012	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER	FIRE RISER	11/11.01
013	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	TESTING CENTER / EXIT	9 & 11/11.01
Interior																
100	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER, HOLD OPEN	EXIT ROUTE	8/11.01
102	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				JANITOR	11/11.01
103	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10			MEN'S RESTROOM	2 & 4/11.01
104	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10			WOMEN'S RESTROOM	1 & 3/11.01
105	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10			GENDER NEUTRAL RESTROOM	6 & 7/11.01
109	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10		CARD READER	WOMEN'S RESTROOM	1 & 3/11.01
110	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10		CARD READER	MEN'S RESTROOM	2 & 4/11.01
111	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				ELEVATOR MACHINE ROOM	11/11.01
113	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	CONFERENCE / EXIT ROUTE	8 & 11/11.01
116	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	INNOVATION CENTER/ EXIT ROUTE	8 & 11/11.01
122	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	TESTING CENTER / EXIT ROUTE	8 & 11/11.01
130	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	TRIO / EXIT ROUTE	8 & 11/11.01
131	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				STUDY / EXIT ROUTE	8 & 11/11.01
132	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				STUDY / EXIT ROUTE	8 & 11/11.01
133	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
134	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
135	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
136	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
140A	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	WELCOME CENTER / EXIT ROUTE	8 & 11/11.01
140B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	WELCOME CENTER / EXIT ROUTE	8 & 11/11.01
141A	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10			CARD READER	STORAGE	11/11.01
141B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
144	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
145	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
146	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
150	8' - 1"	7' - 0"	B	ALUM / GL	F		ALUM / GL	F						EMERGENCY BREAKOUT DOOR AND SIDELIGHT		
151	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				TUTOR / EXIT ROUTE	8 & 11/11.01
152	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
153	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
154	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
155	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
156	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
157	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
158	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
159	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
160	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				TESTING / EXIT	9 & 11/11.01
161	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	BURSAR / EXIT ROUTE	8 & 11/11.01
162	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	COUNTING	11/11.01
170	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	FINANCIAL AID / EXIT ROUTE	8 & 11/11.01
171	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
172	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				FILE / SCAN	11/11.01
173	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
174	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
175	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
176	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
177	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
180A	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	ADMISSIONS / EXIT ROUTE	8 & 11/11.01
180B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				ADMISSIONS / FINANCIAL AID	11/11.01
180C	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				ADMISSIONS / FINANCIAL AID	11/11.01
181	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
182	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10			CARD READER	RECORD VAULT	11/11.01
183	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				FILE	11/11.01
184	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
185	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
186	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
202	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10			WOMEN'S RESTROOM	1 & 3/11.01
203	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10			MEN'S RESTROOM	2 & 4/11.01
204A	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				LACTATION	11/11.01
204B	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				LACTATION	11/11.01
205	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				ELECTRICAL ROOM	11/11.01
206	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				IDF ROOM	11/11.01
207	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10		CARD READER	WOMEN'S RESTROOM	1 & 3/11.01
208	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10		CARD READER	MEN'S RESTROOM	2 & 4/11.01
209	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				JANITOR	11/11.01
211	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	CONFERENCE / EXIT	9 & 11/11.01
212	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	CLASSROOM / EXIT	9 & 11/11.01
220A	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	VRC LOUNGE / EXIT ROUTE	8 & 11/11.01
220B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				STUDENT EQUITY / EXIT ROUTE	8 & 11/11.01
221	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
230	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	STUDENT EQUITY / EXIT ROUTE	8 & 11/11.01
231	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
232	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
233	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
234	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
240	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	VP OF STUDENT SERVICES / EXIT ROUTE	8 & 11/11.01
241	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
242	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
251	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
252	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
253	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
254	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
255	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
256	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
257	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
258	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
259	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
260	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
261	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
262	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
263	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
264	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
265	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				COMPUTER ROOM	11/11.01
266A	7' - 10"	7' - 0"	B	ALUM / GL	F		ALUM / GL	F								
266B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				COUNSELING / EXIT ROUTE	8 & 11/11.01
266C	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				COUNSELING / VP OF STUDENT SERVICES	11/11.01
266D	3' - 0"	3' - 6"	D	SCN	F	WD-1	HM	PSG			10/8.10				COUNSELING	11/11.01
266E	3' - 0"	3' - 6"	D	SCN	F	WD-1	HM	PSG			10/8.10				COUNSELING	11/11.01
270	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	CAL WORKS / EXIT ROUTE	8 & 11/11.01
271	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
272	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
273	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
274	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
279	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10			CARD READER	COMPUTER / PRINT	11/11.01
280A	3' - 0"	3' - 6"	D	SCN	F	WD-1	HM	PSG			10/8.10				EOPS	11/11.01
280B	3' - 0"	3' - 6"	D	SCN	F	WD-1	HM	PSG			10/8.10				EOPS	11/11.01
281A	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
281B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
282A	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
282B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
283	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
284	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
285	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
286	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
287	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
288	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
289	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
290	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				FOSTER & KINSHIP CARE / EXIT ROUTE	8 & 11/11.01
291	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
292	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
293	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01

DOOR TYPES

DOOR TYPE A

DOOR TYPE B

DOOR TYPE C

DOOR TYPE D

DOOR TYPE E

NOTES

1. DOORS SHALL BE 1-3/4" THICK UNLESS NOTED OTHERWISE.
2. THE LETTER 'P' FOLLOWING THE 'DOOR TYPE' DESIGNATION IN THE DOOR SCHEDULE INDICATES PAIR OF DOORS. BOTH LEAVES ARE THE SAME SIZE, UNLESS NOTED OTHERWISE.
3. THE LETTER 'X' FOLLOWING THE 'DOOR TYPE' LETTER IN THE DOOR SCHEDULE INDICATES A FIXED PANEL ABOVE DOOR LEAF. SCHEDULE DIMENSION INCLUDES PANEL, UNLESS NOTED OTHERWISE.
4. FIXED PANELS SHALL BE OF THE SAME MATERIAL, CONSTRUCTION AND THICKNESS AS DOOR LEAF, AND SHALL BE PROVIDED BY THE SAME MANUFACTURER, UNLESS NOTED OTHERWISE.
5. THE LETTER 'L' FOLLOWING 'DOOR TYPE' DESIGNATION IN THE DOOR SCHEDULE INDICATES DOORS WITH LOUVERS. SEE DOOR TYPE FOR SIZE OF LOUVER.
6. LOUVERS IN EXTERIOR DOORS SHALL BE VANDAL-PROOF, SECURITY TYPE.
7. ALL GLAZING TO BE TEMPERED SAFETY GLAZING.
8. EXTERIOR DOOR REQUIREMENTS:

   ALL EXTERIOR DOORS IN BUILDINGS, INCLUDING, BUT NOT LIMITED TO DOORS OF TOILETS AND STORAGE ROOMS, SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.

   a. EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

   b. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FINISH FLOOR.

   c. DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.

   d. ALL ROOMS SERVING AN OCCUPANCY LOAD OF 50 OR GREATER AND DOORS LOCATED ON THE DISCHARGE OF EXIT CORRIDORS ARE REQUIRED TO BE PROVIDED WITH PANIC HARDWARE (CBC 1008.1.10).

   e. ALL FIRE DOOR LABELS SHALL COMPLY WITH CBC 715.4.6
9. FIRE ASSEMBLIES REQUIRED TO HAVE A ONE-HOUR FIRE-PROTECTION RATING SHALL BE EITHER AUTOMATIC OR SELF-CLOSING FIRE ASSEMBLIES TO BE ACTIVATED BY AN INCREASE IN TEMPERATURE SHALL HAVE HEAT-ACTIVATING DEVICES INSTALLED ON EACH SIDE OF THE WALL AT THE CEILING HEIGHT WHERE THE CEILING IS MORE THAN 3 FEET ABOVE THE TOP OF THE OPENING OR BY A SINGLE FUSSIBLE LINK IN THE OPENING INCORPORATED IN THE CLOSING DEVICE.
10. ALL FIRE-RESISTIVE ASSEMBLIES FOR PROTECTED OPENING SHALL COMPLY WITH SECTION 713 CBC.
11. SEE SPECIFICATION SECTION 08 71 00 FOR DOOR HARDWARE INDEX AND DOOR HARDWARE SETS.
12. FINAL ROOM NUMBERS AND NAMES FOR SIGNAGE ARE TO BE COORDINATED WITH THE COLLEGE.
13. FOR CARD READER MOUNTING HEIGHT, SEE DETAIL 7/ 8.10
14. WHERE ASTERISK IS SHOWN ON THE FLOOR PLAN ON INTERIOR ELEVATIONS ADJACENT TO WINDOW REFERENCE, A TRANSLUSCENT FILM SHALL BE APPLIED OVER THE ENTIRE WINDOW ON THE NO. 2 SURFACE.

ABBREVIATIONS

AFP	ACCORDION TYPE PARTITION
ALUM	ALUMINUM
AS	ACID STAIN
ATFD	ACCORDION TYPE FIRE DOOR
DEM PART	DEMOUNTABLE PARTITION
(E)	EXISTING
EP	EPOXY PAINT
F	FACTORY FINISH
FFD	FOLDING FABRIC DOOR
FFP	FOLDING PANEL PARTITION
FFWD	FOLDING PANEL WOOD DOOR
GL	GLASS
HCN	HOLLOW CORE NATURAL FINISH
HCP	HOLLOW CORE PAINT FINISH
HM	HOLLOW METAL
LAQ	LACQUER FINISH
MCN	MINERAL CORE NATURAL FINISH
MCP	MINERAL CORE PAINT FINISH
PE	PAINT EGGSHELL
PF	PAINT FLAT
PG	PAINT GLOSS
PSG	PAINT SEMI-GLOSS
S.	SEAL
SCN	SOLID CORE NATURAL FINISH
SCP	SOLID CORE PAINT FINISH
SCPL	SOLID CORE PLASTIC LAMINATE
STN	STAIN FINISH
SST	STAINLESS STEEL
STL	STL
UG	UNGLAZED
VF	VARNISH FINISH
W	WAX

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STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
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owner

tBP project number: 20987.00

file name: CC_SS_Central.RVT

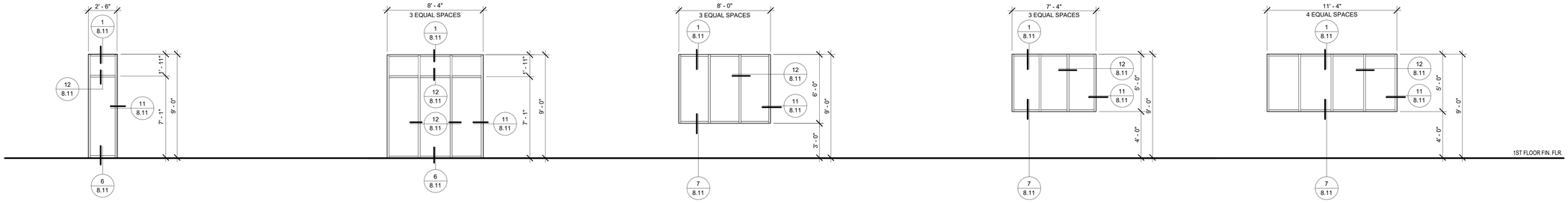
drawn by: Z. WEN checked by: T. HALL

date: 9.3.2019

rev:	date:	description:
1	11/20/19	Addendum 1
2	12/31/19	Addendum 4

drawing title:
DOOR SCHEDULE

drawing no.:
8.01
drawing of



SEE NOTE 3

AL I 101	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING 101A / CW 6.01
3. WHERE ASTERISK IS SHOWN ON THE FLOOR PLAN ON INTERIOR ELEVATIONS NEXT TO WINDOW REFERENCE, A TRANSLUCENT WINDOW FILM SHALL BE APPLIED OVER THE ENTIRE WINDOW ON THE NO. 2 SURFACE

1

AL I 103	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING 103A / CW 6.01

AL I 104	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

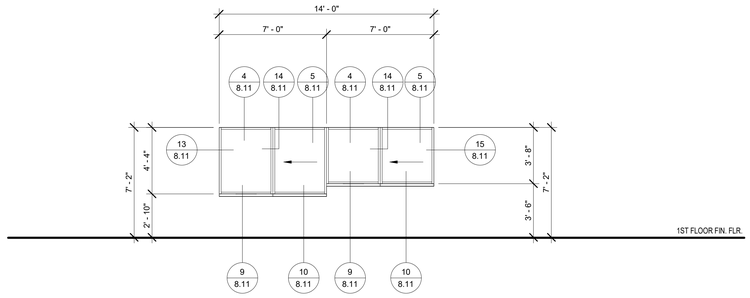
NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING 104A / CW 6.01

ALI 105	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING - / -

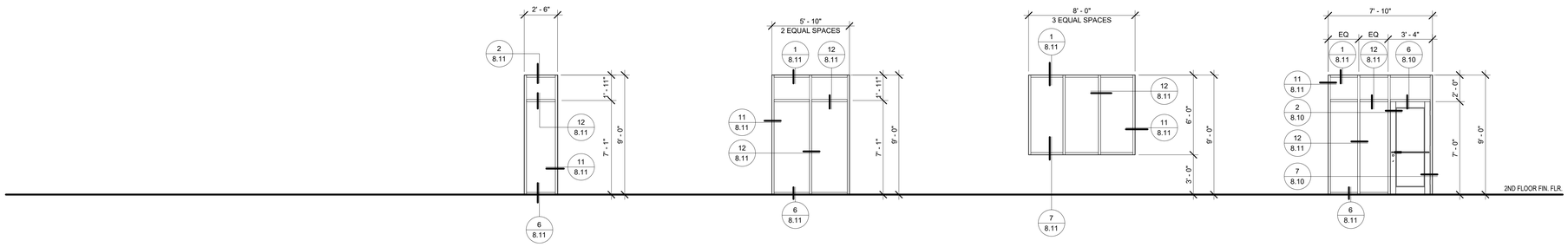
ALI 106	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING - / -



AL I 108	GLAZING TYPE	GL-3
	FRAME MATL.	2 1/8"x4" ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

AL I 115	GLAZING TYPE	GL-3
	FRAME MATL.	2 1/8"x4" ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1



AL I 201	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING 201 / CW 6.01

AL I 204	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING - / -

AL I 203	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING 203 / CW 6.01

ALI 205	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING - / -

SEE SHEET 8.53 FOR GLAZING SCHEDULE

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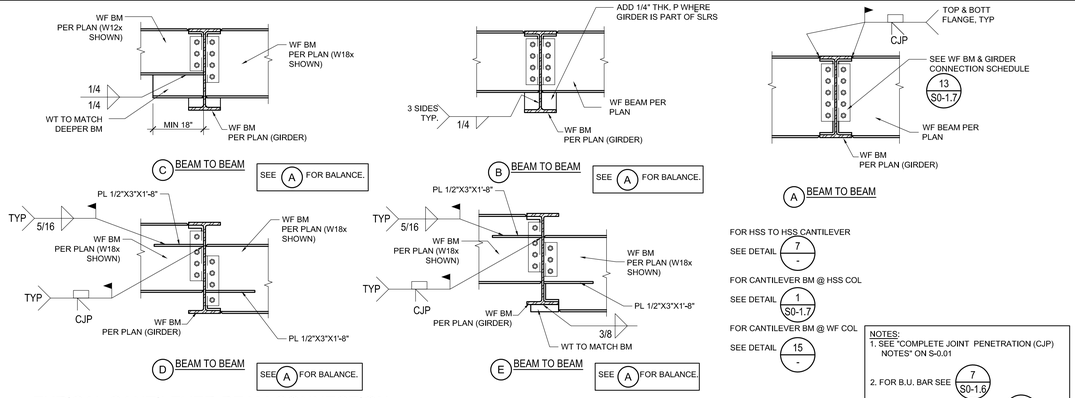
owner

tBP project number: 20987.00
file name: CC_SS_Central.RVT
drawn by: Z. WEN checked by: T. HALL
date: 9.3.2019

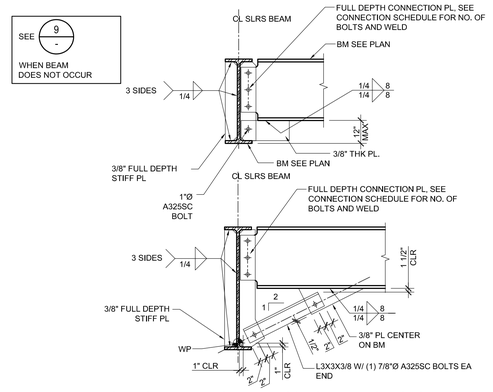
rev:	date:	description:
1	12/31/19	Addendum 4

drawing title:
WINDOW SCHEDULE - INTERIOR

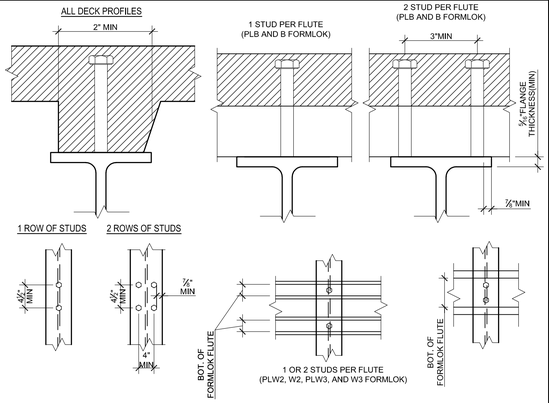
drawing no.:
8.51
drawing of

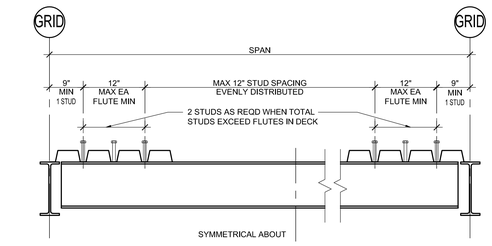


1 TYPICAL CANTILEVER BEAM CONNECTION
3/4" = 1'-0"



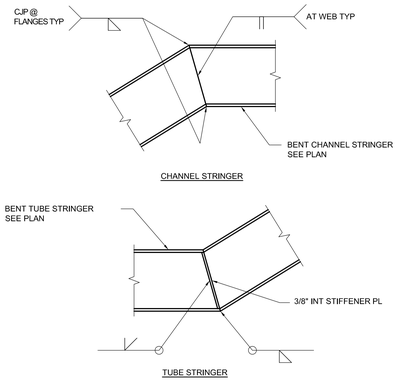
3 BEAM BOTTOM FLANGE BRACING DETAIL @ SLRS
3/4" = 1'-0"



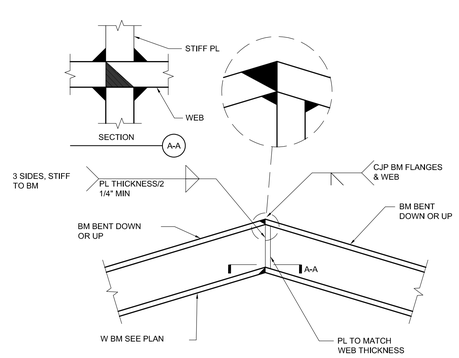


NOTES:
1. ALL WELDED STUDS SHALL BE 3/4"Ø x AS REQUIRED.
2. SPACE STUDS EVENLY ALONG LENGTH OF SPAN @ 12" (MAX) CENTERS.
3. DISTRIBUTE REMAINDER OF STUDS SYMMETRICAL FROM EACH END WITH ONE STUD EACH FLUTE, OR AT 6" O.C.
4. WHERE DECKING IS PARALLEL TO BEAM, DISTRIBUTE STUDS SYMMETRICALLY IN SIMILAR MANNER TO THAT SHOWN AND NOTED IN DETAIL ABOVE.
5. CUT DECKING AND PROVIDE GAP AS REQUIRED TO MAINTAIN STUD CENTERING. (ADD 16 GA. (MIN) CLOSURES AS REQUIRED).

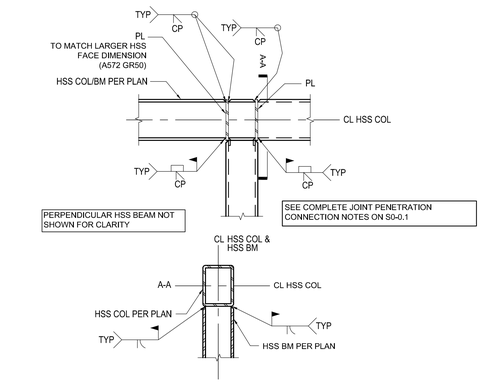
8 WELDED STUDS
1" = 1'-0"



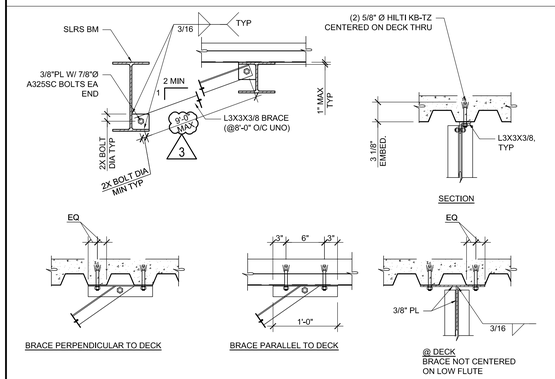
5 TYPICAL BENT STRINGERS
1" = 1'-0"



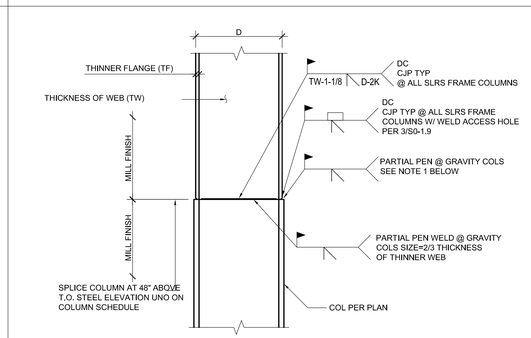
6 TYPICAL BENT BEAM
1" = 1'-0"



7 TYPICAL HSS MOMENT CONNECTION
NTS

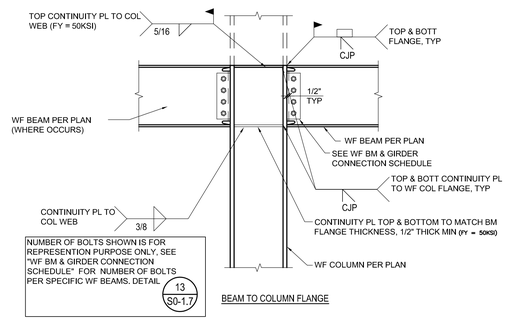


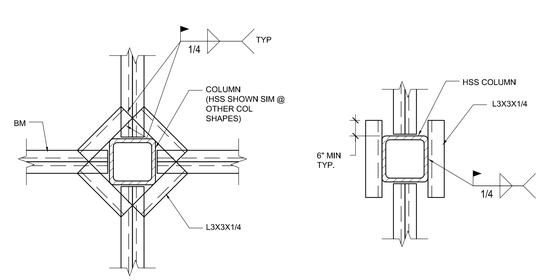
9 BEAM BOTTOM FLANGE BRACE DETAILS
1" = 1'-0"

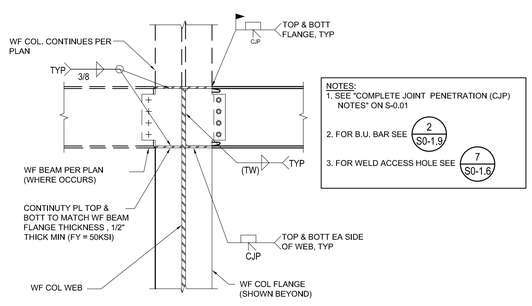


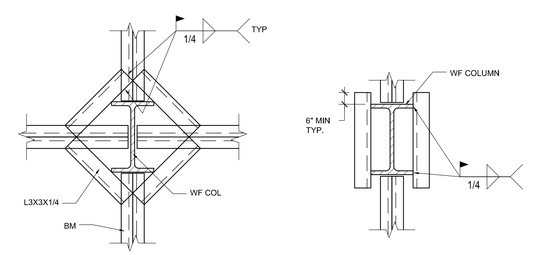
NOTES:
1. PARTIAL PEN WELD SIZE: $\sqrt{TF/6 + 1/8"}$ FOR TF < 1 1/4"; TF/2 FOR TF ≤ 1 1/4" UNO.
2. STEEL FABRICATOR TO DESIGN AND PROVIDE ALL REQUIRED ERRECTION PL'S.
3. FOR FINISH SURFACES AT COLUMN ENDS SEE AISC "CODE OF STANDARD PRACTICE" SECTION 6.2.2.

10 TYPICAL COLUMN SPLICE UNO
3/4" = 1'-0"

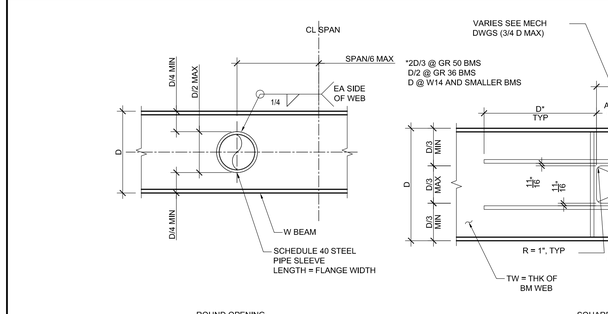








16 TYPICAL DECK SUPPORT AT COLUMN
NTS



NOTES:
1. THIS DETAIL MAY NOT BE USED WITHOUT PRIOR WRITTEN APPROVAL OF SEOR.
2. CONTINUITY PLATES AND STIFFENERS SHALL BE 1/2 FLANGE WIDTH; GRADE SHALL MATCH BASE BEAM.
3. FLANGE & STIFFENER NOT REQD FOR 4" SQ HOLES & LESS IN W12 OR DEEPER.
4. WHERE ROUND OPENINGS ARE D/6 OR LESS, REINFORCING SHOWN IS NOT REQUIRED.

13 TYPICAL HOLE THRU STEEL BEAM WEB
NTS

15 TYP CANTILEVER / MOMENT BEAM CONNECTION
NTS

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COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number : 20987.00
file name:
drawn by: tBP checked by: T. HALL
date: 9.3.2019

Rev:	date:	description:
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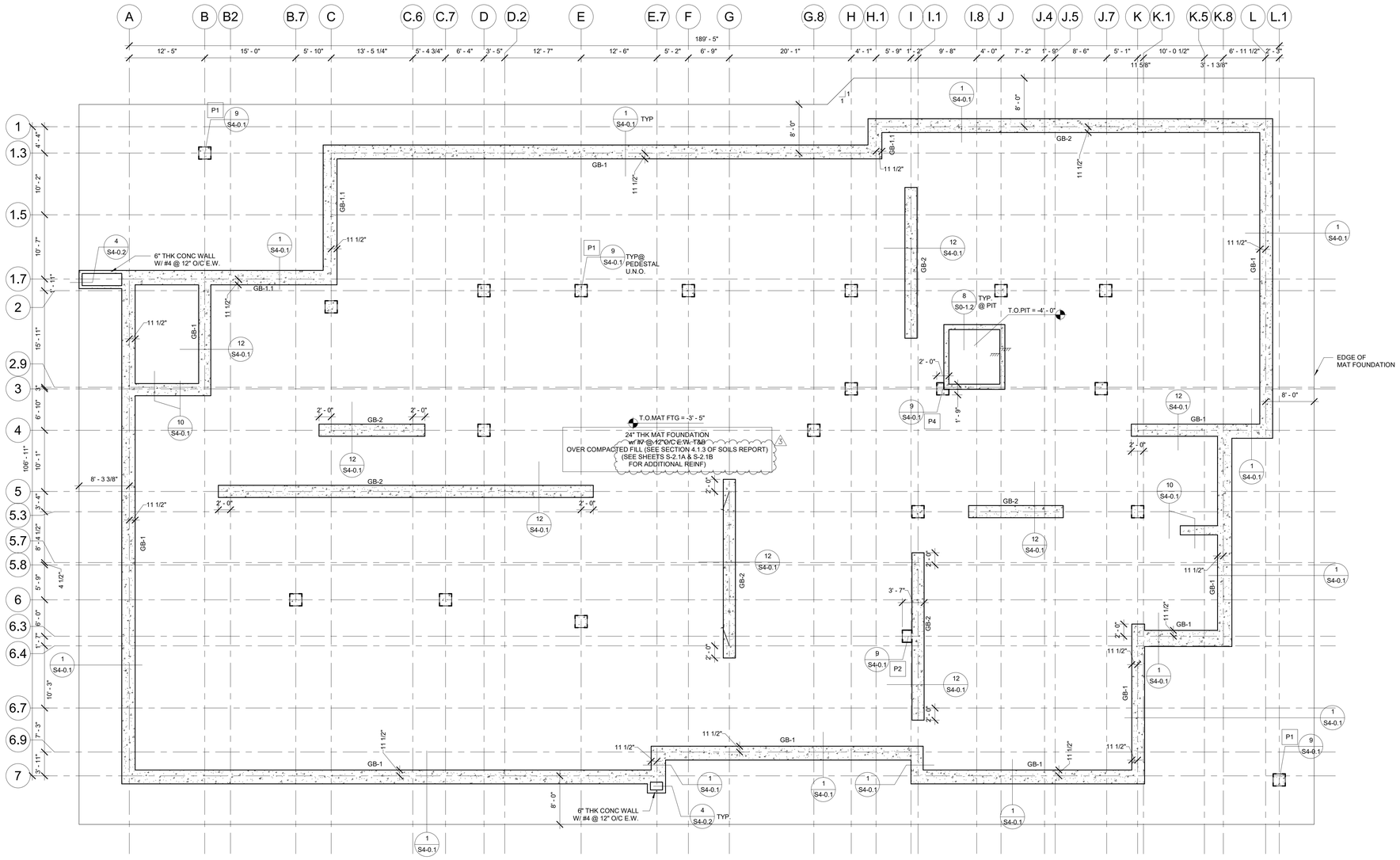
drawing title:
TYPICAL DETAILS

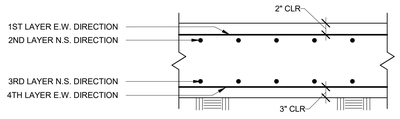
drawing no.:
S0-1.8
drawing of



1 MAT FOUNDATION PLAN

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

NORTH



MAT FTG REINF. LAYOUT

MAT FOUNDATION NOTES:

1. FOR GENERAL NOTES, SEE S0-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S0-1.0 SERIES.
3. DRAWING DATUM = 0'-0"; REF. ELEV. +/61.30' @ GROUND FLOOR FINISH FLOOR (SEE CIVIL & ARCH FOR ACTUAL ELEVATION).
4. UNDERGROUND UTILITY NOTE:
   CONTRACTOR SHALL COORDINATE ALL NEW AND EXISTING UTILITIES PRIOR TO ANY FOUNDATION WORK.
5. GB-# INDICATES GRADE BEAM. SEE GRADE BEAM SCHEDULE FOR ADDITIONAL INFO.
   GRADE BEAM TO BE CENTERED ON GRID-LINE UNLESS NOTED OTHERWISE.

MARK	MIN. WIDTH	DEPTH (MIN)	TOP BARS (SEE ELEV. FOR ADDT'L REBAR AT 2ND LAYER WHERE OCCURS)	BOTTOM BARS	TIES
GB-1	24"	53"	(3) #10	(3) #10	#4 @ 10"O/C
GB-1.1	24"	53"	(3) #10	(3) #10	#4 @ 6"O/C
GB-2	24"	53"	(3) #10	(6) #10	#4 @ 10"O/C

6. DENOTES STEP IN MAT SLAB.SEE DETAIL 12 / S0-1.2
7. P# DENOTES PILASTER. SEE DETAIL 9 / S4-0.2

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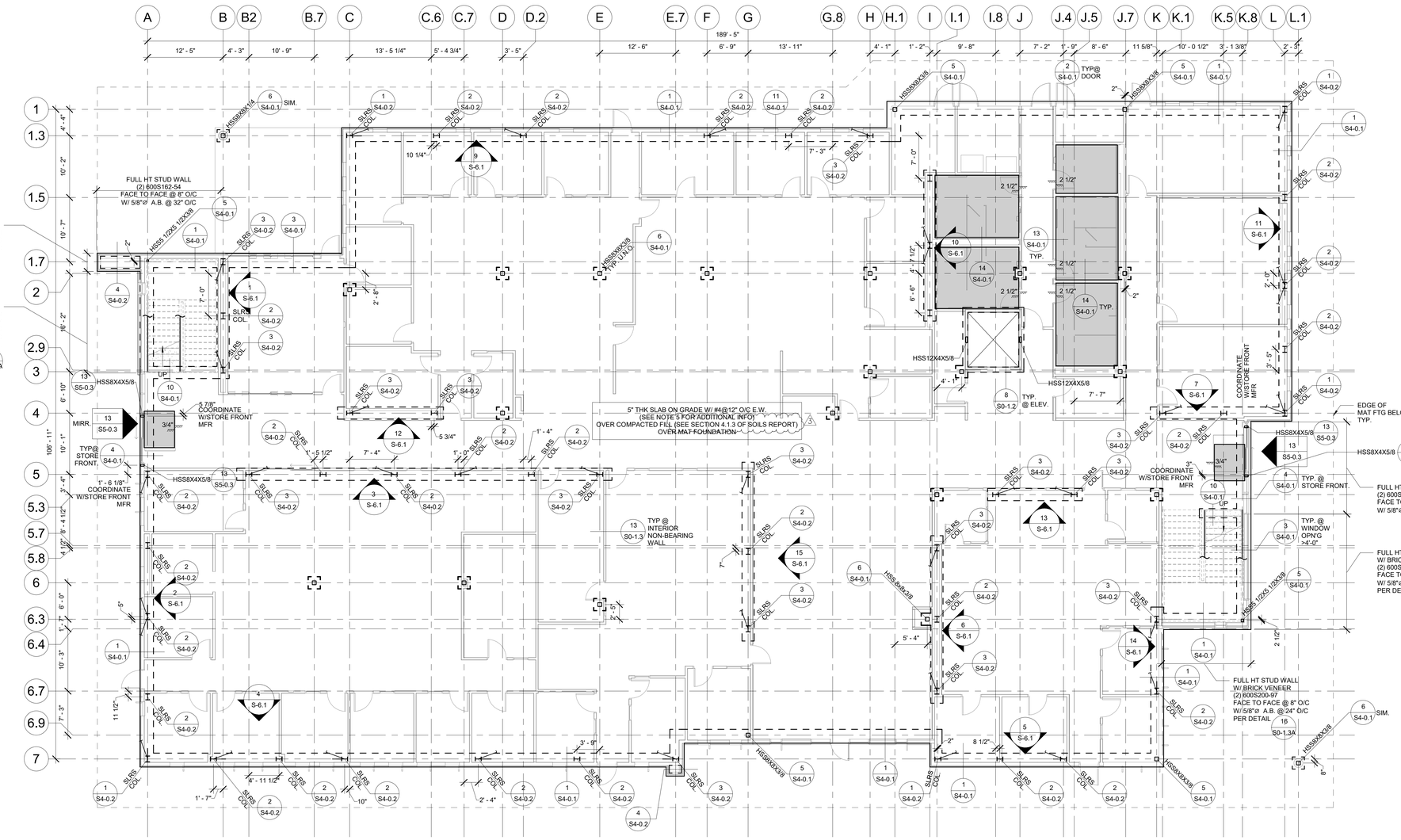
drawing title:
MAT FOUNDATION PLAN

drawing no.:
S-2.1
drawing of



1 GROUND SLAB PLAN

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

NORTH

FOUNDATION NOTES:

1. FOR GENERAL NOTES, SEE S0-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S0-1.0 SERIES.
3. SEE DETAIL ON SHEETS S0-1.3, S0-1.3A AND S0-1.4 FOR ALL INTERIOR METAL STUDS WALL CONSTRUCTION.
4. DRAWING DATUM = 0'-0"; REF. ELEV. +/61.30' @ GROUND FLOOR FINISH FLOOR (SEE CIVIL & ARCH FOR ACTUAL ELEVATION).
5. SLAB SHALL BE UNDERLAYED BY 15 MIL VAPOR BARRIER OVER 4" CLEAN AGGREGATE (OR 4" CLEAN SAND) OVER COMPACTED FILL. CONTACTOR TO PROTECT VAPOR BARRIER FROM PUNTURE.
6. NOT USED.
7. FOR GRAVITY BASE PLATE DETAIL CALLOUT, SEE DETAIL 2 / S0-1.7
8. FOR SLAB SAWCUT AND CONTROL JOINT, SEE DETAIL 16 / S0-1.1
9. UNDERGROUND UTILITY NOTE:
   CONTRACTOR SHALL COORDINATE ALL NEW AND EXISTING UTILITIES PRIOR TO ANY FOUNDATION WORK.
10. NOT USED.
11. INDICATES DEPRESSED SLAB. SEE DETAIL 9 / S0-1.1 REFER TO ARCHT'L DRAWINGS FOR ADDITIONAL INFORMATION.
12. SHOWS ELEVATION OF STEEL FRAME.
13. FOR SLRS COLUMNS ,REFER TO FRAME ELEVATIONS ON S-6.1 FOR ADDITIONAL INFORMATION.
14. DENOTES OCBF BRACE SEE FRAME ELEVATION ON S-6.1 FOR ADDITIONAL INFO.

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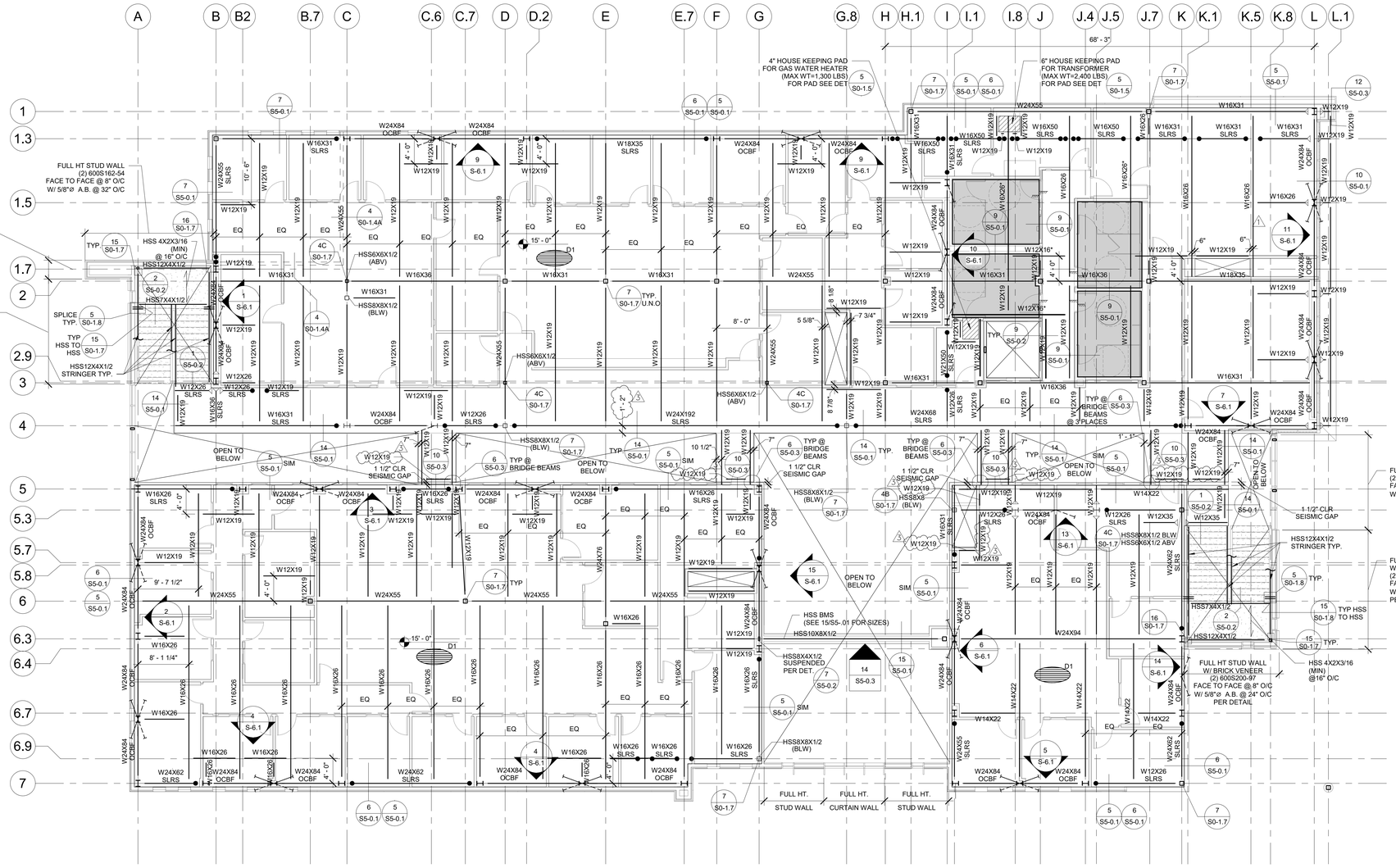
GROUND FLOOR SLAB PLAN

drawing no.:
S-2.2
drawing of



1 2ND FLOOR FRAMING PLAN

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

NORTH

FLOOR FRAMING NOTES:

1. FOR GENERAL NOTES, SEE S0-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S0-1.0 SERIES.
3. ALL STEEL BEAMS SHALL HAVE WELDED STUDS, SEE DETAIL 8/S0-1.8
4. METAL DECK W/ LT. WT. CONC. SEE (5 / S0-1.6) FOR ADDITIONAL INFORMATION.
5. TOS = 14'-6 1/2" TYP. UNO
6. FOR TYPICAL BEAM TO BEAM CONNECTIONS, SEE DETAIL (13 / S0-1.7)
7. CANTILEVER BEAM MOMENT CONNECTION SEE DETAIL (1 / S0-1.8)
8. HSS COLUMNS: SEE S-2.2 FOR SIZES NOT SHOWN.
9. BEAM SPLICE. SEE DETAIL (6 / S0-1.8)
10. INDICATES BOLT CONNECTION AT SLRS SEE DETAIL (12 / S0-1.7)
    INDICATES (3) ROWS OF A490SC, ●●●
    INDICATES (2) ROWS OF A490SC, ●●
    NDICATES (1) ROW OF A490SC, ●
11. INDICATES DEPRESSED SLAB. SEE DETAIL (3 / S0-1.6) REFER TO ARCHTL DRAWINGS FOR ADDITIONAL INFORMATION.
12. FOR BEAMS MARKED W/ "★" NEXT TO DESIGNATION, DENOTES DEPRESSED BEAM WITH WT SECTION ON TOP PER (8 / S0-1.7)
13. SHOWS ELEVATION OF STEEL FRAME
14. AT ALL SLRS BEAMS (DRAG BEAMS, SMRF BEAMS, OCBF BEAMS) PROVIDE BRACING PER (3 / S0-1.8) @ 8'-0" O/C MAX WHERE BEAM SPACING EXCEEDS 8'-0" PROVIDE ANGLE @8FT O/C MAX PER (9 / S0-1.8)
15. SEE ARCHT./LMEP DRAWINGS FOR ACTUAL LOCATIONS AND SIZE OF OPENINGS.
16. SECONDARY BEAMS SHALL BE SPACED EQUALLY UNLESS NOTED OTHERWISE.
17. DENOTES OCBF BRACE ABOVE (DASHED DENOTES BELOW) SEE FRAME ELEVATIONS ON S-6.1 FOR ADDITIONAL INFO.

METAL DECK SCHEDULE

DECK MARK	TYPE	GAGE	I (IN4/FT)	S (TOP +) (IN3/FT)	S (BOT -) (IN3/FT)	TOTAL DEPTH(IN)	CONC FILL TYPE	REINF.	WELDED STUDS
D1	VERCO W3 IAPMO 0212	18	1.213	0.752	0.768	5 1/2"	LWC	#3@12"O/C E.W.	3/4 DIAM. X 5" LONG @12"O/C
D2	VERCO W2 IAPMO 0212	18	1.213	0.752	0.768	4 1/2"	LWC	#3@12"O/C E.W.	3/4 DIAM. X 4" LONG @12"O/C

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SECOND FLOOR FRAMING PLAN

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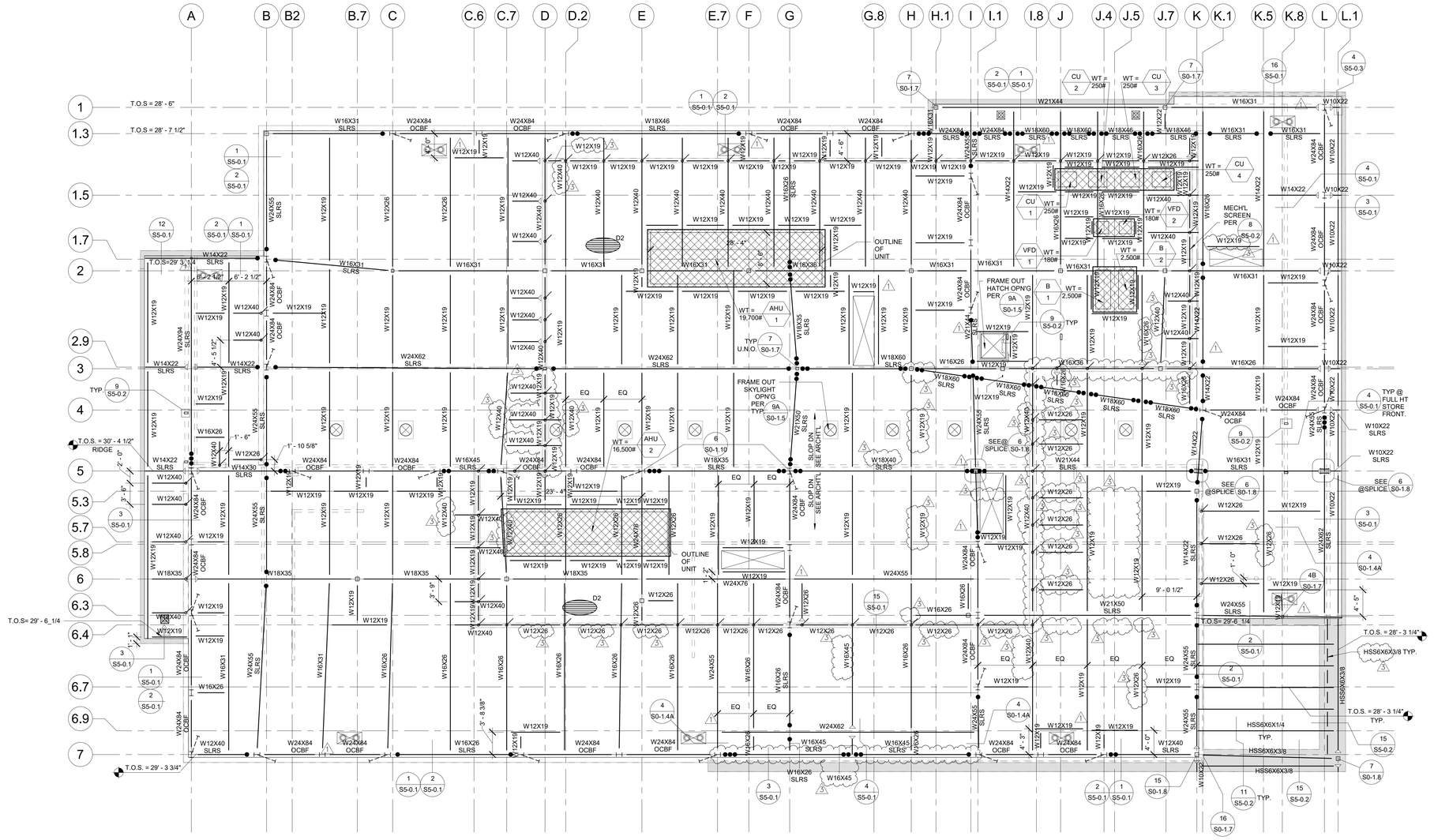
S-3.1
drawing of



1 ROOF FRAMING PLAN

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

NORTH

ROOF FRAMING NOTES:

1. FOR GENERAL NOTES, SEE S0-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S0-1.0SERIES.
3. NOT USED
4. ⬭ METAL DECK. SEE 1/S0-1.5 FOR ADDITIONAL INFORMATION.
5. TOS = VARIES. SEE PLAN & VERIFY WITH ARCHT'L DRAWINGS REFER TO ARCHT'L FOR ROOF SLOPES
6. FOR TYPICAL BEAM TO BEAM CONNECTIONS, SEE DETAIL 13/S0-1.7
7. ▷—— CANTILEVER BEAM MOMENT CONNECTION SEE DETAIL 1/S0-1.8
8. HSS COLUMNS: SEE S-2.2 FOR SIZES.
9. —‖— BEAM SPLICE. SEE DETAIL 6/S0-1.8
10. ●●—— INDICATES BOLT CONNECTION AT SLRS SEE DETAIL 12/S0-1.7
    - ●●● INDICATES (3) ROWS OF A490SC,
    - ●● INDICATES (2) ROWS OF A490SC,
    - ● NDICATES (1) ROW OF A490SC,
11. ▨ INDICATES APPROXIMATE LOCATION OF MECH UNIT CONC PAD. SEE DET. 9/S0-1.6 10/S0-1.6 REFER TO MECH AND ARCH DWGS FOR ADDITIONAL INFO.
12. ⊠ ⊗ ⊠ FRAME OPENING IN ROOF FOR SKYLIGHTS,SOLAR TUBES & ROOF DRAINS,ETC PER DETAIL 9/S0-1.5 U.N.O. SEE ARCHT'L/MEP DRAWINGS FOR ACTUAL LOCATIONS AND SIZE OF OPENINGS.
13. ⌀ INDICATES PIPE @ MECH SCREEN SEE DETAIL 8/S5-0.2
14. ALL STEEL BEAMS SHALL HAVE WELDED STUDS, SEE DETAIL 8/S0-1.8
15. AT ALL SLRS BEAMS (DRAG BEAMS, SMRF BEAMS, OCBF BEAMS) PROVIDE BRACING PER 3/S0-1.8 @ 8'-0" O/C MAX, WHERE BEAM SPACING EXCEEDS 8'-0" PROVIDE ANGLE @8FT O/C MAX PER 9/S0-1.8 △3

METAL DECK SCHEDULE

DECK MARK	TYPE	GAGE	I (IN4/FT)	S (TOP +) (IN3/FT)	S (BOT -) (IN3/FT)	TOTAL DEPTH(IN)	CONC FILL TYPE	REINF.	WELDED STUDS
D1	VERCO W3 IAPMO 0212	18	1.213	0.752	0.768	5 1/2"	LWC	#3@12"O/C E.W.	3/4 DIAM. X 5" LONG @12"O/C
D2	VERCO W2 IAPMO 0212	18	1.213	0.752	0.768	4 1/2"	LWC	#3@12"O/C E.W.	3/4 DIAM. X 4" LONG @12"O/C

16. SECONDARY BEAMS SHALL BE SPACED EQUALLY UNLESS NOTED OTHERWISE.
17. ⟋ DENOTES OCBF BRACE BELOW. SEE FRAME ELEVATIONS ON S-6.1 FOR ADDITIONAL INFO.
18. ⬡ #/# DENOTES MECH'L UNTIL WITH MAX WEIGHT. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION (UNITS THAT WEIGHT LESS THAN 200 LBS SEE MECH'L DRAWINGS)

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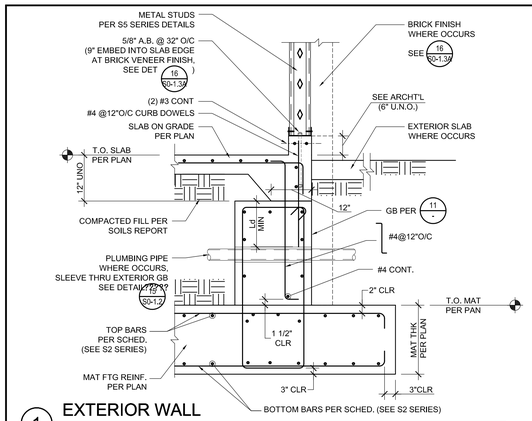
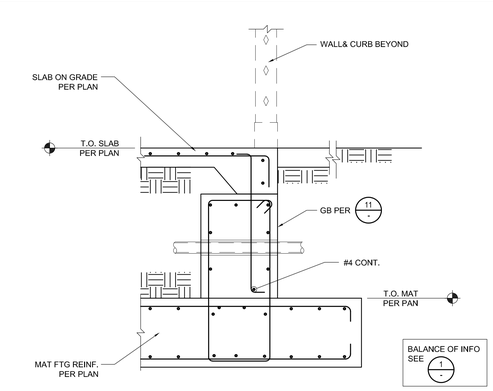
ROOF FRAMING PLAN

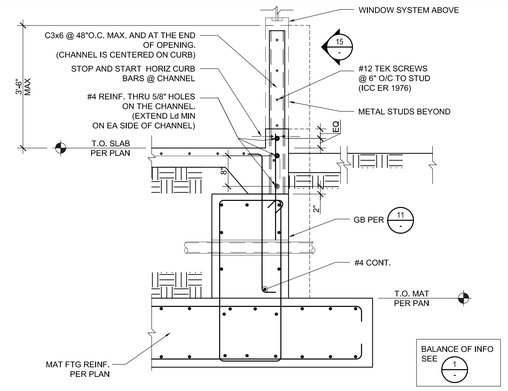
drawing no.:
S-3.2
drawing of



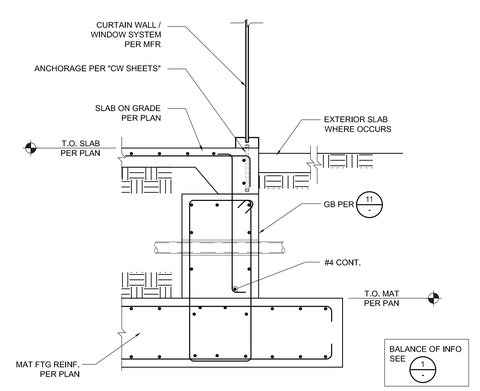
1 EXTERIOR WALL
NTS



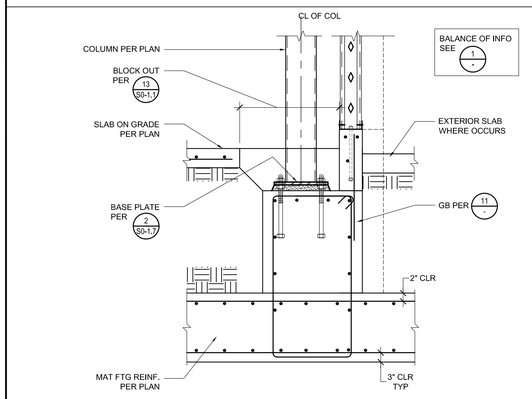
2 EXTERIOR WALL @ DOOR
NTS



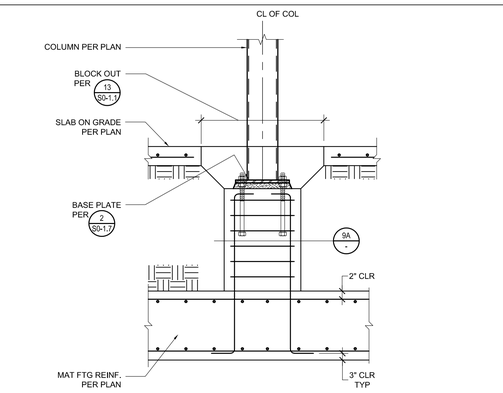
3 EXTERIOR WALL @ WINDOW
NTS



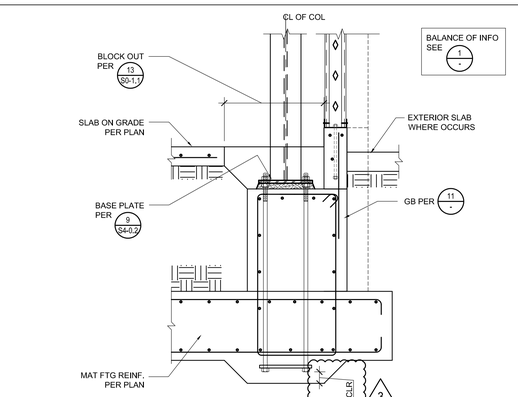
4 EXTERIOR WALL @ STOREFRONT
NTS



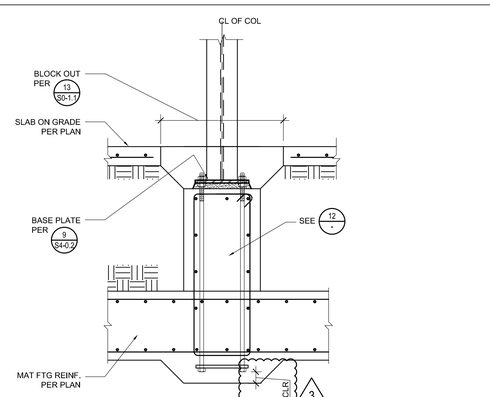
5 GRAVITY COL @ BLDG EXTERIOR
NTS



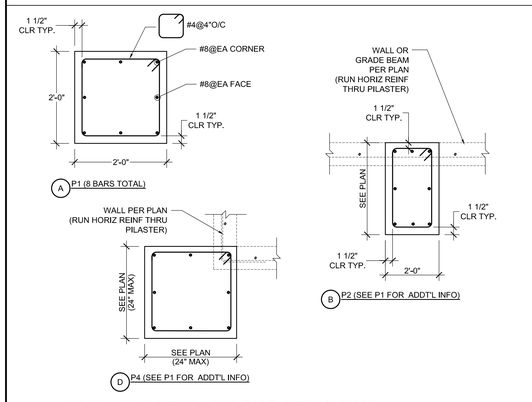
6 GRAVITY COL @ ISOLATED PILASTER
NTS



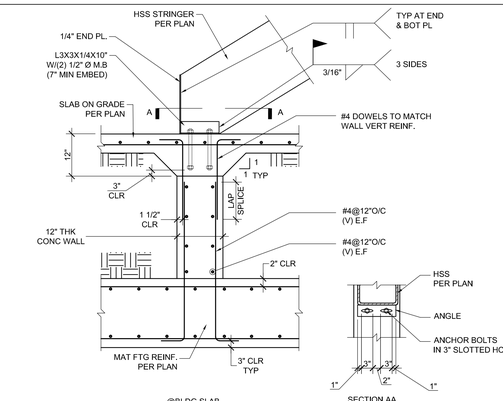
7 FRAME COL @ BLDG EXTERIOR
NTS



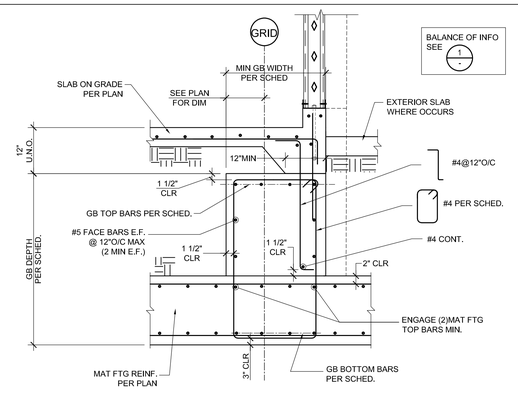
8 FRAME COL @ BLDG INTERIOR
NTS



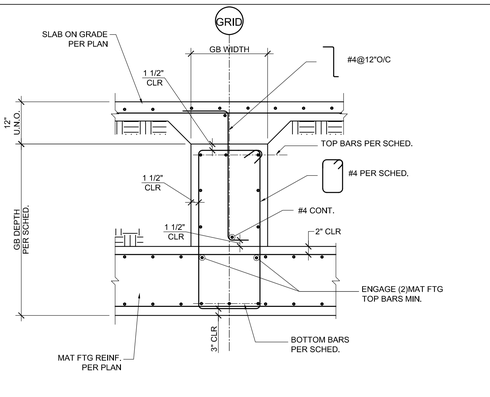
9 CONC PILASTER @ CONC STEM WALL
NTS



10 DETAIL
NTS



11 GRADE BEAM @EXTERIOR
NTS



12 GRADE BEAM @ INTERIOR
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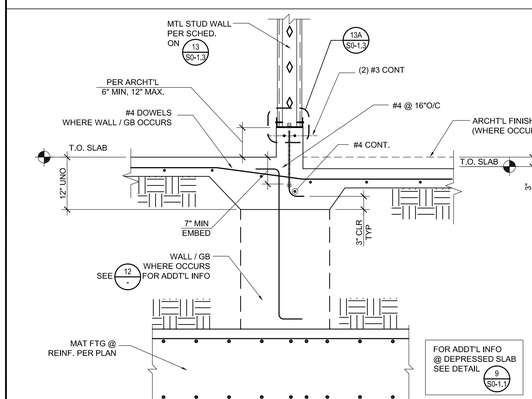

13 DETAIL
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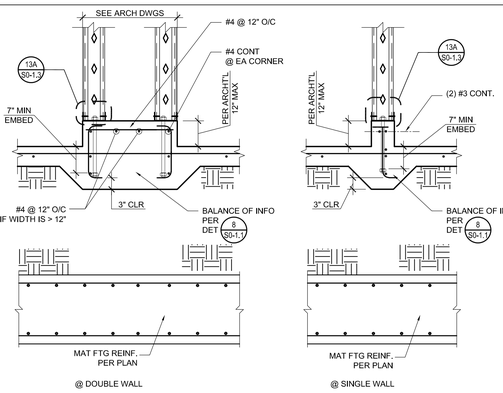

14 DETAIL
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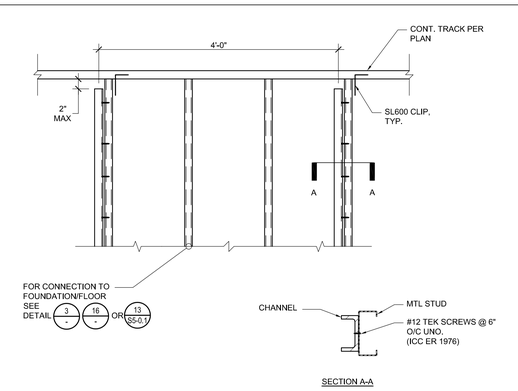

15 DETAIL
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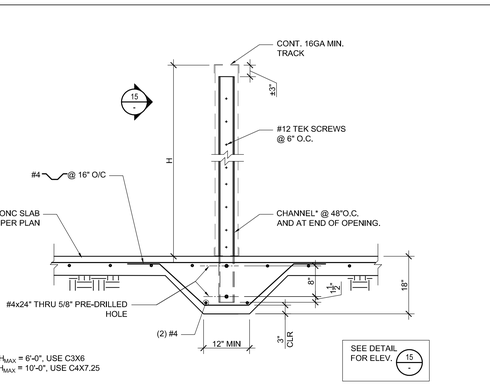

16 PARTIAL HEIGHT WALL @ INTERIOR WALL
NTS

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REGISTERED PROFESSIONAL ENGINEER No. S4029 Exp. 9/30/20 STRUCTURAL STATE OF CALIFORNIA
consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number : 20987.00

file name:

drawn by: tBP checked by: T. HALL

date: 9.3.2019

Rev:	date:	description:
1	11-20-19	ADDENDUM #1
3	12-30-19	ADDENDUM # 4

drawing title:

FOUNDATION DETAILS

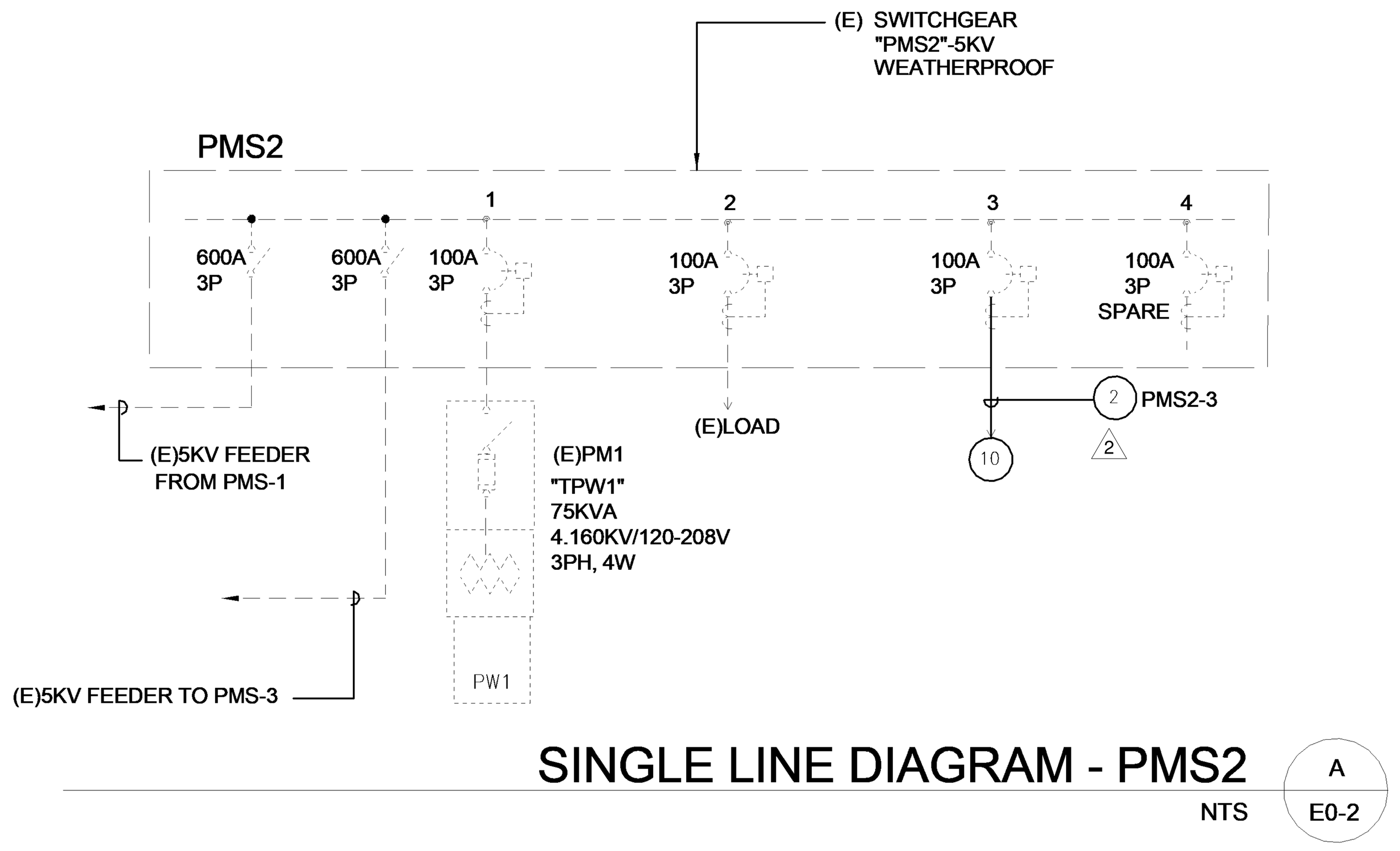
drawing no.:

S4-0.1
drawing of

FEEDER SCHEDULE

COPPER CONDUCTORS
THW 600V (AWG)

FEEDER TYPE	CONDUIT SIZE AND QUANTITY		CONDUCTORS IN EACH CIRCUIT		
			PHASE/NEUTRAL		EQUIPMENT GROUND WIRE SIZE
	QUAN.	SIZE	QUAN.	SIZE	
F20	1	3/4"	4	12	12
F30	1	3/4"	4	10	10
F40	1	1"	4	8	10
F50	1	1 1/4"	4	6	10
F60	1	1 1/2"	4	4	10
F70	1	1 1/2"	4	4	8
F80	1	2"	4	2	8
F90	1	2"	4	2	8
F100	1	2"	4	1	8
F110	1	2"	4	1	6
F125	1	2"	4	1/0	6
F150	1	2"	4	1/0	6
F175	1	2"	4	2/0	6
F200	1	2 1/2"	4	3/0	6
F225	1	3"	4	4/0	4
F250	1	3"	4	250MCM	4
F275	1	4"	4	350MCM	4
F300	1	4"	4	350MCM	4
F350	1	4"	4	500MCM	2
F400	2	2 1/2"	4	3/0	2
F500	2	3"	4	250MCM	2
F600	2	4"	4	350MCM	1
F700	2	4"	4	500MCM	1/0
F800	3	4"	4	350MCM	1/0
F900	3	4"	4	350MCM	2/0
F1000	3	4"	4	500MCM	2/0
F1200	4	4"	4	350MCM	3/0
F1600	5	4"	4	500MCM	4/0
F2000	6	4"	4	500MCM	250MCM
F2500	7	4"	4	500MCM	350MCM
F3000	8	4"	4	500MCM	500MCM
F4000	11	4"	4	500MCM	500MCM
F20/N	1	3/4"	3	12	12
F30/N	1	3/4"	3	10	10
F40/N	1	1"	3	8	10
F50/N	1	1"	3	6	10
F60/N	1	1 1/4"	3	4	10
F70/N	1	1 1/4"	3	4	8
F80/N	1	1 1/4"	3	2	8
F90/N	1	1 1/4"	3	2	8
F100/N	1	1 1/2"	3	1	8
F110/N	1	1 1/2"	3	1	6
F125/N	1	2"	3	1/0	6
F150/N	1	2"	3	1/0	6
F175/N	1	2"	3	2/0	6
F200/N	1	2"	3	3/0	6
F225/N	1	2 1/2"	3	4/0	4
F250/N	1	2 1/2"	3	250MCM	4
F275/N	1	3"	3	350MCM	4
F300/N	1	3"	3	350MCM	4
F350/N	1	4"	3	500MCM	2
F400/N	2	2"	3	3/0	2
F500/N	2	2 1/2"	3	250MCM	2
F600/N	2	3"	3	350MCM	1
F700/N	2	4"	3	500MCM	1/0
F800/N	3	3"	3	350MCM	1/0
F350/U	-	-	-	-	-
F400/U	2	3"	4	4/0	2
F500/U	2	4"	4	350MCM	1/0
F600/U	2	4"	4	500MCM	2/0
F700/U	2	4"	4	500MCM	2/0
F800/U	3	4"	4	350MCM	2/0
F900/U	3	4"	4	500MCM	4/0
F1000/U	3	4"	4	500MCM	4/0
F1200/U	4	4"	4	500MCM	250MCM
F1600/U	6	4"	4	500MCM	250MCM
F2000/U	8	4"	4	500MCM	350MCM
F2500/U	9	4"	4	500MCM	500MCM
F3000/U	11	4"	4	500MCM	500MCM
F4000/U	15	4"	4	500MCM	500MCM
F350/NU	-	-	-	-	-
F400/NU	2	3"	3	4/0	2
F500/NU	2	4"	3	350MCM	1/0
F600/NU	2	4"	3	500MCM	1/0
F700/NU	2	4"	3	500MCM	1/0
F800/NU	3	4"	3	350MCM	2/0
F60/DN	1	1 1/2"	3/1	4/1	10
F100/DN	1	2"	3/1	1/2/0	8
F125/DN	1	2 1/2"	5	1/0	6
F150/DN	1	2 1/2"	5	1/0	4
F225/DN	1	3"	5	4/0	4
F300/DN	1	4"	5	350MCM	2
F400/DN	2	3"	5	3/0	2
F600/DN	2	4"	5	350MCM	1
F800/DN	3	5"	5	350MCM	1/0
F1200/DN	4	4"	5	350MCM	3/0
F1600/DN	5	5"	5	500MCM	4/0



SINGLE LINE DIAGRAM - PMS2 (A / E0-2)
NTS

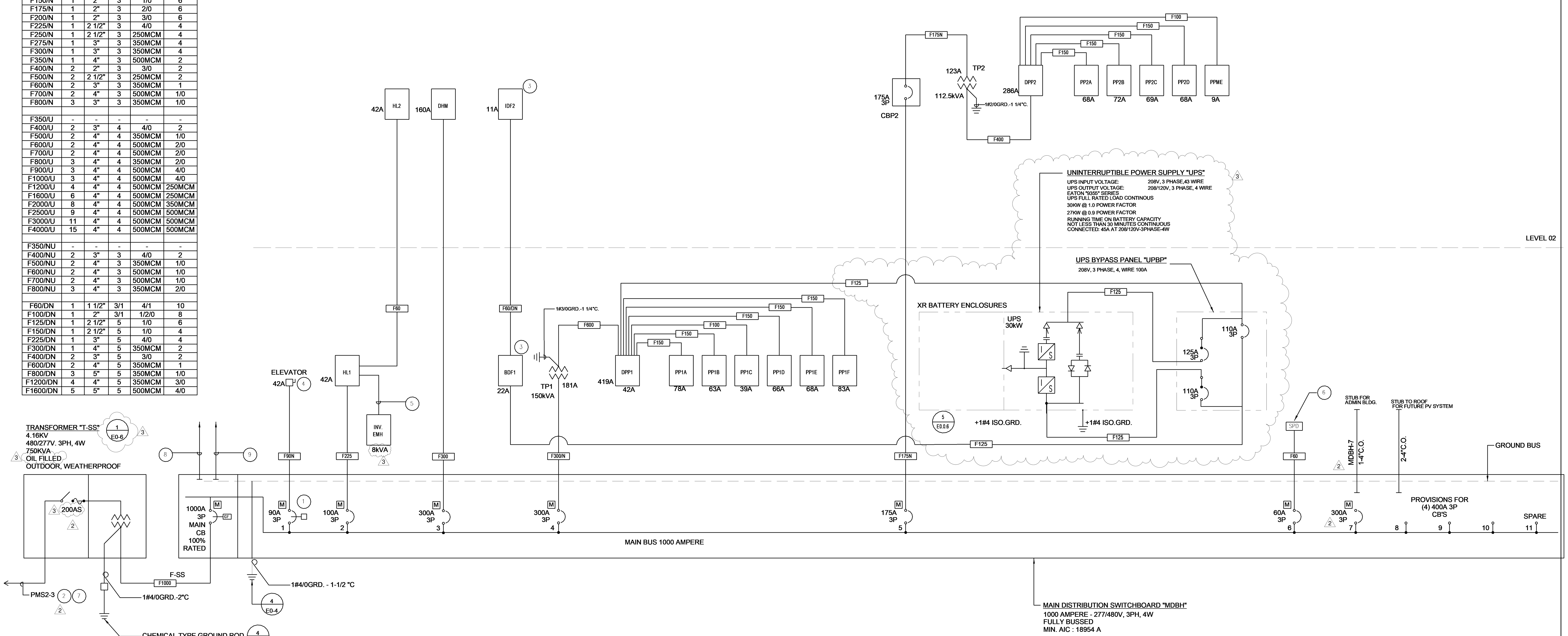
REFER TO SHEET E0-3 FOR SHORT CIRCUIT, VOLTAGE DROP AND LOAD CALCULATIONS.

PLAN NOTES:

1. PROVIDE SHUNT TRIP MECHANISM ON MAIN CIRCUIT BREAKER SERVING THE ELEVATOR. THE HEAT DETECTORS IN THE ELEVATOR MACHINE ROOM AND ON TOP OF ELEVATOR SHAFT, UPON DETECTION OF HEAT, SHALL SHUTDOWN POWER TO THE ELEVATOR. INSTALL IN ACCORDANCE WITH ASME 17.1, NFPA AND ELEVATOR MANUFACTURER'S REQUIREMENTS.
2. PROVIDE (3) 2/0, 8KV, 115 MIL/133%, EPR, MV-105 UL CLASS & TEMP RATING, T5 SHIELDING, COPPER, (1) #1/0 GRD. IN NEW AND EXISTING CONDUIT. SEE SHEET ES-2 FOR ADDITIONAL INFORMATION.
3. 225 AMPERE - 120/208V.3PH.4W ELECTRONIC GRADE PANELBOARD WITH MAIN CIRCUIT BREAKER, INTERNAL TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS), EQUIPMENT GROUND AND ISOLATED GROUND BUS.
4. PROVIDE HEAVY DUTY DISCONNECT SWITCH WITH 100A-90AF-600Vac-3P IN NEMA 1 ENCLOSURE.
5. PROVIDE 3/4"C - 2#10, 1#10 GRD.
6. PROVIDE SURGE PROTECTION DEVICE.
7. TO PMS2. SEE PMS2 SINGLE LINE ON THIS SHEET.
8. PROVIDE 1" CONDUIT WITH SPECIFIED CONDUCTOR TO BUILDING EMS PANEL.
9. PROVIDE 1" CONDUIT WITH SPECIFIED CONDUCTORS TO BDF DATA RACK.
10. TO "T-SS" COMBINATION OF HV SWITCH AND TRANSFORMER.

SINGLE LINE DIAGRAM GENERAL NOTES:

1. ALL FEEDER LENGTHS INDICATED ON THE SINGLE LINE DIAGRAM ARE ONLY FOR CALCULATION PURPOSES AND NOT FOR TAKE-OFF.
2. THE GROUNDING ELECTRODE, CONDUCTOR SIZE, AND THE NEUTRAL BOND AT THE GENERATOR AND SWITCHBOARD BOTH REQUIRE SIGNS INSTALLED AT THE SERVICE.
3. UNLESS NOTED OTHERWISE, ALL 480/277V PANELS SHALL BE RATED FOR MINIMUM 14,000 AMP. AIC. REFER TO SHORT CIRCUIT CALCULATIONTABLE ON SHEET E0-3 FOR PANEL WITH LARGER AIC RATING THAN 1400A.
4. UNLESS NOTED OTHERWISE, ALL 208/120V PANELS SHALL BE RATED FOR MINIMUM 10,000 AMP. AIC.
5. MAIN SWITCHBOARD SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT-CURRENT CALCULATION WAS PERFORMED. CEC 110.24(A).
6. ARC FLUSH HAZARD WARNING LABEL ON SWITCHBOARD SHALL BE PROVIDED IN ACCORDANCE WITH CEC 110.16.
7. MAIN SERVICE DISCONNECT SHALL BE MARKED PERMANENTLY IN ACCORDANCE WITH CEC 230.70(B).



SINGLE LINE DIAGRAM - STUDENT SERVICES (B / E0-2)
NTS

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COMPTON COMMUNITY COLLEGE DISTRICT
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tBP project number: 20987.00
file name: CC_SS_E_R18_Central.rvt
drawn by: FBA checked by: RR
date: 9.03.2019

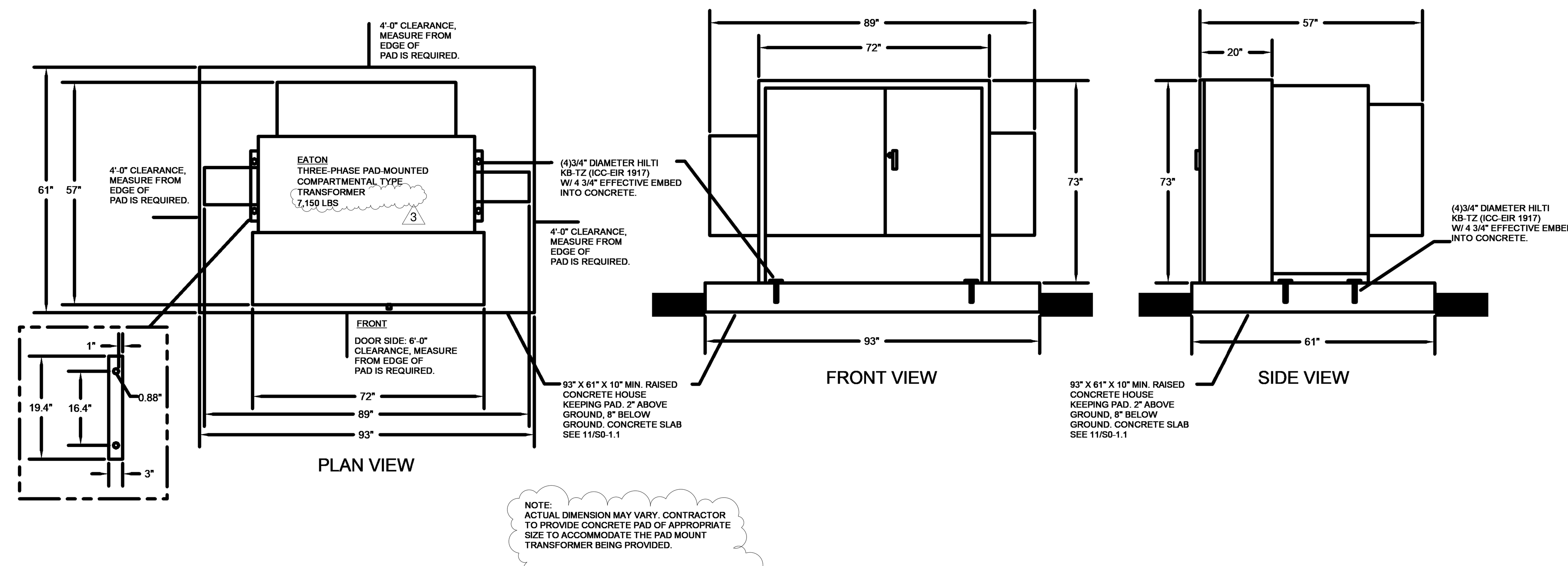
rev:	date:	description:
1	11/20/19	Addendum 1
2	12/11/19	Addendum 2
3	12/30/19	Addendum 4

drawing title:
SINGLE LINE DIAGRAMS

drawing no.:
E0-2
drawing of

ELECTRICAL EQUIPMENT SCHEDULE

Panel Name	Location	SHEET NUMBER	EQUIPMENT/SYSTEM DESCRIPTION	MAX WEIGHT (LBS.)	HEIGHT (IN.)	LENGTH (IN.)	WIDTH (IN.)	MOUNTING TYPE	ANCHOR DETAIL
LEVEL 1									
PP1C	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP1B	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
DPP1	ELEC. 107	E0-3	DISTRIBUTION BOARD	400	90	36	24	FLOOR	3/E0-5
TP1	ELEC. 107	E0-3	TRANSFORMER	620	49	41	32	FLOOR	2/E0-5
MBDH	ELEC. 107	E0-3	SWITCHBOARD	1200	90	45	36	FLOOR	3/E0-5
HL1	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
LCP	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP1A	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP1D	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP1E	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
LEVEL 2									
PP2D	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP2C	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP2B	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP2A	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
DPP2	ELEC 205	E0-3	DISTRIBUTION BOARD	400	90	36	24	FLOOR	3/E0-5
HL2	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
TP2	ELEC 205	E0-3	TRANSFORMER	620	49	41	32	FLOOR	2/E0-5
PPME	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
DHM	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
EMH	ELEC 205	E0-3	INVERTER	605	76	25	48	FLOOR	4/E0-4



PAD-MOUNT TRANSFORMER ANCHORAGE DETAIL | SCALE NONE | 1

3

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STUDENT SERVICES BLDG.

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1	11/20/19	Addendum 1
2	12/11/19	Addendum 2
3	12/30/19	Addendum 4

drawing title:
EQUIPMENT ANCHORAGE SCHEDULE

drawing no.:
E0-6

drawing of

LIGHTING FIXTURE SCHEDULE

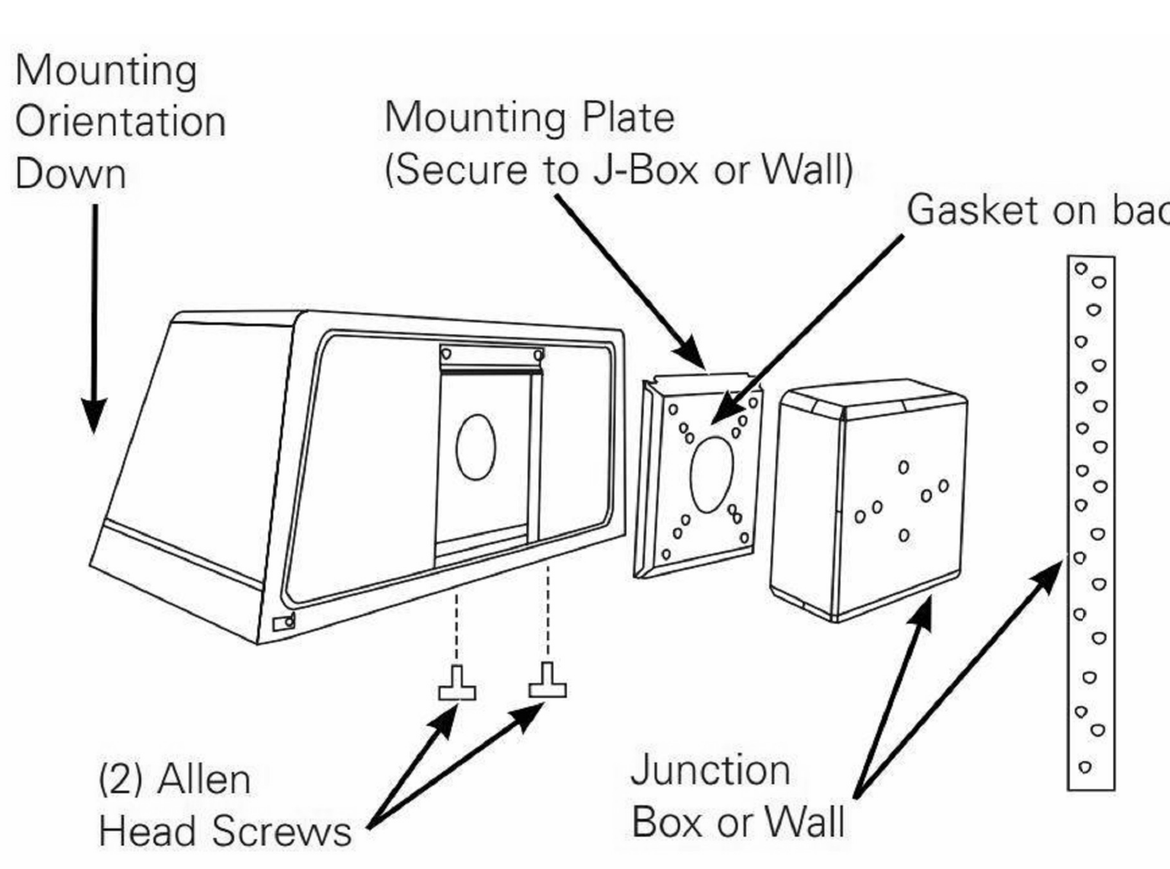
FIXTURE TYPE	Count	Image	LIGHT FIXTURE DESCRIPTION	FIXTURE MAXIMUM TOTAL INPUT WATTS	FIXTURE MOUNTING	LAMP TYPE	LAMP COLOR TEMPERATURE K	LAMP CRI, NOT LESS THAN	TOTAL ALL LAMPS INITIAL MINIMUM LUMEN OUTPUT	LAMP QUANTITY	WEIGHT	MOUNTING DETAIL	CATALOG NUMBER
A1	306		LED 2X4 LUMINAIRE WITH STEEL HOUSING AND DIE FORMED WHITE PAINTED REFLECTOR; SINGLE PIECE DIFFUSED LENS WITH CONVEX WINGS; LUMINOUS CENTER SPLINE WITH WHITE TRIM. INTEGRAL 0-10V. DIMMABLE DRIVER(S).	53	RECESSED	LED	4000	80	5500		27.3 LBS	B/E0-7	FOCAL POINT "EQUATION 2" SERIES #FEQ2-24-MG-5500LH-40K-1C-UNV-LH1-G-WH. FINELITE, NC. HPR-A-2X4-SCO-H-LED1(LUTRON)-VOLT-SC-C1 OR EQUAL
B1	87		LED DOWNLIGHT; 6" APERTURE.	29	RECESSED/CEILING	LED	4000	80	2500		5 LBS		FOCAL POINT "ID +6" SERIES #FLC6D-RO-2500L-277-LH1-T-BH-LC6-RD-40K-DN-CD-NP V2 LIGHTING C3CP-N-Z(LED1 LUTRON)-30-83-40-40-S-XX-XX-WH OR EQUAL.
C1	13		LED STRIP LIGHT, LENSED, 4 FOOT LENGTH; INTEGRAL 0-10V. DIMMING BALLAST.	25	SURFACE	LED	4000	80	3186		8.2 LBS		METALUX "SNLED" SERIES #4SNLED-LD5-LN-UNV-L840-CD-1-AYC HE WILLIAMS, INC. 75R-4-L30/840-(2)VBY-3/PWU-DIM-UNV OR EQUAL.
D1	18		LED 1X4 LUMINAIRE WITH STEEL HOUSING AND DIE FORMED WHITE PAINTED REFLECTOR; SINGLE PIECE DIFFUSED LENS WITH CONVEX WINGS; LUMINOUS CENTER SPLINE WITH WHITE TRIM. INTEGRAL 0-10V. DIMMABLE DRIVER(S).	26	RECESSED	LED	4000	80	2500		19.4 LBS		FOCAL POINT "EQUATION 2" SERIES #FEQ2-14-AC-2500L-40K-1C-UNV-LH1-F-WH FINELITE, INC. HPR-A-1X4-DCO-S-LED1(LUTRON)-VOLT-SC-C1 OR EQUAL.
SL1	23		LED DOWNLIGHT; 6" APERTURE.	29	RECESSED/CEILING	LED	4000	80	2500		5 LBS		FOCAL POINT "ID +6" SERIES #FLC6D-RO-2500L-277-LH1-T-BH-LC6-RD-40K-DN-CD-NP HE WILLIAMS, INC. 6DR-TL-L30/840-ELDO ECO1-UNV-OW-OF-SG-N-F1 OR EQUAL.
SL2	7		LED SHARP CUT OFF WALL LIGHT; TRAPEZOIDAL SHAPE; INTEGRAL DRIVER; WET LOCATION.	27	WALL	LED	4000	80	2420		25.10 LBS	C/E0-7	WE-FE LIGHTING "OLV344 LED" SERIES #622-7721-40K-80-2420LM HE WILLIAMS, INC. VWPV-L30/740-T3-DBZ-CGL-DIM-UNV OR EQUAL
SL3	13		LED DECORATIVE WALKWAY LIGHT; TYPE IV DISTRIBUTION; ON 12'-0", 4" DIAMETER, 7 GUAGE STEEL POLE; 120 LUXEON LED EMITTERS; ADVANCE DRIVER; INTERNAL WIRELESS LED CONTROLLER; OCCUPANCY SENSOR; FIXTURE AND POLE FINISH AS SELECTED BY ARCHITECTS; PROVIDE COMPLETE WITH ANCHOR BOLTS AND BOLT COVER.	140	POLE	LED	4000	82	5816		20 LBS	A/E0-7	FORMULA TECHNOLOGIES #SBMTL-2626-IV-120LED-208V-350MA 12'(4" ROUND) 7 GUAGE STRAIGHT STEEL POLE. FINISH AS SELECTED BY ARCHITECT.
SL4	6		LED DOWNLIGHT; 6" APERTURE. INTEGRAL DIMMING DRIVER. WET LOCATION LISTED.	44.1	WALL	LED	4000	80	3977.5				LITHONIA LIGHTING "LDN6CYL" SERIES #LDN6CYL-40K-40L-L06-AR-LSS-MVOLT-GZ10-WM-WL. V2 LIGHTING C4SS-D-V-W-40-83-40-51-XX OR EQUAL.
X1	22		LED EXIT SIGN, EDGE LIT, GREEN LETTERS, MIRRORED BACKING, WALL MOUNT.	3	CEILING	LED							ISOLITE "ELT-FT" SERIES #ELT-AC-G-1M-2M-WH-RC EMERGI-LITE WLX-42/43N-G-M-UA-2CKT OR EQUAL.

Grand total: 495

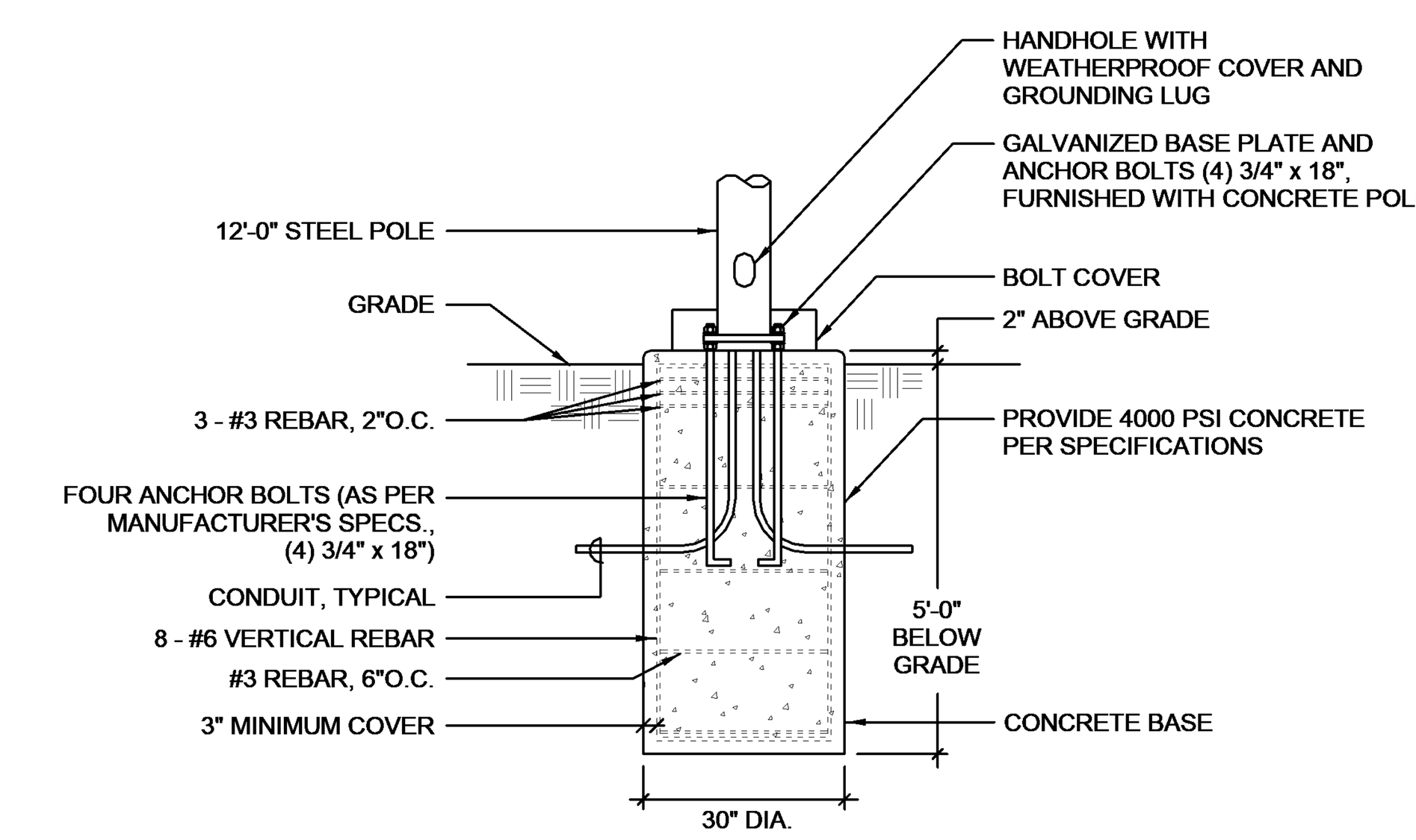
FIXTURE NOTES

(NOTE: REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. FIXTURES LOCATED OUTDOORS SHALL BE RATED FOR STARTING AND OPERATING TEMPERATURES BELOW 0-DEGREES FAHRENHEIT.
2. FIXTURES WITH THE SAME TYPE # SHALL BE THE PRODUCTS OF THE SAME MANUFACTURER, (I.E., TYPE #1, 1A, 1B, ETC., SHALL BE THE SAME MANUFACTURER).
3. THE CONTRACTOR SHALL VERIFY ACTUAL CEILING AND WALL CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH LIGHTING FIXTURES WITH THE CORRECT AND COMPLETE MOUNTING HARDWARE AND MOUNTING DEVICES TO ACCOMMODATE BUILDING CONSTRUCTION AT EACH INSTALL LOCATION, WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE FIXTURE CATALOG NUMBER.
4. THE CONTRACTOR SHALL VERIFY DEPTH OF ALL RECESSED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING FIXTURES. ANY DISCREPANCIES THAT WILL CAUSE RECESSED FIXTURES NOT TO FIT INTO CEILING/WALL SPACES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING SHOP DRAWINGS AND PRIOR TO ORDERING FIXTURES.
5. LIGHT FIXTURES RECESSED IN CEILING OR WALL WITH A ONE HOUR OR MORE FIRE RATING BUILDING CONSTRUCTION, EACH FIXTURE SHALL BE ENCLOSED IN A BOX WHICH HAS A FIRE RATING EQUAL TO THAT OF THE BUILDING CONSTRUCTION. PROVIDE MINIMUM OF 3" CLEAR FROM ALL SIDES AND TOP OF RECESSED LIGHT FIXTURES.
6. WALL AND CEILING INSULATION SHALL BE INSTALLED TO ALLOW 3" MINIMUM CLEARANCE FROM BOTTOM, SIDES AND TOP OF RECESSED LIGHT FIXTURES.
7. VERIFY MOUNTING HEIGHT OF ALL WALL MOUNTED FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT INSTALL LOCATION OF ALL FIXTURES.
9. VERIFY VOLTAGE BEING SUPPLIED TO FIXTURES PRIOR TO SUBMITTING SHOP DRAWINGS AND PRIOR TO ORDERING. FIXTURE VOLTAGE SHALL MATCH BRANCH CIRCUITS CONNECTING TO RESPECTIVE FIXTURE.
10. SUSPENDED MOUNT LIGHT FIXTURES THAT MAY STRIKE STRUCTURAL ELEMENTS, WALL OR MECHANICAL DUCT WORK IF SWIVELED AT +45-DEGREES SHALL BE SWAY BRACED WITH AIR CRAFT CABLE TO PREVENT STRIKING SAID APPURTENANCES DURING SEISMIC EVENTS, AS REQUIRED.
11. OCCUPANCY MOTION SENSOR SYSTEM SHALL BE PROVIDED IN EVERY ROOM/SPACE LOCATION THROUGHOUT THE FACILITY AND AS DESCRIBED IN THE SPECIFICATIONS, WHETHER SYMBOLS ARE SHOWN OR NOT SHOWN ON THE PLANS.
12. PROVIDE TESTING CERTIFICATION AND COMMISSIONING OF LIGHTING FIXTURES, INSTALLATION, LIGHTING CONTROL SYSTEM AND LIGHTING SYSTEM OPERATION.
13. CONTRACTOR SHALL COORDINATE INSTALLATION OF RECESSED LIGHTING FIXTURES IN HARD LID OR STUCCO CEILING AREAS WITH FRAMING CONTRACTOR.
14. ALL EDGE-LIT EXIT SIGNS SHALL HAVE MIRRORED BACKING.



WALL MOUNTED OUTDOOR LIGHT FIXTURE DETAIL | C



POLE BASE DETAIL - WALKWAY | A

PERFORMANCE NOTES:

1. ALL LED DRIVERS SHALL BE DIMMABLE AND COMPATIBLE WITH THE SPECIFIED LIGHTING CONTROL SYSTEM.
2. LIGHT FIXTURE COUNTS ON LIGHTING FIXTURE SCHEDULE FOR CALCULATIONS ONLY. CONTRACTOR SHALL VERIFY FIXTURE COUNTS AND PROVIDE QUANTITIES AS INDICATED ON LIGHTING PLANS.

LIGHTING CONTROL RELAY SCHEDULE "MLCP"

RELAY	CKT. NO.	SWITCH	MASTER SWITCH	AREA CONTROLLED
1	HL1-12	P/P	-	WALKWAY LIGHTS
2	HL1-14	P/T	-	WALKWAY LIGHTS
3	EMH-1	P/P	-	BUILDING LIGHTING
4	EMH-2	P/P	-	BUILDING LIGHTING
5	-	-	-	SPARE
6	-	-	-	SPARE
7	-	-	-	SPARE
8	-	-	-	SPARE
9	-	-	-	SPARE
10	-	-	-	SPARE
11	-	-	-	SPARE
12	-	-	-	SPARE

P/P = PHOTOCELL ON / PHOTOCELL OFF

P/T = PHOTOCELL ON / TIMECLOCK OFF

T/T = TIMECLOCK ON / TIMECLOCK OFF

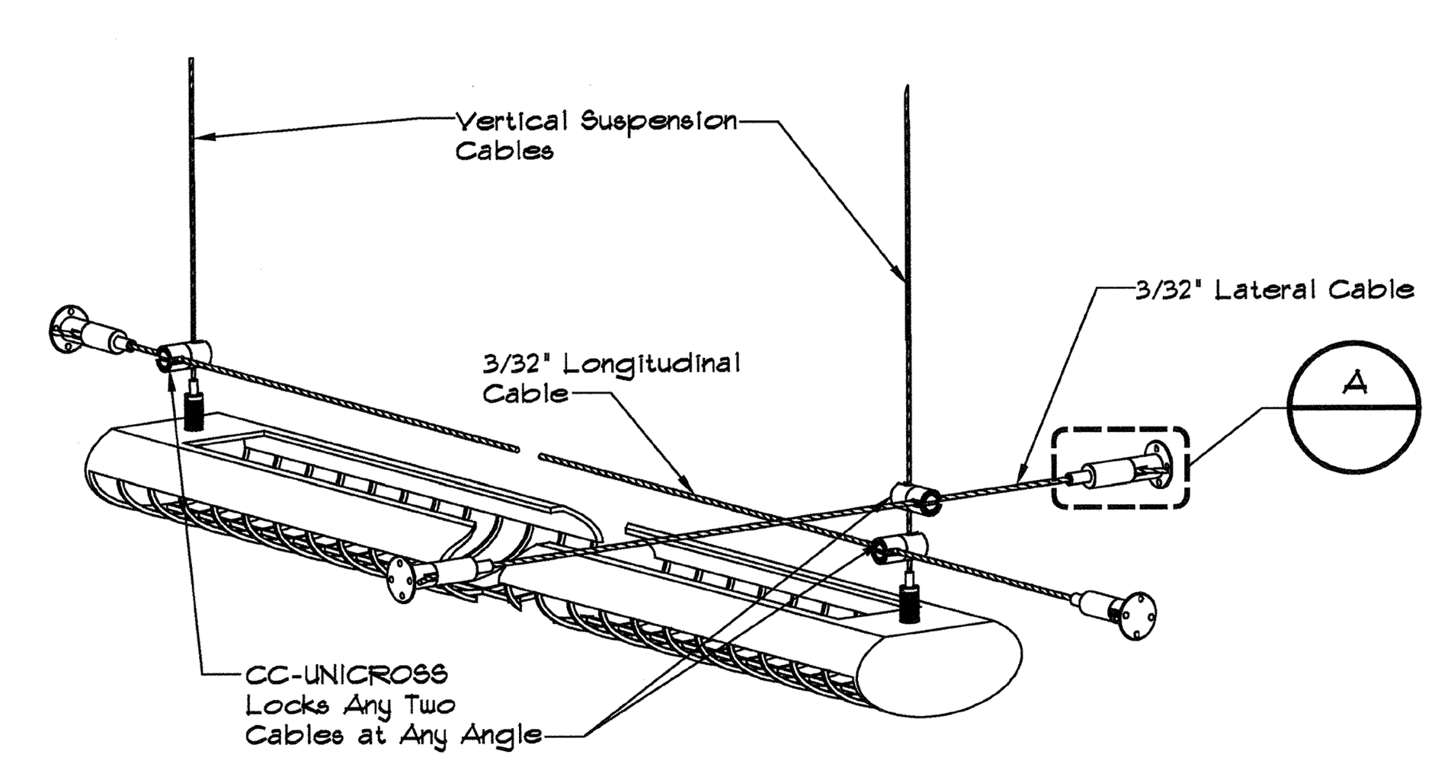
A. WHERE PENDANT MOUNTED LIGHT FIXTURES ARE TO BE INSTALLED IN AREAS WITH A SUSPENDED CEILING, THE CONSTRUCTION DOCUMENTS SHALL INCLUDE COMPLETE SUPPORT DETAILS COMPLYING WITH THIS IR AND DSA IR 16-9.

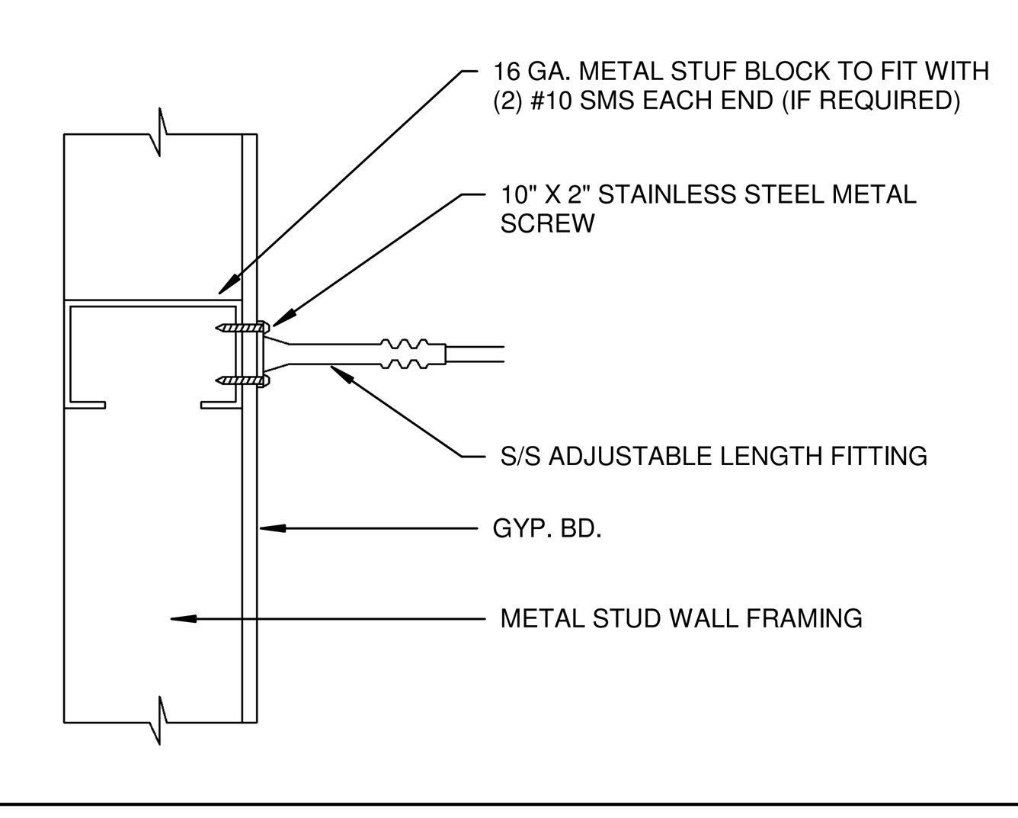
B. SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE.

C. IF A PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING (I.E., AIRCRAFT CABLES TO WALLS), THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.

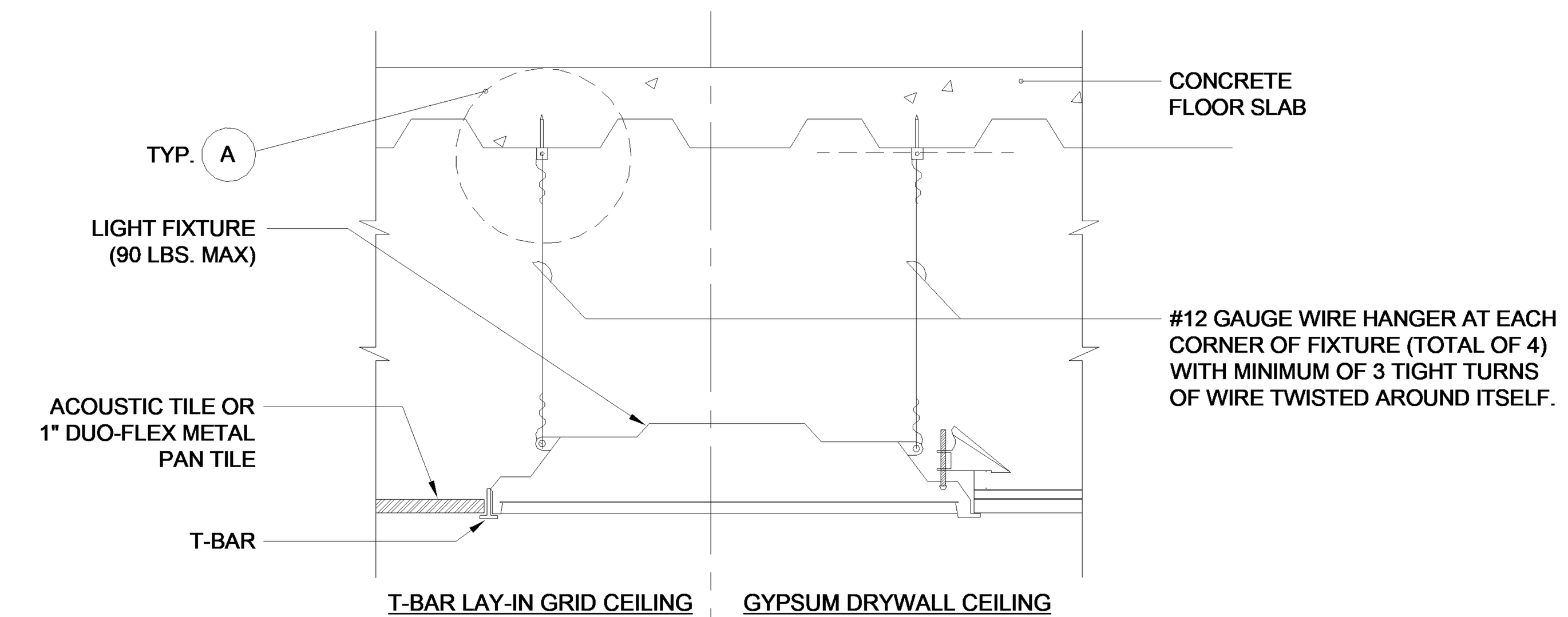
D. IF A PENDANT MOUNTED LIGHT FIXTURE IS FREE TO SWING 45 DEGREES FROM VERTICAL IN ALL DIRECTIONS, AND IS NOT DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, THEN A BRACING ASSEMBLY IS ONLY REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT THE HHORIZONTAL AND VERTICAL FORCES. EXCEPTION: WHERE THE WEIGHT OF THE FIXTURE IS LESS THAN 20 POUNDS, THE VERTICAL COMPONENT OF THE BRACE FORCE NEED NOT BE CONSIDERED SO NO COMPRESSION STRUT/POST IS REQUIRED.

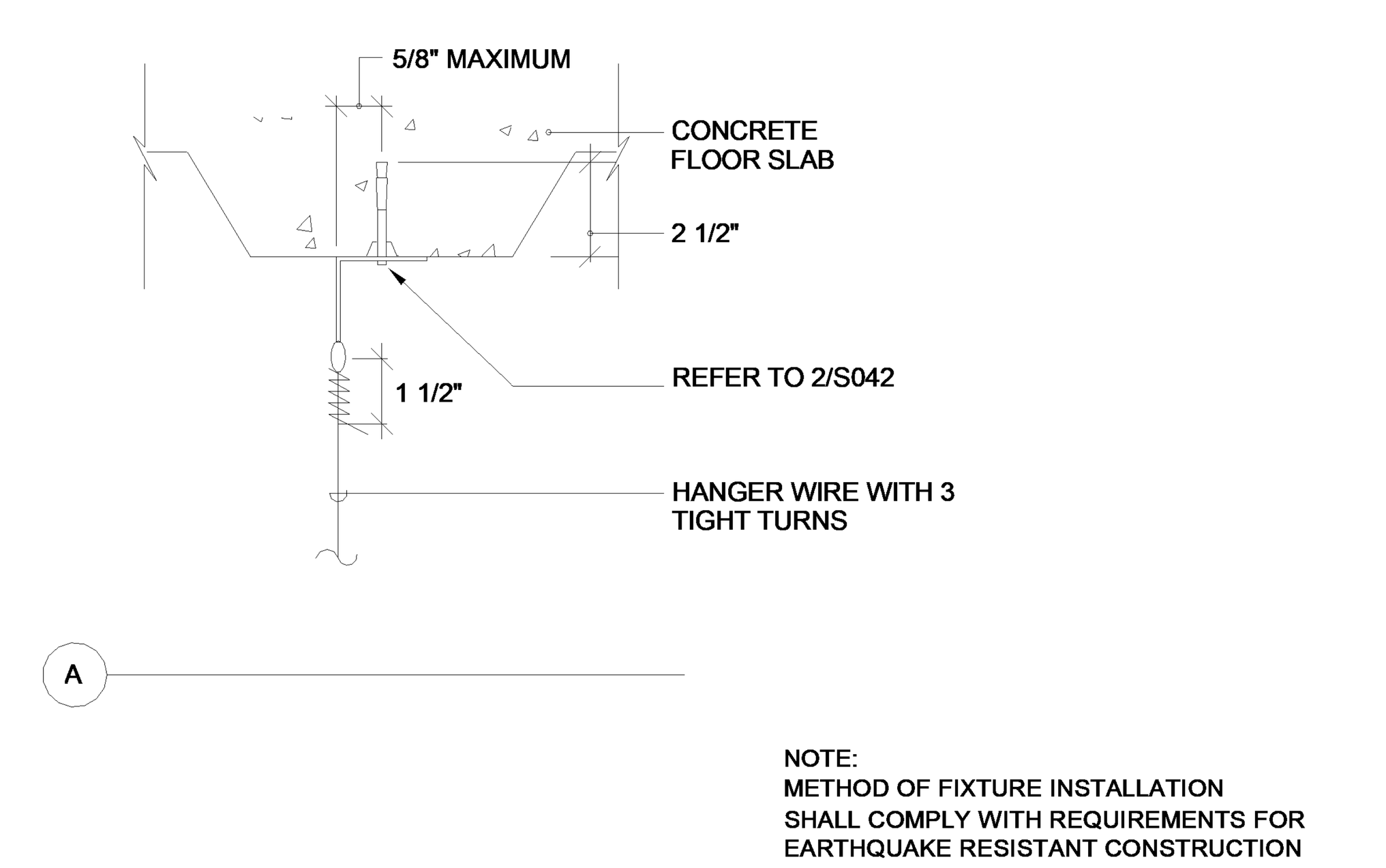
E. RIGID CONDUIT SHALL NOT BE USED FOR ATTACHMENT OF THE FIXTURES.





PENDANT MOUNTED LIGHT FIXTURE DETAIL | D





NOTE:
METHOD OF FIXTURE INSTALLATION SHALL COMPLY WITH REQUIREMENTS FOR EARTHQUAKE RESISTANT CONSTRUCTION OF THE STATE OF CALIFORNIA,SEE DSA IR 25-2, 10

LIGHTING FIXTURE ANCHORAGE - RECESSED | B

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owner

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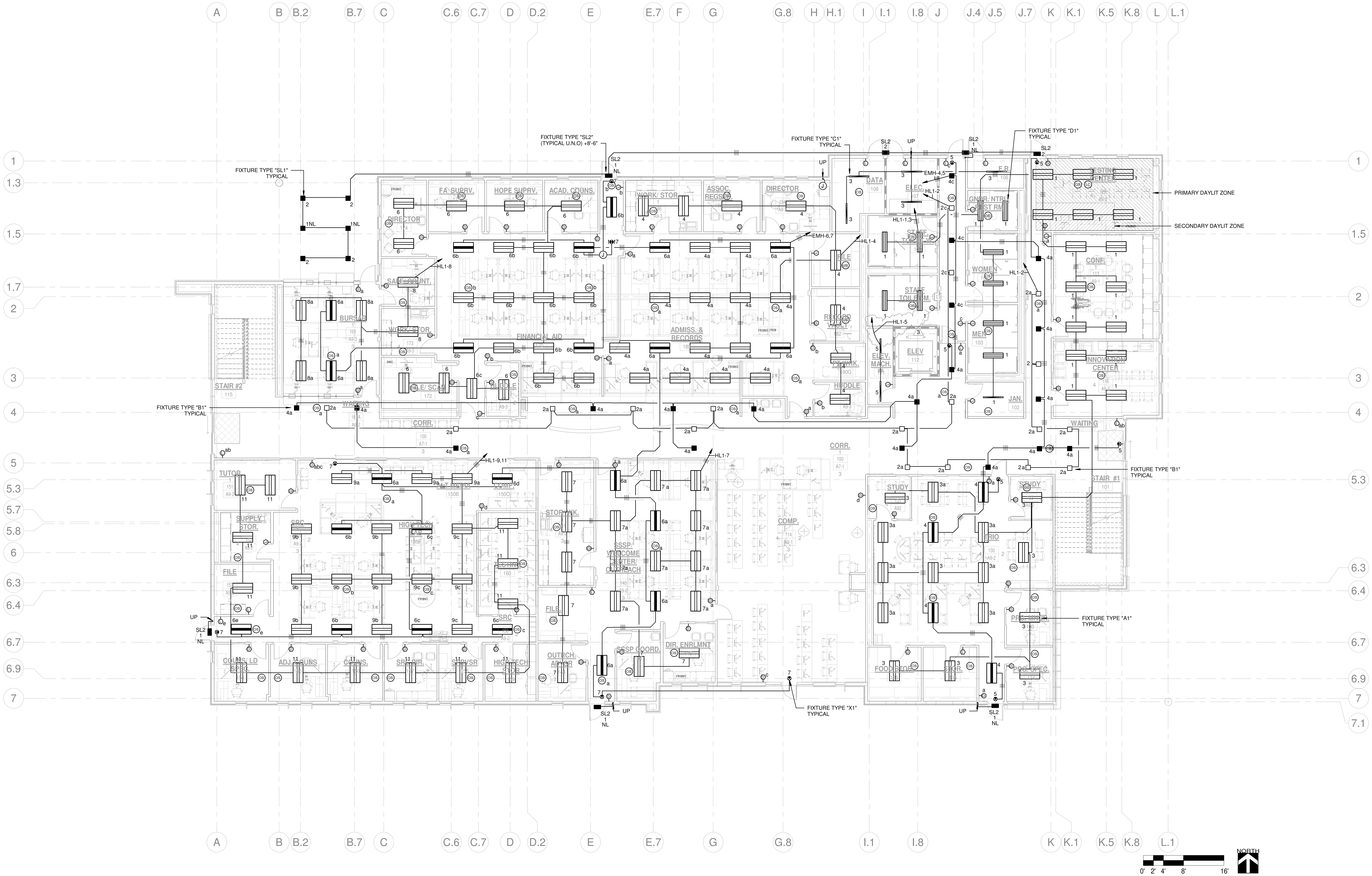
LIGHTING FIXTURE SCHEDULE AND DETAILS

drawing no.:
E0-7

drawing of



1ST FLOOR LIGHTING PLAN (1)

SCALE 1/8" = 1'-0"

LIGHTING CONTROL SYMBOLS

- (OS) LIGHTING OCCUPANCY SENSOR ON FLUSH CEILING MOUNTED OUTLET BOX.
- (LC) LIGHT LEVEL PHOTOCELL CONTROLLER ON FLUSH CEILING MOUNTED OUTLET BOX.
- (L) LIGHTING ON/OFF CONTROLLER ON FLUSH IN WALL OUTLET BOX, +45".
- (D) LIGHTING DIMMING CONTROLLER ON FLUSH IN WALL OUTLET BOX, +45".
- (E) LIGHTING ENTRANCE CONTROLLER ON FLUSH IN WALL OUTLET BOX, +45".
- (I) INSTRUCTOR LIGHTING CONTROLLER ON FLUSH IN WALL OUTLET BOX, +45".

GENERAL NOTE

ALL BUILDING MOUNTED OUTDOOR LIGHTING INDICATED ON EMERGENCY, IS CONNECTED TO EMERGENCY LIGHTING BATTERY INVERTER TO PROVIDE 90 MINUTES OF EMERGENCY ILLUMINATION.

LIGHTING CONTROL PERFORMANCE NOTES

1. LIGHTING CONTROL WIRING NOT SHOWN ON LIGHTING PLANS FOR CLARITY. REFER TO LIGHTING CONTROL DIAGRAMS AND SPECIFICATIONS FOR LIGHTING CONTROL SYSTEM DEVICE AND WIRING REQUIREMENTS. CONTRACTOR SHALL INCLUDE ALL COSTS IN BID FOR A COMPLETE AND OPERABLE SYSTEM.
2. THE ABOVE CEILING SPACE IS AN OPEN-AIR PLENUM. CONTRACTOR SHALL PROVIDE ALL LIGHTING CONTROL WIRING IN MINIMUM 3/4 IN. CONDUIT. INCLUDE ALL COSTS IN BID TO COMPLY WITH THIS PROVISION.
3. PLACEMENT OF LIGHTING OCCUPANCY SENSORS AND LIGHT LEVEL CONTROL SENSORS ARE DIAGRAMMATIC. ALL SENSORS SHALL BE MOUNTED CENTERED IN THE CEILING TILES.
4. LIGHTING OCCUPANCY SENSORS SHALL BE PLACED 4 FEET FROM ANY HVAC REGISTERS WHEREVER POSSIBLE TO AVOID AIR FLOW.
5. CONTRACTOR SHALL INCLUDE ALL PROGRAMMING AND START UP IN BID. ALL LIGHTING CONTROLS SHALL BE SET TO THE COLLEGE'S SATISFACTION.
6. PROVIDE LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLES IN ACCORDANCE WITH CEC TITLE-24 REQUIREMENTS. REFER TO POWER PLANS FOR CONTROLLED RECEPTACLE LOCATIONS.

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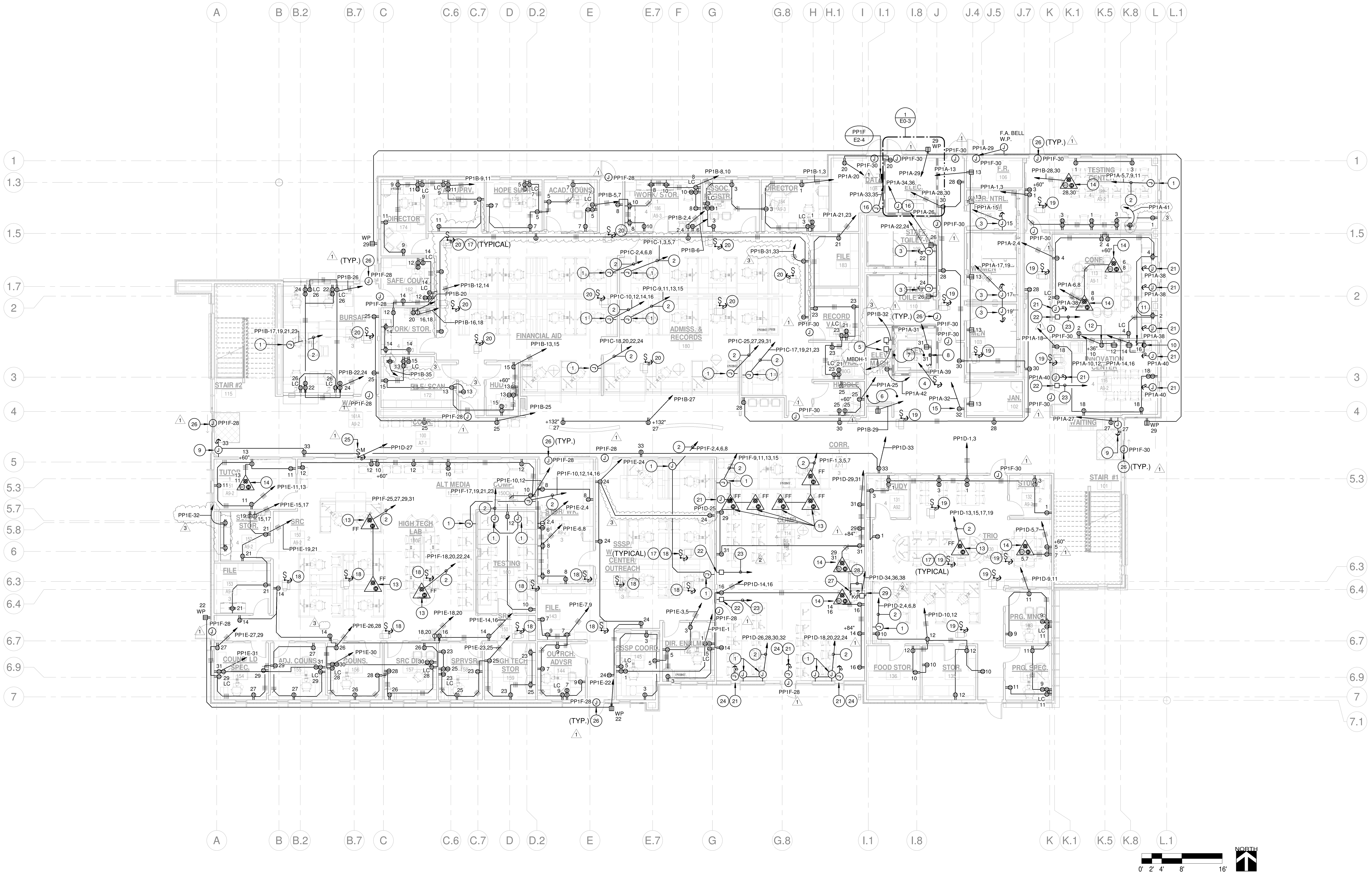
1ST FLOOR LIGHTING PLAN

drawing no.:
E1-1
drawing of



1ST FLOOR POWER PLAN (1)

SCALE 1/8" = 1'-0"

KEY NOTES

1. PROVIDE SEAL-TITE FLEX CONNECTION TO ELECTRIFIED FURNITURE SYSTEM WIRING HARNESS. THE FURNITURE SYSTEM IS A "2 GENERAL PURPOSE + 2 ISOLATED CIRCUIT" SYSTEM. VERIFY EXACT POINT OF CONNECTION LOCATION WITH THE FURNITURE SYSTEMS DRAWINGS. INSTALL IN ACCORDANCE WITH THE FURNITURE SYSTEM MANUFACTURER'S WIRING REQUIREMENTS.
2. PROVIDE 4#10 (H.), 1#10 (COMMON NEUTRAL), 1#10 (ISOLATED NEUTRAL), 1#10 (COMMON GROUND) AND 1#10 (ISOLATED GROUND)-1.25 IN. CONDUIT.
3. CONNECT TO ELECTRIC HAND DRYER IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR LOCATIONS AND MOUNTING HEIGHTS OF HAND DRYERS.
4. CONNECT TO ELEVATOR SMOKE CURTAIN SYSTEM. INSTALL ALL ELECTRICAL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
5. CONNECT TO ELEVATOR CONTROLLER IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S REQUIREMENTS.
6. PROVIDE AND INSTALL ALL ELECTRICAL DEVICES IN THE ELEVATOR MACHINE ROOM IN LOCATIONS IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S SHOP DRAWINGS. PROVIDE ALL CODE REQUIRED CLEARANCES.
7. PROVIDE AND INSTALL ALL ELECTRICAL DEVICES IN THE ELEVATOR PIT IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S SHOP DRAWINGS.
8. PROVIDE AND INSTALL 2'-0" LONG SURFACE MOUNTED LED LIGHTING FIXTURE IN ELEVATOR PIT IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S REQUIREMENTS. LIGHTING FIXTURE SHALL BE METALUX #2VT2-LD4-DR100-UNV-L940-WL OR EQUAL BY LITHONIA, PHILIPS DAYBRITE.
9. CONNECT TO POWER ASSISTED DOOR IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
10. PROVIDE AND INSTALL RECEPTACLE BELOW SINK FOR CONNECTION TO DISPOSAL.
11. ENGRAVE SWITCH COVERPLATE TO READ: "DISPOSAL".
12. PROVIDE AND INSTALL RECEPTACLE FOR CONNECTION TO REFRIGERATOR, +36 IN. AFF.
13. PROVIDE AND INSTALL COMBINATION POWER/DATA FLOOR BOX, FLUSH IN FLOOR, WITH FURNITURE FEED COVER IN FINISH AS SELECTED BY ARCHITECT AND CONNECTION TO THE FURNITURE SYSTEM. PROVIDE SEAL-TITE FLEX CONDUIT CONNECTION, MINIMUM 1.0 IN. FOR POWER AND 1.25 IN. FOR TELECOM. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
14. PROVIDE AND INSTALL COMBINATION POWER/DATA/AV FLOOR BOX, FLUSH IN FLOOR, WITH IN USE COVERPLATE IN FINISH AS SELECTED BY ARCHITECT. PROVIDE 1.0 IN. MINIMUM POWER CONDUIT, 1.25 IN. MINIMUM VOICE/DATA CONDUIT AND 1.25 IN. MINIMUM AV CONDUIT FROM BELOW GRADE, UP INTO WALL TO ABOVE THE ACCESSIBLE CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
15. PROVIDE AND INSTALL RECEPTACLE FOR KWIKBOOST CHARGING STATION. INSTALL IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
16. CONNECT TO FCU/FAN COIL UNIT. INSTALL IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
17. PROVIDE CONNECTION TO VAV BOX. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. VERIFY EXACT LOCATION AND QUANTITY WITH MECHANICAL DRAWINGS.
18. PROVIDE 2#12, 1#12 GRD - 3/4"C. CONNECT TO CIRCUIT "PP1F-26".
19. PROVIDE 2#12, 1#12 GRD - 3/4"C. CONNECT TO CIRCUIT "PP1D-21".
20. PROVIDE 2#12, 1#12 GRD - 3/4"C. CONNECT TO CIRCUIT "PP1C-26".
21. CONNECT TO MOTOR OPERATED SHADES IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
22. PROVIDE SHADE CONTROLLER IN FLUSH WALL OUTLET BOX, +45".
23. PROVIDE 3/4"C., WITH CONTROL WIRING IN ACCORDANCE WITH THE SHADE MANUFACTURER'S REQUIREMENTS.
24. CONNECT TO CIRCUIT "PP1D-23".
25. CONNECT TO AUTOMATIC SLIDING DOOR IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
26. CONNECT TO CARD READER IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS. COMBINE SAME CIRCUIT IN ONE HOMERUN. (1)
27. ENGRAVE SWITCH COVERPLATE TO READ, "PARTITION".
28. PROVIDE 3/4"C. WITH CONTROL WIRING IN ACCORDANCE WITH THE PARTITION MANUFACTURER'S REQUIREMENTS. (2)
29. CONNECT TO MOTOR OPERATED PARTITION IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.

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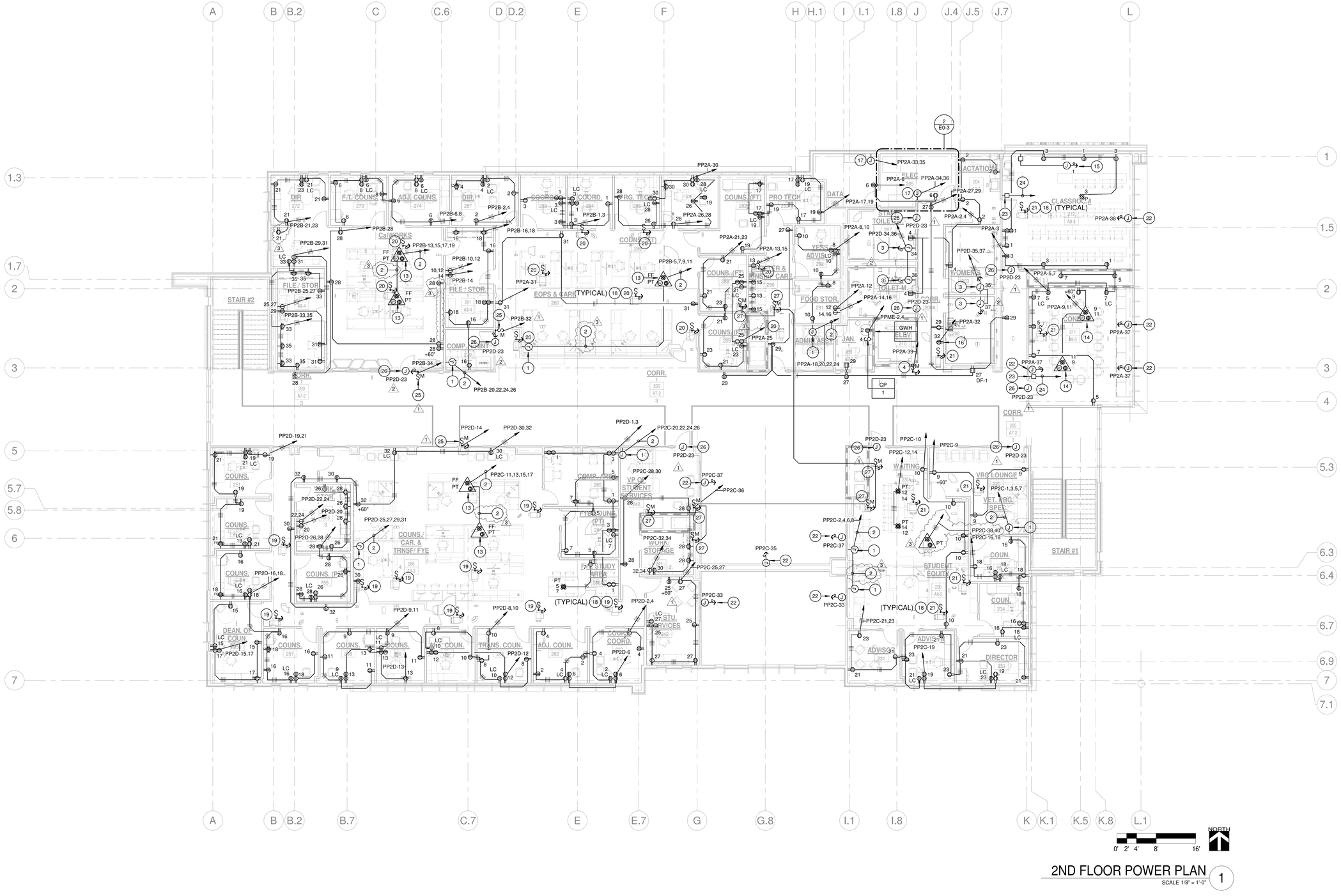
drawing title:
1ST FLOOR POWER PLAN

drawing no.:
E2-1

drawing of



2ND FLOOR POWER PLAN

SCALE 1/8" = 1'-0"

1

KEY NOTES

① PROVIDE SEAL-TITE FLEX CONNECTION TO ELECTRIFIED FURNITURE SYSTEM WIRING HARNESS. THE FURNITURE SYSTEM IS A "2 GENERAL PURPOSE + 2 ISOLATED CIRCUIT" SYSTEM. VERIFY EXACT POINT OF CONNECTION LOCATION WITH THE FURNITURE SYSTEMS DRAWINGS. INSTALL IN ACCORDANCE WITH THE FURNITURE SYSTEM MANUFACTURER'S WIRING REQUIREMENTS.

② PROVIDE 4#10 (H.), 1#10 (COMMON NEUTRAL), 1#10 (ISOLATED NEUTRAL), 1# 10 (COMMON GROUND) AND 1#10 (ISOLATED GROUND)-1.25 IN. CONDUIT.

③ CONNECT TO ELECTRIC HAND DRYER IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR LOCATIONS AND MOUNTING HEIGHTS OF HAND DRYERS.

④ CONNECT TO ELEVATOR SMOKE CURTAIN SYSTEM. INSTALL ALL ELECTRICAL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS.

⑤ CONNECT TO ELEVATOR CONTROLLER IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S REQUIREMENTS.

⑥ PROVIDE AND INSTALL ALL ELECTRICAL DEVICES IN THE ELEVATOR MACHINE ROOM IN LOCATIONS IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S SHOP DRAWINGS. PROVIDE ALL CODE REQUIRED CLEARANCES.

⑦ PROVIDE AND INSTALL ALL ELECTRICAL DEVICES IN THE ELEVATOR PIT IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S SHOP DRAWINGS.

⑧ PROVIDE AND INSTALL 2'-0" LONG SURFACE MOUNTED LED LIGHTING FIXTURE IN ELEVATOR PIT IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S REQUIREMENTS. LIGHTING FIXTURE SHALL BE METALUX #2VT2-LD4-DR100-UNV-L940-WL OR EQUAL BY LITHONIA, PHILIPS DAYBRITE.

⑨ CONNECT TO POWER ASSISTED DOOR IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.

⑩ PROVIDE AND INSTALL RECEPTACLE BELOW SINK FOR CONNECTION TO DISPOSAL.

⑪ ENGRAVE SWITCH COVERPLATE TO READ: "DISPOSAL".

⑫ PROVIDE AND INSTALL RECEPTACLE FOR CONNECTION TO REFRIGERATOR, +36 IN. AFF.

⑬ PROVIDE AND INSTALL COMBINATION POWER/DATA FLOOR BOX, FLUSH IN FLOOR, WITH FURNITURE FEED COVER IN FINISH AS SELECTED BY ARCHITECT AND CONNECTION TO THE FURNITURE SYSTEM. PROVIDE SEAL-TITE FLEX CONDUIT CONNECTION, MINIMUM 1.0 IN. FOR POWER AND 1.25 IN. FOR TELECOM. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.

⑭ PROVIDE AND INSTALL COMBINATION POWER/DATA/AV FLOOR BOX, FLUSH IN FLOOR, WITH IN USE COVERPLATE IN FINISH AS SELECTED BY ARCHITECT. PROVIDE 1.0 IN. MINIMUM POWER CONDUIT, 1.25 IN. MINIMUM VOICE/DATA CONDUIT AND 1.25 IN. MINIMUM AV CONDUIT FROM BELOW GRADE, UP INTO WALL TO ABOVE THE ACCESSIBLE CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.

⑮ CONNECT TO MOTOR OPERATED PROJECTION SCREEN IN ACCORDANCE WITH THE SCREEN MANUFACTURERS RECOMMENDATIONS.

⑯ PROVIDE AND INSTALL RECEPTACLE FOR KWIKBOOST CHARGING STATION. INSTALL IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.

⑰ CONNECT TO FCU/FAN COIL UNIT. INSTALL IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.

⑱ PROVIDE CONNECTION TO VAV BOX. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. VERIFY EXACT LOCATION AND QUANTITY WITH MECHANICAL DRAWINGS.

⑲ PROVIDE 2#12, 1#12 GRD - 3/4"C. CONNECT TO CIRCUIT "PP2C-29".

⑳ PROVIDE 2#12, 1#12 GRD - 3/4"C. CONNECT TO CIRCUIT "PP2B-30".

㉑ PROVIDE 2#12, 1#12 GRD - 3/4"C. CONNECT TO CIRCUIT "PP2C-31".

㉒ CONNECT TO MOTOR OPERATED SHADES IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.

㉓ PROVIDE SHADE CONTROLLER IN FLUSH WALL OUTLET BOX, +45".

㉔ PROVIDE 3/4"C., WITH CONTROL WIRING IN ACCORDANCE WITH THE SHADE MANUFACTURER'S REQUIREMENTS.

㉕ CONNECT TO AUTOMATIC SLIDING DOOR IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.

㉖ CONNECT TO CARD READER IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS. COMBINE SAME CIRCUIT IN ONE HOMERUN. △1

㉗ PROVIDE CONNECTION TO SMOKE FIRE DAMPER PER MANUFACTURER'S REQUIREMENTS. VERIFY EXACT LOCATION AND QUANTITY WITH MECHANICAL DRAWINGS. ROUTE CIRCUIT THROUGH FIRE ALARM RELAY MODULE.

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2ND FLOOR POWER PLAN

drawing no.:
E2-2
drawing of

FIRE ALARM EQUIPMENT SCHEDULE

FIRE ALARM SYSTEM EQUIPMENT SCHEDULE

QTY	ITEM DESCRIPTION	SYMBOL	MOUNTING	CATALOG NUMBER	CSFM LISTING NUMBER
1	FIRE ALARM CONTROL PANEL WITH VOICE EVACUATION "FACP"		+72" AFF TO TOP OF CABINET	SIMPLEX 4100ES 4100-9114	7165-0026-0369
2	FIRE ALARM 70.7V REMOTE AMPLIFIER FLEX 50, 50WATT AMPLIFIER "FAMP_"		+60" AFF TO TOP OF CABINET	SIMPLEX 4100-1313	7165-0026-0369
1	FIRE ALARM LCD REMOTE ANNUNCIATOR "FANN"		+66" AFF TO TOP OF CABINET	SIMPLEX 4603-9101	7120-0026-0225
2	FIRE ALARM REMOTE POWER SUPPLY "FPS_"		+60" AFF TO TOP OF CABINET	SIMPLEX EPS	7300-0026-0214
1	ADDRESSABLE MANUAL PULL STATION ON FLUSH WALL MOUNTED OUTLET BOX	F	+48" AFF TO CENTER	SIMPLEX 4099-9006	7150-0026:0224
176	ADDRESSABLE PHOTO SMOKE DETECTOR ON FLUSH CEILING MOUNTED OUTLET BOX		CEILING	SIMPLEX 4098-9714	7272-0026:0218
1	ADDRESSABLE HEAT DETECTOR ON FLUSH CEILING MOUNTED OUTLET BOX	C	CEILING	SIMPLEX 4098-9733	7270-0026:0216
5	ADDRESSABLE MONITOR MODULE MOUNTS TO 4S DEEP BOX W/4S EXT	MM	FIELD VERIFY	SIMPLEX 4090-9001	7300-0026:0223
2	ADDRESSABLE CONTROL MODULE MOUNTS TO 4S DEEP BOX W/4S EXT	CM	FIELD VERIFY	SIMPLEX 4090-9002	7300-0026:0223
8	ADDRESSABLESINGLE INPUT RELAY MODULE MOUNTS TO 4S DEEP BOX W/4S EXT	CR	FIELD VERIFY	SIMPLEX 4090-9007	7300-0026:0223
12	WEATHERPROOF SPEAKER ON FLUSH WALL MOUNTED IN WEATHERPROOF BACKBOX	WP 1W	+90" AFF TO TOP	COOPER/WHEELOCK ET1010-R	7320-0785:0105
38	FIRE ALARM SPEAKER/STROBE CEILING MOUNTED IN A 4S DEEPBOX W/4S EXT (#CD DENOTES CANDELA)	#CD	CEILING	COOPER/WHEELOCK E90-24MCC-FW	7125-0785:0152
25	FIRE ALARM CEILING MOUNTED STROBE ON 4S DEEP BOX (#CD DENOTES CANDELA)	#CD	CEILING	COOPER/WHEELOCK LSTC3	7125-0785:0169
2	FIRE ALARM WALL MOUNTED STROBE ON 4S DEEP BOX (#CD DENOTES CANDELA)	#CD	+80" - 96" AFF TO BOTTOM OF LENS	COOPER/WHEELOCK LST	7125-0785:0169
1	FIRE ALARM SPRINKLER SYSTEM WATERFLOW SWITCH		FIELD VERIFY	SYSTEM SENSOR WFD SERIES	7770-1653:0145
2	FIRE ALARM SPRINKLER SYSTEM TAMPER SWITCH		FIELD VERIFY	SYSTEM SENSOR PIBV2	7270-1653:0118
1	120VAC FIRE ALARM SPRINKLER BELL		90" A.F.F SURFACE MOUNT WP BOX	POTTER ELECTRIC PBA12010	7135-0328:0119

FIRE ALARM GENERAL NOTES

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE.

2. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESCENCE OF THE AUTHORITY HAVING JURISDICTION (FIRE MARSHAL). THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEST EQUIPMENT (e.g. DIGITAL AMMETER, DECIBEL METER) AND VERIFY THAT THE GROUND FAULT DETECTION FOR THE FIRE ALARM SYSTEM IS OPERATIONAL DURING TESTING AND REMAINS SO ONCE THE SYSTEM IS APPROVED. UPON APPROVAL OF THE FIRE ALARM SYSTEM, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPLETE SET OF OPERATING INSTRUCTIONS FOR THE SYSTEM.

3. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED PRIOR TO ANY INSPECTION AND/OR TEST.

4. AN APPROVED, STAMPED SET OF THE FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATIONS FROM THE APPROVED PLANS, INCLUDING SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE INSPECTOR OF RECORD.

5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.

6. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.

7. A "RECORD OF COMPLETION" SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.

8. ALL TERMINAL CABINETS AND JUNCTION BOXES SHALL BE CLEARLY MARKED THAT THE ENCLOSURE IS PART OF THE FIRE ALARM SYSTEM.

9. THE CONTRACTOR SHALL LOCATE ALL SMOKE DETECTION DEVICES A MINIMUM OF 36" FROM ANY MECHANICAL REGISTERS.

10. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. WIRE LENGTHS USED TO CALCULATE VOLTAGE DROPS REPRESENT ESTIMATES BASED ON MEASUREMENTS OF SCALED FLOOR PLAN DRAWINGS. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS REQUIRE. CONTRACTOR TO INSTALL ALL DEVICES ACCORDING TO MANUFACTURERS INSTRUCTIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES.

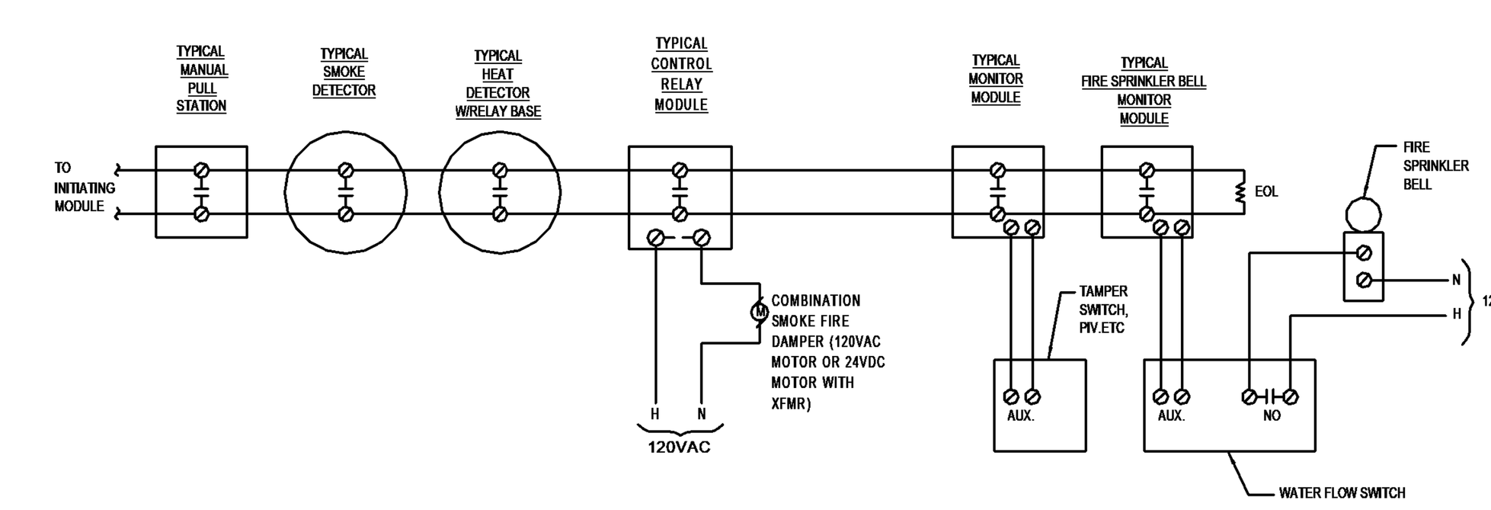
11. CONTRACTOR SHALL VERIFY LOCATION OF POST INDICATOR VALVES (PIV's) AND/OR OUTSIDE STEM & YOKE (OS&Y) VALVES INSTALLED ON FIRE SPRINKLER SERVICE. CONTRACTOR SHALL PROVIDE AND INSTALL TAMPER SWITCH(ES) AT EACH OF THESE VALVES AND INTERCONNECT TAMPER SWITCH(ES) TO THE FIRE ALARM CONTROL PANEL (FACP).

12. ALL WIRING TO BE IN CONDUIT. ALL CONDUIT IS TO BE A 3/4" MINIMUM. IF FLEX CONDUIT IS USED TO TRANSITION DOWN TO CEILING DEVICE THE FLEX CAN BE NO LONGER THAN 5 FEET.

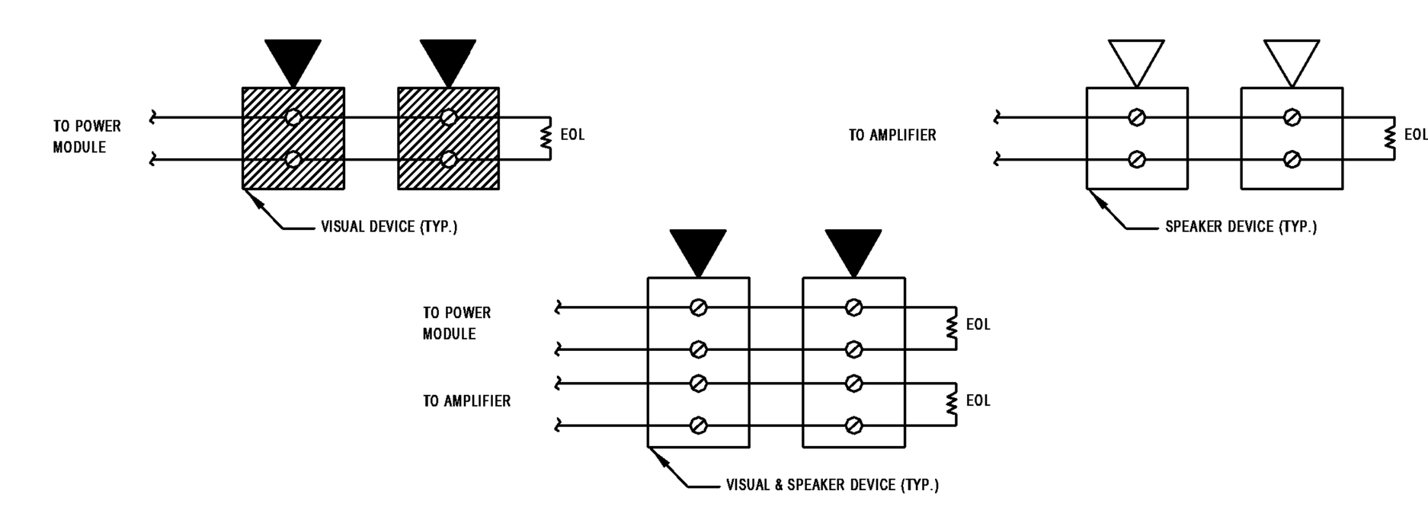
13. CONTRACTOR SHALL EXTEND AND MAKE ALL FINAL CONNECTIONS TO EXISTING FIRE ALARM AND CENTRAL MONITORING FOR A COMPLETE AND FULLY CAMPUS WIDE FIRE ALARM NETWORK SYSTEM.

14. VISIT THE SITE PRIOR TO BID AND INVESTIGATE THE EXISTING FIRE ALARM SYSTEM EQUIPMENT. COORDINATE WITH THE EXISTING SYSTEMS MANUFACTURERS FOR ALL REQUIRED EQUIPMENT MODIFICATIONS, CONDUITS, WIRING AND UPGRADING REQUIRED TO EXTEND/NETWORK THE EXISTING SYSTEM TO THE NEW BUILDINGS. INCLUDE ALL COSTS IN BID. ALL NEW COMPONENTS SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.

15. FIRE ALARM SYSTEM SPLICES ARE NOT PERMITTED IN UNDERGROUND PULLBOXES.



TYPICAL INITIATING CIRCUIT



TYPICAL NOTIFICATION CIRCUIT

FIRE ALARM WIRING DIAGRAM

FIRE ALARM SYSTEM NOTES

FIRE ALARM COMPLETE PLAN SUBMITTAL

1.0 PROJECT INFORMATION

A. OCCUPANCY GROUP

REFER TO ARCHITECTURAL DRAWINGS.

B. CONSTRUCTION TYPE

REFER TO ARCHITECTURAL DRAWINGS.

FIRE ALARM NOTE:
FIRE ALARM SUBMITTAL IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH CFC-901.1 AND 907.1.1.

C. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, PART 2, CHAPTER 7, TITLE 24. REFER TO THE ARCHITECTURAL PLANS FOR FIRE-RATE CORRIDOR(S), OCCUPANCY SEPARATION(S) AND AREA SEPARATION WALL(S).

D. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO THE ENFORCING AGENCY.

E. PROVIDE A STATEMENT OF COMPLIANCE WHEN REQUESTING INSPECTION CFC 901.2.1

F. THE FIRE ALARM SYSTEM DESIGN FOR THIS PROJECT IS ADDRESSABLE AND FULLY AUTOMATIC.

2.0 APPLICABLE CODES AND STANDARDS

A. PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2017*

2016 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.*

2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2015 INTERNATIONAL BUILDING CODE VOL. 1-2 AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
(2015 IAPMO UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2015 IAPMO UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE (CEC), PART6, TITLE 24 C.C.R.

2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
(2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2015 INTERNATIONAL EXISTING BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen), PART 11, TITLE 24 CCR

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS.

2013 ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS.

B. PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR INSTALL OF SPRINKLER SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 14	STANDARD FOR INSTALL OF STANDPIPE & HOSE SYSTEMS	2013 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL SYSTEMS	2013 EDITION
NFPA 20	INSTALL OF STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 22	STANDARD FORWATER TANKS FOR PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	STANDARD FOR THE INSTALL OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2016 EDITION
NFPA 80	STANDARD FOR FIRE DOORS & OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPARED	2002 EDITION
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2012 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2016 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2016 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2017 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2016 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1 CHPATER 10) IS FEBRUARY 25, 2016 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE ((TITLE 24, PART 1, CHAPTER 4) IS JANUARY 20, 2016.

3.0 UPON RECEIPT OF THE CERTIFICATE OF COMPLIANCE, THE INSTALLER SHALL SUPPLY THE OWNER WITH A WRITTEN OPERATING, TESTING AND MAINTENANCE INSTRUCTIONS, POINT-TO-POINT AS BUILD DRAWINGS AND EQUIPMENT SPECIFICATIONS.

4.0 NFPA 72 CHAPTER 10,14 INSPECTION TESTING AND MAINTENANCE COMPLETE THE INSPECTION AND TESTING FORM IN ITS ENTIRETY SUBMIT A COPY TO THE DISTRICT, ARCHITECT AND DSA DIVISION OF FIRE AND LIFE SAFETY.

5.0 OCCUPANCY PROHIBITED TO ANY PORTION OF BUILDING UNTIL FIRE ALARM SYSTEM HAS BEEN TESTED AND APPROVED. CBC 901.5; CFC 901.5.1
RECORD DRAWINGS OF ALL INSPECTION, TEST SHALL BE MAINTAINED ON PREMISES MINIMUM THREE YEARS. CFC 901.6.2 (5 YEARS PER TITLE 14)
SMOKE DETECTORS TO UTILIZE CALIBRATED MANUFACTURE SENSITIVITY TEST INSTRUMENT. CFC 907.9.4

6.0 CONTRACTOR TO FIELD VERIFY AND PROVIDE DECIBEL METER FOR TESTING OF AMBIENT NOISE LEVELS (MINIMUM 15db ABOVE AMBIENT NOISE LEVELS REQUIRED - SEE NPFA 72 TABLE 14.4.3.2). INSTALL ADDITIONAL AUDIBLE DEVICE AS NEEDED TO ATTAIN REQUIRED NOISE LEVELS AND INTELLIGIBILITY IN ALL REQUIRED AREAS. PROVIDE UPDATED PLANS AND CALCULATIONS THROUGH THE "CHANGE ORDER" PROCESS WHEN INSTALLING ADDITIONAL DEVICES AND OR EQUIPMENT. INSPECTOR OF RECORD (IOR) TO WITNESS FINAL TEST OF THE SYSTEM. CONTRACTOR(S) TO PROVIDE FINAL TEST RESULTS AND PROVIDE THE "RECORD OF COMPLETION FORM" TO THE ARCHITECT OF RECORD, OWNER, DIVISION OF THE STATE ARCHITECT, INSPECTOR OF RECORD (IOR)AND LOCAL FIRE AUTHORITY (AHJ).

6.1 FIRE ALARM NOTIFICATION DEVICES WITHIN THE NOTIFICATION ZONE WILL BE SYNCHRONIZED IN ACCORDANCE WITH NFPA 72 18.5.5.7

6.2 CONTRACTOR SHALL PROVIDE 24 HOUR FIRE WATCH IN CASE EXISTING CAMPUS FIRE ALARM SYSTEM IS SHUTDOWN OR DURING THE DURATION OF THE CONSTRUCTION PHASE.(IF APPLICABLE TO THE PROJECT).

6.3 EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL DURING THE BUILDING MODERNIZATION CONSTRUCTION UNTIL THE NEW FIRE ALARM SYSTEM IS INSTALLED AND FULLY OPERABLE. UPON COMPLETE FINAL TEST AND APPROVAL OF THE NEW SYSTEM, EXISTING SYSTEM AND ITS DEVCES SHALL BE DISCONNECTED AND REMOVED AS REQUIRED.(IF APPLICABLE TO THE PROJECT).

ACTION \ DEVICE	MANUAL PULL STATION	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	SPRINKLER WATERFLOW SWITCH	SPRINKLER TAMPER SWITCH	SPRINKLER POST INDICATOR VALVE (PIV)	DOUBLE DETECTOR CHECK VALVE (DDCV)		ELEVATOR MACHINE RM SMOKE DETECTOR	ELEVATOR LOBBY SMOKE DETECTOR	ELEVATOR MACHINE ROOM HEAT DETECTOR	GROUND FAULT	SHORT CIRCUIT	LOW BATTERY	FACP 12OVAC POWER FAILURE	NOTES
ANNUNCIATE / SOUND ALARM SIGNAL AT FACP AND REMOTE ANNUNCIATOR	X	X	X	X					X	X	X					
ANNUNCIATE / SOUND SUPERVISORY SIGNAL CONDITION AT FACP AND REMOTE ANNUNCIATOR					X	X	X					X	X	X		
ANNUNCIATE / SOUND TROUBLE SIGNAL AT FACP AND REMOTE ANNUNCIATOR	X	X	X	X	X	X	X		X	X	X	X	X	X	X	[1]
ACTIVATE ALL AUDIBLE/VISUAL SIGNALS THROUGHOUT THE FACILITY ON GENERAL ALARM	X	X	X	X					X	X	X					(1)
TRANSMIT ALARM, TROUBLE OR SUPERVISORY TO UL LISTED 24HR CENTRAL MONITORING STATION	X	X	X	X	X	X	X		X	X	X	X	X	X	X	
SHUTDOWN AIR HANDLING EQUIPMENT		X							X	X	X					[2]
CLOSE RESPECTIVE SMOKE FIRE DAMPERS		X							X	X	X					[3]
ELEVATOR POWER SHUNT TRIP											X					
PRIMARY / ALT. ELEVATOR RECALL									X	X						[4]
SOUND SPRINKLER BELL				X												

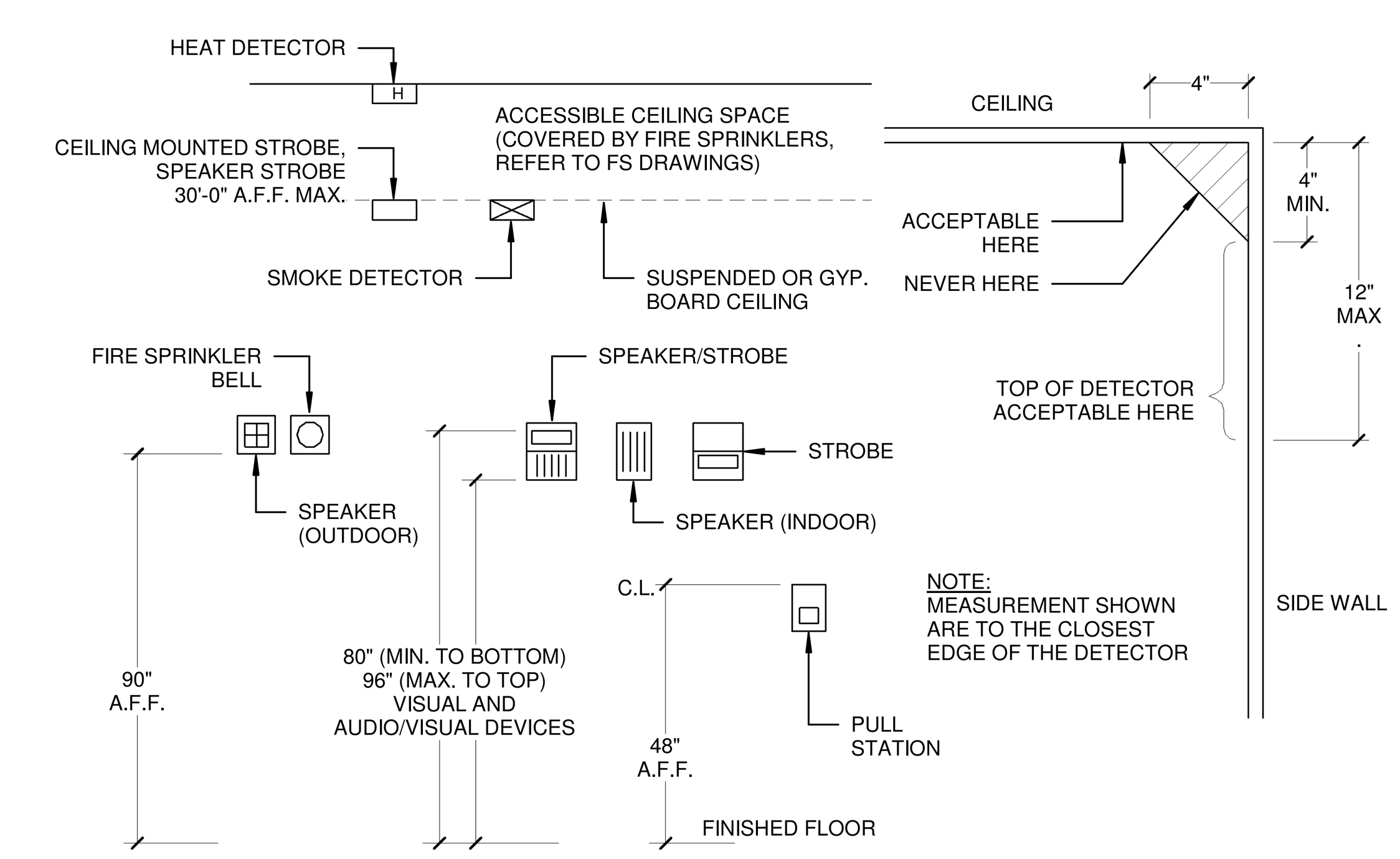
3

NOTES:
[1] INDICATE TROUBLE ON WIRING FAULT OR DEVICE AS REQUIRED.
[2] SHUTDOWN ONLY AIR HANDLER EQUIPMENT IN THE BUILDING OR AREA WHERE ALARM CONDITION OCCURS.
[3] CLOSE ONLY SMOKE AND FIRE DAMPERS IN THE BUILDING OR AREA HERE ALARM CONDTION OCCURS.
[4] RECALL ONLY THE ELEVATORS IN THE BUILDING WHERE THE ALARM CONDITION HAS OCCURRED.
3

(1) PRE-RECORDED FIRE ALARM VOICE EVACUATION SIGNAL SHALL BE A FEMALE VOICE, AND SOUND OFF:
"MAY I HAVE YOUR ATTENTION PLEASE, MAY I HAVE YOUR ATTENTION PLEASE A FIRE HAS BEEN REPORTED IN THE BUILDING. PLEASE PROCEED TO THE NEAREST EXIT AND EXIT THE BUILDING".
MESSAGE SHALL REPEAT UNTIL MANUALLY DISABLED/SILENCED AT MAIN FIRE CONTROL PANEL OR ANNUNCIATOR PANEL.

**FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS THROUGH THE TELEPHONE LINES TO AN APPROVED MONITOR COMPANY IN ACCORDANCE WITH NFPA 72. THE MONITOR COMPANY SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC.

SEQUENCE OF OPERATION



PULL STATION / HORN / STROBE ELEVATION

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architect

FBAEngineering
consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

file name: CC_SS_E_R18_Central.rvt

drawn by: FBA checked by: RR

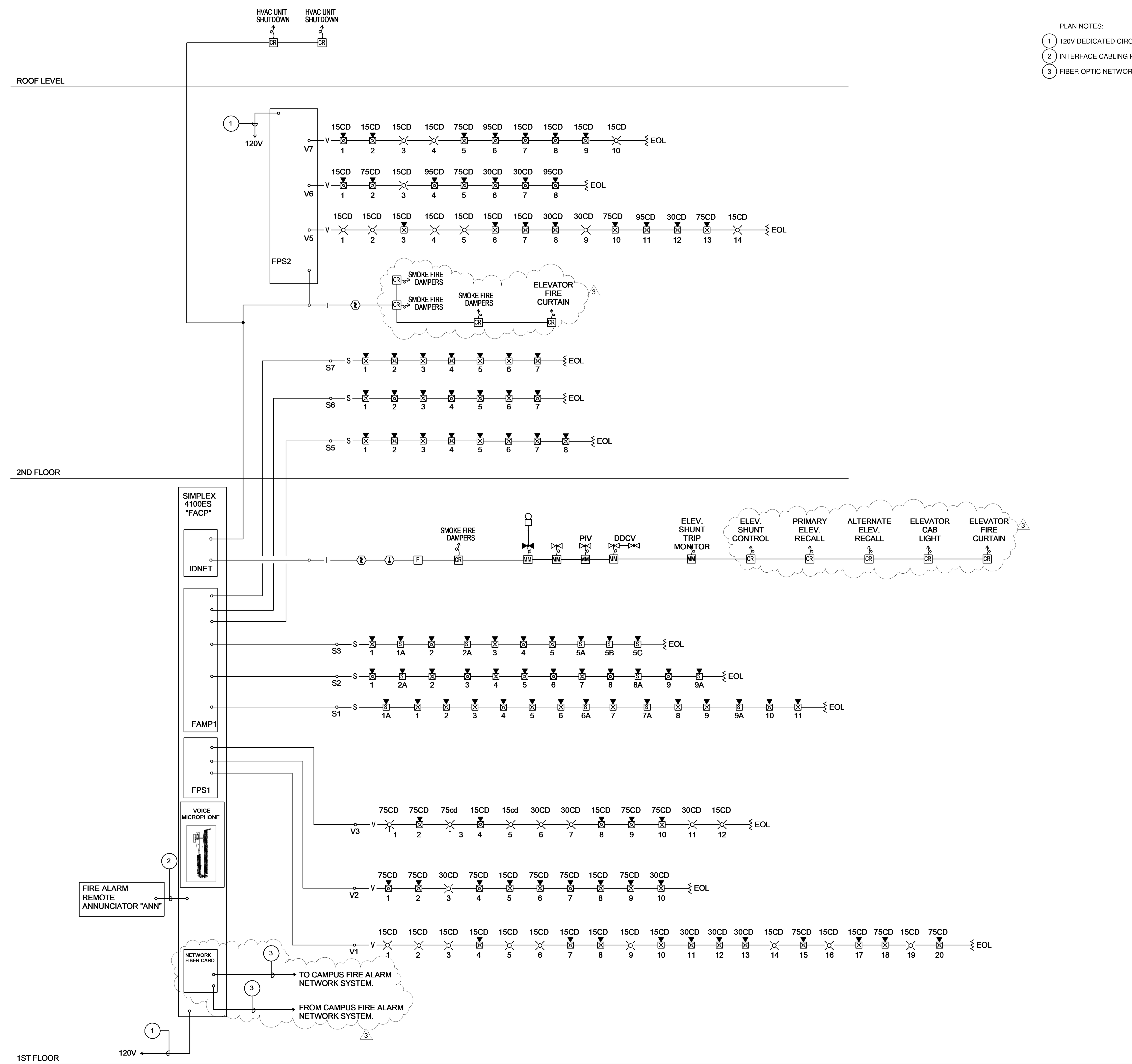
date: 9.03.2019

rev:	date:	description:
1	11/20/19	Addendum 1
2	12/11/19	Addendum 2
3	12/30/19	Addendum 4

drawing title:
FIRE ALARM SCHEDULE, NOTES AND DETAILS

drawing no.:
EF-1

drawing of



PLAN NOTES:

1. 120V DEDICATED CIRCUIT WITH "LOCK-ON" DEVICE.
2. INTERFACE CABLING PER MANUFACTURER'S REQUIREMENTS.
3. FIBER OPTIC NETWORK CABLING PER MANUFACTURER'S REQUIREMENTS.

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3	12/30/19	Addendum 4

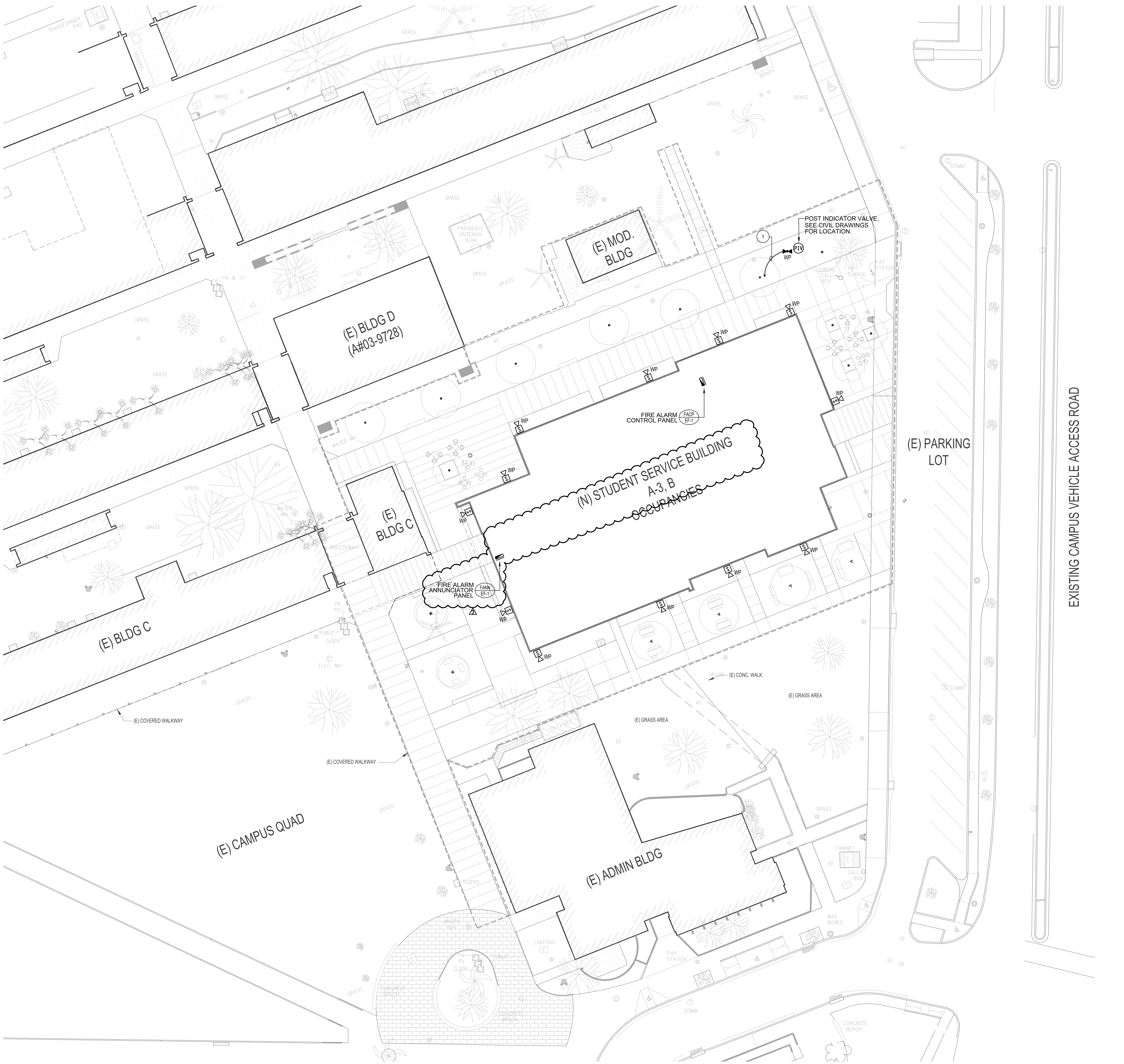
drawing title:
FIRE ALARM RISER DIAGRAM

drawing no.:
EF-3

drawing of

KEY NOTES

1. PROVIDE 2#16 THWN IN 3/4" C. TO FIRE RISER ROOM.



ENLARGED SITE FIRE ALARM PLAN

SCALE: 1" = 20'-0"

0 5 10 20 40

NORTH

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3	12/30/19	Addendum 4

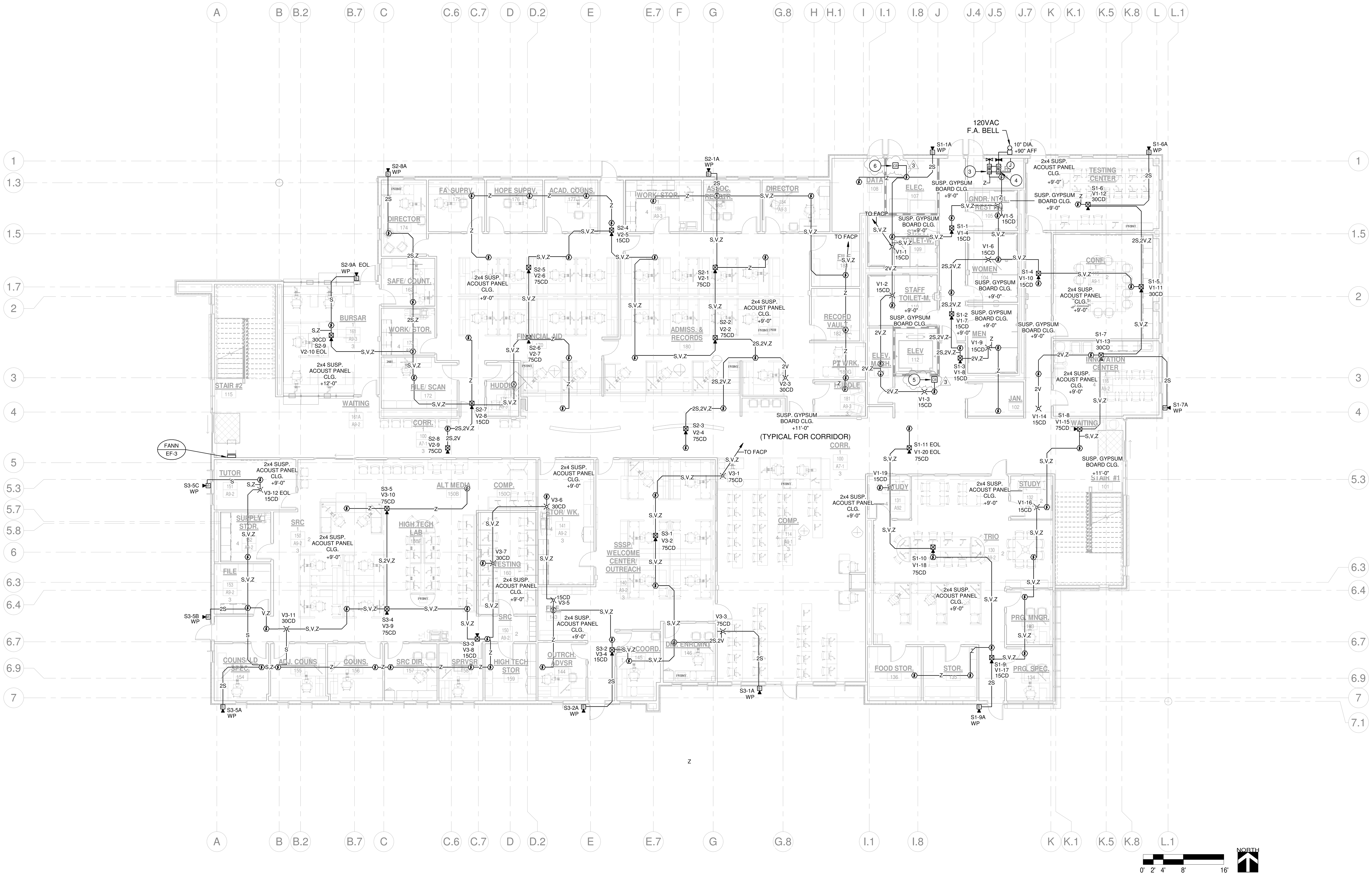
drawing title:

ENLARGED SITE FIRE ALARM PLAN

drawing no.:

EF-4

drawing of ?



1ST FLOOR FIRE ALARM PLAN (1)

SCALE 1/8" = 1'-0"

KEY NOTES

PLAN NOTES:

1. ALL INTERIOR SPEAKER TO BE TAPPED @ 1/2 WATT.
2. ALL EXTERIOR SPEAKER TO BE TAPPED @ 1 WATT.
3. MONITOR MODULE FOR SITE PIV.
4. MONITOR MODULE FOR DOUBLE DETECTOR CHECK VALVE. VERIFY LOCATION WITH SPRINKLER PLANS.
5. PROVIDE FIRE ALARM ADDRESSABLE RELAY MODULE FOR CONNECTION TO ELEVATOR FIRE CURTAIN. (3)
6. PROVIDE FIRE ALARM ADDRESSABLE RELAY FOR CONNECTION TO SMOKE FIRE DAMPER CIRCUIT.

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949.852.9995 • 949.852.1657 (fax)
fbaengr.com
FBA Job Number: 212.220
REGISTERED PROFESSIONAL ENGINEER STEPHEN R. ZAJICEK No. E 10372 Exp. 09-30-20 ELECTRICAL STATE OF CALIFORNIA
consultant

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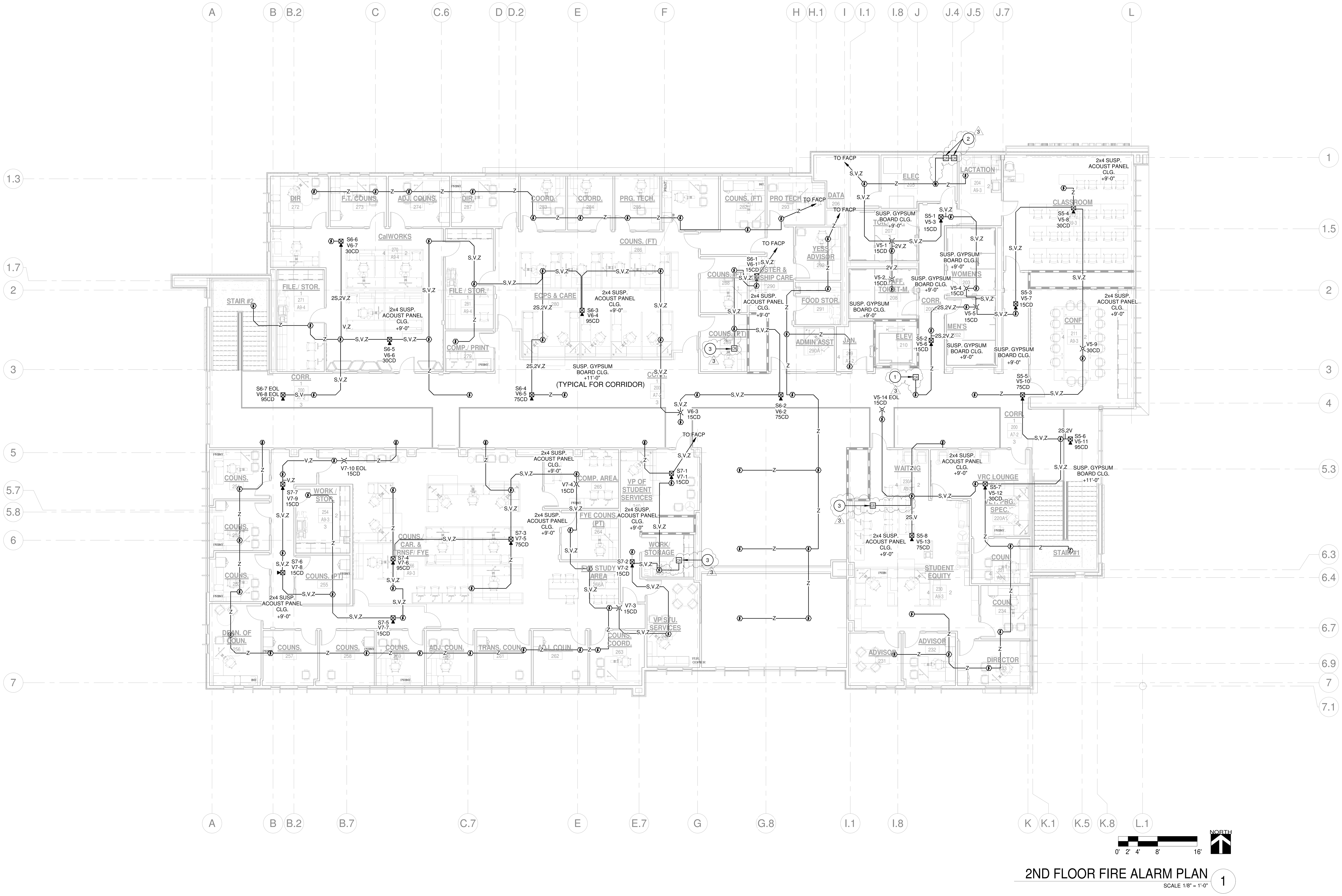
drawing title:
1ST FLOOR FIRE ALARM PLAN

drawing no.:
EF-5

drawing of



KEY NOTES

1. PROVIDE FIRE ALARM ADDRESSABLE RELAY MODULE FOR CONNECTION TO ELEVATOR FIRE CURTAIN.
2. PROVIDE FIRE ALARM ADDRESSABLE RELAY FOR CONNECTION TO HVAC UNITS AT ROOFTOP FOR UNIT SHUTDOWN.
3. PROVIDE FIRE ALARM ADDRESSABLE RELAY MODULE FOR CONNECTION TO FIRE/SMOKE DAMPER CIRCUIT.

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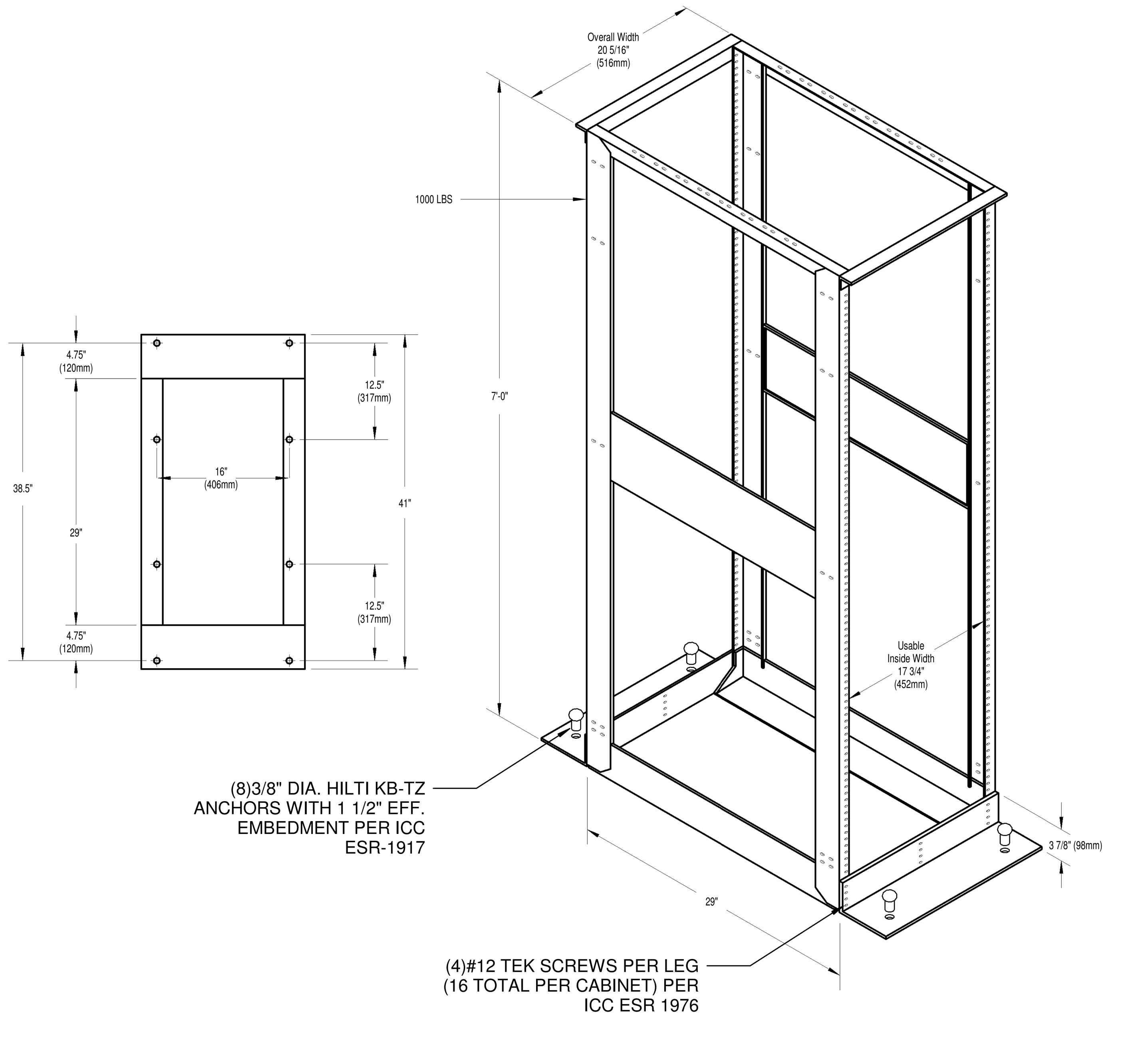
2	12/11/19	Addendum 2
3	12/30/19	Addendum 4

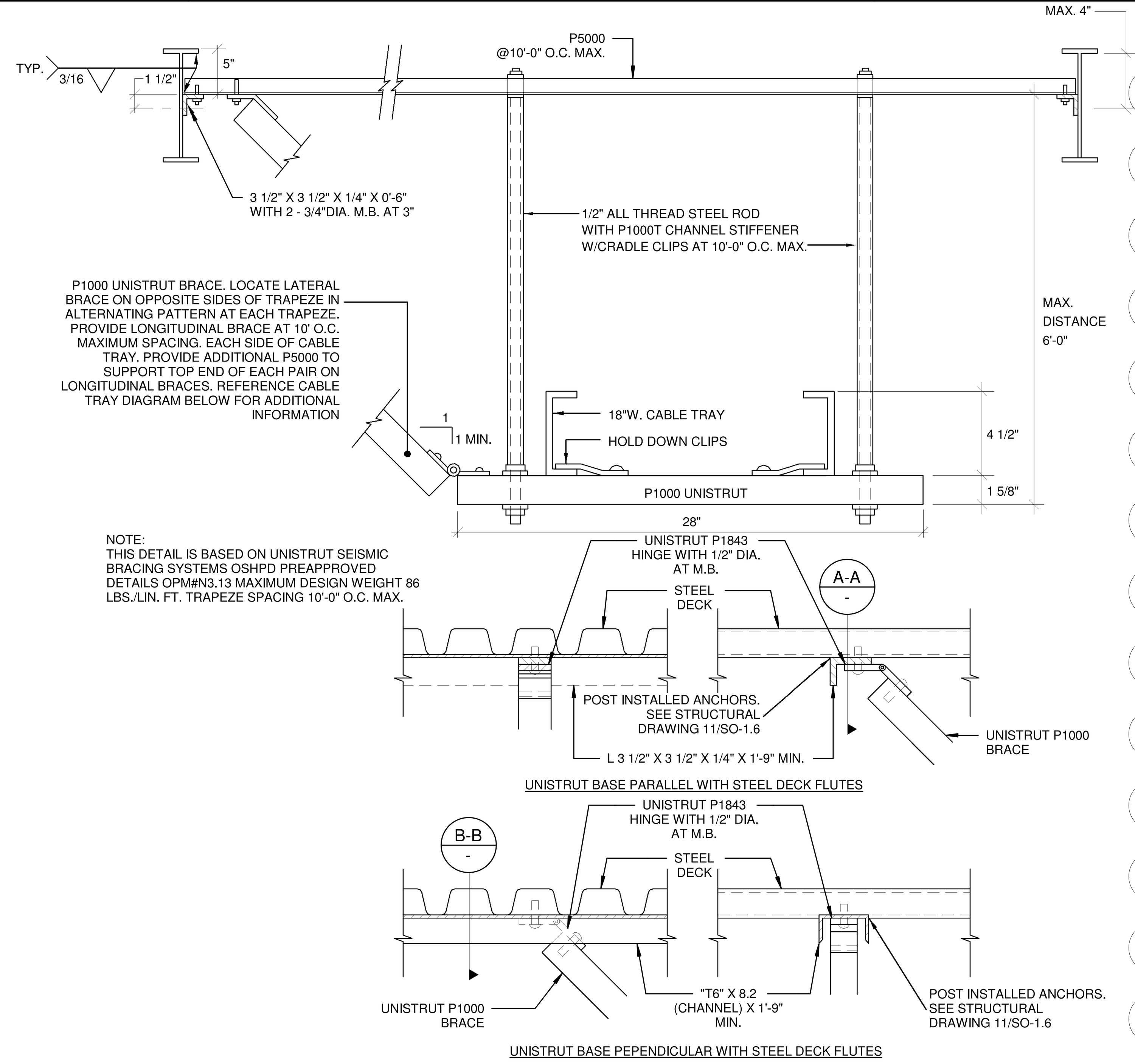
drawing title:
2ND FLOOR FIRE ALARM PLAN

drawing no.:
EF-6

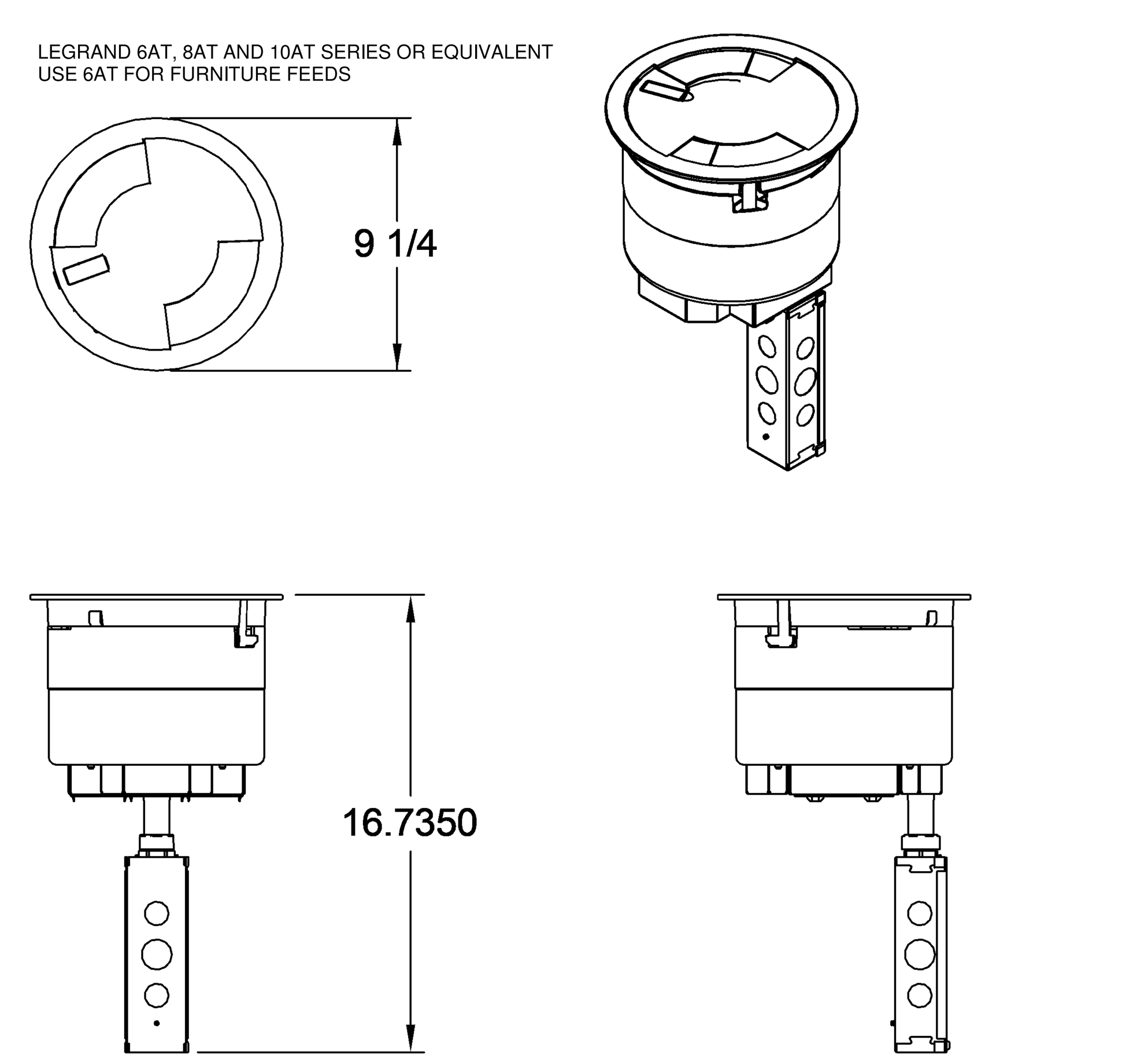
drawing of



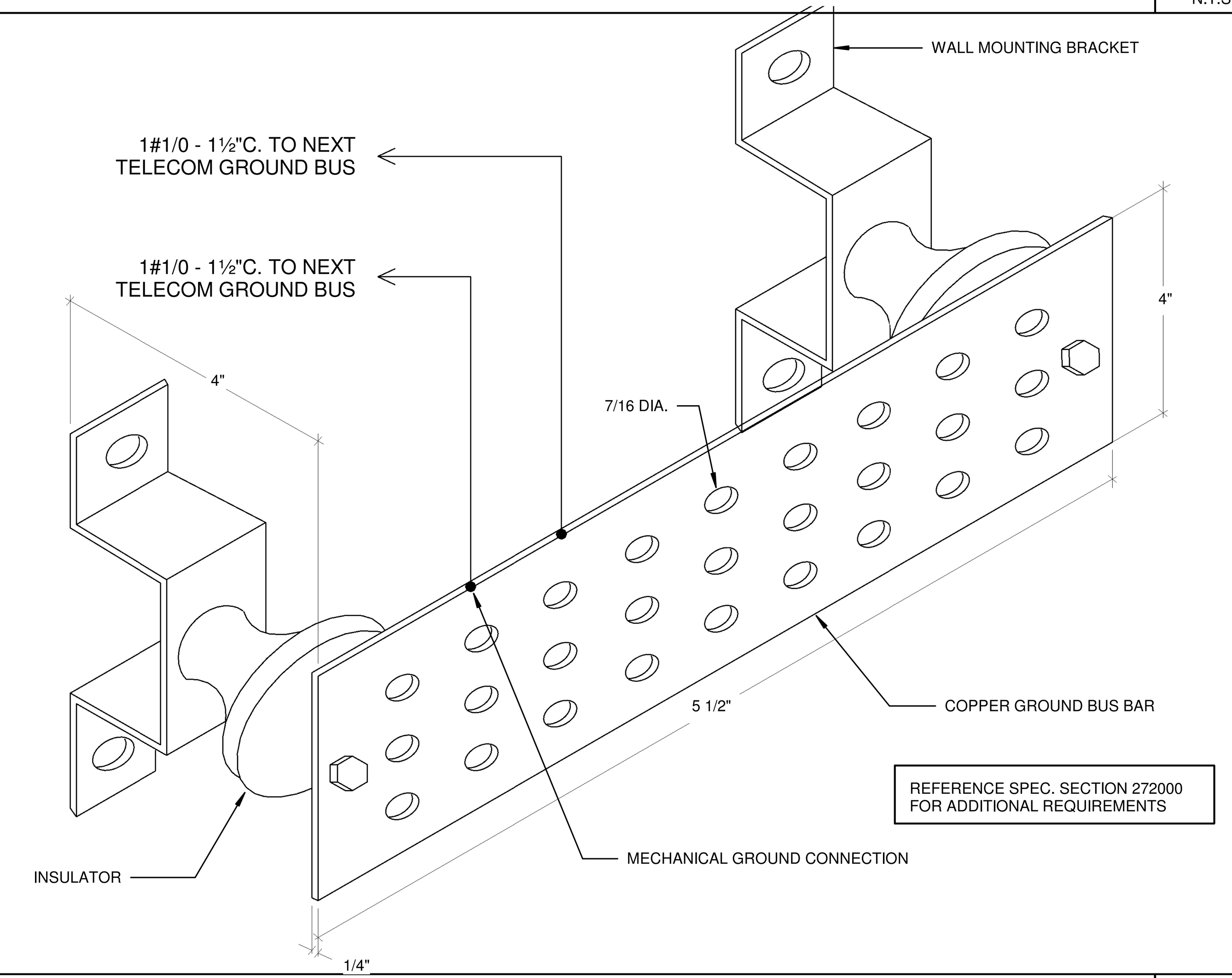
4 - POST RACK ANCHORAGE DETAIL | SCALE N.T.S. | 6



CABLE TRAY ANCHORAGE DETAIL | SCALE N.T.S. | 3



POKE-TI2ND FLOOR | SCALE N.T.S. | 5

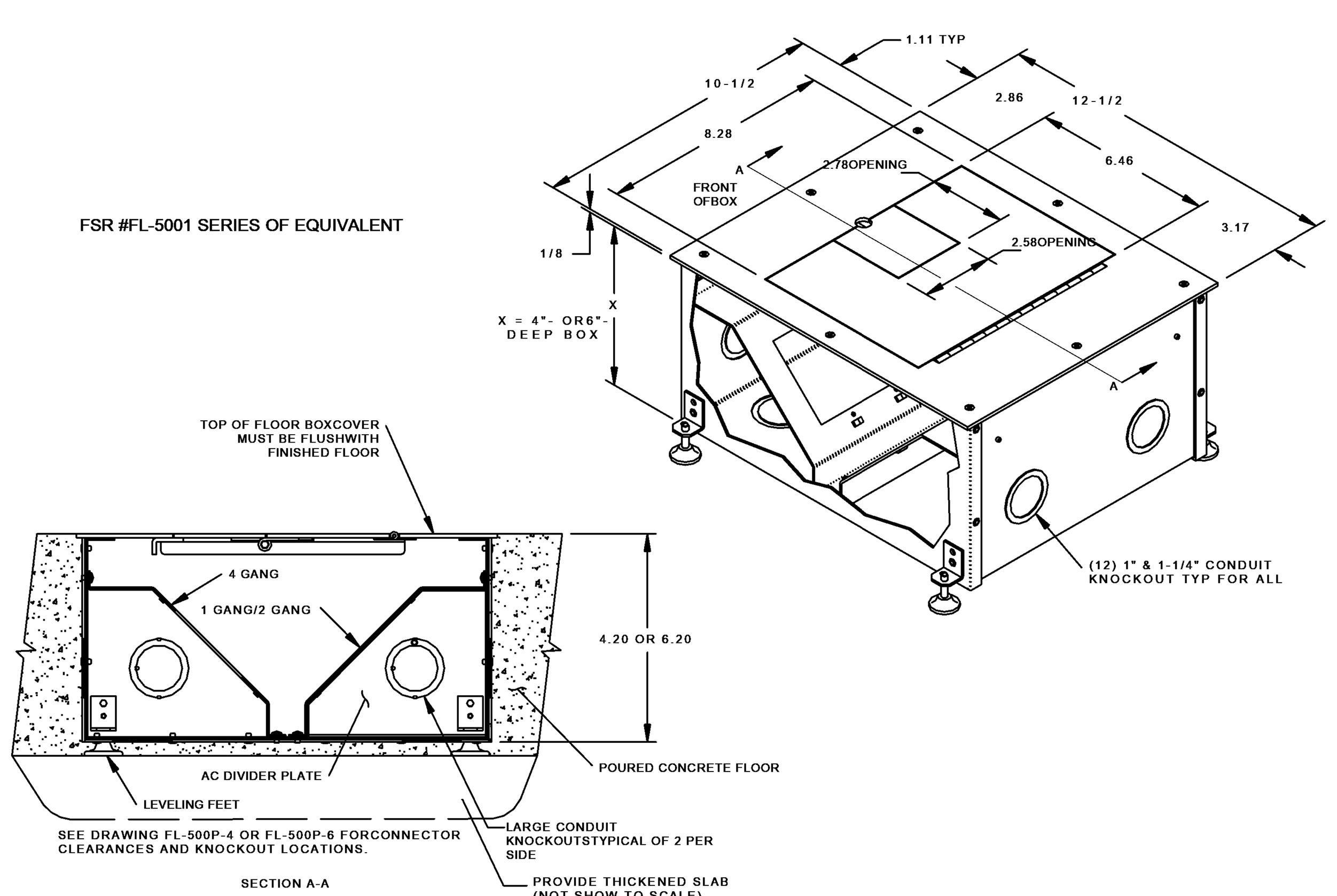


TECHNICAL GROUND BUS - ALL IDF'S | SCALE N.T.S. | 2

TELECOM SYMBOL LIST

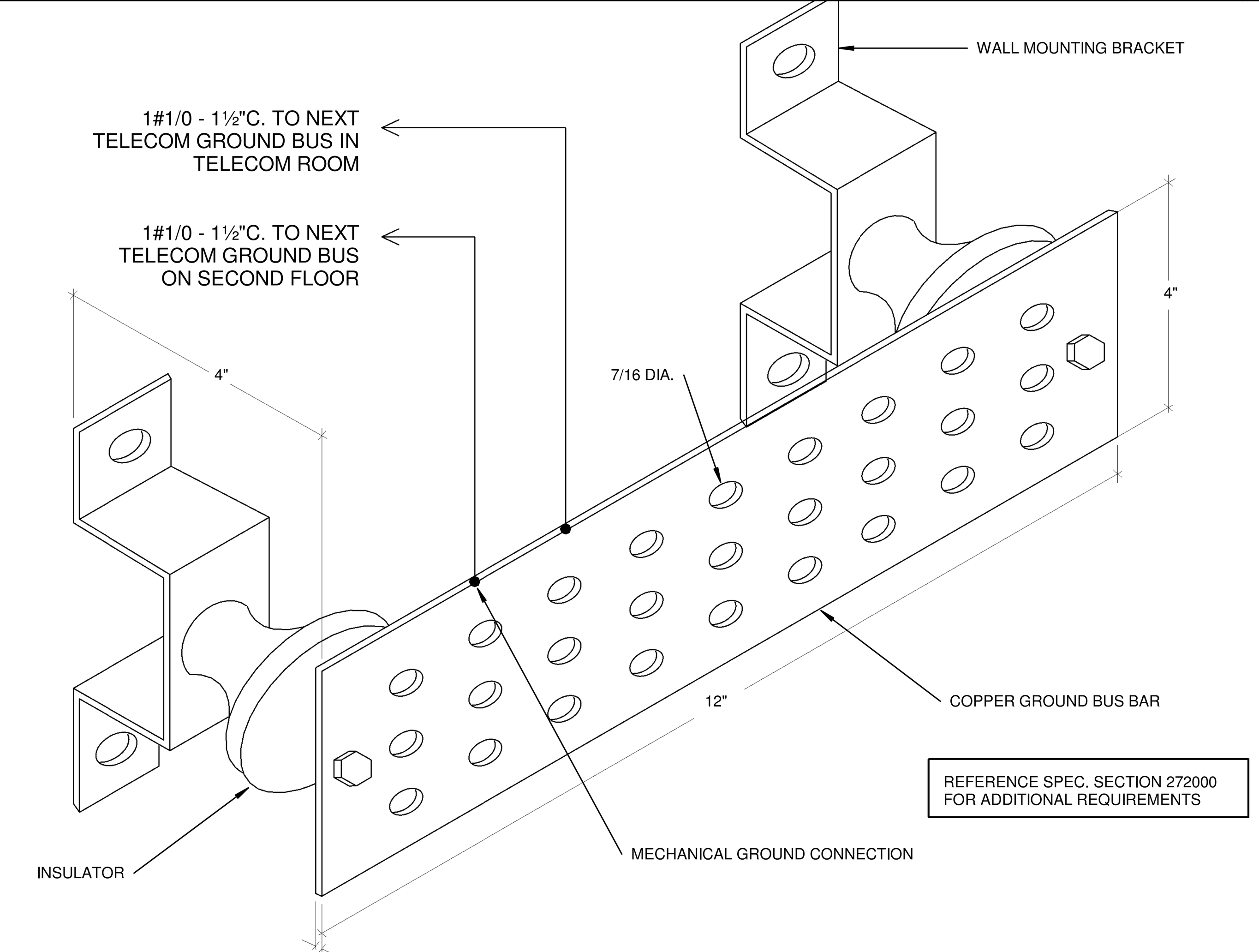
Symbol	Description
TV	TELEVISION/COAX SYSTEM - 1"C. WITH COAX CABLES AS SPECIFIED.
M1	MICROPHONE SYSTEM - 3/4"C. WITH CABLING AS SPECIFIED. M2 - 1"C. WITH CABLING AS SPECIFIED. M3 - 1 1/4"C. WITH CABLING AS SPECIFIED. M4 - (2) 1"C. WITH CABLING AS SPECIFIED.
ID	INTRUSION DETECTION SYSTEM - 3/4"C., WITH INTRUSION DETECTION SYSTEM CABLING AS SPECIFIED.
1V	TELEPHONE/VOICE SYSTEM - 3/4"C. WITH ONE (1) TELEPHONE SYSTEM CABLE AS SPECIFIED. 2V - 1"C. WITH TWO (2) TELEPHONE SYSTEM CABLES AS SPECIFIED. 3V - 1 1/4"C. WITH THREE (3) TELEPHONE SYSTEM CABLES AS SPECIFIED. 4V - 1 1/4"C. WITH FOUR (4) TELEPHONE SYSTEM CABLES AS SPECIFIED.
P	PUBLIC ADDRESS SYSTEM - 3/4"C., WITH PA SYSTEM CABLING AS SPECIFIED.
AV	A/V SYSTEM - PROVIDE 1-1/2"C FROM AV CONTROLLER TO SWITCH AT PROJECTOR ON DISPLAY.
1D	COMPUTER/DATA PROCESSING SYSTEM - 1"C., WITH ONE (1) DATA NETWORK CABLE AS SPECIFIED. 2D - 1"C. WITH TWO (2) DATA NETWORK CABLES AS SPECIFIED. 3D - 1"C. WITH THREE (3) DATA NETWORK CABLES AS SPECIFIED. 4D - 1 1/4"C. WITH FOUR (4) DATA NETWORK CABLES AS SPECIFIED. 5D - 1 1/4"C. WITH FOUR (5) DATA NETWORK CABLES AS SPECIFIED. 6D - 1 1/4"C. WITH FOUR (6) DATA NETWORK CABLES AS SPECIFIED.
1D	COMPUTER/DATA OUTLET ON FLUSH IN WALL OUTLET BOX, +18 IN. AFF., UNO. PROVIDE AND INSTALL ONE (1) DATA NETWORK OUTLET CONNECTOR, COVERPLATE, OUTLET BOX AND MINIMUM 1 IN. CONDUIT CONCEALED IN WALL TO ABOVE THE ACCESSIBLE CEILING SPACE. PROVIDE AND INSTALL INSULATED THROAT BUSHINGS. PROVIDE AND INSTALL ONE (1) DATA NETWORK CABLE AS SPECIFIED FROM OUTLET, THROUGH CONDUIT TO ABOVE THE CEILING AND ON TO THE RESPECTIVE BDF/IDF.
2D	COMPUTER/DATA OUTLET ON FLUSH IN WALL OUTLET BOX, +18 IN. AFF. UNO. PROVIDE AND INSTALL TWO (2) DATA NETWORK OUTLET CONNECTORS, COVERPLATE, OUTLET BOX AND MINIMUM 1 IN. CONDUIT CONCEALED IN WALL TO ABOVE THE ACCESSIBLE CEILING SPACE. PROVIDE AND INSTALL INSULATED THROAT BUSHINGS. PROVIDE AND INSTALL TWO (2) DATA NETWORK CABLES AS SPECIFIED FROM OUTLET, THROUGH CONDUIT TO ABOVE THE CEILING AND ON TO THE RESPECTIVE BDF/IDF.
3D	COMPUTER/DATA OUTLET ON FLUSH IN WALL OUTLET BOX, +18 IN. AFF. UNO. PROVIDE AND INSTALL THREE (3) DATA NETWORK OUTLET CONNECTORS, COVERPLATE, OUTLET BOX AND MINIMUM 1.25 IN. CONDUIT CONCEALED IN WALL TO ABOVE THE ACCESSIBLE CEILING SPACE. PROVIDE AND INSTALL INSULATED THROAT BUSHINGS. PROVIDE AND INSTALL THREE (3) DATA NETWORK CABLES AS SPECIFIED FROM OUTLET, THROUGH CONDUIT TO ABOVE THE CEILING AND ON TO THE RESPECTIVE BDF/IDF.
4D	COMPUTER/DATA OUTLET ON FLUSH IN WALL OUTLET BOX, +18 IN. AFF. UNO. PROVIDE AND INSTALL (4) DATA NETWORK OUTLET CONNECTORS, COVERPLATE, OUTLET BOX AND MINIMUM 1.25 IN. CONDUIT CONCEALED IN WALL TO ABOVE THE ACCESSIBLE CEILING SPACE. PROVIDE AND INSTALL INSULATED THROAT BUSHINGS. PROVIDE AND INSTALL FOUR (4) DATA NETWORK CABLES AS SPECIFIED FROM OUTLET, THROUGH CONDUIT TO ABOVE THE CEILING AND ON TO THE RESPECTIVE BDF/IDF.
6D	COMPUTER/DATA OUTLET ON FLUSH IN WALL OUTLET BOX, +18 IN. AFF. UNO. PROVIDE AND INSTALL SIX (6) DATA NETWORK OUTLET CONNECTORS, COVERPLATE, OUTLET BOX AND MINIMUM 1.25 IN. CONDUIT CONCEALED IN WALL TO ABOVE THE ACCESSIBLE CEILING SPACE. PROVIDE AND INSTALL INSULATED THROAT BUSHINGS. PROVIDE AND INSTALL SIX (6) DATA NETWORK CABLES AS SPECIFIED FROM OUTLET, THROUGH CONDUIT TO ABOVE THE CEILING AND ON TO THE RESPECTIVE BDF/IDF.
1T	TELEPHONE OUTLET IN FLUSH IN WALL OUTLET BOX, +45 IN. AFF UNO. PROVIDE AND INSTALL HANDSET, VOICE OUTLET CONNECTOR, OUTLET BOX AND 1 IN. CONDUIT CONCEALED IN WALL TO ABOVE THE ACCESSIBLE CEILING. PROVIDE AND INSTALL ONE (1) DATA NETWORK CABLE AS SPECIFIED FROM THE OUTLET, IN CONDUIT AND TERMINATE AT THE RESPECTIVE BDF/IDF.
1D AP	WIRELESS ACCESS POINT AT CEILING. PROVIDE AND INSTALL ACCESS POINT, ONE (1) DATA NETWORK CABLE WITH 15 FOOT SERVICE LOOPS, BACK TO THE RESPECTIVE BDF/IDF. INSTALL ACCESS POINT IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS INSTALLATION REQUIREMENTS.
1D AP	WIRELESS ACCESS POINT, WALL MOUNTED AT +90 IN. UNO. PROVIDE AND INSTALL ACCESS POINT, ONE (1) DATA NETWORK CABLE WITH 20 FOOT SERVICE LOOP, BACK TO THE RESPECTIVE BDF/IDF. INSTALL ACCESS POINT IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS INSTALLATION REQUIREMENTS. OUTDOOR LOCATIONS SHALL BE WEATHERPROOF.
1D P	COMPUTER/DATA OUTLET CONNECTOR AT CEILING AND CONNECTION TO IN CEILING AV AMPLIFIER AND PROJECTION SYSTEM. INSTALL IN ACCORDANCE WITH THE AV SYSTEM MANUFACTURERS REQUIREMENTS.
"E"	DESIGNATION INDICATES DEDICATED TELEPHONE LINES FOR ELEVATOR.
M	INTERCOM MICROPHONE ON FLUSH CEILING MOUNTED OUTLET BOX.
S	AUDIO ENHANCEMENT SPEAKER IN FLUSH CEILING MOUNTED BACKBOX.
(clock)	12.5" DIA. ANALOG SELF CORRECTING 120V. OPERATED CLOCK, + 90" A.F.F. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS.
+45"	MOUNTING HEIGHT TO CENTER LINE OF DEVICE FROM FINISH FLOOR OR EXTERIOR GRADE
1	PLAN NOTE CALLOUT. REFER TO CORRESPONDING NOTE ON DRAWING WHERE CALLOUT OCCURS.
WP	WEATHERPROOF EXTERIOR LONG THROW PUBLIC ADDRESS HORN SPEAKER, WALL MOUNTED.
AV	AV CONNECTOR PLATE ON FLUSH IN WALL OUTLET BOX, +90 IN. AFF UNO. INSTALL IN FLUSH IN WALL BOX, SIZE PER MANUFACTURERS REQUIREMENTS, AT LCD DISPLAY LOCATION. PROVIDE 1.25 IN. CONDUIT TO ABOVE THE ACCESSIBLE CEILING. PROVIDE AV CABLING AS SPECIFIED.
AV P	AV IN CEILING AMPLIFIER NEAR PROJECTOR LOCATION AS SPECIFIED FOR TERMINATION/CONNECTION OF AV AND PROJECTION SYSTEM. PROVIDE AND INSTALL COMPLETE AS SPECIFIED AND IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS REQUIREMENTS.
TC	AUDIO/VIDEO CONTROL PANEL, ON FLUSH IN WALL MOUNTED OUTLET BOX, +45"A.F.F. LOCATED AT INSTRUCTOR'S DESK. PROVIDE CONTROL PANEL, OUTLET BOX AND 1" CONDUIT CONCEALED IN WALL TO THE AV CONNECTOR PLATE. AT +18"A.F.F. PROVIDE AV CABLING BETWEEN AV CONTROL PANEL AND AV CONNECTOR PLATE IN ACCORDANCE WITH THE AV SYSTEM REQUIREMENTS.
TV	TELEVISION/COAX OUTLET ON FLUSH IN WALL OUTLET, +60"U.O.N.
G	GLASS BREAK DETECTOR.
K	INTRUSION DETECTION KEY PAD, ON FLUSH WALL MOUNTED OUTLET BOX, +45".
C	INTRUSION DETECTION SYSTEM DOOR CONTACT SWITCH. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
S	MINI INTRUSION SIREN
ID	INTRUSION DETECTION OCCUPANCY MOTION SENSOR, ON FLUSH CEILING MOUNTED OUTLET BOX.
P	INTRUSION PANIC BUTTON IN FLUSH IN WALL OUTLET BOX, +45".
M	MICROPHONE OUTLET, ON FLUSH WALL MOUNTED OUTLET BOX, + 18".
E	ASSISTIVE LISTENING SYSTEM EMITTER, +90".
VP	HANDS-FREE IP CALL BOX, FLUSH WALL MOUNT, +45".
S 1D	INDOOR PUBLIC ADDRESS SPEAKER. PROVIDE AND INSTALL ON FLUSH IN CEILING BACKBOX. PROVIDE AND INSTALL ONE (1) DATA NETWORK CABLE ABOVE THE CEILING FROM THE SPEAKER TO THE RESPECTIVE BDF/IDF. PROVIDE INDOOR CEILING MOUNTED PAGING SPEAKERS POE+, IP BASED, AtlasIED #IHVP+ COMPLETE WITH FLUSH MOUNT ENCLOSURE SPEAKERS, BACKBOX AND VANDAL RESISTANT GRILLE. INSTALL IN CEILING SYSTEMS PER MANUFACTURERS REQUIREMENTS.
CR	ACCESS CONTROL CARD READER. PROVIDE AND INSTALL IN FLUSH IN WALL OUTLET BOX, +45 IN. AFF. PROVIDE AND INSTALL A .75 IN. CONDUIT CONCEALED IN WALL TO THE CONTROLLER/POWER SUPPLY ABOVE THE ACCESSIBLE CEILING. SEE SPECIFICATIONS.
J F	COMPUTER/DATA NETWORK FURNITURE FEED WALL MOUNTED JUNCTION BOX, +18 IN. AFF UNO. PROVIDE AND INSTALL JUNCTION BOX, SEAL TITE FLEX CONDUIT, 1.25 IN. MINIMUM AND CONNECTION TO THE FURNITURE SYSTEM. PROVIDE AND INSTALL OUTLET BOX(ES) SIZED TO ACCOMMODATE THE QUANTITY OF CABLES INDICATED. PROVIDE QUANTITY OF 1.25 IN. CONDUITS FROM JUNCTION BOX, CONCEALED IN WALL TO ABOVE THE ACCESSIBLE CEILING. PROVIDE AND INSTALL ONE (1) 1.25 IN. CONDUIT FOR EVERY SIX (6) DATA NETWORK CABLES REQUIRED. TERMINATE CABLES AT THE RESPECTIVE BDF/IDF.
C	INDOOR CLOSED-CIRCUIT TELEVISION CAMERA, CEILING MOUNTED. PROVIDE AND INSTALL CCTV CAMERA AS SPECIFIED, CEILING OUTLET BOX AND ONE (1) DATA NETWORK CABLE FROM CAMERA TO THE RESPECTIVE BDF/IDF. PROVIDE 20 FOOT CABLE SERVICE LOOP AT CAMERA LOCATION.
C	OUTDOOR CLOSED-CIRCUIT TELEVISION CAMERA, WALL MOUNT AT +108 IN. A.F.G. PROVIDE AND INSTALL CCTV CAMERA AS SPECIFIED, WEATHERPROOF WALL MOUNTED OUTLET BOX AND ONE (1) DATA NETWORK CABLE FROM CAMERA TO THE RESPECTIVE BDF/IDF. PROVIDE 20 FOOT CABLE SERVICE LOOP AT CAMERA LOCATION.
(floor box)	MULTI-SERVICE POWER/DATA FLUSH IN FLOOR BOX COMPLETE WITH FLUSH COVER. PROVIDE AND INSTALL MULTI SERVICE FLOOR BOX WITH QUANTITY OF DUPLEX POWER OUTLETS (SEE POWER PLANS) AND COMPUTER/DATA OUTLET CONNECTORS INDICATED. PROVIDE ONE (1) 1.25 IN. BELOW GRADE CONDUIT FOR EVERY FOUR (4) DATA OUTLET CONNECTORS AND CABLES INDICATED. PROVIDE AND INSTALL QUANTITY OF CABLES INDICATED AND TERMINATE AT THE RESPECTIVE BDF/IDF. PROVIDE ONE (1) DATA NETWORK TERMINATION DEVICE IN THE FURNITURE SYSTEM FOR EACH WORK STATION INDICATED AND CONNECT IN ACCORDANCE WITH THE FURNITURE SYSTEMS MANUFACTURERS REQUIREMENTS. "FF" INDICATES PROVIDE WITH FURNITURE COVER.
(floor box AV)	MULTI-SERVICE POWER/DATA/AUDIO VISUAL FLUSH IN FLOOR BOX COMPLETE WITH FLUSH COVER. PROVIDE AND INSTALL MULTI SERVICE FLOOR BOX WITH QUANTITY OF DUPLEX POWER OUTLETS (SEE POWER PLANS), COMPUTER/DATA OUTLET CONNECTORS AND AUDIO VIDEO CONNECTOR PLATES AS INDICATED. PROVIDE ONE (1) 1.25 IN. BELOW GRADE CONDUIT FOR EVERY FOUR (4) DATA OUTLET CONNECTORS AND CABLES INDICATED. PROVIDE AND INSTALL QUANTITY OF CABLES INDICATED AND TERMINATE AT THE RESPECTIVE BDF/IDF. FOR AV, PROVIDE AND INSTALL INSTRUCTOR'S AV CONNECTOR PLATE, ONE (1) 1.5 IN. CONDUIT FROM THE FLOOR BOX, TO THE WALL AND TO ABOVE THE ACCESSIBLE CEILING. PROVIDE HDMI/VGA CABLING, ETC. AS SPECIFIED. "FF" INDICATES PROVIDE WITH FURNITURE FEED COVER.
PT	SIMILAR TO MULTI-SERVICE POWER/DATA FLUSH IN FLOOR BOX BUT POKE THROUGH DEVICE AT UPPER FLOORS. "PT" DESIGNATION INDICATES PROVIDE AND INSTALL POKE THROUGH DEVICE AS SPECIFIED. "FF" INDICATES PROVIDE WITH FURNITURE FEED COVER.
PT (AV)	SIMILAR TO MULTI-SERVICE POWER/DATA/AV FLUSH IN FLOOR BOX BUT POKE THROUGH DEVICE AT UPPER FLOORS. "PT" DESIGNATION INDICATES PROVIDE AND INSTALL POKE THROUGH DEVICE AS SPECIFIED. "FF" INDICATES PROVIDE WITH FURNITURE FEED COVER.

3



1ST FLOOR

FLOOR BOX DETAIL | SCALE N.T.S. | 4



TECHNICAL GROUND BUS - BDF | SCALE N.T.S. | 1

1. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR CASEWORK LOCATIONS AND INSTALL ALL OUTLETS IN MOUNTING HEIGHTS AND LOCATIONS AS DIRECTED BY THE ARCHITECT. VERIFY ALL MOUNTING HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN. CONTRACTOR SHALL INCLUDE ALL COSTS IN BID TO COMPLY WITH THIS PROVISION.

PERFORMANCE NOTES

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355 SOUTH GRAND AVENUE, SUITE 2100
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consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number: 20987.00
file name: CC_SS_E_R18_Central.rvt
drawn by: FBA checked by: RR
date: 9.03.2019

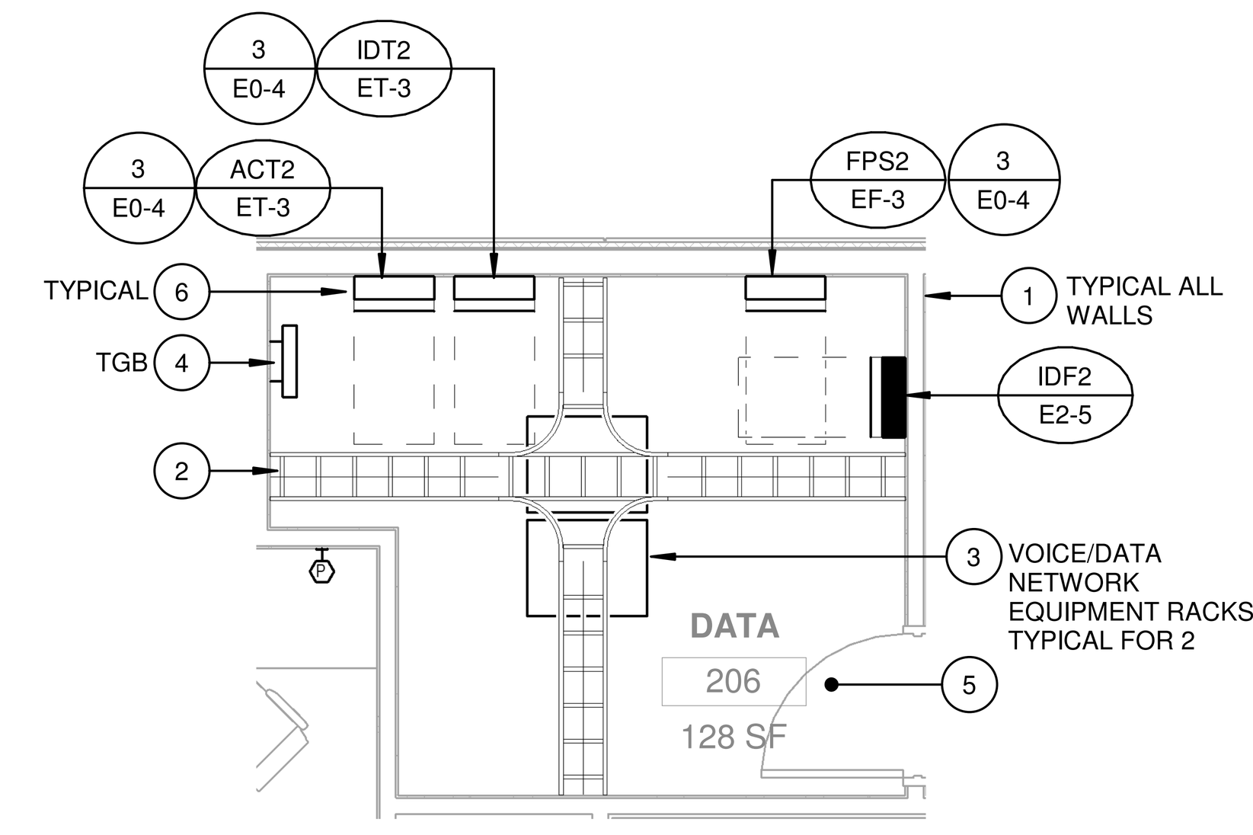
rev:	date:	description:
1	11/20/19	Addendum 1
2	12/11/19	Addendum 2
3	12/30/19	Addendum 4

drawing title:
TELECOM SYMBOL LIST, NOTES AND DETAILS

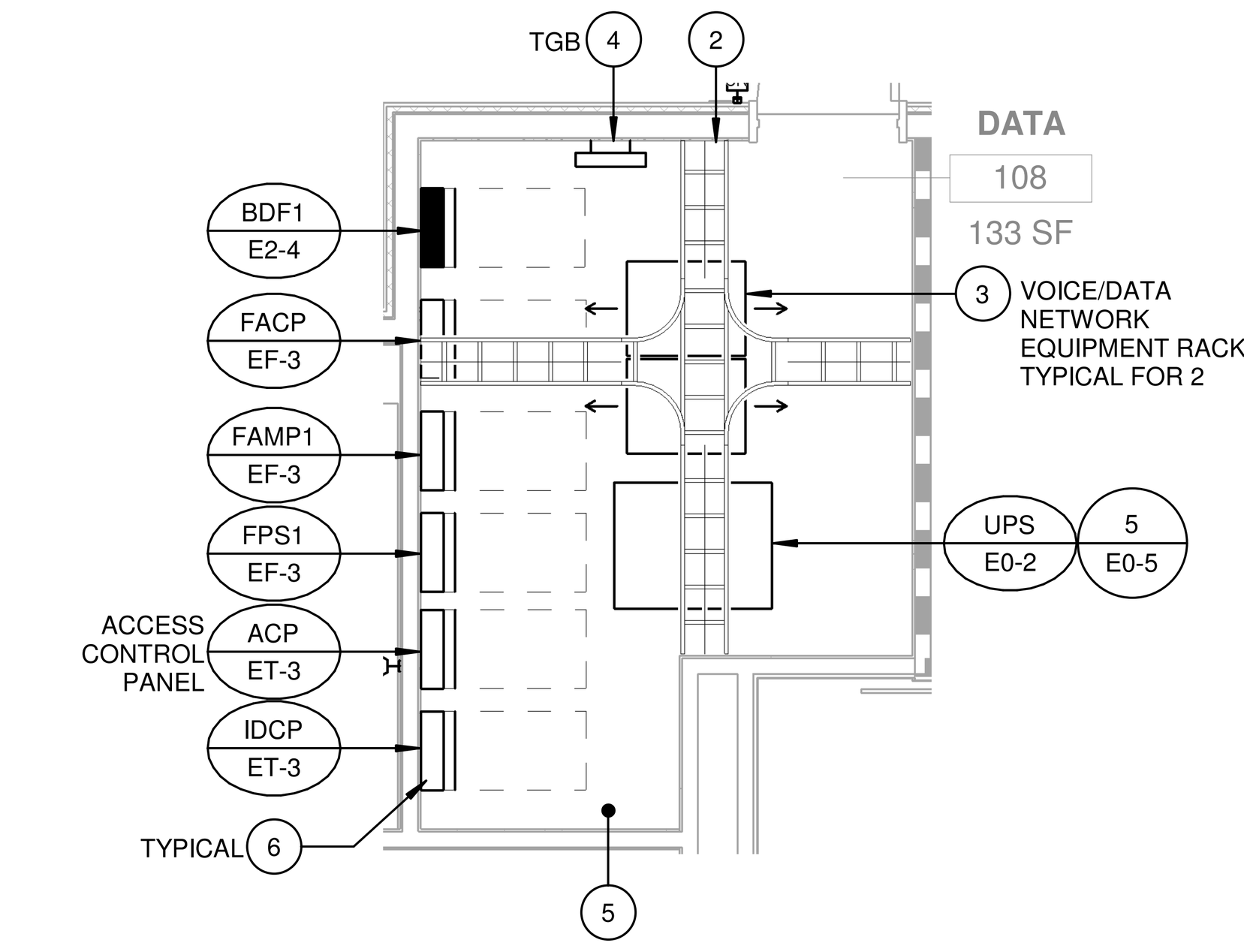
drawing no.:
ET-1
drawing of

LOW VOLTAGE TASK RESPONSIBILITY MATRIX					
ITEM	**GC**	**EC**	**CC**	**AVC**	**SC**
EQUIPMENT					
AV EQUIPMENT - AV SPEAKER SYSTEMS	Y			Z	
AV EQUIPMENT - ALL OTHER AV EQUIPMENT				X	
SECURITY EQUIPMENT AND CONFIGURATIONS					X
INFRASTRUCTURE / COMMISSIONING					
INTRA-BUILDING LOW VOLTAGE CONTINUOUS CONDUITS		X			
INTRA-BUILDING LOW VOLTAGE CONDUIT ID LABELING & PULL STRINGS		X			
BUILDING INTERIOR LOW VOLTAGE BACK BOXES / CONDUIT		X			
TELECOM & AV FLOOR BOXES & POKE THRUS		X			
BDF/IDF ROOM CABLE TERMINATION HARDWARE			X		
BDF/IDF ROOM CABLE MANAGEMENT HARDWARE			X		
HORIZONTAL STATION CABLE			X		
BDF/IDF ROOM CABLE RUNWAY			X		
BDF/IDF ROOM & AV ROOM POWER		X			
INTRA-BUIDLING GROUND SYSTEM TO TELECOM AND AV ROOMS		X			
TELECOM ROOM EQUIPMENT GROUNDING			X		
AV CABLING AND TERMINATION				X	
AV SYSTEM TEST, COMMISSIONING AND TRAINING				X	
SECURITY CONDUIT ID LABELING, PULL STRINGS		X			
SECURITY ROOM ACCESS POWER		X			
SECURITY SYSTEM CONDUIT AND PULLBOXES		X			
SECURTY CAMERA CABLING			X		
SECURITY ACCESS CONTROL CABLING					X
SECURITY ACCESS CONTROL CABLING SUPPORTS					X
SECURITY SYSTEM PROGRAMMING					X
SECURITY SYSTEM TEST, COMMISSIONING AND TRAINING					X
STRUCTURAL / SUPPORTS					
BDF/IDF ROOM BACKBOARDS	X				
LOW VOLTAGE/SECURITY ROOM BACKBOARDS	X				
BDF/IDF ROOM EQUIPMENT RACKS LADDER RACKS & BRACKETS			X		
SECURITY RACKS & BRACKETS					X
BACKING, BLOCKING & OTHER STRUCTURAL SUPPORTS FOR LOW VOLTAGE, AV, SECURITY EQUIPMENT	X				
DOOR LOCKING HARDWARE AND INSTALLATION	X				
MATRIX NOTES:					
X - PROVIDED AND FULLY INSTALLED/TEST BY TRADE ENTITY					
Y - PROVIDED AND PARTIALLY INSTALLED BY TRADE ENTITY PER SPECTIFICATION SECTION					
Z - FINAL ASSEMBLY, CABLE TERMINATION AND TESTING BY TRADE ENTITY PER SPECIFICATION SECTION					
GENERAL NOTES:					
1. GC = GENERAL CONTRACTOR					
2. SC = SECURITY CONTRACTOR					
3. EC = ELECTRICAL CONTRACTOR					
4. CC = CABLE CONTRACTOR					
5. AVC = AUDIO VISUAL CONTRACTOR					

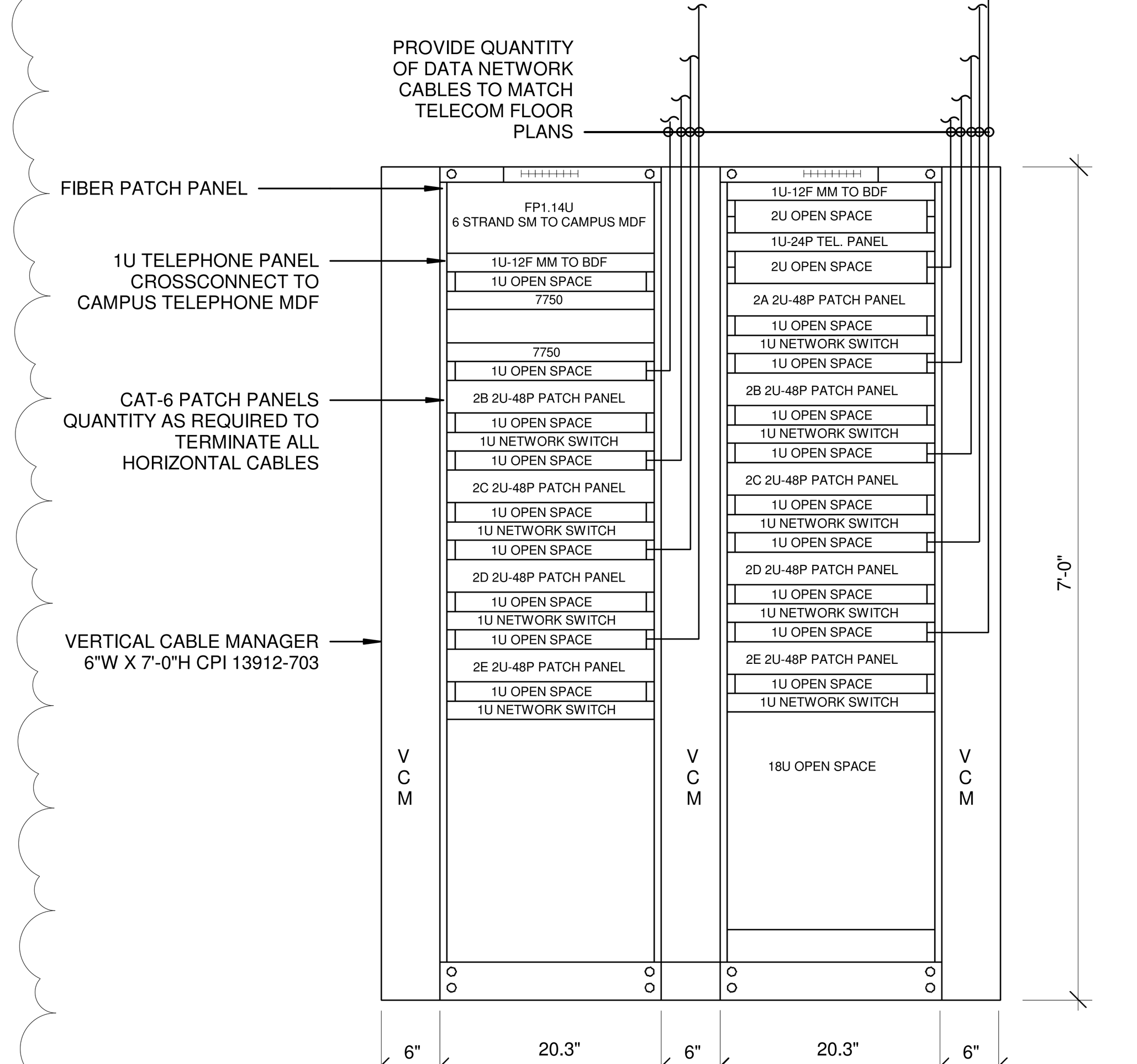
PCM3, Inc.　　Low Voltage Task Responsibility Matrix 180828.xlsx



2ND FLOOR ENLARGED IDF-SS ROOM (2)
SCALE 1/4" = 1'-0"

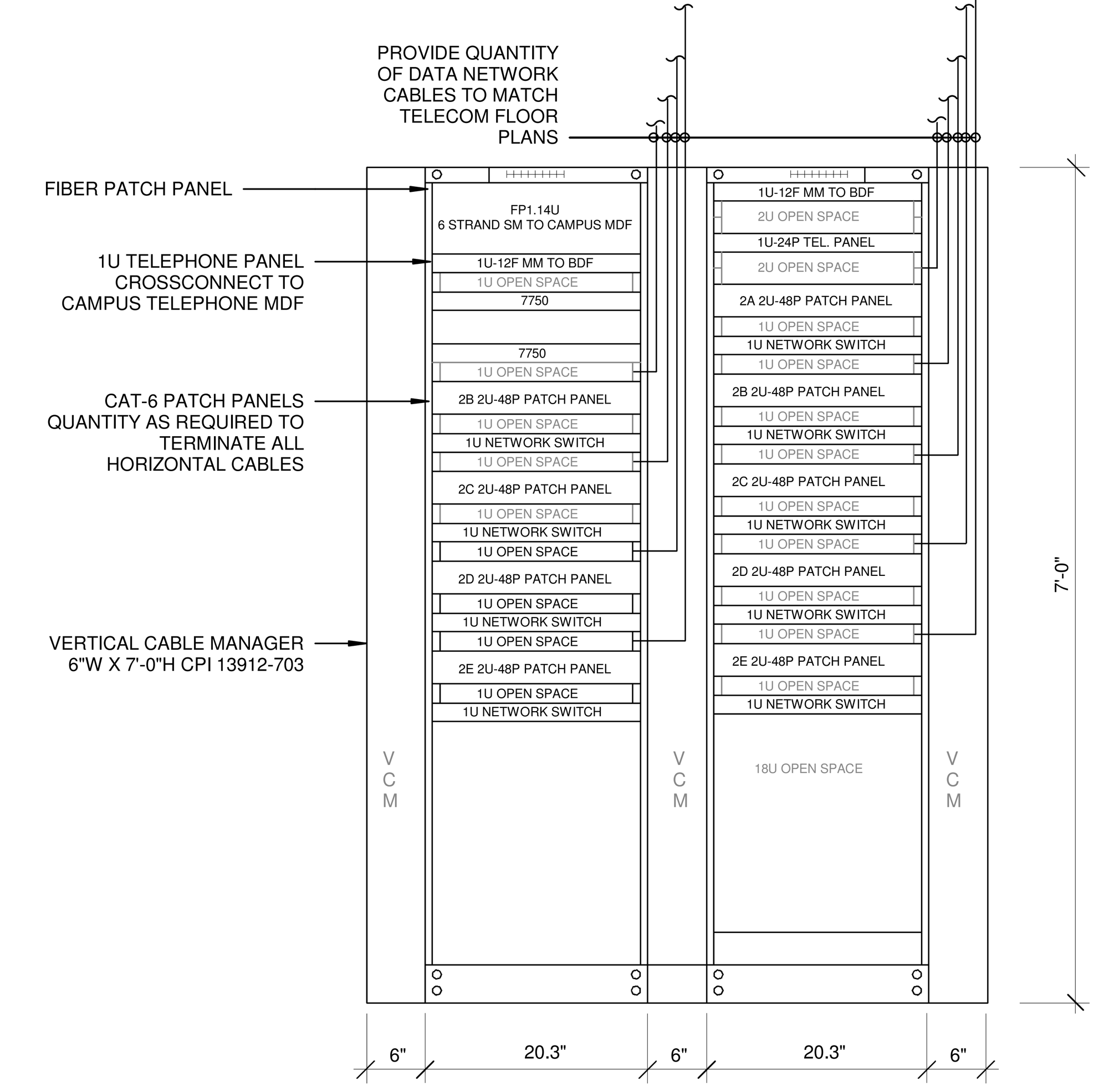


1ST FLOOR ENLARGED BDF-SS ROOM (1)
SCALE 1/4" = 1'-0"



IDF DISTRIBUTION FRAMES SHALL BE TWO VERTICAL POSTS TO ALLOW RACK MOUNT EQUIPMENT INSTALLATION UTILIZING TWO VERTICAL MOUNTING RAILS. UNITS SHALL BE 45U OF EQUIPMENT VERTICAL MOUNTING SHPACE. REFER TO ELECTRICAL SPECIFICATION SECTION 272000 FOR ADDITIONAL INFORMATION.

2ND FLOOR IDF ROOM RACK ELEVATION (5)
SCALE N.T.S.



BDF DISTRIBUTION FRAMES SHALL BE TWO VERTICAL POSTS TO ALLOW RACK MOUNT EQUIPMENT INSTALLATION UTILIZING TWO VERTICAL MOUNTING RAILS. UNITS SHALL BE 45U OF EQUIPMENT VERTICAL MOUNTING SHPACE. REFER TO ELECTRICAL SPECIFICATION SECTION 272000 FOR ADDITIONAL INFORMATION.

1ST FLOOR BDF ROOM RACK ELEVATION (4)
SCALE N.T.S.

ENLARGED KEY NOTES:

1. PROVIDE 8'-0" X 3/4" THICK FIRE TREATED PLYWOOD BACKBOARD, PAINT OFF WHITE PER DISTRICTS IT STANDARDS.
2. PROVIDE 18" WIDE X 4" DEEP LADDER RACK CABLE TRAY SYSTEM. SEISMIC BRACE ALL CABLE RACEWAYS AND RACKS USING 1/2" ALL THREAD TO CEILING STRUCTURE PER MANUFACTURER'S INSTRUCTION AND CODE REQUIREMENTS.
3. PROVIDE CABLE WATERFALL TROUGHS OVER EACH RACK.
4. PROVIDE MAIN TECHNICAL GROUND BUS PER DETAIL 1/ET-1. BOND ALL METAL COMPONENTS TO THE TECHNICAL GROUND BUS. ALL RACKS TO BOND INDIVIDUALLY MINIMUM #6 AWG CONDUCTOR. WALL MOUNT GROUND BUS ON WALL AT +7'-0".
5. ALL COMPONENTS TO COLOR MATCH (BLACK). SEE SPECIFICATIONS.
6. 24"W X 36"H X 6"D, SURFACE MOUNT.

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consultant

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owner

tBP project number: 20987.00
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drawn by: FBA　checked by: RR
date: 9.03.2019

rev:	date:	description:
1	11/20/19	Addendum 1
2	12/11/19	Addendum 2
3	12/30/19	Addendum 4

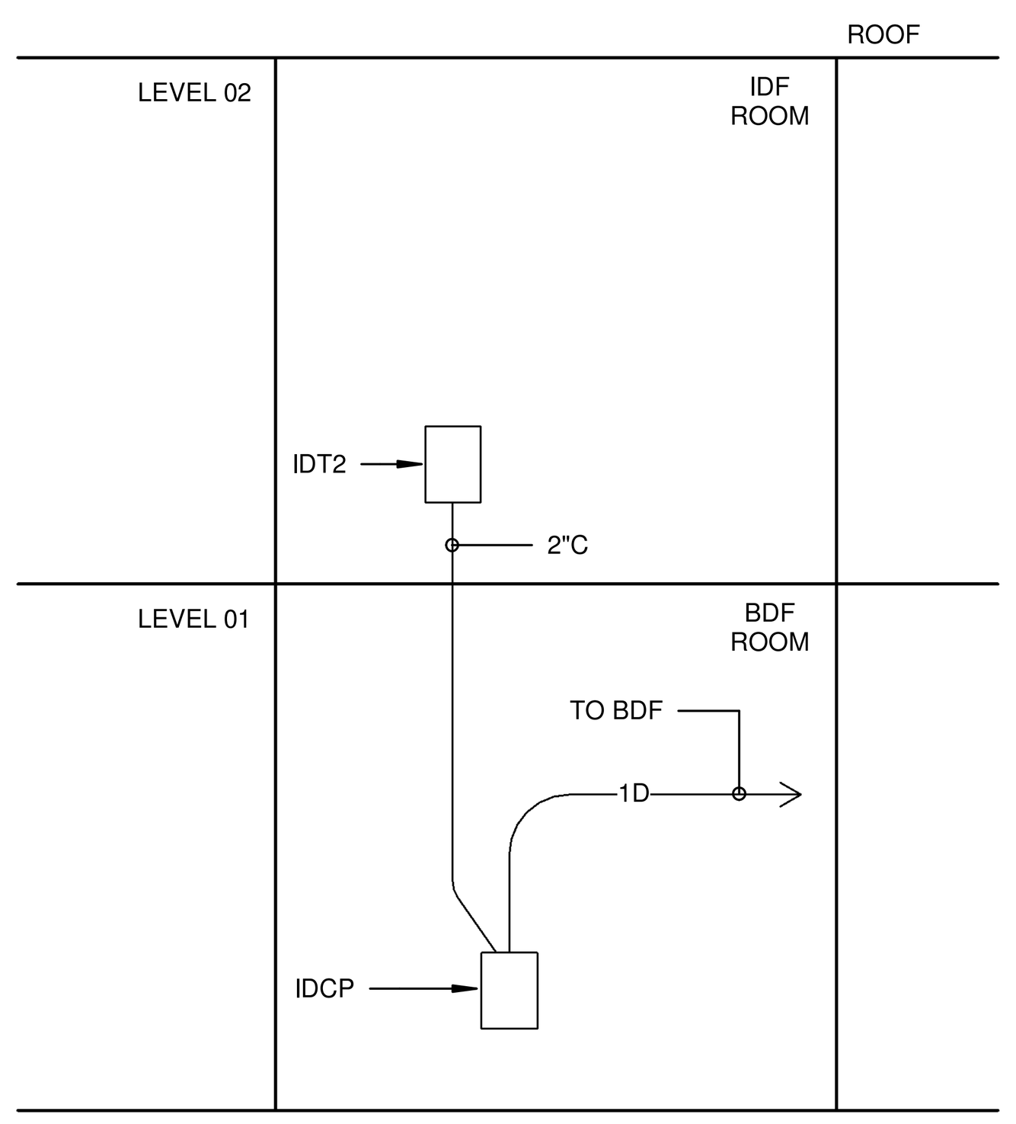
drawing title:
ENLARGED TELECOM ROOMS

drawing no.:
ET-2

drawing　of

NOTE:
ALL CABLE SHALL BE RISER RATED INSIDE OF BUILDING

REFERENCE SECTION 272000 FOR ADDITIONAL REQUIREMENTS

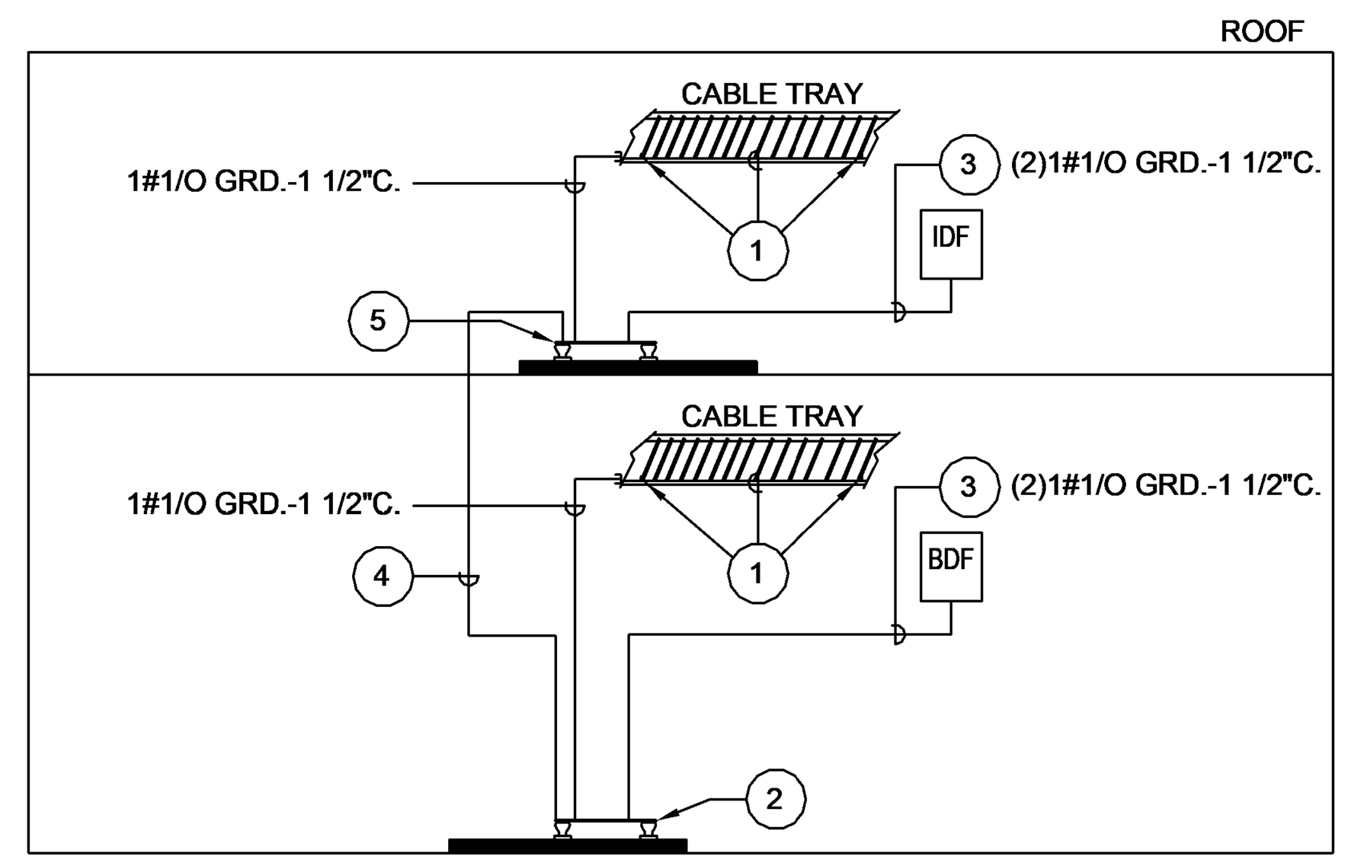


INTRUSION ALARM RISER DIAGRAM

SCALE N.T.S. — G

BUILDING GROUNDING RISER DIAGRAM NOTES:

1. THE CABLE TRAY SHALL BE GROUNDED WITH 1#6 INSULATED GREEN COLORED GROUND CONDUCTOR RUN THE ENTIRE LENGTH OF THE CABLE TRAY. EACH CABLE TRAY SECTION SHALL BE CONNECTED TO THE GROUNDING CONDUCTOR VIA A LAY-IN TYPE LUG.
2. GROUND BUS. SEE DETAIL #1 ON SHEET ET-1.
3. PROVIDE 1#1/0 GRD. 1 1/2"C. TO EACH MDF RACK AND BOND AS REQUIRED.
4. DAISY CHAIN 1#1/0 GROUND BUS TO EACH FLOOR GROUND BUS.
5. GROUND BUS. SEE DETAIL #2 ON SHEET ET-1.



BUILDING GROUNDING RISER DIAGRAM

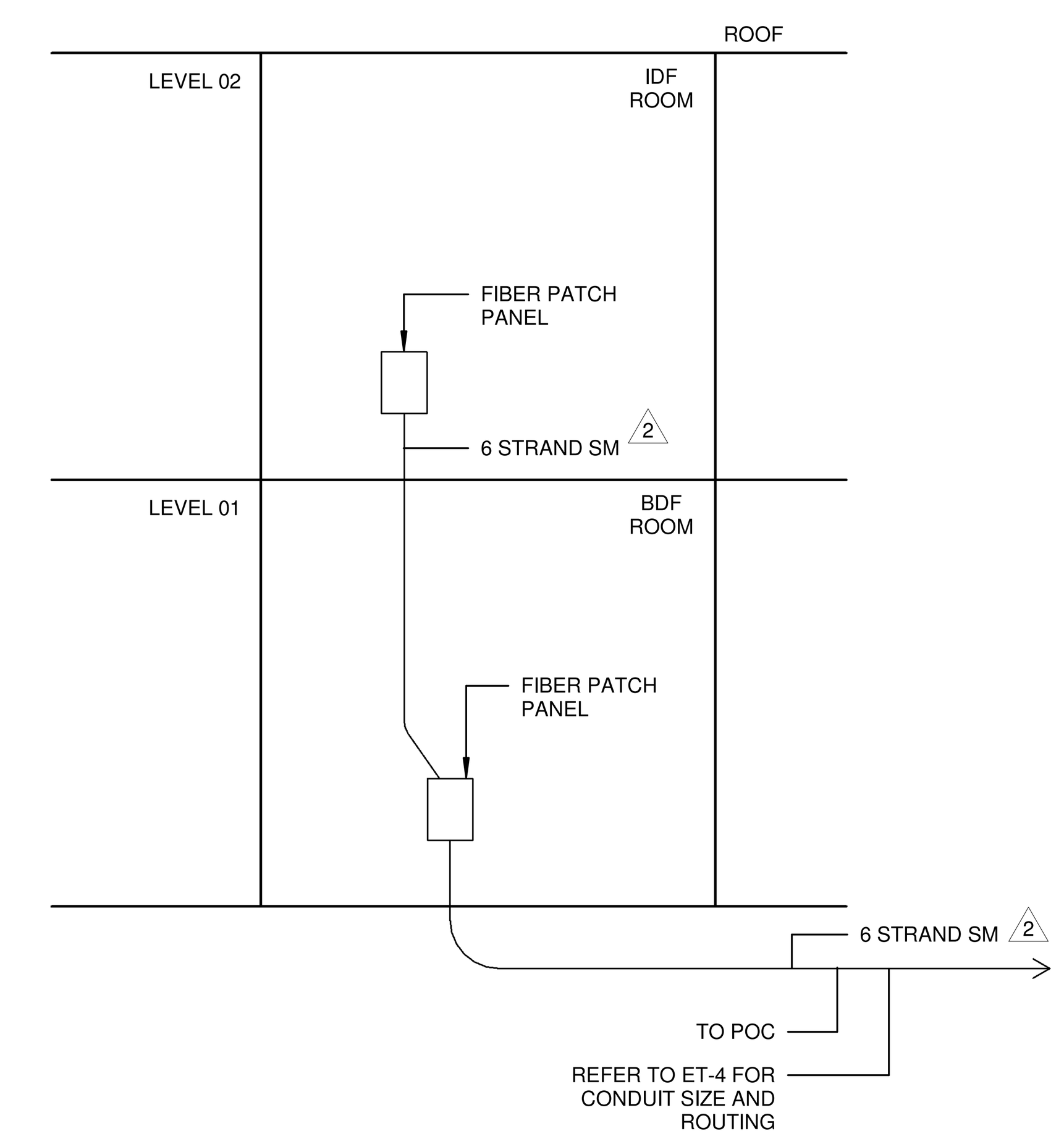
SCALE N.T.S. — E

NOT USED

SCALE N.T.S. — C

NOTE:
ALL CABLE SHALL BE RISER RATED INSIDE OF BUILDING

REFERENCE SECTION 272000 FOR ADDITIONAL REQUIREMENTS

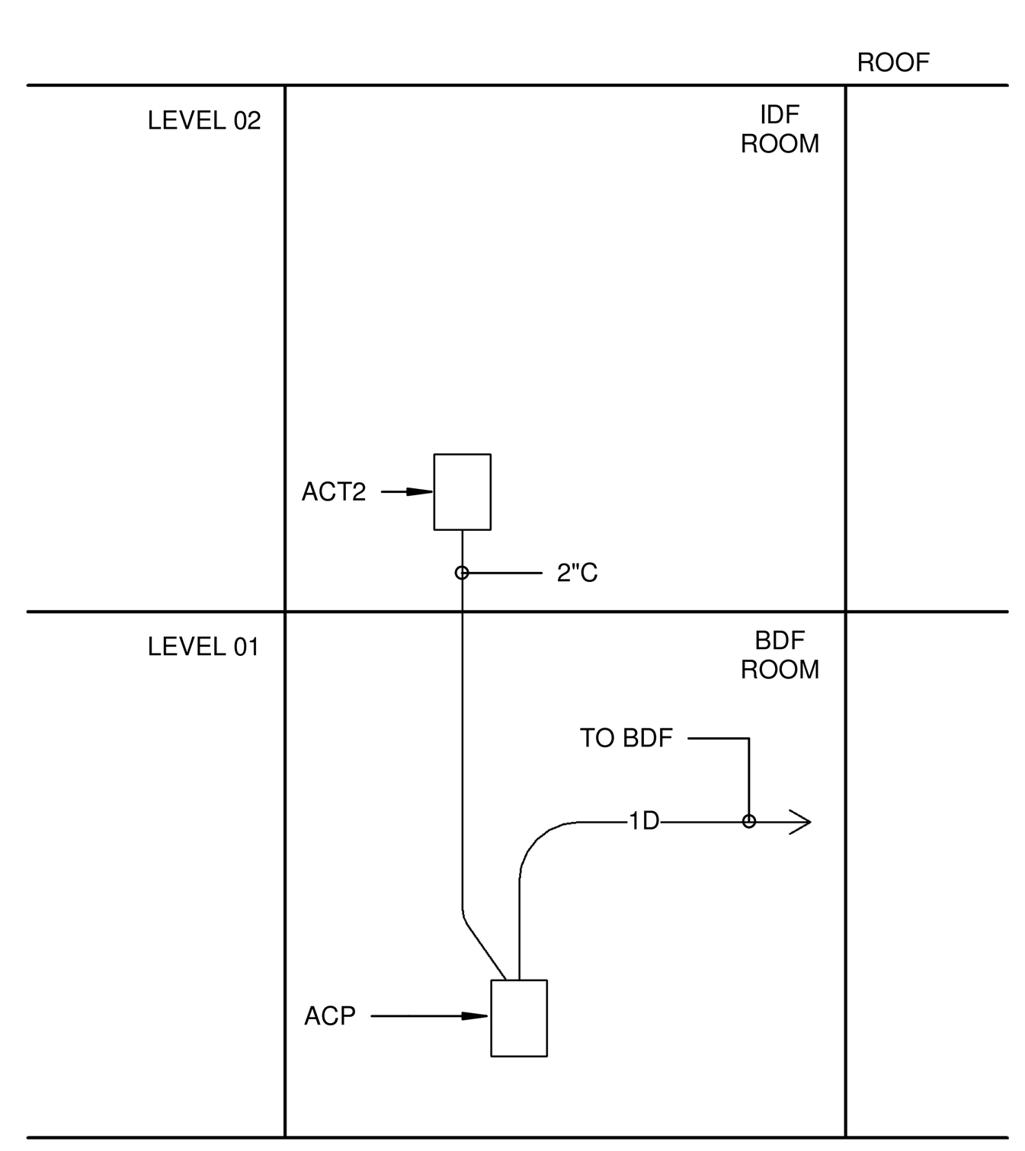


FIBER RISER DIAGRAM

SCALE N.T.S. — A

NOTE:
ALL CABLE SHALL BE RISER RATED INSIDE OF BUILDING

REFERENCE SECTION 272000 FOR ADDITIONAL REQUIREMENTS

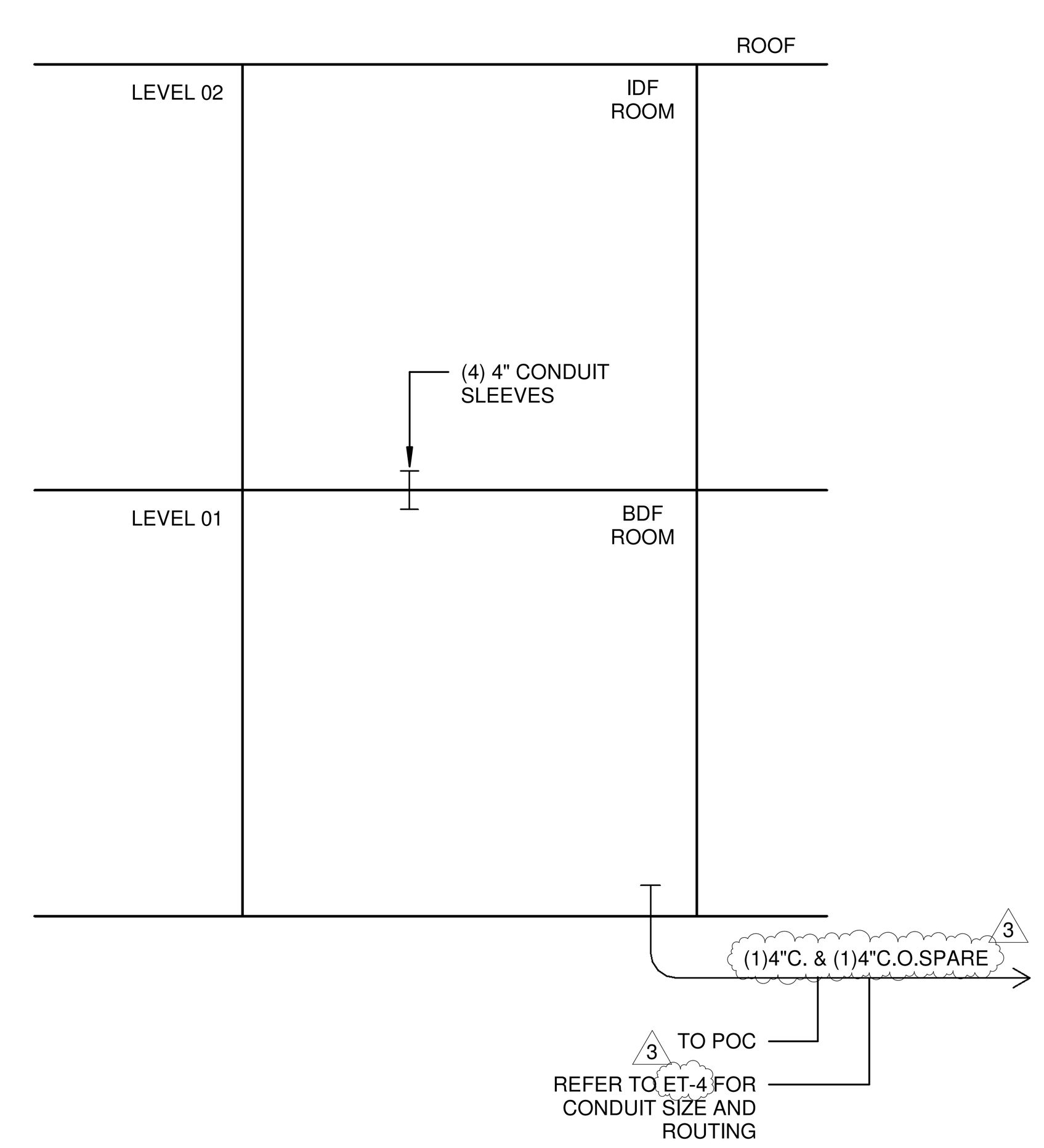


ACCESS CONTROL RISER DIAGRAM

SCALE N.T.S. — F

NOTE:
ALL CABLE SHALL BE RISER RATED INSIDE OF BUILDING

REFERENCE SECTION 272000 FOR ADDITIONAL REQUIREMENTS



TELECOM CONDUIT RISER DIAGRAM

SCALE N.T.S. — D

NOT USED

SCALE N.T.S. — B

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STUDENT SERVICES BLDG.

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owner

tBP project number: 20987.00

file name: CC_SS_E_R18_Central.rvt

drawn by: FBA checked by: RR

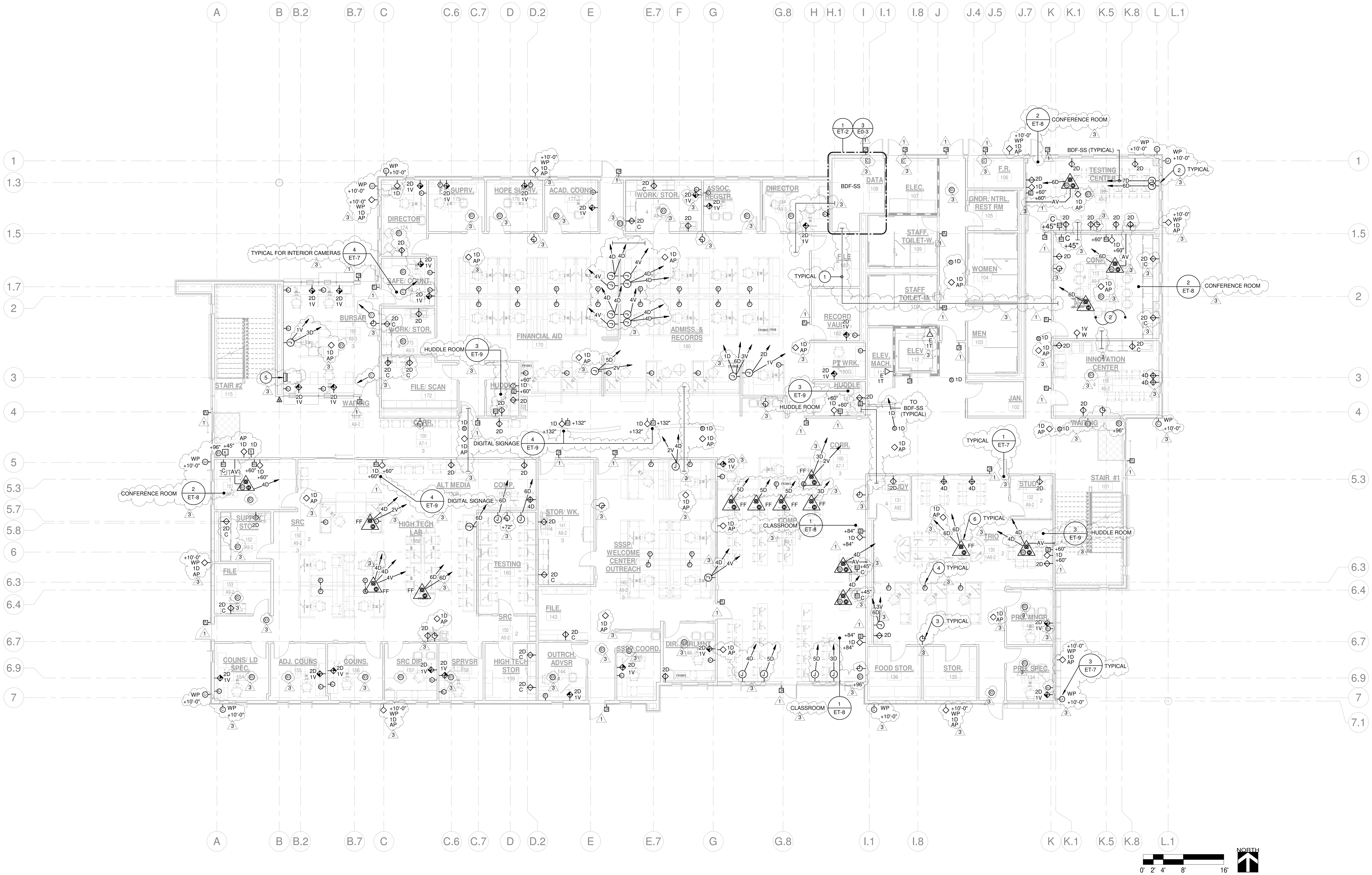
date: 9.03.2019

rev:	date:	description:
1	11/20/19	Addendum 1
2	12/11/19	Addendum 2
3	12/30/19	Addendum 4

drawing title:
TELECOM SYSTEM RISER DIAGRAMS

drawing no.:
ET-3

drawing of



1ST FLOOR TELECOM PLAN (1)

SCALE 1/8" = 1'-0"

KEY NOTES

1. PROVIDE THREE (3) 3"C. SLEEVES THROUGH WALL ABOVE CEILING FOR COMPUTER/DATA/VOICE/PA SYSTEMS CABLING. PROVIDE INSULATED THROAT BUSHINGS ON CONDUIT ENDS. FIRESTOP ALL THROUGH WALL CONDUIT PENETRATIONS. TYPICAL.
2. PROVIDE VOICE AND DATA CABLE FURNITURE FEED CONNECTIONS TO THE FURNITURE SYSTEMS IN ACCORDANCE WITH THE FURNITURE SYSTEMS MANUFACTURERS REQUIREMENTS. PROVIDE QUANTITY OF VOICE/DATA CABLES AS INDICATED. ROUTE CABLING THROUGH FURNITURE SYSTEMS RACEWAYS. PROVIDE VOICE/DATA TERMINATION DEVICES AT EACH WORKSTATION (TYPICAL 2D/1V EACH WORKSTATION AND 1D AT EACH PRINTER LOCATION) AS SPECIFIED AND IN ACCORDANCE WITH THE FURNITURE SYSTEMS SHOP DRAWINGS. PROVIDE ALL TERMINATION DEVICES, CABLING, COVERPLATES, CABLE HARNESS, ETC. FOR A COMPLETE INSTALLATION.
3. PROVIDE BATTERY OPERATED, GPS TYPE CLOCKS, +90" AT LOCATIONS SHOWN ON DRAWINGS. SEE SPECIFICATIONS.
4. PROVIDE SILENT PANIC PUSH BUTTON DEVICE MOUNTED TO WORKSTATION FURNITURE SYSTEMS, TYPICAL FOR ALL WORKSTATIONS. COORDINATE INSTALLATION WITH FURNITURE SYSTEMS INSTALLER. ROUTE ALL CABLING CONCEALED IN FURNITURE SYSTEMS RACEWAY AND IN CONDUIT IN WALLS TO ABOVE THE CEILING AND ON TO THE RESPECTIVE PANEL. PANIC BUTTONS SHALL BE CONNECTED TO THE SPECIFIED INTRUSION DETECTION SYSTEM IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS.
5. PROVIDE AREA OF REFUGE TWO-WAY COMMUNICATION COMMAND CENTER, RATH 2500 SERIES OR EQUIVALENT. PROVIDE ALL CONDUIT, WIRING, POWER AND DATA CONNECTIONS FOR A COMPLETE INSTALLATION. REFER TO SPECIFICATION SECTION 273000 FOR REQUIREMENTS.
6. PROVIDE FLUSH IN FLOOR COMBINATION POWER/DATA FLOOR BOX DEVICE WITH FURNITURE FEED COVER. FURNITURE FEED COVER SHALL HAVE MINIMUM 1 1/4" CONNECTION FOR COMPUTER/DATA/VOICE NETWORK CABLING AND 1" CONDUIT FOR POWER FEED CONNECTION. PROVIDE TELECOM CONNECTION COMPLETE WITH QUANTITY OF COMPUTER/DATA/VOICE CABLES INDICATED AND CONNECT TO THE FURNITURE SYSTEM. INSTALL POKE-THROUGH IN LOCATION PER THE FURNITURE SYSTEM DRAWINGS.

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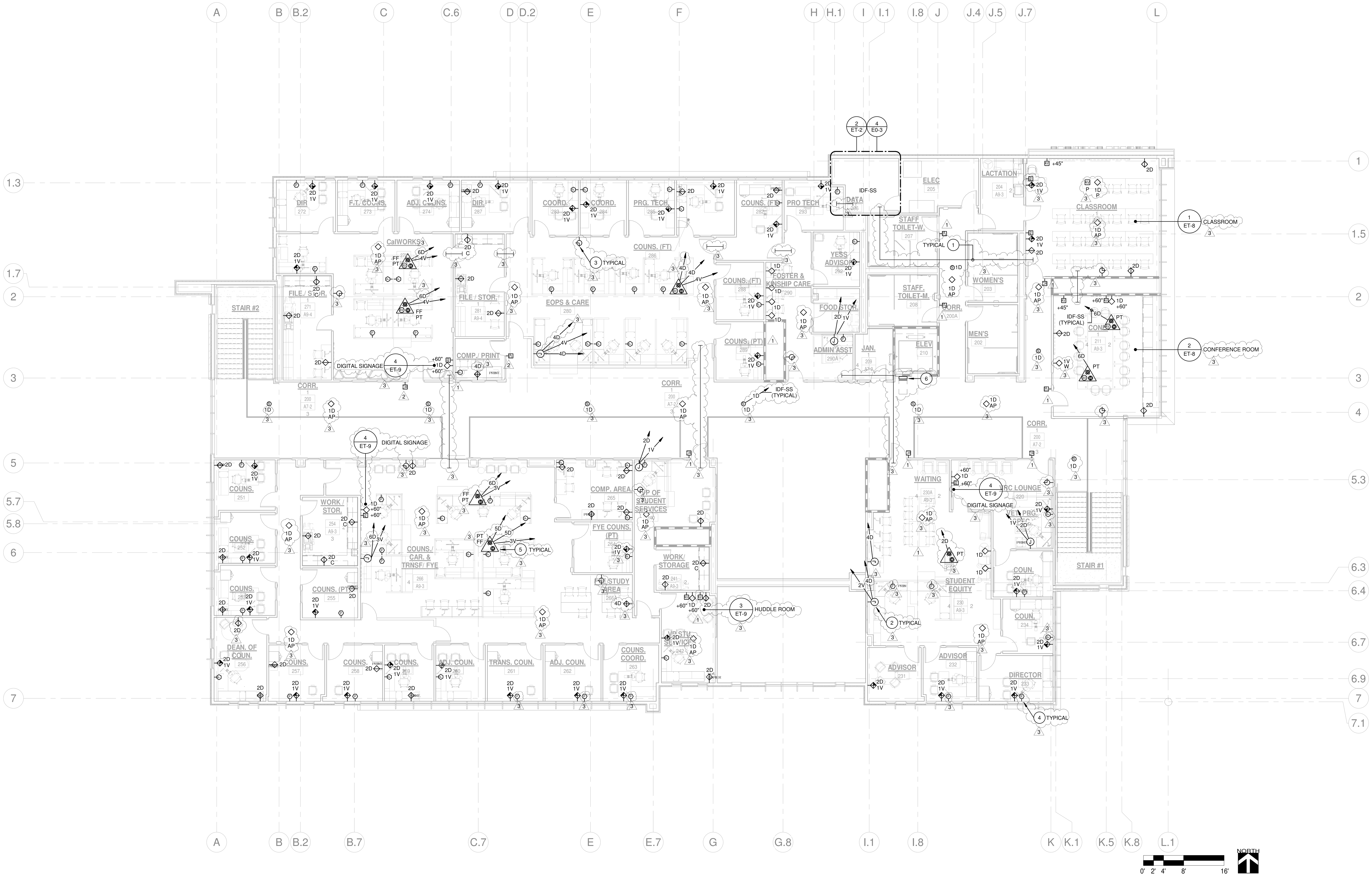
3	12/30/19	Addendum 4

drawing title:
1ST FLOOR TELECOM PLAN

drawing no.:
ET-5

drawing of



2ND FLOOR TELECOM PLAN (1)

SCALE 1/8" = 1'-0"

KEY NOTES

1. PROVIDE THREE (3) 3"C. SLEEVES THROUGH WALL ABOVE CEILING FOR COMPUTER/DATA/VOICE/PA SYSTEMS CABLING. PROVIDE INSULATED THROAT BUSHINGS ON CONDUIT ENDS. FIRESTOP ALL THROUGH WALL CONDUIT PENETRATIONS. TYPICAL.
2. PROVIDE VOICE AND DATA CABLE FURNITURE FEED CONNECTIONS TO THE FURNITURE SYSTEMS IN ACCORDANCE WITH THE FURNITURE SYSTEMS MANUFACTURERS REQUIREMENTS. PROVIDE QUANTITY OF VOICE/DATA CABLES AS INDICATED. ROUTE CABLING THROUGH FURNITURE SYSTEMS RACEWAYS. PROVIDE VOICE/DATA TERMINATION DEVICES AT EACH WORKSTATION (TYPICAL 2D/1V EACH WORKSTATION AND 1D AT EACH PRINTER LOCATION) AS SPECIFIED AND IN ACCORDANCE WITH THE FURNITURE SYSTEMS SHOP DRAWINGS. PROVIDE ALL TERMINATION DEVICES, CABLING, COVERPLATES, CABLE HARNESS, ETC. FOR A COMPLETE INSTALLATION.
3. PROVIDE BATTERY OPERATED, GPS TYPE CLOCKS, +90" AT LOCATIONS SHOWN ON DRAWINGS. SEE SPECIFICATIONS.
4. PROVIDE SILENT PANIC PUSH BUTTON DEVICE MOUNTED TO WORKSTATION FURNITURE SYSTEMS, TYPICAL FOR ALL WORKSTATIONS. COORDINATE INSTALLATION WITH FURNITURE SYSTEMS INSTALLER. ROUTE ALL CABLING CONCEALED IN FURNITURE SYSTEMS RACEWAY AND IN CONDUIT IN WALLS TO ABOVE THE CEILING AND ON TO THE RESPECTIVE PANEL. PANIC BUTTONS SHALL BE CONNECTED TO THE SPECIFIED INTRUSION DETECTION SYSTEM IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS.
5. PROVIDE FLUSH IN FLOOR COMBINATION POWER/DATA FLOOR POKE THROUGH DEVICE WITH FURNITURE FEED COVER. FURNITURE FEED COVER SHALL HAVE MINIMUM 1 1/4" CONNECTION FOR COMPUTER/DATA/VOICE NETWORK CABLING AND 1" CONDUIT FOR POWER FEED CONNECTION. PROVIDE TELECOM CONNECTION COMPLETE WITH QUANTITY OF COMPUTER/DATA/VOICE CABLES INDICATED AND CONNECT TO THE FURNITURE SYSTEM. INSTALL POKE-THROUGH IN LOCATION PER THE FURNITURE SYSTEM DRAWINGS.
6. PROVIDE AREA OF REFUGE TWO-WAY COMMUNICATION SYSTEM COMPLETE WITH HANDS FREE ID CALL BOX AND SIGNAGE, RATH 2100 SERIES OR EQUAL. REFER TO SPECIFICATIONS SECTION 273000 FOR ADDITIONAL REQUIREMENTS.

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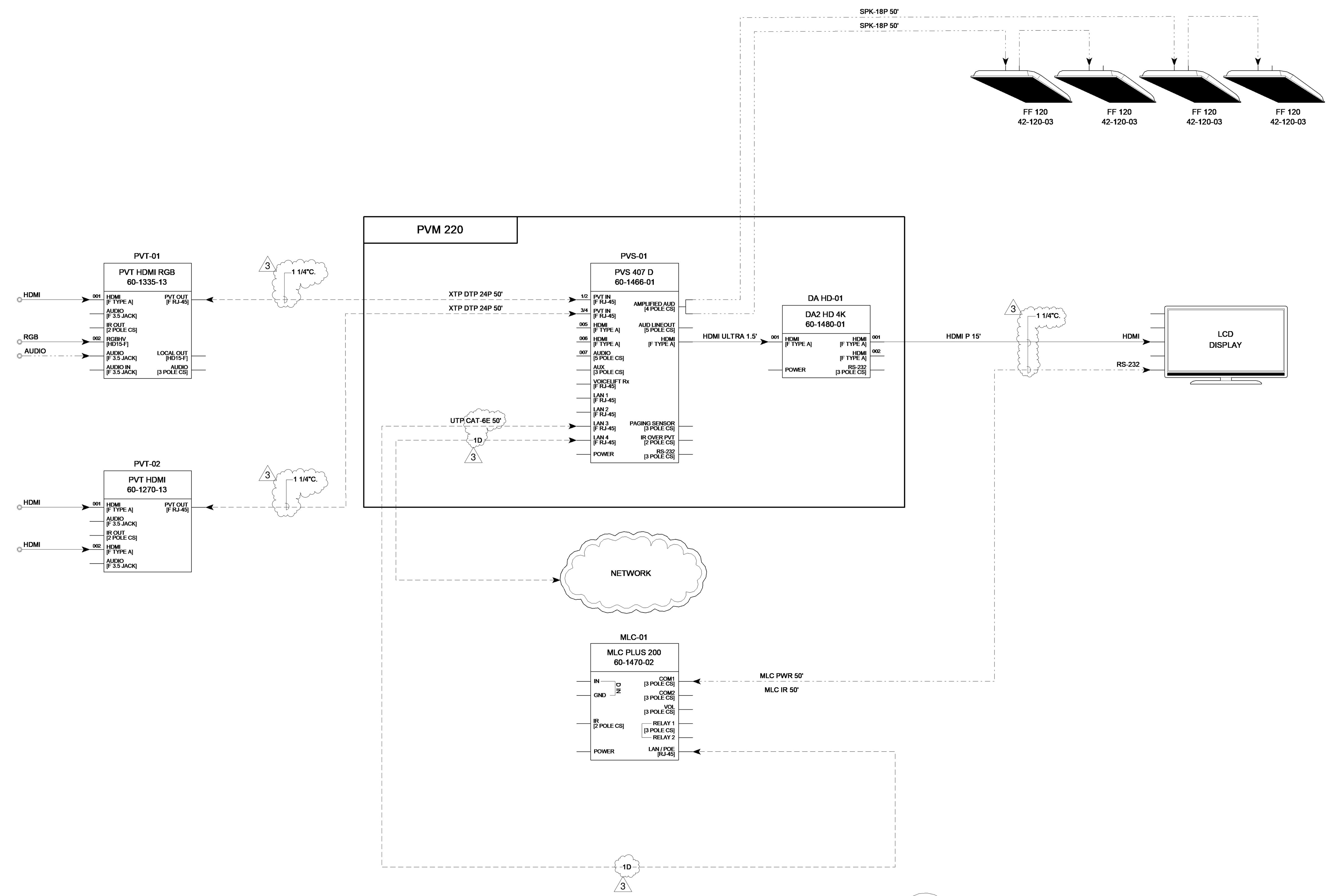
2	12/11/19	Addendum 2
3	12/30/19	Addendum 4

drawing title:
2ND FLOOR TELECOM PLAN

drawing no.:
ET-6

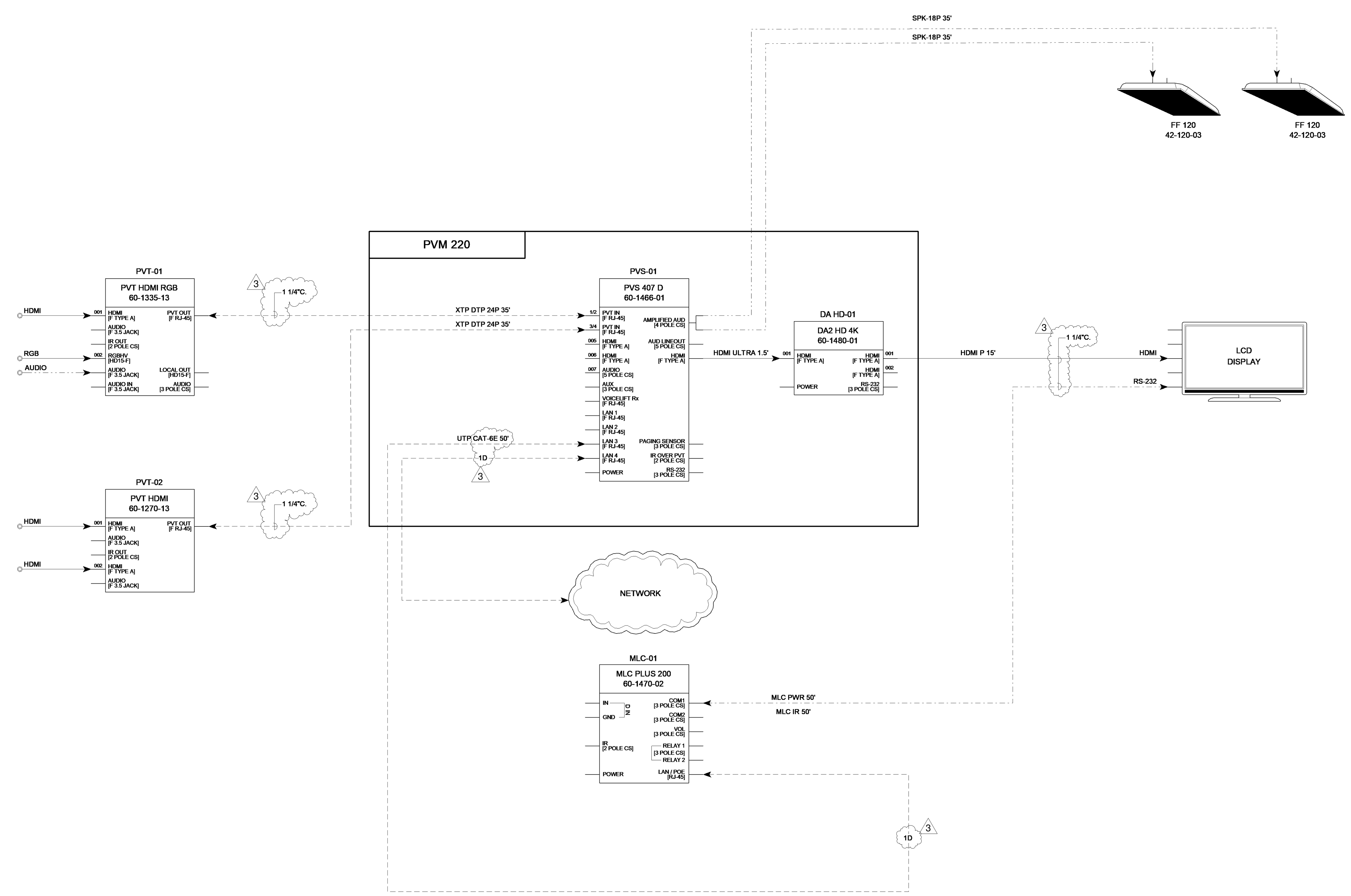
drawing of



CLASSROOM
NTS
1
ET-8

AV PERFORMANCE NOTES:

1. AV CONTRACTOR SHALL COORDINATE DIVISION OF WORK WITH THE GENERAL CONTRACTOR AND INCLUDE ALL COSTS IN BID.
2. LECTERN CARTS, BLU-RAY PLAYERS, DOCUMENT CAMERAS, LCD DISPLAYS AND DESKTOP PC'S ARE PROVIDED BY OTHERS. COORDINATE INSTALLATION WITH PROVIDER.
3. PROVIDE COMPLETE AV AND ASSISTIVE LISTENING SYSTEMS IN ALL CLASSROOMS, HUDDLE SPACES, DIGITAL SIGNAGE, CONFERENCE ROOMS, ETC., NO EXCEPTIONS.
4. PROVIDE INPUT IN AV EQUIPMENT FOR CONNECTION TO ALS.



CONFERENCE ROOM
NTS
2
ET-8

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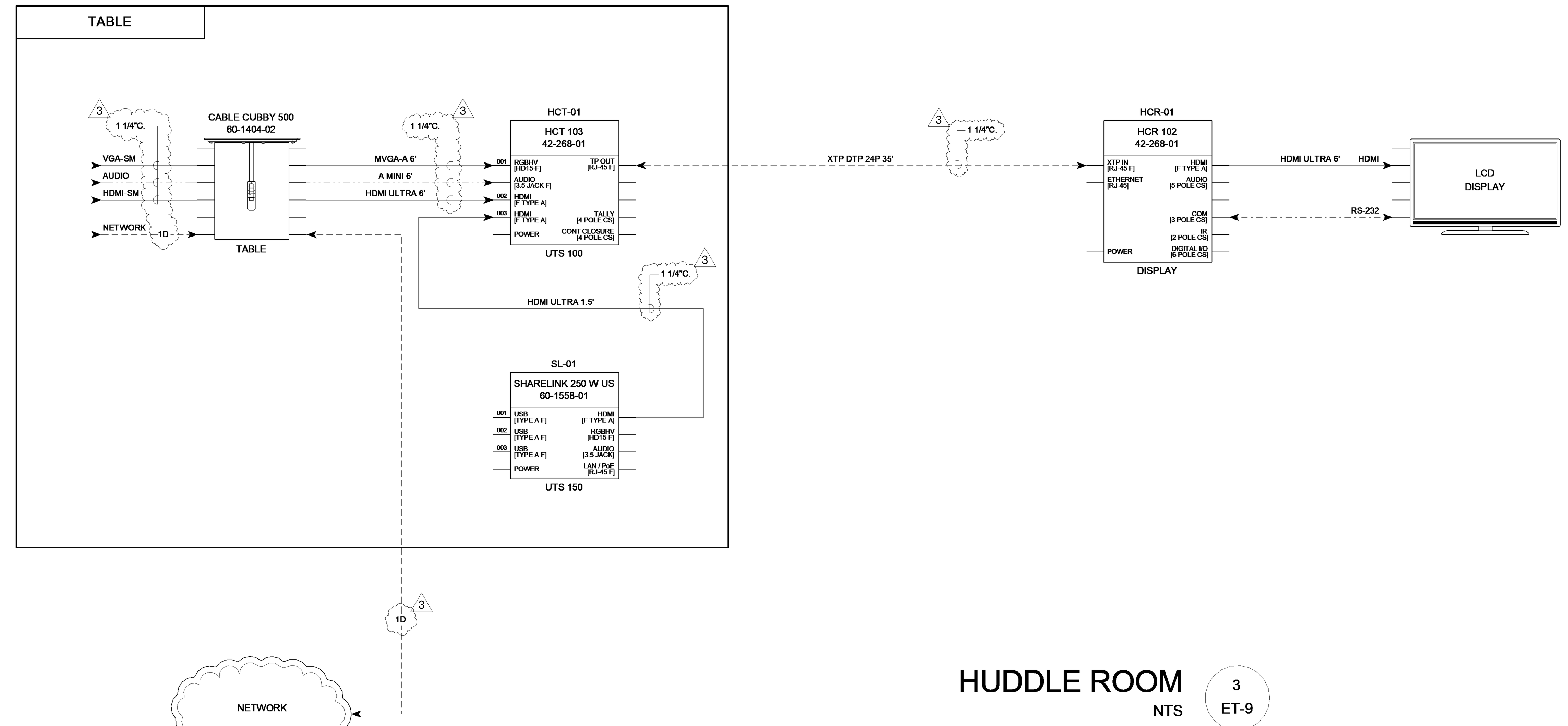
3	12/30/19	Addendum 4

drawing title:
AV WIRING DIAGRAMS

drawing no.:
ET-8
drawing of



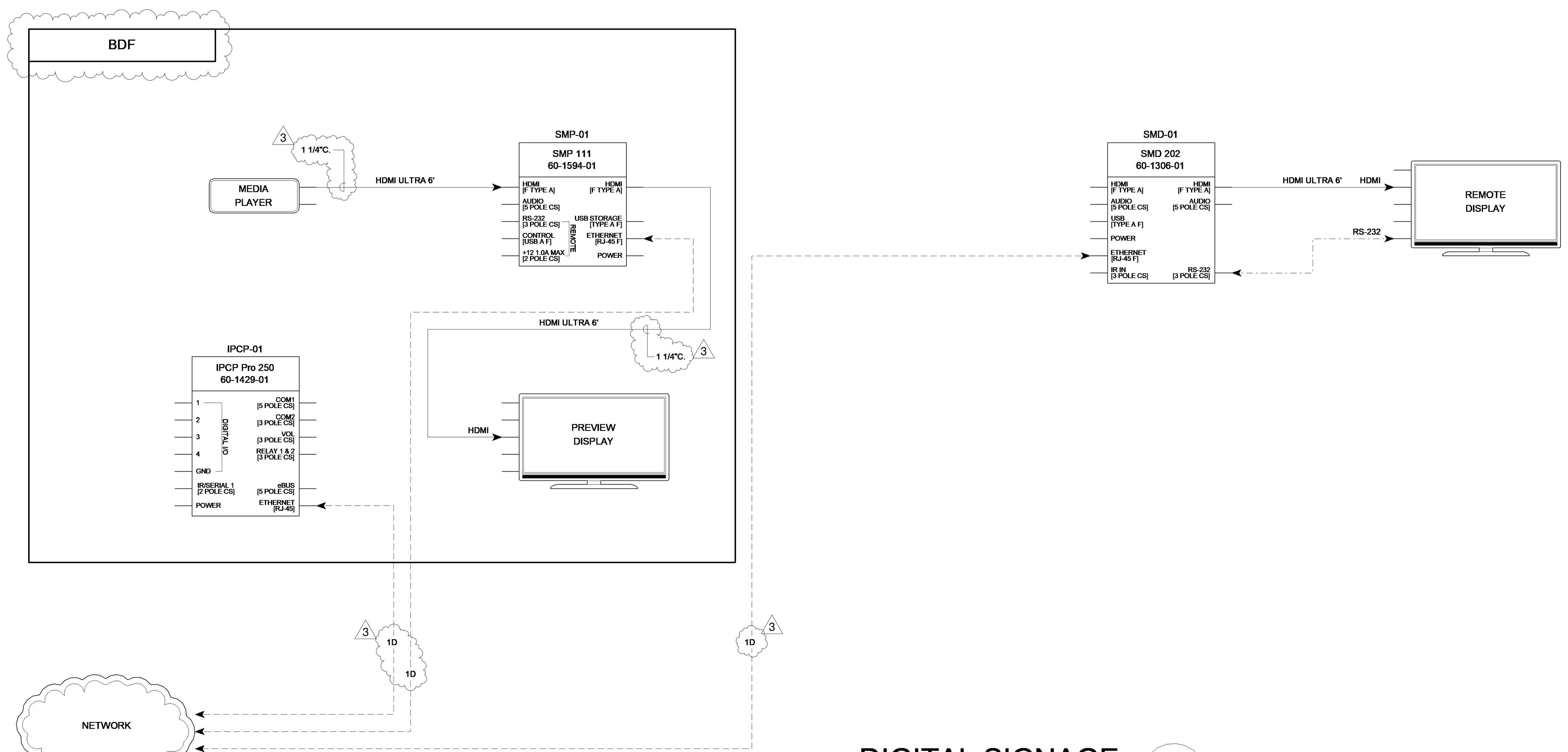
HUDDLE ROOM

NTS

3
ET-9

AV PERFORMANCE NOTES:

1. AV CONTRACTOR SHALL COORDINATE DIVISION OF WORK WITH THE GENERAL CONTRACTOR AND INCLUDE ALL COSTS IN BID.
2. LECTERN CARTS, BLU-RAY PLAYERS, DOCUMENT CAMERAS, LCD DISPLAYS AND DESKTOP PC'S ARE PROVIDED BY OTHERS. COORDINATE INSTALLATION WITH PROVIDER.
3. PROVIDE COMPLETE AV AND ASSISTIVE LISTENING SYSTEMS IN ALL CLASSROOMS, HUDDLE SPACES, DIGITAL SIGNAGE, CONFERENCE ROOMS, ETC., NO EXCEPTIONS.
4. PROVIDE INPUT IN AV EQUIPMENT FOR CONNECTION TO ALS.



DIGITAL SIGNAGE

NTS

4
ET-9

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drawing title:

AV WIRING DIAGRAMS

drawing no.:

ET-9

drawing of

COMPTON COMMUNITY COLLEGE DISTRICT

RFQ CCC-056 Student Services Building

RFC Questions Answers

Addendum #4

RFC	Question	Reference Document	Answer
1	Demolition of pylons / friction pilings and caps Sect. 01 10 00-1.2.C.3&D.2 indicate scope to remove pylons. AS-2 has a note to refer to Supplemental Geotechnical Recommendations, and also has a symbol for (E) Friction piles and caps to be demolished. No symbols for the (E) Friction Piles are present on plan sheet AS-2 within or around the existing building. There are no details relating to the pylons / friction piles or their removal. Supplemental Geotechnical Recommendation do not provide quantity, size, depth, etc. Or any other information to quantify the pilings. Please provide this information and provide as-built plans showing locations, quantity, depth.	Section 01 10 00-1.2.C.3&D.2	See Drawing Sheet AS-2 and Original Building Structural As-Built sheets S-1 through S-10 issued with this Addendum #4.
2	Campus soils stockpile. Sect. 01 01-1.2.D.3 mentions a temporary soils stockpile on campus. Does this mean there is a location on campus that may be used a borrow site, and does it mean that excess soils, if generated by this project, may be placed at the stockpile?	Section 01 01-1.2.D.3	There is a location on the campus near the stadium where excess soils can be temporarily stored. This contractor should not count on that location for borrowing soil. Any additional soil needed for the project will need to be properly certified and provided by the contractor.
3	Section 01 01 00-1.2.4 Temporary facilities - Is Contractor responsible for dewatering if created by a source that is not in the control of the Contractor, such as failure of a District-owned water service that is apart from the construction site, and not caused by construction operations?	Section 01 01 00-1.2.4 Temporary Facilities	Yes this Contractor is responsible for dewatering of the site.
4	Section 01 01 00-1.2.5.m - Please identify any work by the District planned for the project for which Contractor would have to plan on coordinating with.	Section 01 01 00-1.2.5.m	There are other contracts currently underway for the Instructional Building 1, Instructional Building 2, Cafeteria and Music Building HVAC and Campus wide Roofing repair projects. Coordination will also be required with District Furniture and Equipment vendors for the project.
5	Section 01 01 00-1.2.5.r - Please specify the staffing Contractor will be required to provide for the project, such as Project Manager, Superintendent, administrative or accounting, Project Engineer, etc.	Section 01 01 00-1.2.5.r	At a minimum the contractor would need to provide a Site Superintendent, Project Administrator/Engineer, Project Manager and any site labor necessary to keep the project running on schedule.
6	Section 01 01 00 - Scope of Work Logistics Plan - The outline of the Student Services Building Construction Site depicted on the Logistics plan differs from the Limits of Work line on the civil drawings. Please confirm the construction fence boundary.	Section 01 01 00 - Scope of Work Logistics Plan	The logistics plan is a general indication of the areas on campus that are available to the contractor for their use. The civil plan shows the limit of work associated with this project. The exact location of the construction fence boundary is to be determined after meeting with the contractor awarded the contract.

COMPTON COMMUNITY COLLEGE DISTRICT

RFQ CCC-056 Student Services Building

RFC Questions Answers

Addendum #4

RFC	Question	Reference Document	Answer
7	Section 01 21 00-1.4.4 Indicates the Contractor Base Bid to include cost of all coordination, supervision, bond costs, overhead and profit, supervision, installation and all indirect projects costs associated with performing the work of each Allowance. Also refer to 01 30 50, CHANGES AND EXTRA FORM, page2, the paragraph labeled "FOR ALLOWANCE USAGE REQUEST" Refers to General Conditions sections 00 73 00 paragraph H. Section 00 73 00 is Special Conditions. General Conditions is section 00 72 00. Both 00 72 00 and 00 73 00 are arranged numeric designations, and "H" was not found in either section. Please confirm correct reference. Please confirm intent and that Allowance Usages will have GC mark up's and specify the percentage(s).	Section 01 21 00-1.4.4	Please correct the reference to General Conditions sections 00 73 00 paragraph H to Special Conditions 00 73 00 paragraph 14.4. "Contractor shall include in the base bid contract amount all cost of coordination, supervision, bond costs, overhead and profit, supervision, installation and all indirect project costs associated with performing the work of each Allowance....." Allowance usage will not have additional General Contractor markup included. All markup for the full amount of the Allowance is to be included in the base bid per the Contract Documents.
8	Section 01 30 50-II.D.1.a - Please confirm if District will require Contractor to have Prolog software and utilize it for submittals.	Section 01 30 50-II.D.1.a	No. The Construction Manager will utilize Prolog software for managing submittals. The Contractor is to use the Submittal Transmittal form provided in section 01 30 50.
9	Section 01 50 002.8 Temporary Utility Services. Compare with 00 73 00 Special Conditions, item 12 for District-Provided Temporary Utilities. Please clarify that District will pay for consumption of power and water.	Section 01 50 002.8 Temporary Utility Services	The District will provide a location/source for power and water, but the Contractor will be required to provide a meter for both and costs for power and water reimbursed to the District by the Contractor at the District's cost. Final location for both to be determined once the contract is awarded.
10	Details on AS-3 not found on 2.01: 6, 7, 8, 11, 12, 16. Please advise.	Details on AS-3	1. Replace references as follows: change 6/2.01 to BB/C1.3, change 7/2.01 to CC/C1.3 & AA/C1.3, change 8/2.01 to FF/C1.3 (doweled Joint (d.j.) change 11/2.01 to EE/C1.3 change 12/2.01 to 2A/C1.3 Disregard reference to 16/2.01

COMPTON COMMUNITY COLLEGE DISTRICT

RFQ CCC-056 Student Services Building

RFC Questions Answers

Addendum #4

RFC	Question	Reference Document	Answer
11	Refer to Pt. 4 of Bid Documents, Geotech report, pages 110 -112. On pg. 110, last paragraph through end of first paragraph on 111, it is stated "…subgrade soils at the removal bottoms should be moisture-conditioned as needed and recompacted to a minimum 90 percent relative compaction..." and continues "If 90 percent relative compaction cannot be achieved...it may be necessary to utilize a cement-modified soil (CMS)..." and then the paragraph concludes with "Specialty contractor should review the field conditions to determine the appropriate cement content and depth of cement modified soil." The wording "It may be necessary" leaves it up to assumptions as to what conditions may be. It is impossible to know at time of bid and prior to excavation what condition will be encountered and if the CMS will be required. Bid documents should either require inclusion of CMS, or not. Please provide specific instructions to bidders whether or not the District desires the CMS to included in the bid. Ref. C	Pt. 4 of Bid Documents, Geotech report, pages 110 -112	The District does want the CMS included in the bid.
12	Refer to Site Electrical Demolition Plan ES-0. Per Note #3, existing underground conduit and wiring is to be removed in its entirety. Confirm if this (1) includes the portions outside of the heavy dashed line, which assumed to be a "Limits of Work" line matching AS-2 & AS-3, and (2) demolition is to include and duct bank encasing any existing conduits plus backfilling and compaction of void from removal, and (3) confirm extent is all the way back to the face of the administration building to the south, and not inside the building, and all the way back to the existing electrical equipt.. To the west.	Site Electrical Demolition Plan ES-0.	Elect. Response:(1) Yes, include portions outside the limit line as symbollically indicated as a line with "X" through it. See legend on ES-0. (2) Yes, demolition shall include removal of conduits, cabling and encasement. Provide backfill and compaction. (3) Extent is all the way into Administration building to the south and all the way back to the electrical equipment to the West.
13	Refer to ES-2, Confirm (E) PMS-F2 and feed to T-SS.	ES-2	See Addendum 2 for MV feed requirements
14	Spec (section 01 01 00 1.2.C.3) is calling to remove underground concrete pylons. Please advise if there is any as built drawings for existing library building. If not please provide direction on how to provide allowance for this scope	Spec (section 01 01 00 1.2.C.3)	See Drawing Sheet AS-2 and Original Building Structural As-Built sheets S-1 through S-10 issued with this Addendum #4.
15	Drawing A0-2 calls for "Seismic Gap" at bridge connections on second floor. Please provide details for this.	Drawing A0-2	Refer to Addendum # 2.

COMPTON COMMUNITY COLLEGE DISTRICT

RFQ CCC-056 Student Services Building

RFC Questions Answers

Addendum #4

RFC	Question	Reference Document	Answer
16	Sheet S-3.1 refers to detail 10/S5-0.3 at seismic gap locations. Detail 10/S5-0.3 indicates two beams at both sides of the gap, sheet S-3.1 Framing plan shows one beam only. Please advise	Sheet S-3.1	Structural Response: Beam is now shown on the framing plan.
17	4. Sheet 4.03 details 11, 16 and 17 show different column situations with or without fireproofing. Please advise which one applies to this project. Sheet AI-1 does not call for these details.	Sheet 4.03 details 11, 16 and 17	No Spray applied fire proofing required. Disregard details 11, 16 & 17 on sheet 4.03.
18	Sheet A9-1 and 6.01 shows District supplied flat screen panel and wall mounting bracket, but who will install of these items. Please advise.	sheet A9-1 and 6.01	Flat screen panel and wall bracket are OFOI. All other work related to this work is CFCI including but not limited to backing, electrical and low voltage.
19	Sheet 9-2 room #150 shows locker. Please provide spec section.	Sheet 9-2 room #150	Refer to the added specification in Addendum #4.
20	Please provide locations on where section 08 87 33 Architectural Decorative Window Films are required.	Section 08 87 33	Specification 08 97 33 applies to interior translucent glazing. See Addendum #4 plans for further clarification.
21	Per spec section 08 44 13 - 3.04.A - As informed by glazing subcontractors, the specified manufacturer do not provide this service. Please advise.	Spec Section 08 44 13 - 3.04.A	1. Should the manufacturer not be able or willing to provide the service identified in section 08 44 13 Part 3.04A, then the contractor shall contract with a representative inspector. Contact Dave Volkingburg with DVV & Associates (805) 778-0802 or (310) 344-4721 3902 W. Cresthaven Dr., Westlake Village, CA 91362 to provide same service identified for the manufacturer in 08 44 13 Part 3.04A.
22	Per spec section 08 44 13 - 3.04.C.1 - Please provided locations of designated area to be tested (none shown on the drawings).	Spec Section 08 44 13 - 3.04.C.1	Please see exterior elevation sheets A4.1 and A4.2 attached to this Addendum #4. The highlighted windows are to be tested.
23	Per spec section 08 44 13 - 3.04.C.3 - Please clarify if this is for the testing of all storefront and glazing on the project	Spec Section 08 44 13 - 3.04.C.3	3.This test applies to all glazed aluminum curtain wall systems. Refer to section 08 43 13 Part 3.04 for water testing of Aluminum framed storefronts.
24	Is there a construction schedule you can provide for this project?		Reference Specification Section 01 43 80 provided in the "RFQ CCC-056 Student Services Contract Documents" posted on the District's bid website.
25	Sheet 114/A9-1 is showing projection screens and flat panel displays with a note of “FFE by District.” Can you clarify what FFE means and that the district will be providing these? If the district is providing these screens & displays will the AV contractor be responsible for installing?	Sheet 114/A9-1	The FF&E on this project will be provided and installed by District Vendors. The contractor is not responsible to install the items, just provide the infrastructure and in some cases final connections to the FF&E items such as electrical connections to furniture.
26	Sheet 114/A9-1 is showing wall hung projectors and screens however sheet ET-5 references 1/ET-8 for this room. 1/ET-8 is showing a flat panel display and not a projector. Please clarify if this room should get projectors and screens OR LCD flat panel display?	Sheet 114/A9-1	Provide projectors and projection screens as illustrated on the architectural drawings. Provide a complete Clasroom AV system complete with conduit, cabling, devices, equipment, etc. for a complete projection system. RR/FBA 12/27/19.
27	Sheet ET-5 is showing two AV devices in the middle of “CORR. 100” but it is not clear what these devices are. Please clarify.	Sheet ET-5	Provide Digital Signage AV system complete with conduit, cabling, devices, equipment, etc. per 4/ET-9, both locations in corridor.

COMPTON COMMUNITY COLLEGE DISTRICT

RFQ CCC-056 Student Services Building

RFC Questions Answers

Addendum #4

RFC	Question	Reference Document	Answer
28	Sheet ET-5 is showing one AV device in the “ALT MEDIA 150B” room but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	Provide Digital Signage AV system complete with conduit, cabling, devices, equipment, etc. per 4/ET-9.
29	Sheet ET-5 is showing two AV devices in “TESTING CENTER 122” but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	Provide Conference Room AV system complete with conduit, cabling, devices, equipment, etc. per 2/ET-8.
30	Sheet ET-5 is showing three AV devices in “CALWORKS 270” but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	Room 270 is on Drawing ET-6, not ET-5. Provide Digital Signage AV system complete with conduit, cabling, devices, equipment, etc. per 4/ET-9.
31	Sheet ET-5 is showing one AV devices in “EOPS & CARE 280” but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	Room 280 is on Drawing ET-6, not ET-5. Provide Digital Signage AV system complete with conduit, cabling , devices, equipment etc. per 4/ET-9 Media Room BDF.
32	Sheet ET-5 is showing one AV devices in “COUNS./CAR. & TRNSF/FYE 266” but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	Room 266 is on Drawing ET-6, not ET-5. Provide Digital signage AV system complete with conduit, cabling, devices, equipment, etc. per 4/ET-9. Media Room is BDF.
33	Sheet ET-5 is showing one AV devices in “VP STU. SERVICES 242” but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	Room 242 is on ET-6, not ET-5. Provide Huddle Room AV system complete with conduit, cabling, devices and equipment, etc. per 3/ET-9.
34	Sheet ET-5 is showing one AV devices in “VRC LOUNGE” but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	"VRC LOUNGE" is on Drawing ET-6, not ET-5. Provide Digital Signage AV System complete with conduit, cabling, devices and equipment per 4/ET-9. Media Room is BDF.
35	4/ET-9 is showing an AV line drawing for Digital Signage but we cannot find the digital signage locations on the floor plans. Please clarify where these locations are.	4/ET-9	See Addendum #4 drawings clarifying digital signage locations.
36	The plans and specs do not seem to match up in multiple places. Can you confirm which document takes precedence?		Neither the plans or the specifications shall have precedence. The contractor shall bid the more costly item. Please bring specific items of conflict/descrepancies to the Architect's attention ASAP but prior to begining work.
37	(Ref. ET-3 A-D) & (Ref. ET-4) Back Bone Cable pull for Fiber, RG-11 & 100 Pair OSP. Please clarify end point for cable termination. From Building A-3B BDF-SS to MH splice?	(Ref. ET-3 A-D) & (Ref. ET-4)	Backbone cable shall be 6 strand SM fiber optic cable per College Request. Delete requirement for RG-11 and 100 pair OSP per issued addenda.

COMPTON COMMUNITY COLLEGE DISTRICT

RFQ CCC-056 Student Services Building

RFC Questions Answers

Addendum #4

RFC	Question	Reference Document	Answer
38	(Ref. ET-4) Please clarify Back Bone cable type requirements and termination points.	(Ref. ET-4)	Provide 6 strand SM fiber optic cable the entire length as shown on ET-4 and addenda, per the College request.
39	(Ref. ET-4) Plans show pathway from new BDF-SS all the way to (E) Communications Head End Equipment Location Approx. 1,200' end to end with multiple Man Holes. Is LV contractor responsible for pulling new cable for entire pathway or splicing into local man hole?	(Ref. ET-4)	Provide new fiber optic cable continuous from head end to BDF-SS via new and existing Fiber conduit system shown on ET-4. See drawings and addenda.
40	(Ref. ET-1 6) has Detail for 4 post rack & (Spec. 27 11 00-2.01 A) calls out Two-post racks (Spec. 27 11 00-2.01 D) Calls out four posts. Please clarify rack needs.	(Ref. ET-1 6)	Provide 2-post racks per 2.01D to match 2-post racks specified in IB#1 project.
41	(Spec. 27 00 00) Calls out for Horizontal Copper cabling to be Cat6A (Ref. ET-1 Telecom Symbol list) states Cat6E. Please specify Category cable type needed.	(Spec. 27 00 00)	Horizontal cabling should be Cat 6E.
42	(Spec. 27 53 13) Detail describes Clock system. However, cannot find any reference for qty: and locations for clock system on the drawings.	(Spec. 27 53 13)	See Addendum #4 drawings for clock locations.
43	Please specify if UPS E0-2 Uninterruptable Power Supply Unit in BDF will be EC provided and installed or LVC Provided and installed.		UPS shall be EC Provided and Installed.
44	Please confirm Fiber requirements – 12SM & 24MM both needed for backbone cable.		The Fiber Optic backbone shall be 6 strand SM fiber.
45	The Summary of Work states the contractor is to remove pylons to a minimum of 2 feet below the bottom of the over-excavation area of the new building. The plans do not show where these pylons are or any dimensions. There is nothing in the geo- technical report. How are we to quantify/estimate the pylon removal in our bid? What are the pylon dimensions? Are there as-builts?	The Summary of Work	See Drawing Sheet AS-2 and Original Building Structural As-Built sheets S-1 through S-10 issued with this Addendum #4.
46	Per 01500 2.2, contractor is to provide separate telephone and fax lines as well as high speed internet. Will the contractor be allowed to access the College's data and telephone network for their POC? If not, please advise where these potential POCs are located	01500 2.2	Yes, the District will allow the Contractor to connect to the District data/internet through a location near the existing Administration Building. Exact location for connection to be determined after the bid is awarded.
47	Sheet ET-4 shows pathway from new BDF-SS all the way to (E) Communications Head End Equipment Location approximately 1,200' end to end with multiple man holes. Will it be possible for contractor to splice into local man hole, or will contractor be required to pull new cable for entire pathway?	Sheet ET-4	Provide new fiber optic cable continuous from head end to BDF-SS via new and existing Fiber conduit system shown on ET-4. See drawings and addenda. RF/FBA 12/27/19
48	Regarding ET-4, please identify back bone cable type requirements and termination points.	ET-4	Provide 6 strand SM fiber optic cable the entire length as shown on ET-4 and addenda.

COMPTON COMMUNITY COLLEGE DISTRICT

RFQ CCC-056 Student Services Building

RFC Questions Answers

Addendum #4

RFC	Question	Reference Document	Answer
49	Regarding ET-3 A-D and ET-4, Back Bone Cable pull for fiber, RG-11 and 100 pair OSP, please identify end point for cable termination from Building A-3B BDF-SS to MH splice.	ET-3 A-D and ET-4	Backbone cable shall be 6 strand SM fiber optic cable. Delete requirement for RG-11 and 100 pair OSP per issued addenda.
50	Detail 4/ET-9 is showing an AV line drawing for Digital Signage but digital signage locations cannot be found on the floor plans. Please provide these locations.	4/ET-9	See Addendum #4 drawings clarifying digital signage locations.
51	Sheet ET-5 is showing one AV device in the "VRC LOUNGE" but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	"VRC LOUNGE" is on Drawing ET-6, not ET-5. Provide Digital Signage AV System complete with conduit, cabling, devices and equipment per 4/ET-9. Media Room is BDF.
52	Sheet ET-5 is showing one AV device in the "VP STU SERVICES 242" room but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	Room 242 is on ET-6, not ET-5. Provide Huddle Room AV system complete with conduit, cabling, devices and equipment, etc. per 3/ET-9.
53	Sheet ET-5 is showing one AV device in the "COUNS/CAR &TRNSF/FYE 266" room but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	Room 266 is on Drawing ET-6, not ET-5. Provide Digital signage AV system complete with conduit, cabling, devices, equipment, etc. per 4/ET-9. Media Room is BDF.
54	Sheet ET-5 is showing one AV device in the "EOPS & CRAE 280" room but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	Room 280 is on Drawing ET-6, not ET-5. Provide Digital Signage AV system complete with conduit, cabling , devices, equipment etc. per 4/ET-9 Media Room BDF.
55	We have sent multiple RFIs regarding the discrepancies between the plans and specs for the low voltage scope. For questions we may find after the RFI deadline, please identify whether plans or specs take precedence for this project.		Neither the plans or the specifications shall have precedence. The contractor shall bid the more costly item. Please bring specific items of conflict/descrepancies to the Architect's attention ASAP but prior to begining work.
56	Sheet ET-5 is showing two AV devices in the "TESTING CENTER 122" room but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	Provide Conference Room AV system complete with conduit, cabling, devices, equipment, etc. per 2/ET-8.
57	Sheet ET-5 is showing one AV device in the "ALT MEDIA 150B" room but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	Provide Digital Signage AV system complete with conduit, cabling, devices, equipment, etc. per 4/ET-9.
58	Sheet ET-5 is showing two AV devices in the middle of "CORR. 100" but it is not clear what these devices are. Please clarify.	Sheet ET-5	Provide Digital Signage AV system complete with conduit, cabling, devices, equipment, etc. per 4/ET-9, both locations in corridor.
59	Detail 114/A9-1 is showing wall hung projectors and screens. Sheet ET-5 references 1/ET-8 for this room. 1/ET-8 is showing a flat panel display and not a projector. Please clarify if this room should get projectors and screens or LCD flat panel displays.	Detail 114/A9-1	Provide projectors and projection screens as illustrated on the architectural drawings. Provide a complete Clasroom AV system complete with conduit, cabling, devices, equipment, etc. for a complete projection system.
60	Per detail 7/6.01 and similar for FFE District supplied flat screen TVs, please confirm these are Owner Furnished, Owner Installed and Contractor is only to supply and install backing.	Detail 7/6.01	Flat screen panel and wall bracket are OFOI. All other work related to this work is CFCI including but not limited to backing, electrical and low voltage.
61	Regarding details like 114/A9-1 and similar, what is meant by FFE?	Details like 114/A9-1	The FF&E on this project will be provided and installed by District Vendors. The contractor is not responsible to install the items, just provide the infrastructure and in some cases final connections to the FF&E items such as electrical connections to furniture.

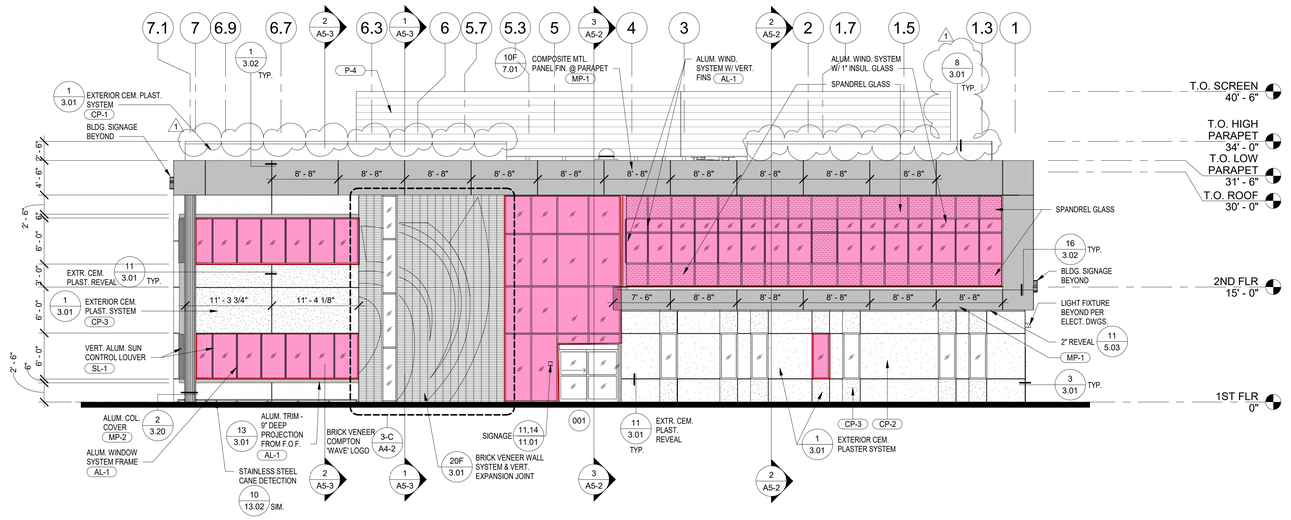
COMPTON COMMUNITY COLLEGE DISTRICT

RFQ CCC-056 Student Services Building

RFC Questions Answers

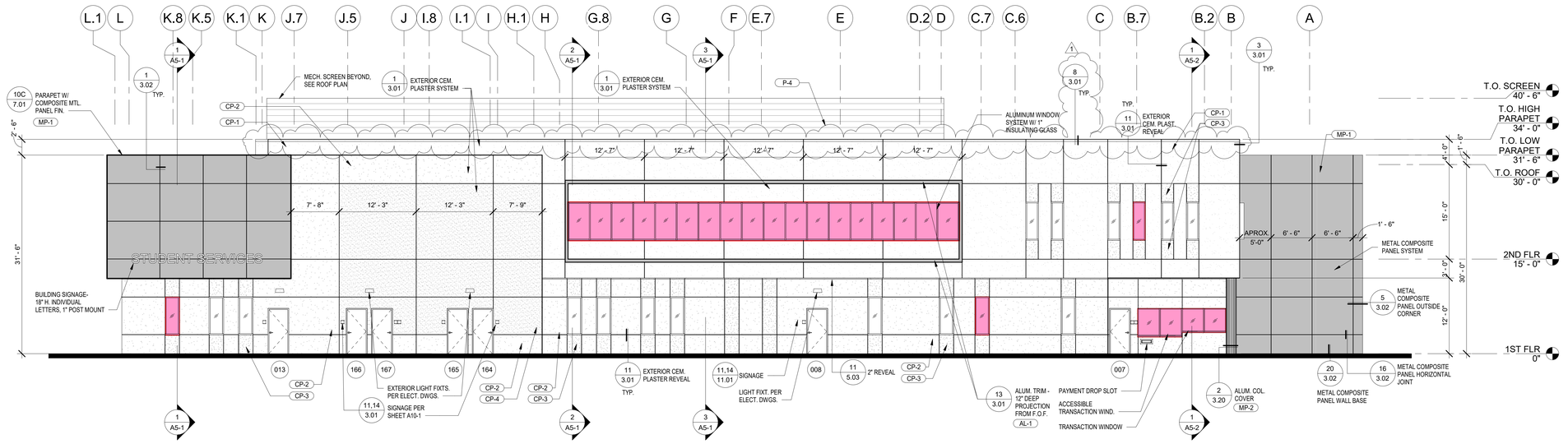
Addendum #4

RFC	Question	Reference Document	Answer
62	Please confirm fiber requirements 12SM & 24SM are both needed for backbone cable.		The Fiber Optic backbone shall be 6 strand SM fiber.
63	Please confirm listing of low bidder's subcontractors will either be read or be available for viewing at time of bid opening. If not, please advise when bidders can expect to receive low bidders listing of designated subcontractors.		After bids are opened and read to the public, any requests for bid documents should be emailed to Carol Kober at ckober@pcm3.com. Those requests will be forwarded to the District and they will provide the documents requested.
64	Please specify if the UPS EO-2 uninterruptable power supply unit in BDF will be EC provided and installed or LVC provided and installed.		UPS shall be EC Provided and Installed.
65	Sheet ET-5 is showing three AV devices in the "CALWORKS 270" room but it is not clear what AV system type should be provided for this room. Please clarify.	Sheet ET-5	Room 270 is on Drawing ET-6, not ET-5. Provide Digital Signage AV system complete with conduit, cabling, devices, equipment, etc. per 4/ET-9.
66	Spec 27 53 13 describes clock system. Please provide locations and quantities for clock system as it is not shown on drawings.	Spec 27 53 13	See Addendum #4 drawings for clock locations.
67	It is not realistic to assume all shop drawings can be procured within 45 days from NTP per 013040. Please advise if this can be changed to 70 days from NTP.	NTP per 013040	Shop drawings will be required within 45 days from NTP per the contract document requirements.
68	6/ET-1 details a 4 post rack. Spec. 27 11 00-2.01A calls out 2 post racks. Spec. 27 11 00-2.01D calls out 4 post racks. Please clarify rack needs.	6/ET-1	Provide 2-post racks per 2.01D.
69	Please advise if schedule of submittals is acceptable 25 days from NTP per 013040 as it is not likely all contracts will be procured and submittals will be sent within that time.	NTP per 013040	Submittals are required within 25 days from NTP per the contract document requirements.
70	Is it acceptable for the schedule required 15 days after NTP per 013040 to be a preliminary schedule?	NTP per 013040	Yes, It is acceptable to provide a preliminary schedule 15 days after NTP with baseline schedule to follow at 30 days after NTP.
71	Does the owner have a potential temp electrical POC in mind for the project?		Electrical POC to be determined after award of bid.
72	Please confirm that concrete liquid densifier/hardener referenced in section 033511 2.02.B is only to be applied to areas indicated as "C-1" on Sheet 9.01.	Section 033511 2.02.B	The densifier/Hardner referenced in section 03 35 11 Part 2.02B applies to C-1 and C-2 on the finish schedule.
73	Please identify if "C-1" on Sheet 9.01 is indication to apply "CF-1" high gloss clear sealer per 033511. Please also confirm CF-2 referenced in 033511 2.02.C. does not apply to this project.	C-1 on Sheet 9.01	As indicated in specification 03 3511 part 2.02A, "Unless otherwise indicated, all concrete floors are to be finished using high gloss sealer. CF-1 in the specification is equivalent to C-1 on the drawings.
74	Spec. 27 00 00 calls out for horizontal copper cabling to be Cat6A. ET-1 telecom symbol list states Cat6E. Please specify category cable type needed.	Spec. 27 00 00	To maintain consistency with other projects, change horizontal cable to CAT 6E.
75	The bid deadline is currently January 9th at 2pm, with the upcoming holidays it will be difficult to develop a competitive bid in less than 3 weeks (with holidays). Will the District consider postponing the bid deadline by one week to ensure the Owner received the most competitive bid possible?		The bid date is postponed to January 23, 2020 at 2PM per Addendum #3.



EAST ELEVATION 2

SCALE 1/8" = 1'-0"



NORTH ELEVATION 1

SCALE 1/8" = 1'-0"

GENERAL NOTES:
1. REFER TO COLOR SCHEDULE ON SHEET 9.02

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architect

consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

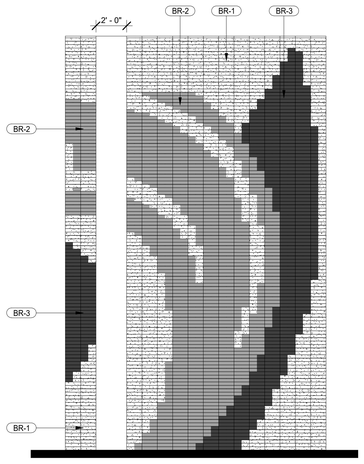
owner

tBP project number: 20987.00
file name: CC_SS_Central.RVT
drawn by: Z. WEN checked by: T. HALL
date: 9.3.2019

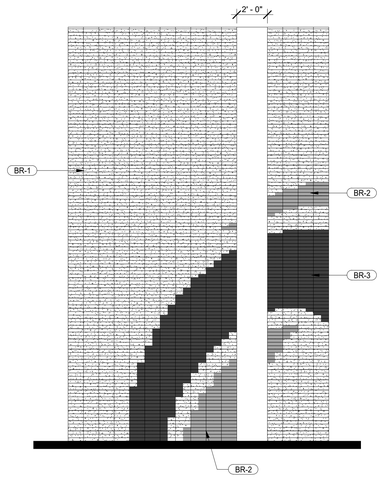
rev:	date:	description:
1	11/20/19	Addendum 1

drawing title:
EXTERIOR ELEVATIONS

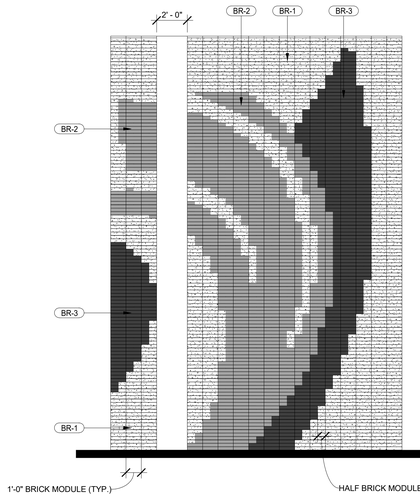
drawing no.:
A4-1
drawing of



A



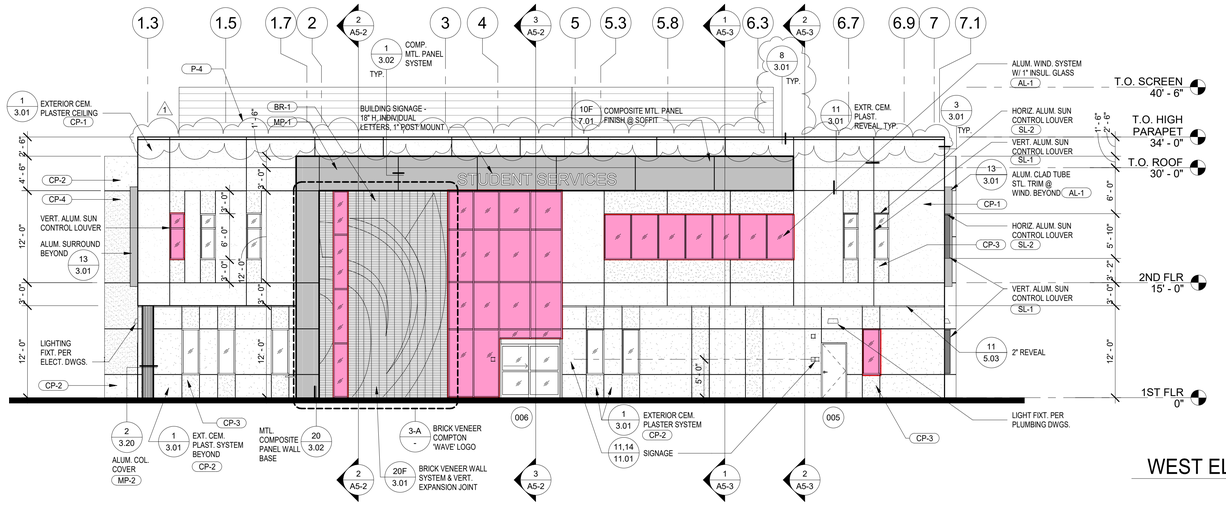
B



C

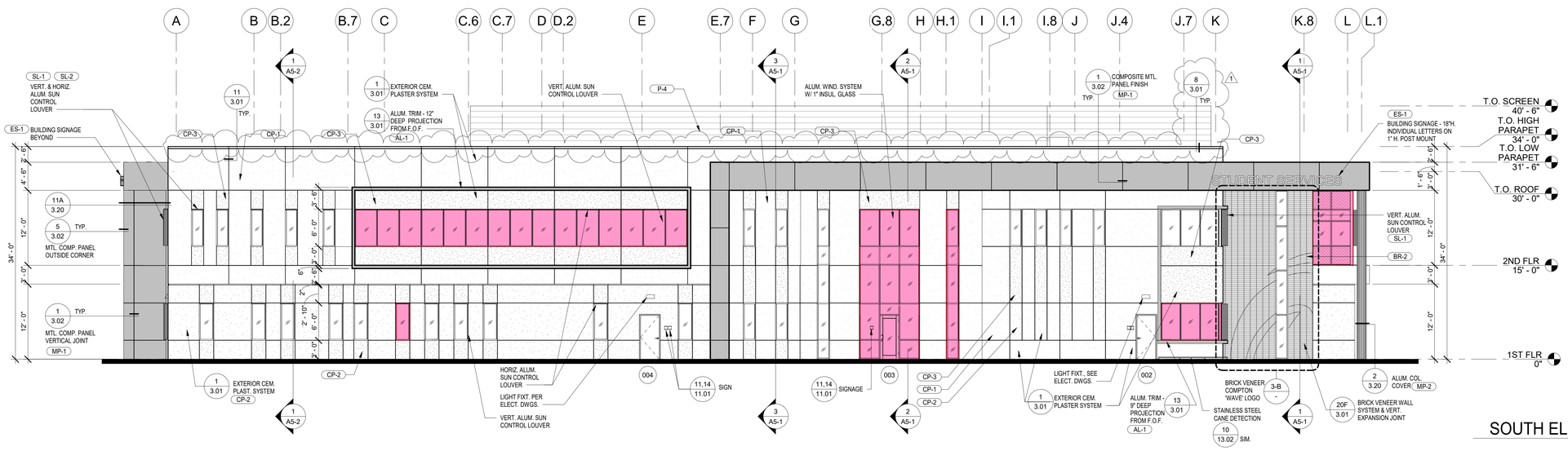
CCCD LOGO ON BRICK WALL

SCALE 1/4" = 1'-0" — 3



WEST ELEVATION

SCALE 1/8" = 1'-0" — 2



SOUTH ELEVATION

SCALE 1/8" = 1'-0" — 1

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COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

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drawn by: Z. WEN checked by: T. HALL

date: 9.3.2019

rev:	date:	description:
1	11/20/19	Addendum 1

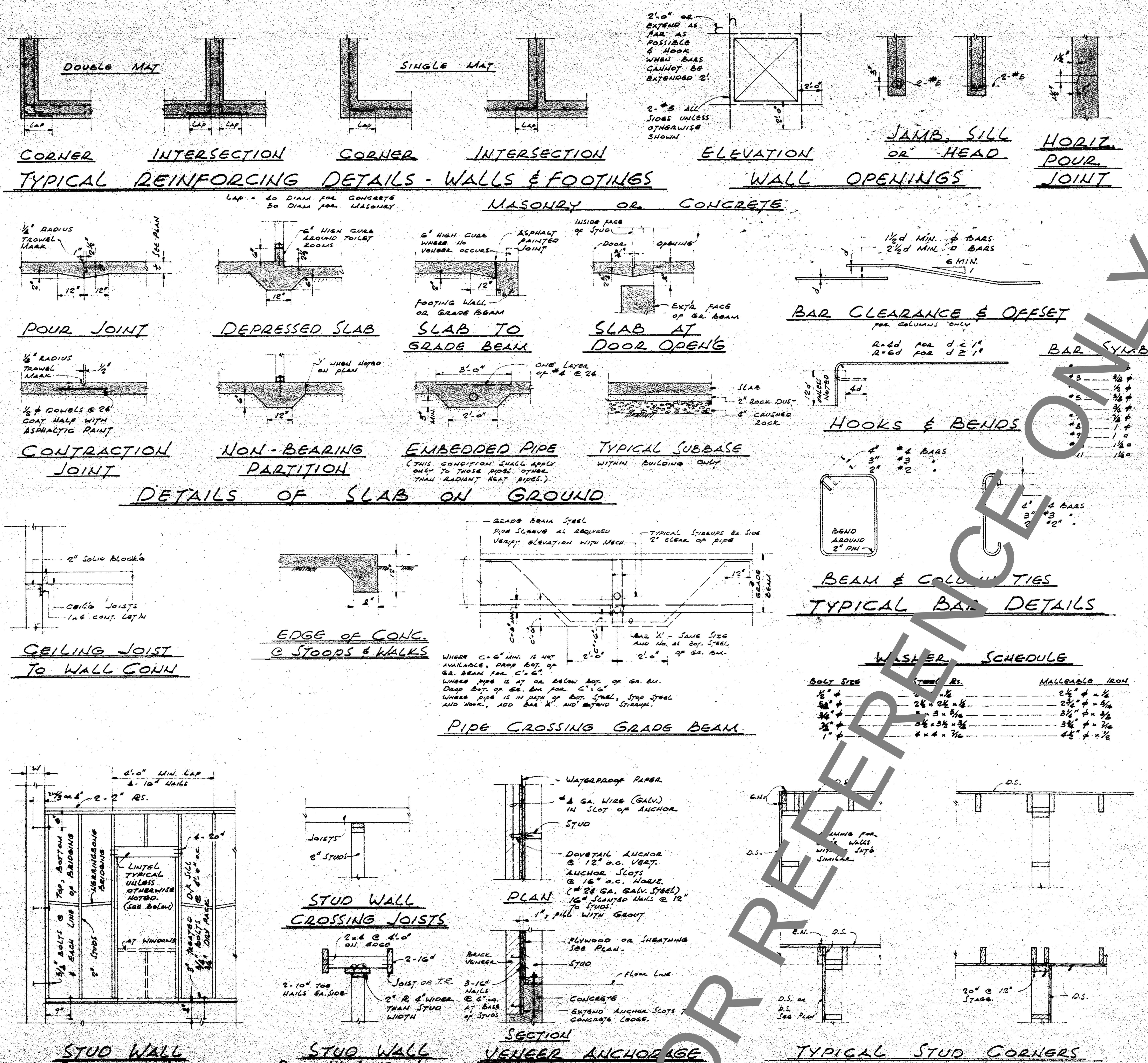
drawing title:

EXTERIOR ELEVATIONS

drawing no.:

A4-2

drawing of



Lintel: 4" deep same width as studs in non-bearing walls; 6" deep in bearing wall.

Nailing Schedule

All nails shall be common wire nails. Sub-drill where nails tend to split the wood

Joists or Rafters
To bearing — 2-10d toe nails ea. side
At laps (12" minimum) — 4-16d

Blocking
To joists and rafters — 2-10d toe nails ea. side ea. end
To bearings — 2-10d toe nails ea. side

Cross Bridging
To joists or rafters — 2-8d toe nails ea. end

Sheathing to Bearing
1x6 — 2-8d (3-8d ea. end; = E.N.)
1x8 — 3-8d (4-8d ea. end; ")
2x6 — 2-16d (3-16d ea. end; ")

Studs to Bearing — 2-10d toe nails ea. side*

Ribbon to Studs
1" ribbon — 2-8d
2" ribbon — 2-16d

*Studs wider than 6" to bearing — 3-10d toe nails ea. side (top & bott.)

Double Top Plates
Lower plate to stud — 2-20d
Upper plate to lower — 16d @ 12" o.c. Stagg.

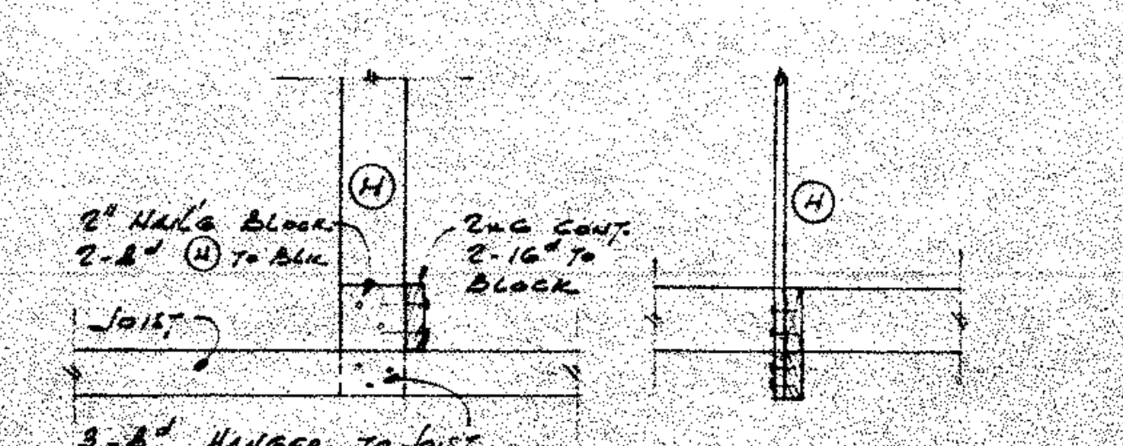
Herringbone Bridging to stud — 2-10d toe nails ea. side

Multiple Studs — Stagger for width more than 6" — 16d @ 12" o.c.

Joists or Rafters to Sides of Studs
Eight inch joists or less — 3-16d
For ea. additional 4" in depth — 1-16d

Built Up Beams
Eight inches or less in depth — 16d @ 12" Stagg.
More than eight inches — 5/8" bolts @ 24"

Ceiling Stripping
1" material to joist — 2-8d 1 St. 1 Slant
2" material to joist — 2-16d 1 St. 1 Slant
(Nails at joints of ceiling strips to be pre-drilled)



Typical for all hangers that occurs in middle half of span

General Notes

Applying to all drawings unless otherwise shown or noted

Building Designed to comply with Uniform Building Code dated 1949 and Title 21 of California Administrative Code.

Designed Loading Dead load plus the following live loads:

Roof — 20 P.S.F. Seismic = .1 (D.L. + .6 L.L.)
Floor — 50 " Wind = 15#/□'
Stairs — 100 "

Foundation
Soil Type, Soil Pressure } See Foundation Investigation prepared by F. J. Converse dated June 28, 1951

Concrete shall develop a minimum compressive strength at 28 days as follows:
2000 P.S.I. — Grade beams, slab on ground & curbs.
3000 P.S.I. — Friction piles, all walls, cols and supported slabs above ground floor.
All exposed edges to have 3/4" chamfer. Reinforcing bars to be (A.S.T.M. 305) deformed bars. Wall steel shall lap 40 diameters at splices - stagger horizontally. Column steel shall lap 30 diameters at splices. Reinforcing steel, anchor bolts, and other inserts shall be positively secured in place before concrete is poured.
Reinforcing steel shall have following minimum coverage:

3" — Poured against earth; 2" — Exterior face of walls
2" — Earth contact forms used; 2" — Columns
3/4" — Top and bot. of structural slabs; 1" — Joists
1 1/2" — Beams and interior face of walls; 1" — Vaults

Structural Steel

Connections All connections to be A.I.S.C. Series 'B' or equal. The same size Dardelét bolts may be substituted for rivets.

Bolts and Rivets Rivets and bolts holes not marked shall be 3/4". Bolts connecting column bases shall have unthreaded shanks extending completely through the jointed parts. Dardelét or ribbed bolts shall be driven in holes with diameter 1/16" larger than nominal bolt diameter. Ribbed shank must extend full thickness of connecting plates and/or members. Washers may or may not be used. Nuts must be thoroughly tightened and be provided with an approved mechanical device that prevent back slippage.

Holes Rivet and bolt holes shall have 1/16" clearance. Unfair holes shall not be enlarged by drifting. Pin holes for bracing shall be sub-punched and reamed to pin size plus 1/50 maximum.

Erection The steel fabricator shall furnish all temporary guys and bracing required to hold the steel frame plumb until permanent bracing is in place. Bracing rods shall be given an initial tension of 3000 P.S.I. Fabrication and erection shall comply with A.I.S.C.

Compressive Members Pipe column ends shall be saw cut or milled. No compression member shall vary from its intended line by an amount greater than one one-thousandth of its length.

Plates Base plates and head plates shall be attached to column so that the required alignment is maintained for compression members.

Wood

Grading All joists, rafters, beams & mullions 3 5/8" net wide or more shall be 1900f. All other joists and rafters shall be 1450f. All posts and compression members shall be 1200c. All structural plywood shall be exterior grade.

Sills Sills on concrete shall be treated Douglas Fir anchored with 5/8" bolts @ 48" o.c. and 9" from ends of each piece of sill. Sill shall be bedded on 3/4" dry pack.

Blocking and Bridging Provide as follows:
2" solid blocking between joists and rafters over supports.
2x3 cross bridging between joists and rafters 8" or over in depth, not over 8'-0" on centers nor more than 8'-0" from support.
Continuous 2" herringbone bridging (slope 3 in 12) at midheight of studs or so spaced that the unbraced length of studs shall not exceed 7'-0".

Bolts Bolt holes in wood shall be same nominal diameters as the bolts. Provide square plate washers under heads and nuts where bearing is against wood; cut washers where bearing is against steel. Length of thread shall be such that threads do not bear against wood or steel (provide washers as necessary to insure this condition). All nuts shall be tightened when placed and re-tightened at completion of the job or immediately before closing with finish construction. See schedule for washer sizes.

Nailing See Nailing Schedule
Nailing not noted in schedule or on details shall be at least two nails at all contact points, using 8d thru 1" material and 16d thru 2" material.
All window and door frames shall be securely anchored in place. Block out solidly between jambs and cripples or mullions - one near top and bottom and and not over 24" o.c. between. Nail to each block with 2-16d finish nails set 1/8".

Lag Screws shall be screwed (not driven) into place. Drill holes same diameter and depth as shank, then drill hole 1/16" less than diameter at base of thread for the threaded portion.

Diagonal Sheathing
Roofs, exterior walls, sub-floor, and interior partitions where noted D.S. shall be sheathed with boards laid at 45 degrees. There shall be at least one bearing (2 spaces) between joints in adjoining boards. For wall sheathing there shall be at least two boards between joints on the same bearing. For roof and floor sheathing there shall be at least one board between joints on the same bearing. Runs of 10'-0" or less shall be in one length. Joints shall be cut to center on and parallel to bearing. All diagonal sheathing used structurally shall extend continuously behind all chalk, tack boards and other finish. When it is to be plastered, it shall be protected by an unbroken layer of moisture-tight paper under lathing.

Brick-Masonry Brick shall be M.W. grade conforming to A.S.T.M. Specification C 62-41T. Construction shall be reinforced grouted masonry. All brick in the outer tiers shall be laid with full shoved head & bed joints of mortar and all interior joints shall be filled with grout. Brick in the interior tiers shall be placed or floated in grout poured between the two outer tiers. One of the outer tiers may be carried up not more than 5 courses before grouting, but the other shall be carried up not more than one course above the grout. Clearance between reinforcement and brick face shall be not less than 1/2". If the work is stopped for one hour or longer, horizontal construction joints shall be formed by stopping the grout 1 1/2" below the top of the outer tiers. Bar lap at splices shall be 50 diameters. 5/8" mortar bed shall be used. Bolts in brick masonry shall be set in 3" ⌀ bored holes and dry packed firmly.

Symbols

D.S. — indicates 1" solid diagonal sheathing
S.S. — " solid straight sheathing
▨ — " continuous member in section
☒ — " solid blocking
— " pour or contraction joint
—◆— " stud anchor
D.P. — " depressed slab
E.N. — " end nailing
P.S. — " plywood sheathing
(S2/A) — indicates section A on sheet S2
D.J. — " double joists or rafters
D.H. — " double header
(H) — " 1x6 hangers, not over 7'-0" o.c. in same lines of joists or rafters, with 3-8d each end.

Note: Typical details shall apply in all cases unless noted or shown otherwise.

State of California — Department of Public Works, Division of Architecture
9728 Application No. Approved May 5 1952 Per Harry W. Bolin

· Library Building · A-1

Remarks | Revisions | Engineers | Approvals

Ernest H. Lee, Structural Engineer, License No. 6182 — Ernest H. Lee

Austin · Field & Fry Architects A.I.A.
2311 West Third Street · Los Angeles 5, California · Dunkirk 8-1326

· Typical Details ·
· Compton Junior College ·
· Compton · Artesia Street and Santa Fe Avenue · California ·

Date 3-25-52 · Comm. 1011 · Sheet Number S-1

ELEVATION

PLAN

PILE DETAIL

ELEV.

SECTION AA

PLAN

SECTION BB

DETAIL I

SECTION CC

SECTION N

SECTION Z

SECTION DD

(SEC. EE SAME EXCEPT AS NOTED)

FIRST FLOOR & FOUNDATION PLAN

⅛" = 1'-0"

NORTH

NOTES:

▱ INDICATES CONCRETE COL. NUMBER
SCALE = ½" = 1'-0" EXCEPT AS NOTED.
ALL DIMENSIONS TO FACE OF STUD OR ℄ OF PARTITION.
ALL STUDS ARE 2X6 @ 16 UNLESS OTHERWISE NOTED.
DS INDICATES 1-INCH SOLID DIAGONAL SHEATHING. OUTSIDE FACE OF ALL EXTERIOR WALLS TO HAVE DS; INSIDE FACE OF EXTERIOR WALLS & INTERIOR WALLS AS NOTED.
L INDICATES LENGTH OF PILE WITHIN EXISTING GROUND.
'A' INDICATES 16¢ FRICTION PILE.
'B' INDICATES 24¢ FRICTION PILE.
'C' INDICATES 30¢ FRICTION PILE.

NOTE:
SEE MECH. DWGS. FOR BOILER PADS. GEN'L CONTRACTOR TO VERIFY SIZE & LOCATION OF BOILER PADS WITH H.& V. CONTR.

SECTION M

SECTION W

(SEC'S T, X & FF SAME EXCEPT AS NOTED FOR DIMENSIONS ONLY)

SECTION U

SECTION A

(SEC'S P & Q SAME EXCEPT AS NOTED)

SECTION B

SECTION C

(SEC. D SAME EXCEPT AS NOTED)

SECTION E

(SEC. R SAME EXCEPT AS NOTED)

SECTION F

SECTION G

SECTION H

SECTION J

SECTION K

(SECT. V SAME EXCEPT AS NOTED)

SECTION L

(SEC'S S & Y SAME EXCEPT AS NOTED)

·LIBRARY BUILDING· A-1

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
9728 APPROVED MAY 5 1952
BY Harry M. Colin

Remarks

Revisions

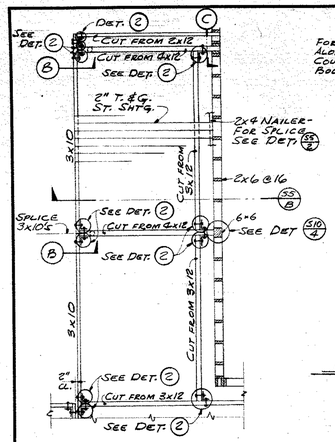
Engineers
ERNEST H. LEE
STRUCTURAL ENGINEER
LICENSE NO. 6132
Ernest H. Lee

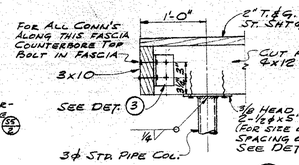
Approvals
DRAWN BORJAS & BARKER
ARCHITECT — LICENSE # C-386
CHECK'D W. Lowe

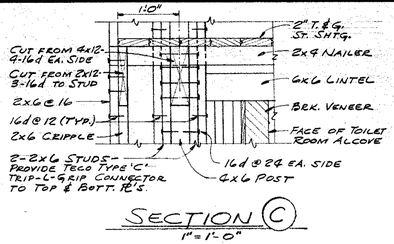
AUSTIN · FIELD & FRY
Architects A.I.A.
2311 WEST THIRD STREET · LOS ANGELES 5, CALIFORNIA · DUNKIRK 8-1326

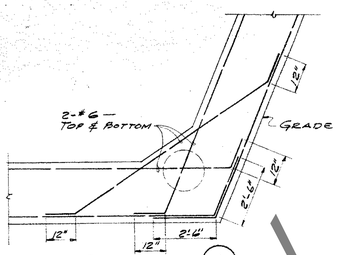
·FIRST FLOOR & FOUNDATION PLAN·
·COMPTON JUNIOR COLLEGE·
·ARTESIA STREET AND SANTA FE AVENUE·
·COMPTON· ·CALIFORNIA·

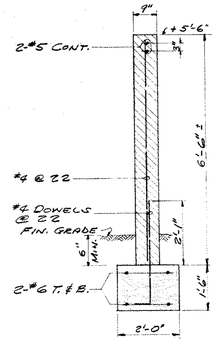
DATE 3-25-52
COMM. 1091
SHEET NUMBER S-2

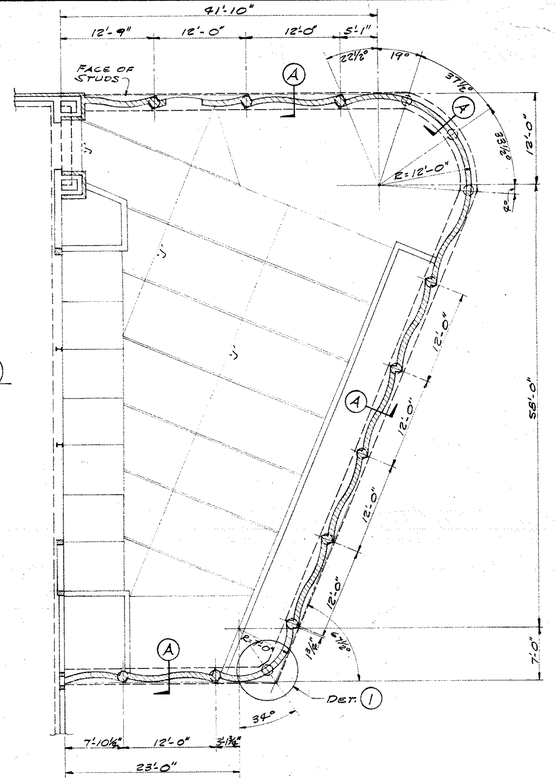


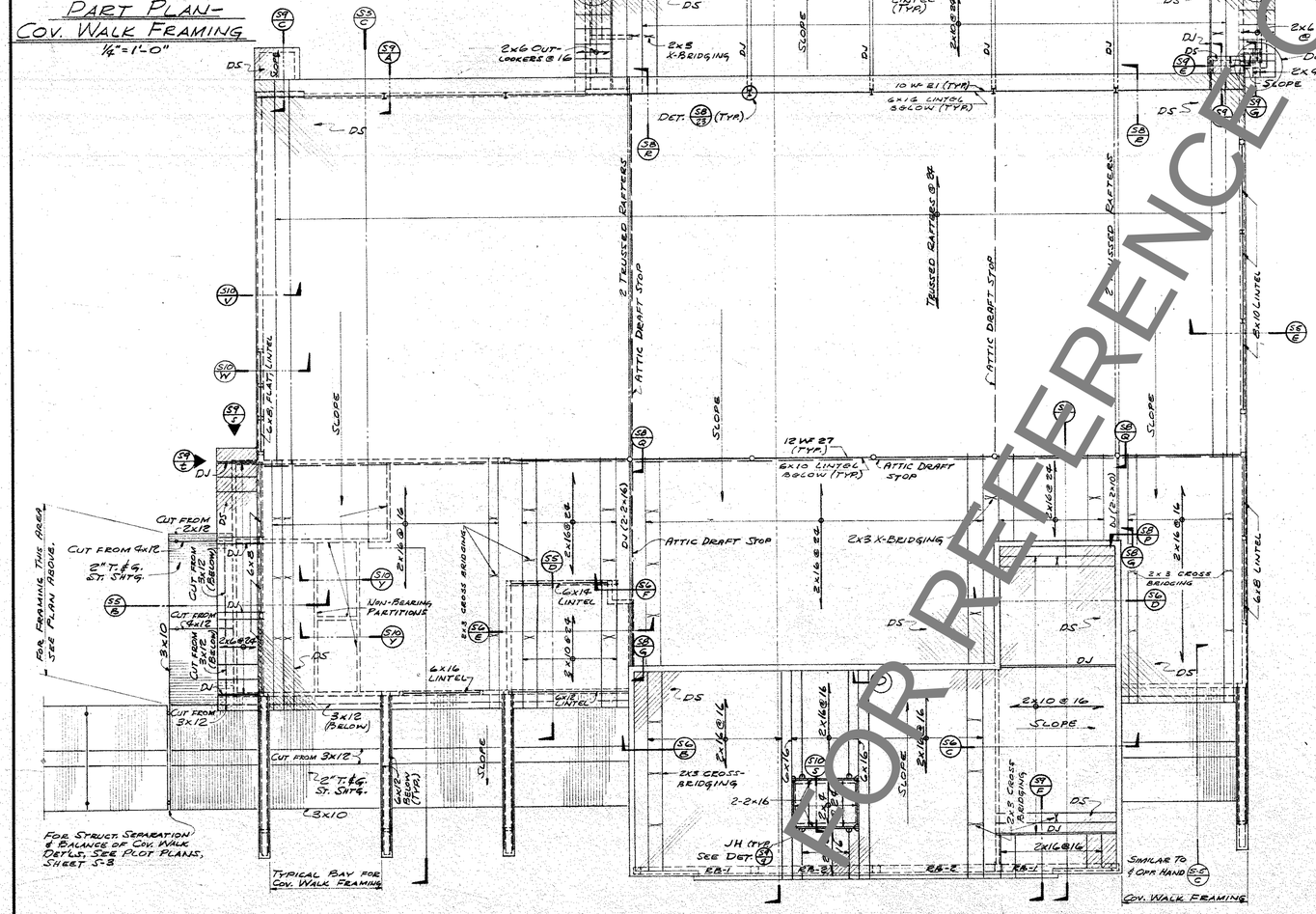


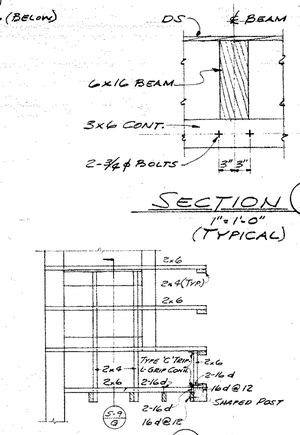


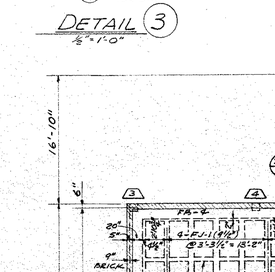


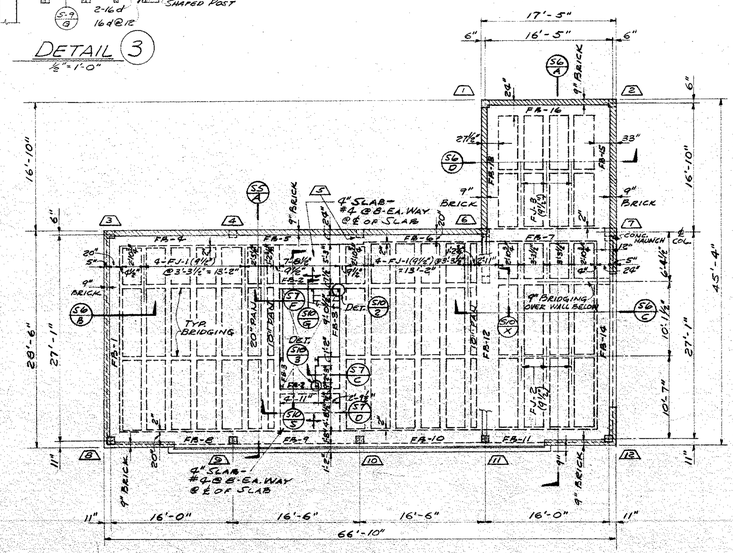












PART PLAN-
COV. WALK FRAMING
1/4"=1'-0"

SECTION Ⓑ
1"=1'-0"

SECTION Ⓒ
1"=1'-0"

DETAIL ②
1"=1'-0"

DETAIL ①
1/2"=1'-0"

SECTION Ⓐ
1/2"=1'-0"

PART PLAN - FLOOR & FOUNDATION PLAN
1/8"=1'-0"

NOTES: 1) ALL PILES TO BE 16"ϕ, L=10'-0"
2) SPLICES IN REINF. IN GR. BMS. MUST BE 40d LAP AND MUST OCCUR AS FOLLOWS: TOP BARS @ ℄ OF SPANS; BOT. BARS OVER SUPPORTING PILES.

SECTION Ⓓ
1"=1'-0"
(TYPICAL)

DETAIL ③
1/2"=1'-0"

ROOF FRAMING PLAN
1/8"=1'-0"
N.B.P. = NON-BEARING PARTITION

SECOND FLOOR FRAMING PLAN
1/8"=1'-0"
SEE SHEET S-7 FOR BM., JOIST, & COL. REINF. DET'LS
(—) = WIDTH OF JOIST
⏢ COLUMN NO.

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
9728 APPROVED MAY 5 1952
Harry W. Bolin

Remarks

Revisions

Engineers
ERNEST H. LEE
STRUCTURAL ENGINEER
LICENSE No. 6189
Ernest H. Lee

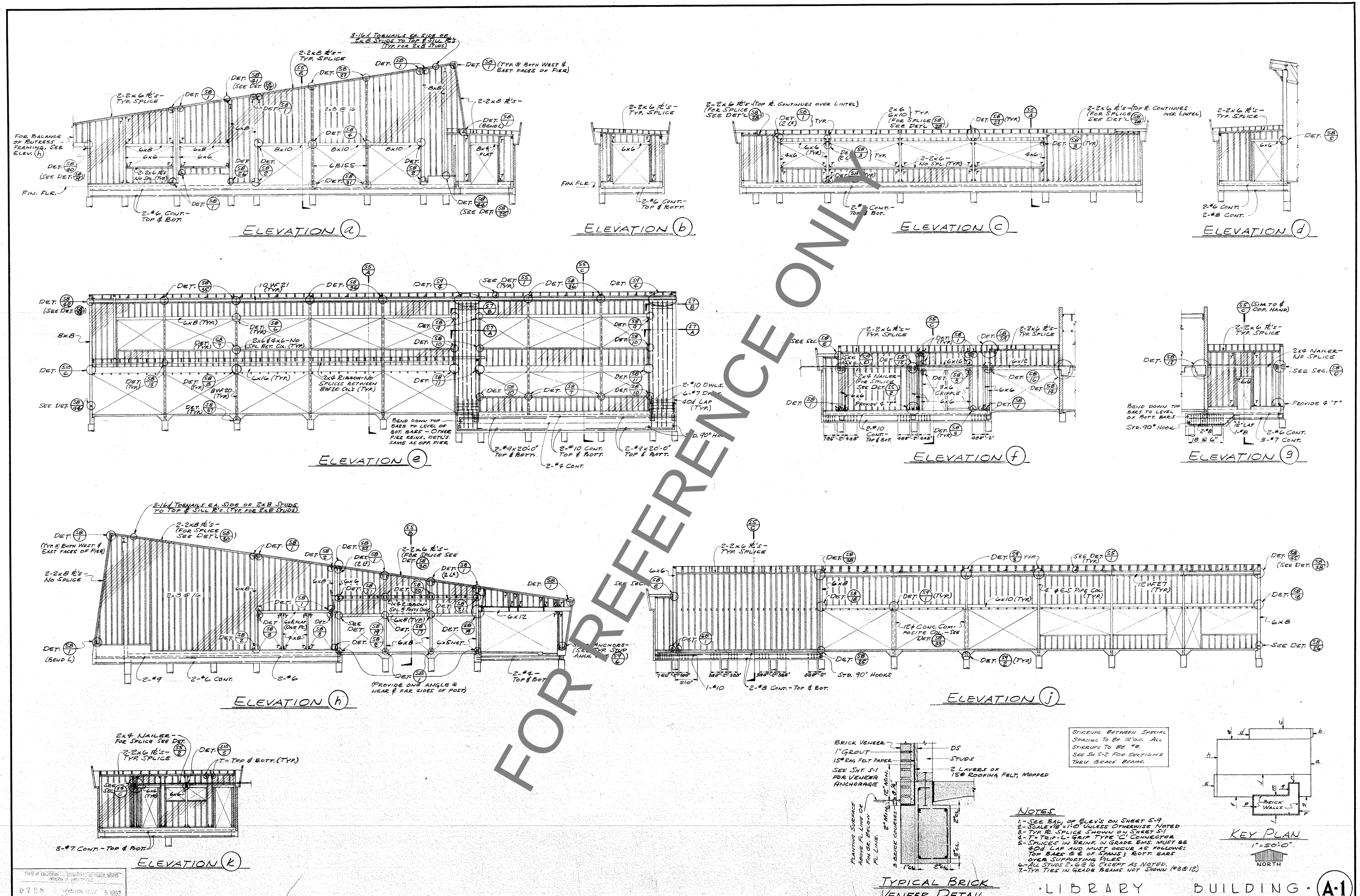
Approvals
DRAWN L. BORJAS R. BARKER
Charles E. Fry
ARCHITECT — LICENSE C-1324
CHECK'D W. Lowe

·LIBRARY BUILDING· A·1

AUSTIN·FIELD & FRY
Architects A.I.A.
2311 WEST THIRD STREET · LOS ANGELES 5, CALIFORNIA · DUNKIRK 8-1326

·SECOND FLOOR & ROOF FRAMING PLANS·
·COMPTON JUNIOR COLLEGE·
·ARTESIA STREET AND SANTA FE AVENUE·
·COMPTON· ·CALIFORNIA·

DATE 3-25-52
COMM. 1091
SHEET NUMBER S-3

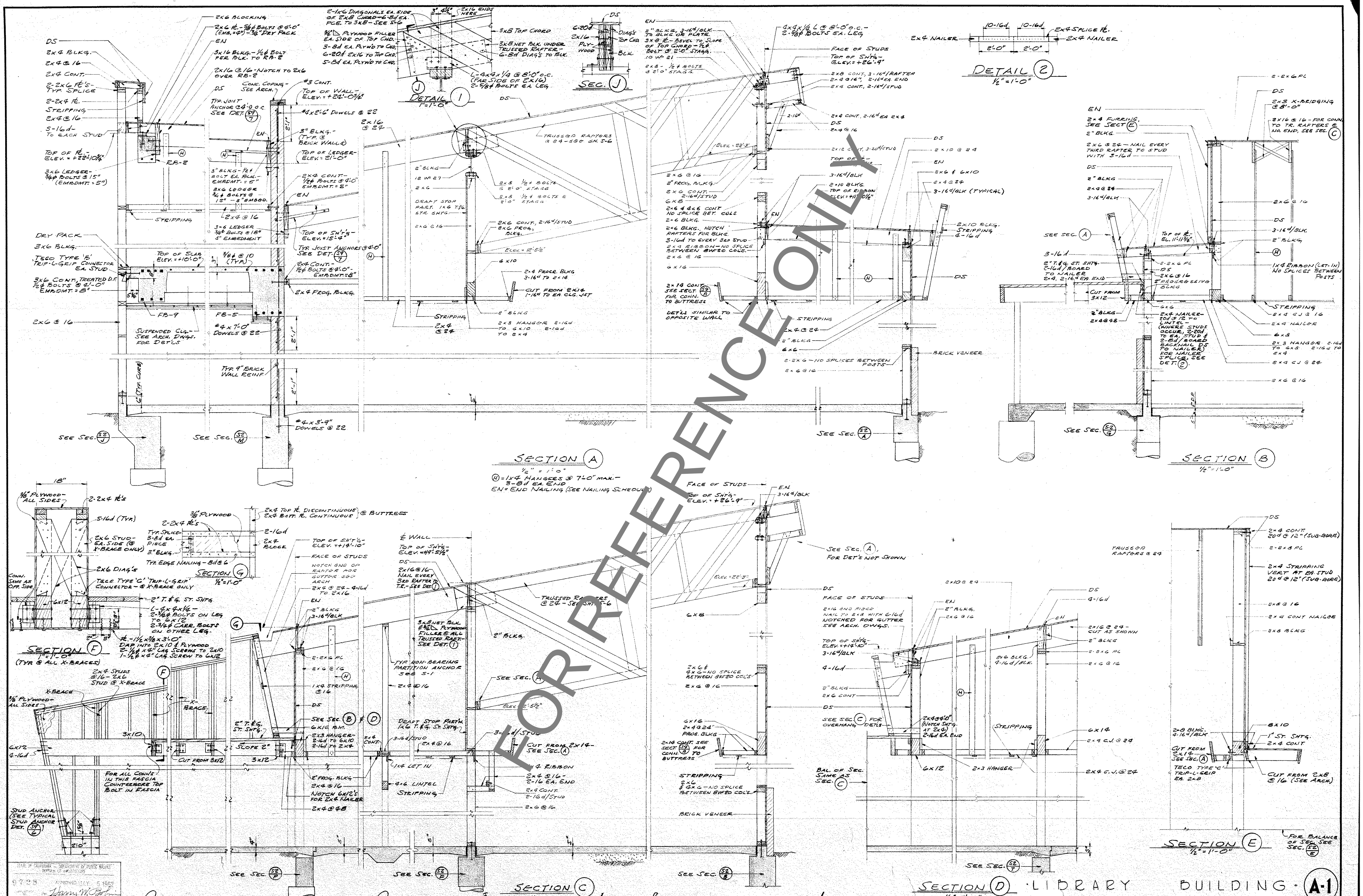


ELEVATION (a)
ELEVATION (b)
ELEVATION (c)
ELEVATION (d)
ELEVATION (e)
ELEVATION (f)
ELEVATION (g)
ELEVATION (h)
ELEVATION (j)
ELEVATION (k)
TYPICAL BRICK VENEER DETAIL
1" = 1'-0"
KEY PLAN
1" = 50'-0"
NORTH
STIRRUPS BETWEEN SPECIAL SPACING TO BE 12" O.C. ALL STIRRUPS TO BE #3. SEE SH. S-2 FOR SECTIONS THRU GRADE BEAMS.
NOTES
1.- SEE BAL. OF ELEV'S ON SHEET S-9
2.- SCALE = 1/8" = 1'-0" UNLESS OTHERWISE NOTED
3.- TYP. PL. SPLICE SHOWN ON SHEET S1
4.- T = TRIP-L-GRIP TYPE "C" CONNECTOR
5.- SPLICES IN REINF. IN GRADE BMS. MUST BE 40d LAP AND MUST OCCUR AS FOLLOWS: TOP BARS @ ¢ OF SPANS; BOTT. BARS OVER SUPPORTING PILES
6.- ALL STUDS 2x6 @ 16 EXCEPT AS NOTED.
7.- TYP. TIES IN GRADE BEAMS NOT SHOWN (#3 @ 12)
FOR REFERENCE ONLY

LIBRARY BUILDING · A·1

Remarks	Revisions	Engineers	Approvals		
		ERNEST H. LEE, STRUCTURAL ENGINEER	Drawn: R. Barker	AUSTIN, FIELD & FRY, Architects A.I.A.	·ELEVATIONS·
			Architect — License	2311 WEST THIRD STREET · LOS ANGELES 5, CALIFORNIA · DUNKIRK 8-1326	·COMPTON JUNIOR COLLEGE· ARTESIA STREET AND SANTA FE AVENUE · COMPTON · CALIFORNIA

Date: 3-25-58 · Comm. 1091 · Sheet Number S·4



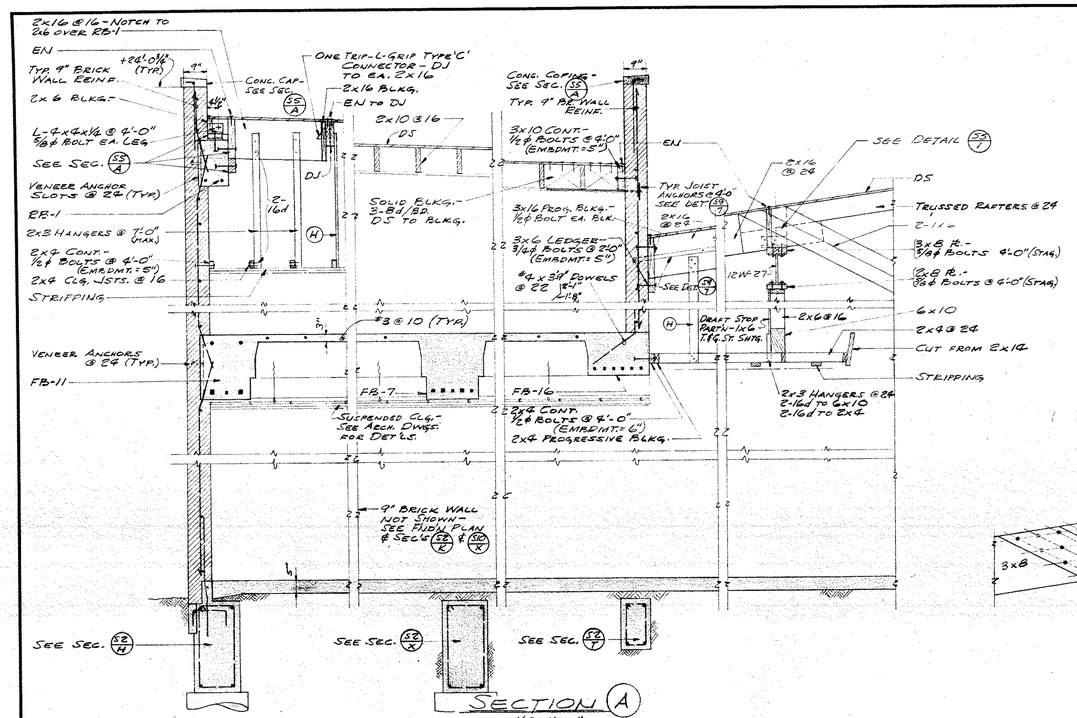
LIBRARY BUILDING · A-1

Remarks	Revisions	Engineers	Approvals
		ERNEST H. LEE, STRUCTURAL ENGINEER	

AUSTIN, FIELD & FRY
Architects A.I.A.
2311 WEST THIRD STREET · LOS ANGELES 5, CALIFORNIA · DUNKIRK 8-1326

· SECTIONS ·
· COMPTON JUNIOR COLLEGE ·
· ARTESIA STREET AND SANTA FE AVENUE ·
· COMPTON · CALIFORNIA ·

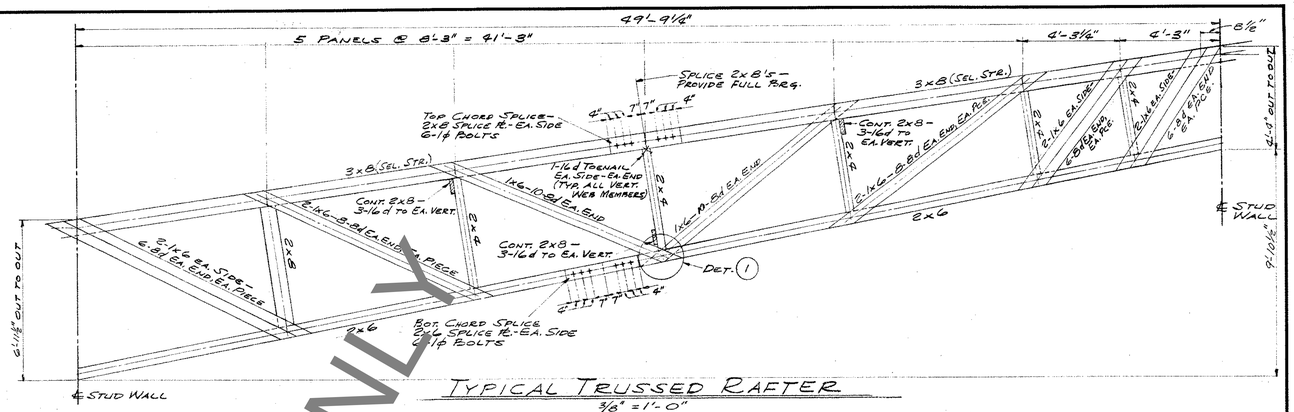
COMM. 1091
SHEET NUMBER S-5



SECTION (A)

1/2" = 1'-0"

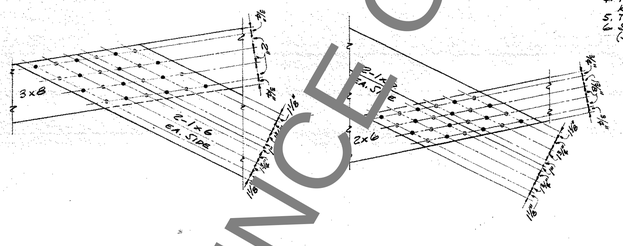
(H) = 1x4 Hangers @ 7'-0" Max.
3-8d ea. End
T.R. = Typ. Trussed Rafter
E.N. = End Nailing (See Sht. S-1)



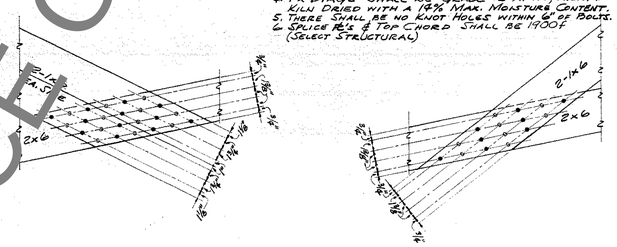
TYPICAL TRUSSED RAFTER

3/8" = 1'-0"

1. Camber Truss 2" @ Center of Lower Chord
2. Predrill Undersize Holes for All Nails in 1" Truss Members
3. See This Sheet for Connections of Diagonals to Chords
4. 1" x Diag'l. Shall be Grade "C" of PP 114, W.C.L.A. Kiln Dried with a 19% Max. Moisture Content.
5. There Shall be No Knot Holes within 6" of Bolts.
6. Splice Pl's & Top Chord Shall be 1900f (Select Structural)

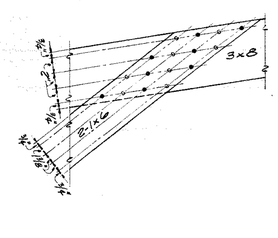


4-1x6 Diag's to 3x8 Chord



4-1x6 Diag's to 2x6 Chord

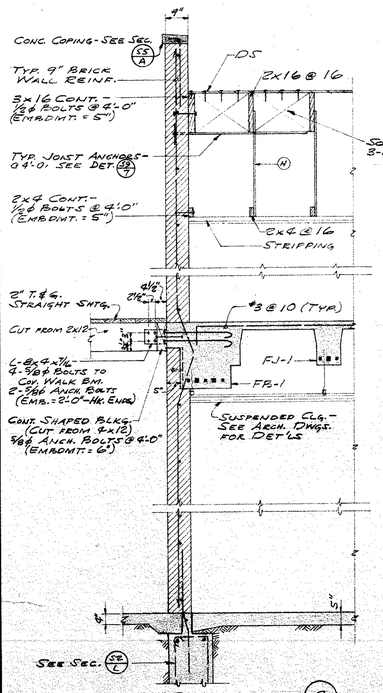
1x6 Diag's to 2x6 Chord



1x6 Diag's to 3x8 Chord

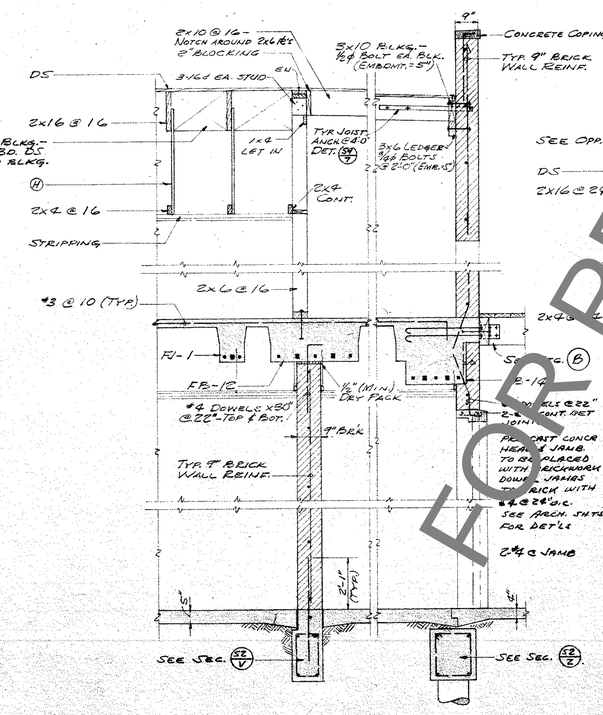
TYPICAL TRUSSED RAFTER CONNECTIONS

1 1/2" = 1'-0"



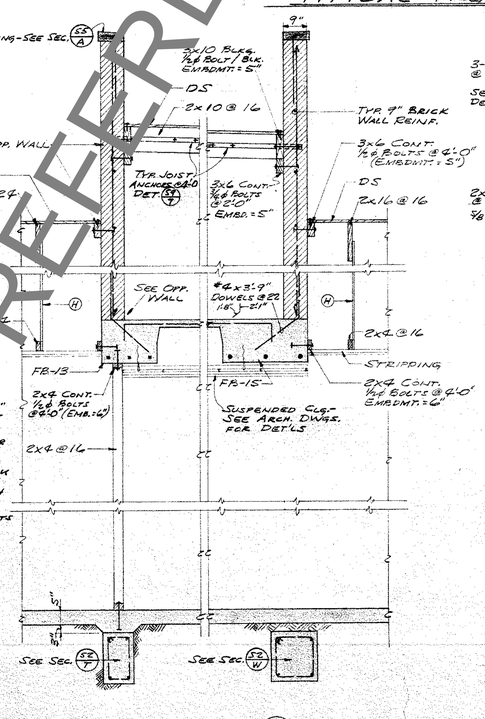
SECTION (B)

1/2" = 1'-0"



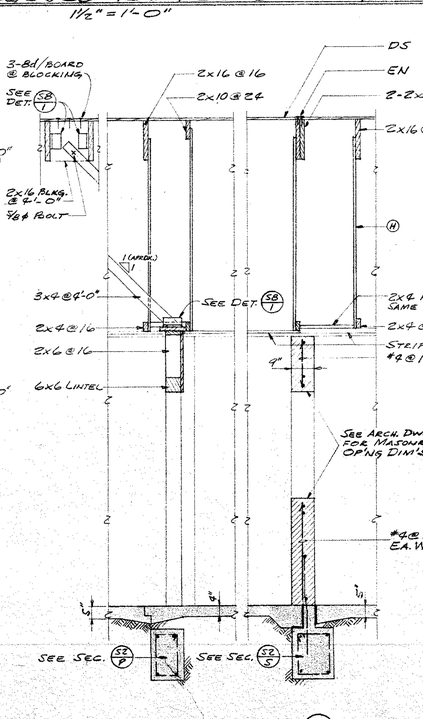
SECTION (C)

1/2" = 1'-0"



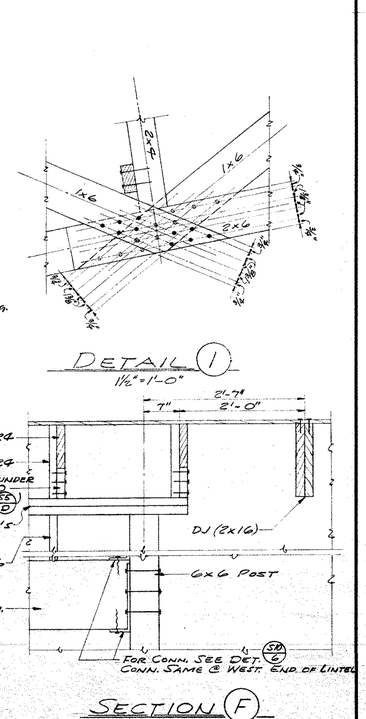
SECTION (D)

1/2" = 1'-0"



SECTION (E)

1/2" = 1'-0"



DETAIL (1)

1 1/2" = 1'-0"

SECTION (F)

1" = 1'-0"

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
9728 APPROVED 1952
By: Harry W. Cobb

Remarks | Revisions | Engineers: Ernest H. Lee, Structural Engineer, Licensing No. 5183, Ernest H. Lee | Approvals: Drawn, Checked, Austin, Field & Fry, Architect — License #

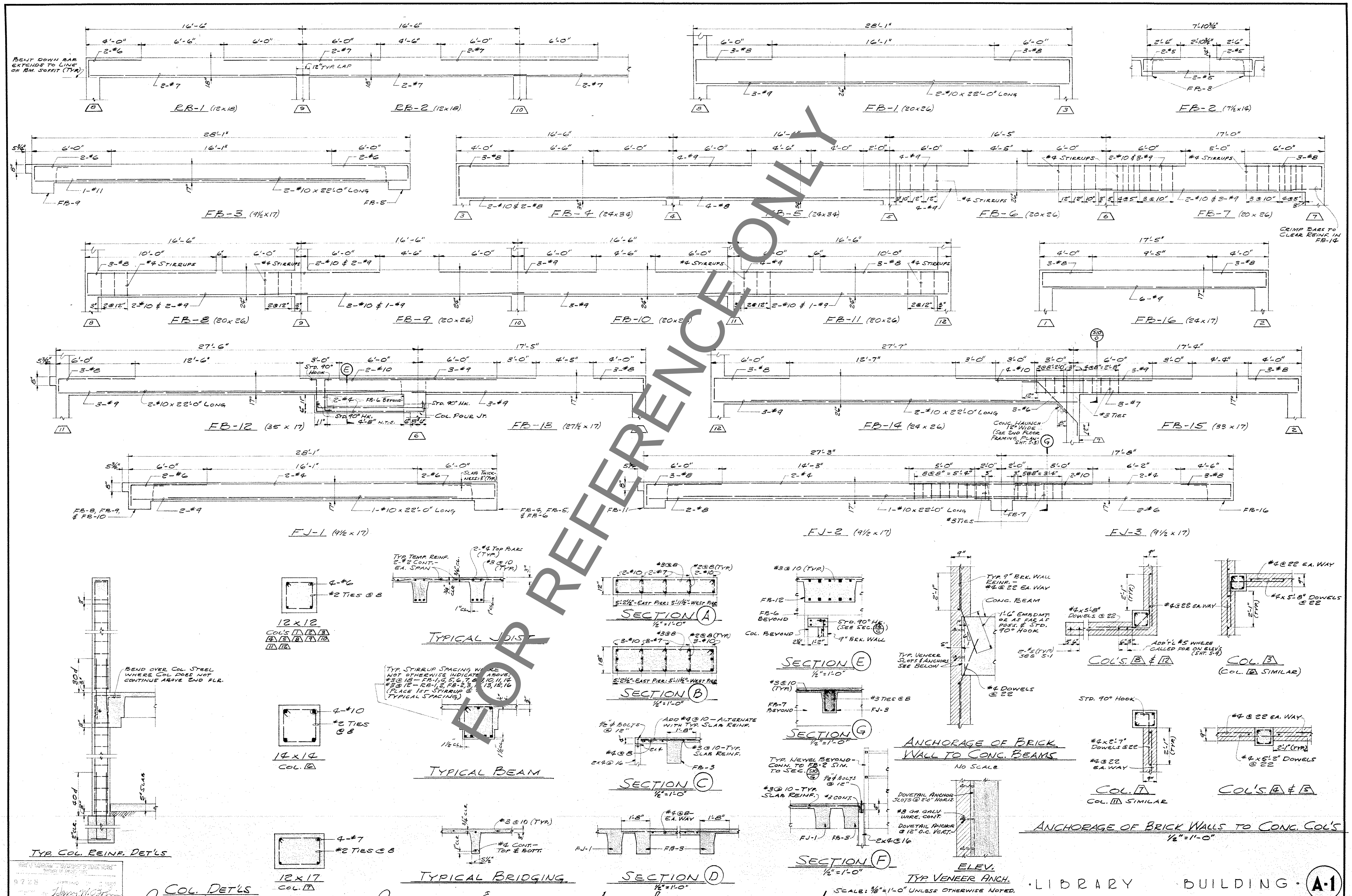
AUSTIN, FIELD & FRY Architects A.I.A.
2311 West Third Street · Los Angeles 5, California · Dunkirk 8-1326

· Sections ·
· Compton Junior College ·
· Artesia Street and Santa Fe Avenue ·
· Compton · California ·

· Library Building ·

Date 9-25-52
Comm. 1091
Sheet Number S-6

A-1


RB-1 (12x18)
RB-2 (12x18)
FB-1 (20x26)
FB-2 (7½x14)
FB-3 (9½x17)
FB-4 (24x34)
FB-5 (24x34)
FB-6 (20x26)
FB-7 (20x26)
FB-8 (20x26)
FB-9 (20x26)
FB-10
FB-11 (20x26)
FB-16 (24x17)
FB-12 (35x17)
FB-13 (27½x17)
FB-14 (24x26)
FB-15 (33x17)
FJ-1 (9½x17)
FJ-2 (9½x17)
FJ-3 (9½x17)
TYP. COL. REINF. DET'LS
12x12
14x14
12x17
TYPICAL JOIST
TYPICAL BEAM
TYPICAL BRIDGING
SECTION A
SECTION B
SECTION C
SECTION D
SECTION E
SECTION F
SECTION G
ANCHORAGE OF BRICK WALL TO CONC. BEAMS
NO SCALE
ELEV. TYP. VENEER ANCH.
COL'S. 8 & 12
COL. 3
COL. 7
COL'S. 4 & 5
ANCHORAGE OF BRICK WALLS TO CONC. COL'S
½"=1'-0"
FOR REFERENCE ONLY

COL. DET'LS
NO SCALE

SCALE: ⅜"=1'-0" UNLESS OTHERWISE NOTED.

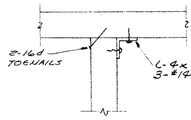
·LIBRARY BUILDING· A-1

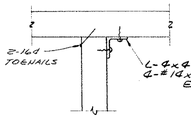
Remarks	Revisions	Engineers	Approvals
		ERNEST H. LEE, STRUCTURAL ENGINEER	DRAWN / CHECK'D / ARCHITECT — LICENSE #

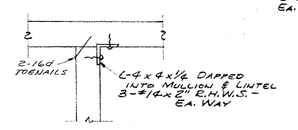
AUSTIN, FIELD & FRY
Architects A.I.A.
2311 WEST THIRD STREET · LOS ANGELES 5, CALIFORNIA · DUNKIRK 8-1326

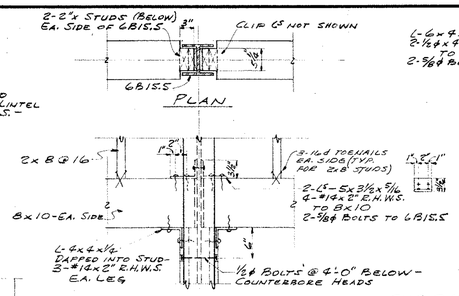
·CONCRETE BEAM & JOIST REINFORCING DET'LS·
·COMPTON JUNIOR COLLEGE·
·COMPTON· ·ARTESIA STREET AND SANTA FE AVENUE· ·CALIFORNIA·

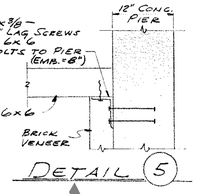
COMM. 1091
SHEET NUMBER S-7

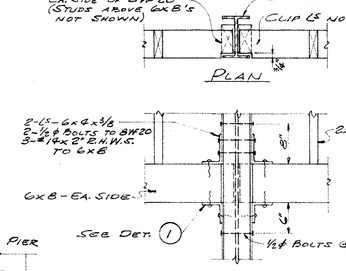


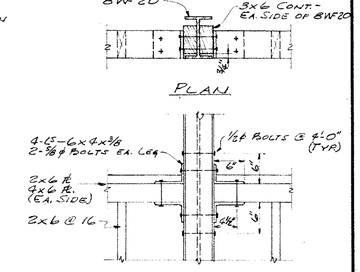


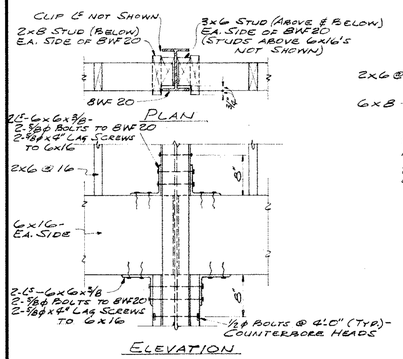


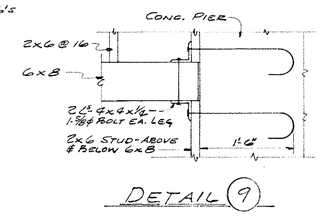


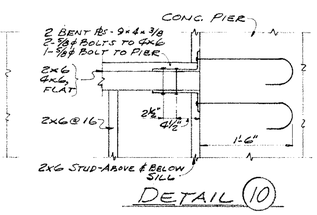


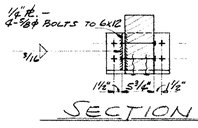


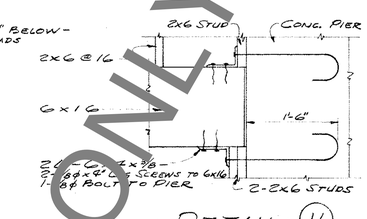


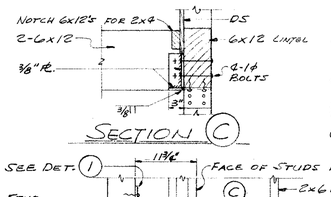


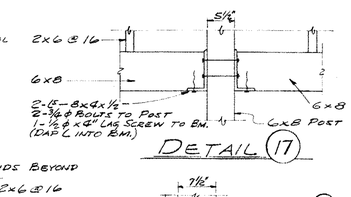


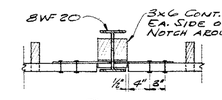


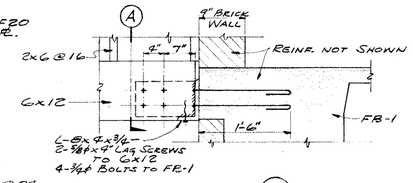


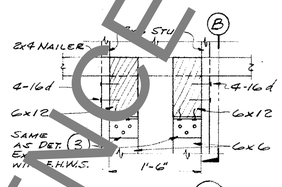


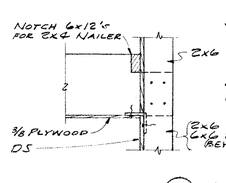


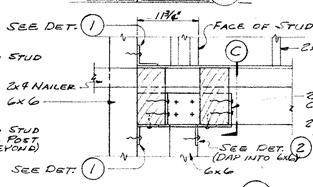


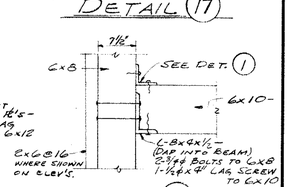


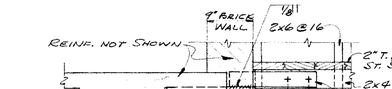


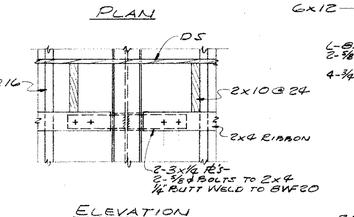


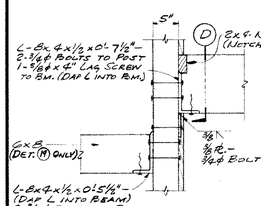


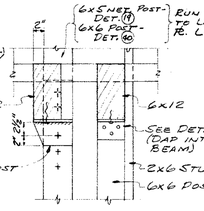


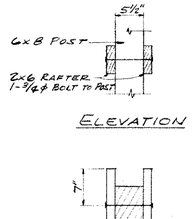


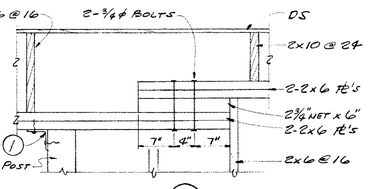


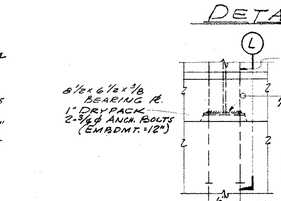


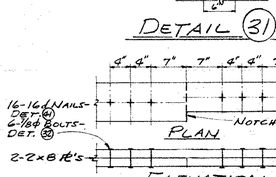


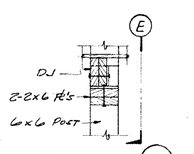


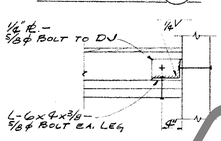


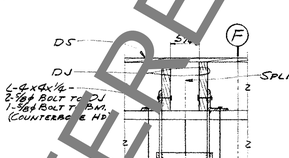


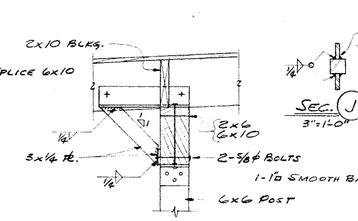


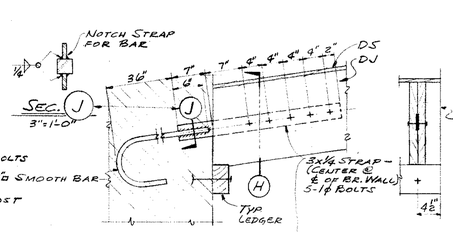


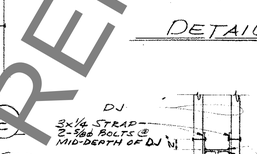


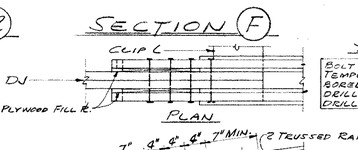


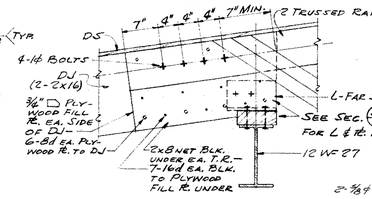


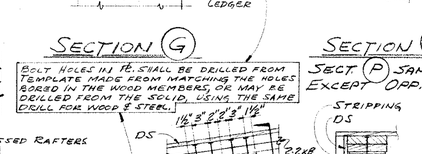












NOTES
1) SCALE OF ALL DET'S & SEC'S ON THIS SHT: 1"=1'-0" UNLESS OTHERWISE NOTED.

· LIBRARY BUILDING ·

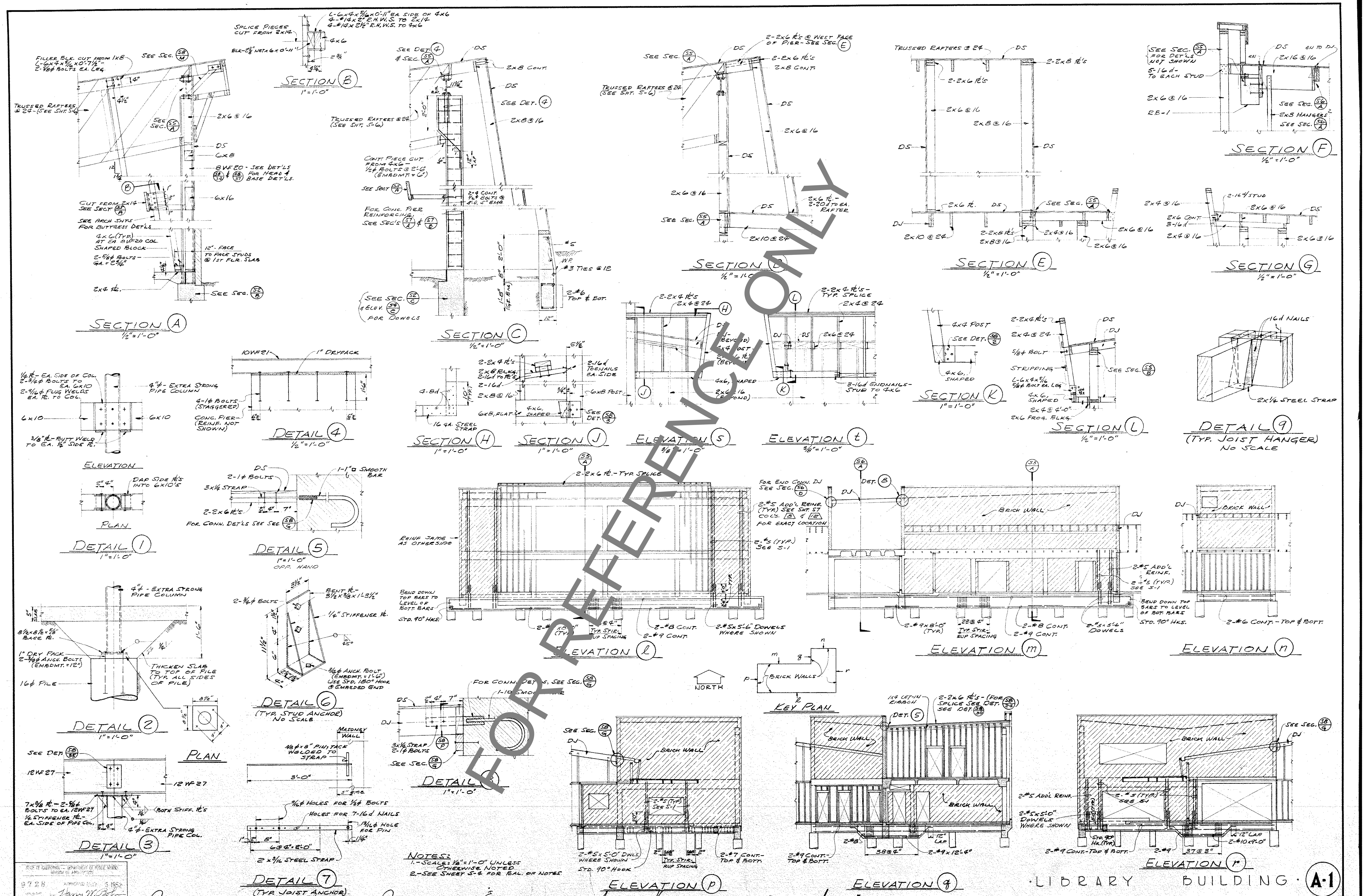
A-1

Remarks	Revisions	Engineers	Approvals
		ERNEST H. LEE STRUCTURAL ENGINEER Ernest H. Lee	DRAWN CHECK'D ARCHITECT — LICENSE #

AUSTIN, FIELD & FRY
Architects A.I.A.
2311 WEST THIRD STREET · LOS ANGELES 5, CALIFORNIA · DUNKIRK 8-1326

· DETAILS ·
· COMPTON JUNIOR COLLEGE ·
· ARTESIA STREET AND SANTA FE AVENUE ·
· COMPTON · · CALIFORNIA ·

DATE 2-26-52
COMM. 1091
SHEET NUMBER
S-8



· LIBRARY BUILDING · A-1

Remarks | Revisions | Engineers | Approvals

ERNEST H. LEE
STRUCTURAL ENGINEER

AUSTIN, FIELD & FRY
Architects A.I.A.
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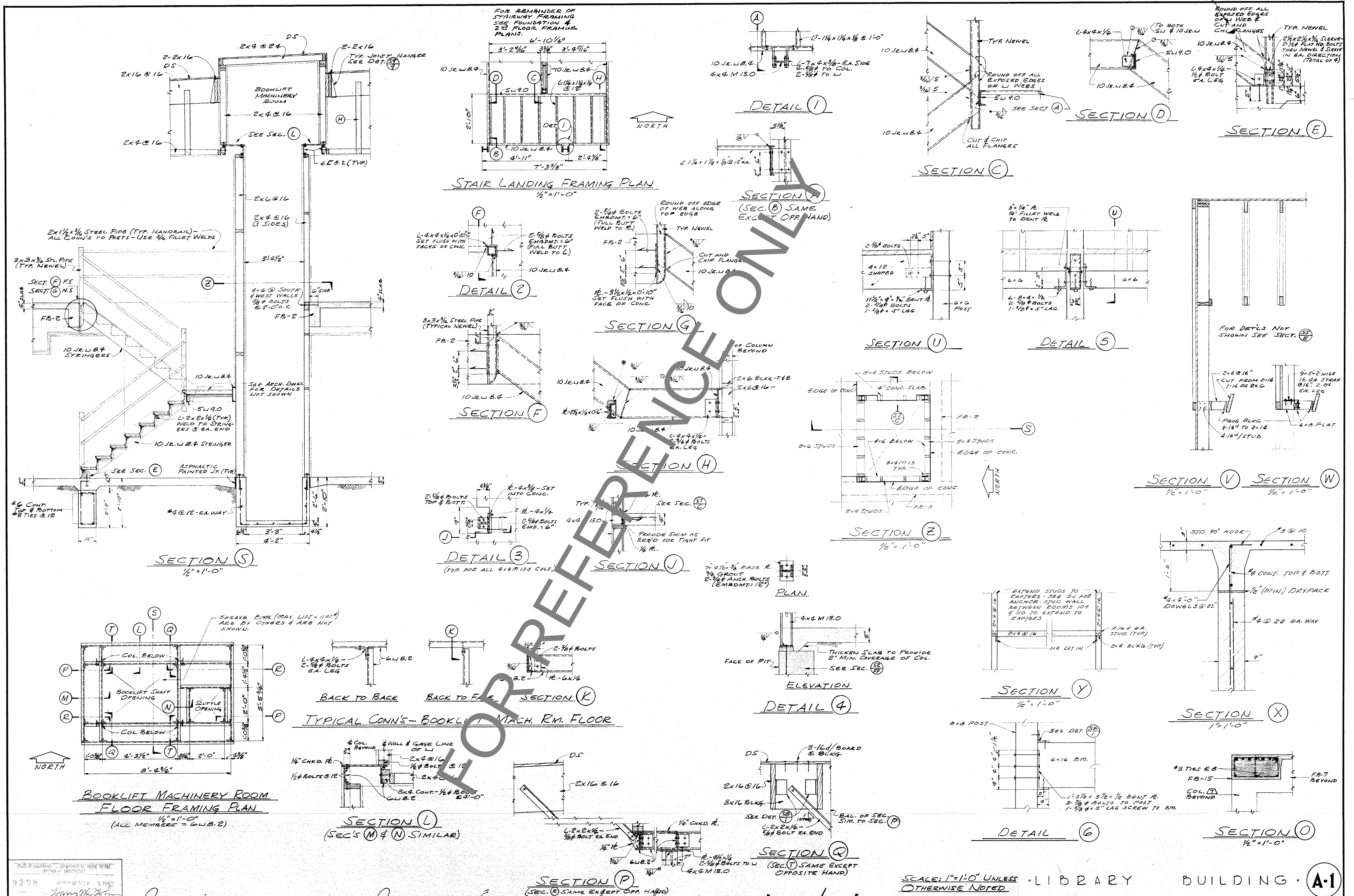
· SECTIONS, DETAILS AND ELEVATIONS ·
· COMPTON JUNIOR COLLEGE ·
· ARTESIA STREET AND SANTA FE AVENUE ·
· COMPTON · CALIFORNIA ·

DATE 3-25-52
COMM. 1091
SHEET NUMBER S-9



SECTION S
1/2" = 1'-0"
STAIR LANDING FRAMING PLAN
1/2" = 1'-0"
DETAIL 1
SECTION A
(SEC. B SAME EXCEPT OPP. HAND)
SECTION C
SECTION D
SECTION E
DETAIL 2
SECTION G
SECTION F
SECTION H
DETAIL 3
(TYP. FOR ALL 4x4 M 13.0 COLS.)
SECTION J
SECTION U
DETAIL 5
SECTION Z
1/2" = 1'-0"
SECTION V
1/2" = 1'-0"
SECTION W
1/2" = 1'-0"
BOOKLIFT MACHINERY ROOM
FLOOR FRAMING PLAN
1/2" = 1'-0"
(ALL MEMBERS = 6 W 8.2)
BACK TO BACK
BACK TO FACE
SECTION K
TYPICAL CONN'S - BOOKLIFT MACH. RM. FLOOR
PLAN
ELEVATION
DETAIL 4
SECTION Y
1/2" = 1'-0"
SECTION X
1 1/2" = 1'-0"
SECTION L
(SEC'S M & N SIMILAR)
SECTION P
(SEC. R SAME EXCEPT OPP. HAND)
SECTION Q
(SEC. T SAME EXCEPT OPPOSITE HAND)
DETAIL 6
SECTION O
1/2" = 1'-0"
NORTH

SCALE: 1" = 1'-0" UNLESS OTHERWISE NOTED

· LIBRARY BUILDING · A-1

Remarks	Revisions	Engineers	Approvals
		ERNEST H. LEE, STRUCTURAL ENGINEER, Ernest H. Lee	

DRAWN: BARKER · CHECK'D: LOWE

AUSTIN FIELD & FRY Architects A.I.A.
2311 WEST THIRD STREET · LOS ANGELES 5, CALIFORNIA · DUNKIRK 8-1326

· STAIRWAY AND BOOKLIFT DETAILS ·
· COMPTON JUNIOR COLLEGE ·
· ARTESIA STREET AND SANTA FE AVENUE ·
· COMPTON · · CALIFORNIA ·

DATE 3-26-52
COMM. 1091
SHEET NUMBER S-10