

1660 Lincoln St, Ste. 100
Denver, Colorado 80264

1411 S Potomac

1411 S Potomac
Aurora, CO 80012

Suite 430



Speculative Suite 430

Project Start Date: 7 Jun 202

| Issued On | Issued For |
|-------------|--|
| 12 Aug 2024 | Tenant Review & Approval; and Construction |

| | | | | |
|-----------|-------------|-------------|------------|------------|
| Sheet | Egress Plan | | | |
| Contents | | | | |
| Project # | Proj Mgr | Designed by | Drafted by | Checked by |
| 426020 | CBS | IC | IC | CBS |

A0.1

RSN: 1834888
Permit#: 24-2467084-LT



Scale: $3/32" = 1'-0"$



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: **jlocke**
Date: **SEP 03, 2024**
2021 INTERNATIONAL CODES & 2023 NEC

NOTE: ALL EXPOSED HOT AND COLD WATER PIPES AS WELL AS DRAIN PIPES SHALL BE INSULATED WITH PRODUCT HAVING BEEN SPECIFICALLY MANUF.

Diagram illustrating the required clearances and dimensions for a lavatory accessible to a person in a wheelchair. The diagram shows a person in a wheelchair approaching a lavatory fixture. Key dimensions and clearances are indicated:

- MAX OPERATOR HEIGHT FOR FORWARD AND SIDE REACH OVER NO OBSTRUCTION:** Indicated by a vertical dimension line on the left.
- 17" MIN:** Minimum clearance above the lavatory fixture.
- 25" MAX:** Maximum depth of the lavatory fixture.
- WALL MIRROR:** Indicated by a line pointing to the mirror above the fixture.
- 48":** Total depth of the approach area.
- 34" MAX:** Maximum depth of the lavatory fixture.
- 25" MIN:** Minimum depth of the approach area.
- 27" MIN:** Minimum depth of the approach area.
- 9" MIN:** Minimum depth of the approach area.
- 6" MAX:** Maximum depth of the approach area.
- FRONT APPROACH LAVATORY:** Label for the lavatory fixture.
- 8" MIN:** Minimum clearance under the lavatory fixture.
- 19" MAX:** Maximum depth of the approach area.
- 48":** Total depth of the approach area.

Diagram illustrating a large paper towel/waste receptacle. The unit is shown with a vertical dimension of 48" AFF (Above Finished Floor) for the operable controls. The controls are labeled "OPERABLE CONTROLS @ 48" AFF". The unit is also labeled "LARGE PAPER TOWEL/WASTE RECEPTACLE" and "SANITARY NA".

NOTE: THE TOP OF EQUIPMENT TO COMPLY WITH ADA / NCAC-ANSI 2009 REQUIREMENTS. FIXTURES ARE TO BE MOUNTED AS NOTED.

Diagram illustrating the vertical dimensions for three elements:

- PIN**: 48"
- COAT HOOK**: 48"
- WASTE RECEPTACLE**: 48"

Diagram of a Drinking Fountain showing dimensions and clearances:

- Overall width: 36" MAX
- Overall height: 38" - 43"
- Clearance from wall to spout: 15" MIN. CLR.
- Clearance from wall to spout: 15" MIN. CLR.
- Clearance from wall to spout: 27" CLEAR
- Label: DRINKING FOUNTAIN
- Label: TO SPOUT, TYPE

40" MAX.

MIRROR

VERTICAL GRAB BAR —
FRONT OF TOILET TO —
CENTER OF TOILET
PAPER

GRAB BAR
HEIGHT 1 1/2"

TOILET
PAPER

33" - 36"

10"

FLUSH CONTROL SHALL
BE LOCATED ON OPEN
SIDE OF WATER CLOSET

[illegible]

Technical diagram of an accessible toilet showing required clearances and dimensions:

- Clearance from side wall:** 15" MIN. CL (centerline)
- Clearance from front wall:** 34" MAX
- Clearance from side wall (toilet fixture):** 36" MIN.
- Clearance from front wall (toilet fixture):** 24" MIN. (to centerline), 12" MIN. (to side wall)
- Clearance from side wall (toilet fixture):** 33"-36"
- Clearance from front wall (toilet fixture):** 17"-19"
- Label:** ACCESSIBLE TOILET

CL
18" MIN.
CL.R.
17"
TO FLUSH VALVE 44" MAX.
ACCESSIBLE URINAL

Fig. 604.3
Size of Clearance for Water Closet

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fax (303) 861-1621
www.TPS.design

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Suite 430



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Dates of Record

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| Sheet Contents | | Demolition Plan | |
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| Project # | Proj Mgr | Designed by | Checked by |
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Sheet Keyed Notes

- 1

DEMOLITION CONTRACTOR shall remove and dispose of all existing floorcoverings and scrape floors smooth from old adhesives and floor patch.
- 2

RECYCLE all demolished/removed finishes and construction debris.
- 3

REMOVE PLUMBING AT THIS LOCATION. Remove all associated plumbing back to source.
- 4

NEW/RELOCATED INTERIOR DOOR. Provide new, or install relocated, Building Standard door assembly.
- 5

EXISTING RESTROOM to remain. Clean and/or repair fixtures/ accessories as necessary. Field verify existing conditions for extent of work.
- 6

EXISTING MILLWORK & PLUMBING fixtures to remain. Clean and/or repair to "like new" conditions as possible. The General Contractor shall field verify all existing plumbing fixtures (sink, water heater, etc.) and ensure proper working condition. Provide new fixture(s) only as necessary.
- 7

RELOCATE MILLWORK & FIXTURES. Remove existing millwork and plumbing fixtures at "Old Location" as shown. Match original construction method and materials. Replace any components which cannot be salvaged. Field verify existing conditions for extent of work.
- 8

REPAIR/REPLACE WINDOW SILLS throughout. Clean and/or repair to "like new" conditions as possible. Match existing construction methods and finishes. Contractor to survey for scope of work.
- 9

EXISTING FLOORING to remain. Clean and repair to "like new" conditions as possible.
- 10

EXISTING WINDOW TREATMENTS to remain. Contractor to protect during construction. Clean, modify, repair, and/or replace as necessary.
- 11

EXISTING LED LIGHTING fixtures to remain throughout Limit of Construction (UNO).
- 12

EXISTING CEILING to remain. The suspended grid and acoustical ceiling tile system shall remain throughout (UNO). Restore existing ceiling grid to the new conditions as possible. Repair, replace and/or provide new grid and/or tiles as necessary. Match existing specifications.

Demolition Legend

- DEMO EXISTING.** Partitions, door assemblies, electrical devices and/or millwork to be demolished/ removed (typ.). Verify with Building Management if fixtures and/or door assemblies shall be return to building's attic stock. Patch partitions and prepare to receive the scheduled finish treatments.
- NOTE:** At exterior curtain wall sill partitions (only), where power/ phone/ data devices are designated to be removed/ demolished, all conduit and J-boxes shall remain. Provide building standard blank face plates. All demolition of power/ phone/ data devices at interior partitions shall include removal of all associated conduit and J-boxes and patching/ painting of partitions.
- EXISTING PARTITION TO REMAIN.**

Wall Mounted Fixtures/ Devices

-
- Duplex electrical receptacle & face plate
-
- Quadplex electrical receptacle & face plate
-
- Combination telephony/ data outlet rough-in (3/4"Ø conduit) w/ double gang J-box and single gang plaster ring with pull string to above finished ceiling.
-
- Existing J-box. Provide blank face plate

Ceiling Mounted Fixtures/ Devices

-
- Building Standard 2x4 LED light fixture
-
- Building Standard 2x2 LED light fixture
-
- Recessed LED downlight fixture

NOTE: all fixtures shown half shaded shall have night light egress function.

Building Standard Exit Sign. Green letters on white face. Battery backup. Shade indicates face(s) and arrows (if any) indicate direction.

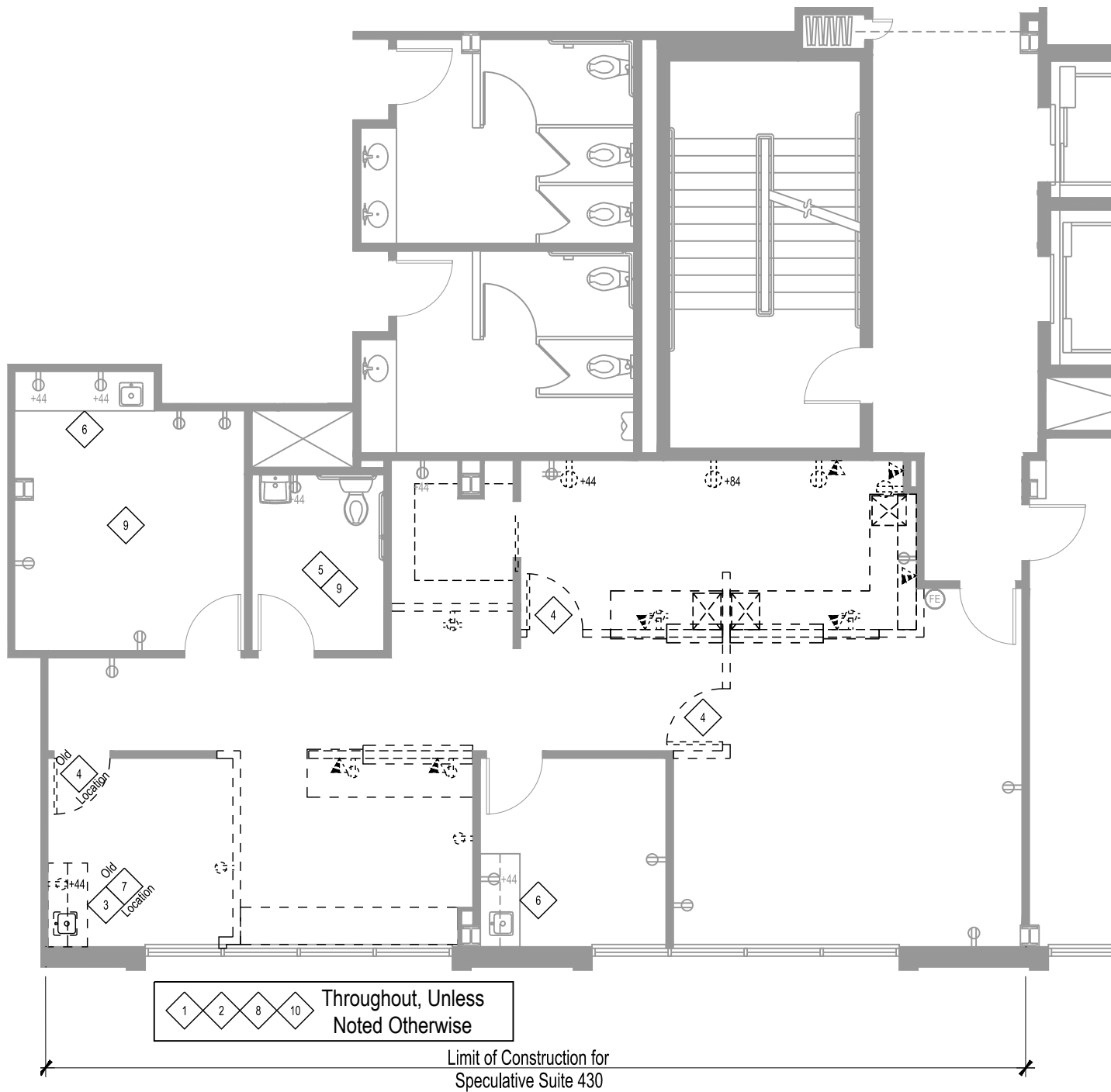
Wall Mounted Fixtures/ Devices

-
- Building Standard single pole switch
- Special function switches:
"D" = dimable switch and ballast
"3" = Three-way operation
[lower case letters] indicate circuiting when necessary for clarification

Refer to Engineering Drawings for complete specifications

Demolition Plan Notes

1. Refer to General Notes for additional requirements.
2. **GENERAL DEMOLITION:** Demolish and remove all partitions, materials, and debris as shown on the drawings or specified otherwise herein. Removal as described shall be accomplished without storing excessive quantities of any material, rubbish, dirt, debris or waste of any kind within this demised area of construction or adjacent areas.
3. **FINISH TREATMENTS** scheduled to be removed are as follows: carpet, resilient flooring, base trim, wall treatments. UNO
4. **DISPOSAL:** All existing equipment, materials and fixtures not scheduled for re-use shall remain the property of the Owner. Coordinate with the Building Representative and comply with all regulations and/or requirements pertaining to removal, salvage and storage of materials demolished as scheduled.
5. **RE-USE:** Investigate condition of all materials scheduled for demolition and not re-used on this project. Document characteristics of each material or component and submit inventory statement to Building Representative. Include characteristics such as type, color, size, quantity, physical condition and make/model number, if possible.
6. **CLEAN AND REPAIR:** Verify condition of all materials scheduled for demolition and re-use where possible. Clean and/or repair materials as needed.
7. **PREPARATION:** Unless otherwise specified, remove all existing wall coverings, floor coverings and baseboard throughout and prepare existing surfaces for new finish treatments as scheduled. The Demolition Contractor shall scrape existing adhesives to a smooth condition. Refer to finish plans and/or schedules.
8. **PATCHING:** Remove all unused sleeves through the floor slab and fill/patch all penetrations.
9. **ELECTRICAL DEMOLITION:** Existing electrical and communications/ data wiring within partitions, raceways or above the ceiling and not scheduled for re-use shall be removed entirely, including hangers, supports, terminals, conduit and junctions from source to point of termination. Maintain circuit and/or transmission continuity to remaining devices, where necessary.
10. **PIPES AND CONDUITS:** All pipes and conduit in partitions scheduled for demolition shall be removed entirely when not scheduled for re-use.
11. **ABANDONED APPARATUS:** Abandoned electrical circuits, fixtures and devices discovered by the contractor and not scheduled for re-use shall be reported to the Building Representative for further direction.
12. **TELEPHONE/DATA REMOVAL:** Unless otherwise indicated on the drawings, remove all existing telephone equipment and/or components not currently in use.



1

Demolition Plan

Suite 430

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

North



2

Demolition Ceiling Plan

Suite 430

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

North



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jocke
Date: Sep 03, 2024
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SEE PLAN

ALIGN WALL WITH WINDOW SILL


WINDOW SILL

PREFINISHED ALUMINUM END CAP

MULLION CASING - SOUND ATTENUATE WITH BLACK F. TAPE AND BUTT FIRMLY AGAINST MULLION. DO NOT MECHANICALLY ATTACH TO MULLION.

WINDOW MULLION AND EXTERIOR GLAZING.

Scale: 3" = 1'-0"

1 Construction Plan Suite 430 Scale: 1/8" = 1'-0"  North

1-LAYER $\frac{5}{8}$ " GYP. BOARD EACH SIDE.
 FASTEN @ 8" O.C. AT THE SEAMS AND
 TRACKS AND 12" O.C. AT THE FIELD
 (USE MOISTURE RESISTANCE GYP.
 BOARD AT WET LOCATIONS)
 3 $\frac{1}{2}$ " FIBERGLASS SOUND INSULATION
 3 5/8" METAL STUDS PER WALL LEGEND
 @ 2'-0" O.C.
 3 $\frac{1}{2}$ " RUNNER FASTENED WITH POWDER
 ACTUATED FASTENERS @ 24" O.C. AS
 REQUIRED. EMBD RUNNERS ON TWO
 CONTINUOUS BEADS OF ACOUSTICAL
 SEALANT.
 FINISHED FLOOR
 CEILING FINISH AS SCHEDULED (SEE
 REFLECTED CEILING PLAN FOR SPECS)
 CEILING HEIGHT
 AS SCHEDULED
 BRACE PARTITION @ 4'-0" O.C. SECURE
 TO DECK ABOVE AS REQUIRED
 UNDERSIDE OF STRUCTURE ABOVE

The image contains two technical drawings of partition wall details. The left drawing, labeled 'W1 Partition: Interior', shows a cross-section of an interior wall. It features a ceiling with a hatched area representing the underside of the structure above. The wall is composed of a 1-layer 5/8" gypsum board on each side, fastened at 8" O.C. at the seams and 12" O.C. in the field. The wall is supported by 3 5/8" metal studs per wall legend at 24" O.C. The wall is finished with a 3 5/8" runner fastened with powder actuated fasteners at 24" O.C. as required. The wall is shown on a finished floor. The right drawing, labeled 'W2 Partition: Exterior', shows a cross-section of an exterior wall. It features a ceiling with a hatched area representing the underside of the structure above. The wall is composed of a 1-layer 5/8" gypsum board on each side, fastened at 8" O.C. at the seams and 12" O.C. in the field. The wall is supported by 3 5/8" metal studs per wall legend at 24" O.C. The wall is finished with a 3 5/8" runner fastened with powder actuated fasteners at 24" O.C. as required. The wall is shown on a finished floor.

W1 Partition: Interior

Labels for W1:

- UNDERSIDE OF STRUCTURE ABOVE
- CEILING HEIGHT AS SCHEDULED
- CEILING FINISH AS SCHEDULED (SEE REFLECTED CEILING PLAN FOR SPECS)
- L-SHAPE TAPE-ON TRIM
- 3 5/8" CONTINUOUS RUNNER
- 1-LAYER 5/8" GYP. BOARD EACH SIDE. FASTEN @ 8" O.C. AT THE SEAMS AND TRACKS AND 12" O.C. AT THE FIELD (USE MOISTURE RESISTANCE GYP. BOARD AT WET LOCATIONS)
- 3 5/8" METAL STUDS PER WALL LEGEND @ 24" O.C.
- 3 5/8" RUNNER FASTENED WITH POWDER ACTUATED FASTENERS @ 24" O.C. AS REQUIRED
- FINISHED FLOOR

W2 Partition: Exterior

Labels for W2:

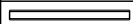
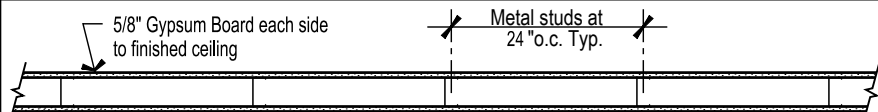
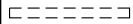
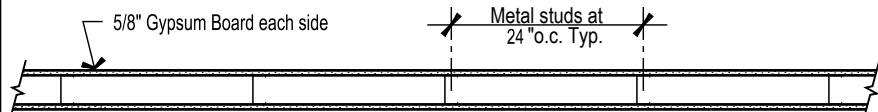
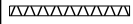
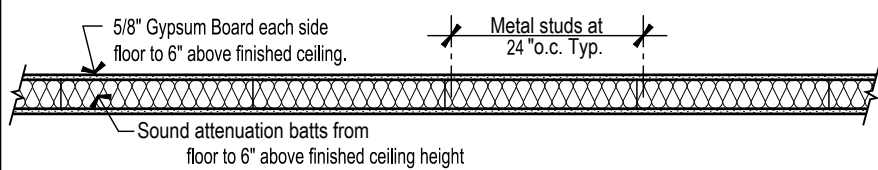
- UNDERSIDE OF STRUCTURE ABOVE
- CEILING HEIGHT AS SCHEDULED
- CEILING FINISH AS SCHEDULED (SEE REFLECTED CEILING PLAN FOR SPECS)
- L-SHAPE TAPE-ON TRIM
- 3 5/8" CONTINUOUS RUNNER
- 1-LAYER 5/8" GYP. BOARD EACH SIDE. FASTEN @ 8" O.C. AT THE SEAMS AND TRACKS AND 12" O.C. AT THE FIELD (USE MOISTURE RESISTANCE GYP. BOARD AT WET LOCATIONS)
- 3 5/8" METAL STUDS PER WALL LEGEND @ 24" O.C.
- 3 5/8" RUNNER FASTENED WITH POWDER ACTUATED FASTENERS @ 24" O.C. AS REQUIRED
- FINISHED FLOOR

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

Construction Plan Notes

- 1. Refer to General Notes** for additional requirements.
- 2. DOOR ASSEMBLIES:**
 1. All assemblies shown on the drawings and not referenced to the Door Schedule are intended to remain (unless noted otherwise).
 2. Inspect, make repairs to, and clean ALL existing assemblies and components to like new conditions. Re-use existing door assemblies and/or components where possible.
 3. Provide new door assemblies and/or components as specified on the drawings. Door frames shall be securely fastened in place and the entire assembly shall be installed plumb and square with maximum diagonal distortion of 1/8". Undercut doors as needed for specified floor coverings.
- 3. INSULATION AND ATTENUATION:** Provide insulation or sound attenuation in walls and above suspended ceiling if indicated on the drawings. Specifications shall conform to the following:
 1. Sound attenuation in walls shall be unfaced fiberglass, 16" to 24" wide to correspond with stud width.
 2. Thermal insulation in walls shall be Kraft faced fiberglass, 16" to 24" wide, with R-13 thermal value.
 3. Sound attenuation in ceilings shall be foil faced fiberglass, 24" wide, acceptable for use in return air plenums.
- 4. BACKING/LOCKING:** Provide solid wood blocking in partitions for plumbing fixtures, door stops, wall mounted equipment (including televisions), milkwalk, etc., and as indicated on the drawings. Plywood backing may be used for shelving. Framing material for blocking, nailers, etc. shall be Western Douglas Fir or Hemlock.
- 5. PARTITIONS:** Conform to the following:
 1. Partitions shall be erected plumb and true.
 2. Drywall partitions and joints shall be taped and finished smooth and prepared for specified finish treatment. Coat vertical joints from floor to ceiling for additional substrate to the base trim.
 3. Skim coat existing partitions as needed.
 4. All exposed corners shall be filled with metal corner bead and top of walls at underside of suspended ceilings shall be straight and true.
 5. Provide "kickers" or metal stud support from the top of the partition to the underside of structure above for long runs and at all jambs of openings for door assemblies and at any glazed opening within 36" of the strike side of swinging doors.
- 6. EXISTING LIFE SAFETY SYSTEMS:** Modify (fire alarm/smoke detection) on a **DESIGN-BUILD** basis. Conform to these drawings and documents and as required for obtaining a building permit. Refer to General Notes.

Wall Legend

| EXISTING PARTITION | |
|---|--|
|  | NEW STANDARD INTERIOR PARTITION Non-rated assembly. 25 gauge 3-5/8" metal studs at 24" o.c. with 5/8" gypsum board each side floor to finished ceiling. |
| Re: W1 |  |
|  | NEW PARTIAL HEIGHT PARTITION (Shown underneath a milkwalk surface). 5/8" gypsum board each side, 20 Ga. 3/8" metal studs at 24" o.c. Refer to Milkwalk Section Detail. |
| Re: W2 |  |
|  | NEW SOUND ATTENUATED PARTITION Non-rated assembly. 25 gauge, 3-5/8" metal studs at 24" o.c. with 5/8" gypsum board each side to 6" above finished ceiling and 3-5/8" fiberglass sound attenuation batts floor to 6" above ceiling. Match Building Standard. |
| Re: W3 |  |

Match existing construction. Field verify existing construction for extent of work and verify match to these partition types.

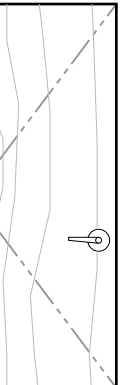
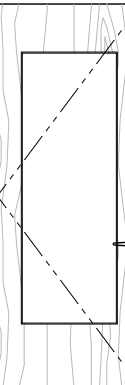
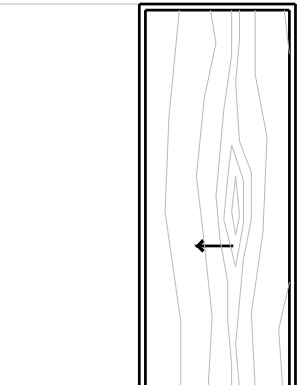
| Door Schedule¹ | | | | | | | | | | | | | | Mark |
|----------------|--------|------|------------------------|--------------|---------|------|----------|-------------|------|-------------|-----------------------|---------|-----|------|
| Mark | State² | DOOR | | | | | FRAME | | | HARDWARE | | Remarks | | |
| | | Type | Leaf Size | Material | Finish | FRR³ | Material | Finish | FRR³ | Latch Func. | Additional Components | | | |
| 001 | E | FI | 3'-0" x 7'-0" x 1 3/4" | Glass Insert | Stained | None | H.M. | Painted | None | 2 | CI | ETR | 001 | |
| 002 | N | FI | 3'-0" x 6'-8" x 1 3/4" | S.C.Wood | Stained | None | Aluminum | Prefinished | None | 1 | CI | -- | 002 | |
| 003 | E | FI | 3'-0" x 6'-8" x 1 3/4" | S.C.Wood | Stained | None | Aluminum | Prefinished | None | 1 | -- | ETR | 003 | |
| 004 | R | FI | 3'-0" x 6'-8" x 1 3/4" | S.C.Wood | Stained | None | Aluminum | Prefinished | None | 1 | -- | -- | 004 | |
| 005 | R | FI | 3'-0" x 6'-8" x 1 3/4" | S.C.Wood | Stained | None | Aluminum | Prefinished | None | 1 | -- | -- | 005 | |
| 006 | E | FI | 3'-0" x 6'-8" x 1 3/4" | S.C.Wood | Stained | None | Aluminum | Prefinished | None | 1 | -- | ETR | 006 | |
| 007 | E | FI | 3'-0" x 6'-8" x 1 3/4" | S.C.Wood | Stained | None | Aluminum | Prefinished | None | 3 | -- | ETR | 007 | |
| 008 | N | FI | 3'-0" x 7'-0" x 1 3/4" | S.C.Wood | Stained | None | Aluminum | Prefinished | None | 1 | Pocket | -- | 008 | |
| 009 | R | FI | 3'-0" x 6'-8" x 1 3/4" | S.C.Wood | Stained | None | Aluminum | Prefinished | None | 1 | -- | -- | 009 | |
| 010 | N | FI | 3'-0" x 6'-8" x 1 3/4" | S.C.Wood | Stained | None | Aluminum | Prefinished | None | 1 | -- | -- | 010 | |

The General Contractor shall field verify that all door and hardware specifications match Building Standards (unless noted otherwise) and coordinate ANY AND ALL discrepancies directly with the TPS representative (as indicated on the cover sheet Project Team list) prior to proceeding. This includes, but is not limited to, species, stain, finish, style, function, part/ product numbers, and design specifications as well as extent of inclusions / exclusions to component lists and the like.

² State:
E = Existing to remain. Assure proper working condition.
N = Provide New Door, Frame or Hardware in its entirety.
N/R = Provide New OR Relocate salvaged Door, Frame or Hardware if available. Determine available components in field.

⁴ Code:
Force: Opening force for all doors shall comply with IBC.
Threshold: Maximum heights for thresholds shall comply with IBC.
Clearance: If height, strength, and additional parts shall comply with ANGL 404.2.0 and IBC.

| | | |
|---------|--|--|
| Remarks | <p>Glass: All full height glass doors and glass inserts shall comply with ANSI 404.2.9 and IBC.</p> <p>1. Provide sign posted on the egress side on or adjacent to the door stating: THIS DOOR MUST REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. The sign shall be in letters 1" (25 mm) high on a contrasting background</p> | |
|---------|--|--|

| Door, Frame, and Hardware Specifications | | Latch Function Legend | Additional Hardware Components Legend | |
|---|--|---|---|--|
| Wood Doors: Wood veneer interior doors shall be 1 1/2" thick, 5-ply particle board core complying with CS 230, Type I, Density C, Class 1, and with AWI standard PC-5 construction, N1WDDA I.S. 1.6 Type II adhesive, solid core, flush slab style. (The General Contractor shall confirm the Building Standard specifications and match accordingly.) | | 1 Passage 2 Keyed Lockset 3 Privacy | Cl Closer, Automatic Door (1 per leaf) Pocket Hager - 9600 Commercial Series Pocket Door Frame Kit with Soft Close mechanism M1-269-8651. Provide ADA pull- Mfr: Trimco, 1069 Series, Finish: 629 Satin Anodize Aluminum. | |
| Door Frames: Entry/Exit Building Standard Interior: Building Standard (The General Contractor shall confirm the Building Standard specifications and match accordingly.) | | Door Types | | |
| Hardware: Hardware shall meet Building Standard specifications, with Building Standard finish. | | <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>Type "FI" Standard Flush Swinging Door</p> </div> <div style="text-align: center;">  <p>Type "Fr" French Swinging Door</p> </div> <div style="text-align: center;">  <p>Type "PK" Pocket Door Assembly</p> </div> </div> | | |
| Standard hardware to be included with every door in the Door Schedule shall include: <ul style="list-style-type: none"> - Latchset/ Lever Handle at interior and exterior (UNO), with 1" minimum throws. - Hinges - Dust Proof Strike Plate - Silencers - Wall or Door Stop The General Contractor shall provide separate cost to label all keys (locksets). Coordinate with Tenant and Building Management on labeling numbers. | | | | |



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SERVICES

INCORPORATED

1660 Lincoln St, Ste. 100

Denver, Colorado 80264

(303) 861-4800

fax (303) 861-1621

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Suite 430



Speculative Suite 430

Dates of Record

Project Start Date: 7 Jun 2023

Issued On Issued For

12 Aug 2024 Tenant Review & Approval; and Construction

| Power & Communications Plan | | | | |
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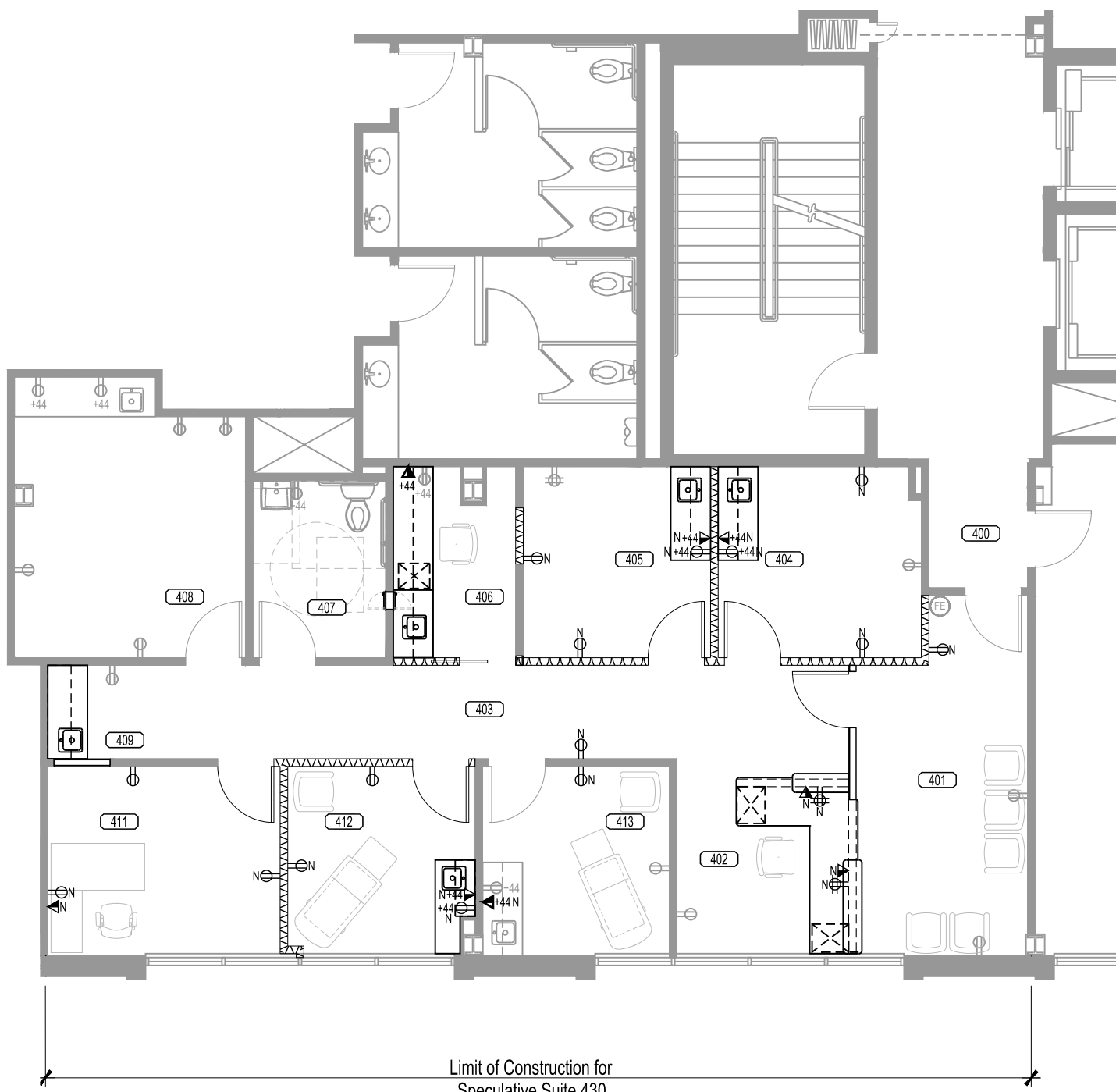
A2.0

RSN: 1834888

Permit#: 24-2467084-LT

| Room Schedule | | | |
|---------------|-----------------|-----|--------------|
| 400 | Public Corridor | 407 | Ext Restroom |
| 401 | Waiting | 408 | Procedure |
| 402 | Reception | 409 | Work Area |
| 403 | Hallway | 410 | Office |
| 404 | Exam | 411 | Office |
| 405 | Exam | 412 | Exam |
| 406 | MA | 413 | Exam |

| Symbol Legend | |
|--|--|
| Wall Mounted Fixtures/ Devices | |
| | Duplex electrical receptacle & face plate |
| | Quadplex electrical receptacle & face plate |
| | Combination telephony/ data outlet rough-in (3/4"OD conduit) w/ double gang J-box and single gang plaster ring with pull string to above finished ceiling. |
| | Existing J-box. Provide blank face plate |
| Ceiling Mounted Fixtures/ Devices | |
| | Existing 2x4 LED light fixture |
| | Existing 2x2 LED light fixture |
| | Recessed 4" LED downlight fixture |
| | Existing LED vanity light fixture |
| NOTE: all fixtures shown half shaded shall have night light egress function. | |
| | Building Standard Exit Sign. Green letters on white face. Battery backup. Shade indicates face(s) and arrows (if any) indicate direction. |
| Wall Mounted Fixtures/ Devices | |
| | Building Standard single pole switch |
| | Special function switches |
| | "D" = dimmable switch and ballast |
| | "3" = Three-way operation |
| | [lower case letters] indicate circuiting when necessary for clarification |
| | "N" New fixture/ device to be installed at this location. |
| | "R" Relocated fixture/ device to be installed in this location. |
| Refer to Engineering Drawings for complete specifications | |



1 Power & Communications Plan
Suite 430

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

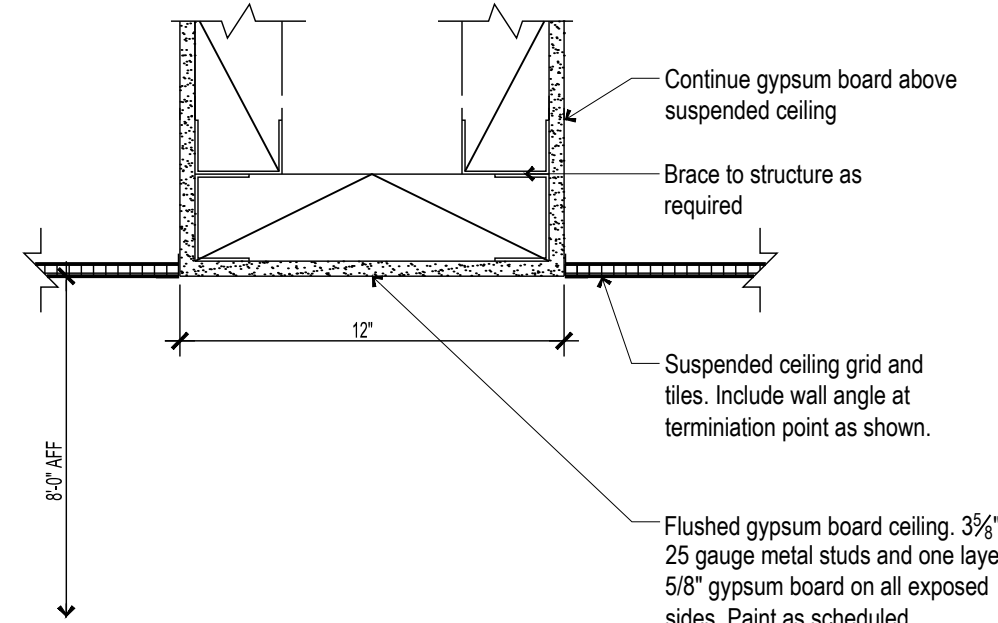


2 Reflected Ceiling Plan
Suite 430

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



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jloche
Date: Sep 03, 2024
2021 INTERNATIONAL CODES & 2023 NEC



3 Section: Soffit
At Reception 402

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

Sheet A2.0 Plan Notes

- Refer to General Notes for additional requirements.
- PROVIDE ELECTRICAL POWER AND COMMUNICATIONS OUTLETS, receptacles and devices indicated on the drawings.
 - Refer to symbols legend for device type and/or specification.
 - Install in locations as shown on the drawings.
 - All power and communications receptacles provided for general purposes shall be installed at 18" from the finished floor to the center of the device (unless noted otherwise).
 - Unless noted otherwise, all electrical power and communications outlets, receptacles and devices are dimensioned to the centerline of the device or pair of devices.
 - Confirm all box locations with Tenant prior to wiring.
 - All rectangular outlet boxes shall be installed with the long side in the vertical position, except above counters and cabinets, or otherwise shown on the drawings.
 - All rectangular switch and control boxes for lighting and other devices shall be installed with the long side in the vertical position, recessed flush with the wall surface and at 48" above finished floor to the center of the control unit (unless noted otherwise).
 - Outlets shall not be installed back to back in sound insulated partition.
 - All outlets indicated to be installed in existing partitions or furred partitions or columns shall be cut-in or recessed flush with wall surface. Furr and/or remove sheathing, if necessary.
- NEW WIRING DEVICES shall be specification grade, 15 amp. For general application, 20 amp. or greater for dedicated circuits and as required by circuit load. Provide smooth nylon cover plates for all outlets and devices. Color: match existing
- COMMUNICATION/ DATA OUTLETS shall conform to the following:
 - Communication/data outlets shall consist of an opening in the sheathing with a single gang plaster ring and pullwire with plastic bushing up through wall to the ceiling plenum.
 - When inaccessible by the method described above or when indicated on the drawings, include one (1) 3/4" conduit (min.) and 2" deep single gang box for outlet.
 - Where communication/data outlets are located in low height partitions or mounted in floors, a maximum of three (3) outlets shall be fed from one (1) 3/4" conduit.
 - All communication/data cables, plates, jacks, and final connections shall be provided under a separate contract by the Tenant. All materials shall be installed in compliance with all codes and ordinances and these documents. Cables and fittings installed above the ceiling in the return air plenum shall be rated and labeled for use in plenums. Cables shall be supported from the structure, independent of other support hangers.
- The SUSPENDED CEILING SYSTEM is existing-to-remain throughout (unless noted otherwise), and shall be refurbished as follows:
 - Suspended grid and components shall be cleaned or touched-up where soiled or discolored. Repair and/or replace damaged members. Caulk fill all holes. Match existing conditions.
 - Clean, touch-up and/or replace soiled, discolored and damaged ceiling tiles. Replacement ceiling board shall be per specifications or building standards.
 - Inspect grid suspension system and adjust ceiling plane, if necessary. Provide additional support where necessary.
 - Replacement of materials, when required, shall occur consistently and completely in individual rooms and/or spaces for uniformity of appearance and aesthetics.
 - Installation of tiles shall be continuous over walls or individually cut-in at rooms or areas. Refer to drawings for specific requirements.
 - All tiles shall be seated tight, level and true within the grid system.
- CEILING HEIGHT: 8'-0" AFF (UNO). Refer to construction details for ceiling construction and interface with partitions.
- FIXTURES AND DEVICES: Provide and/or relocate light fixtures, switches, and controls indicated on the drawings.
 - Refer to Symbols Legend for fixture type and/or specification.
 - Install and support fixtures from the structure in accordance with the code.
 - Install all new light fixtures, sprinkler heads, diffusers, speakers, detectors, alarms, etc. in the center of the ceiling board or section and symmetrical throughout rooms and open areas, unless noted otherwise.
 - The contractor shall field verify all proposed locations of light fixtures prior to commencing construction and shall notify TPS of any discrepancies and/or conflicts with existing installations.
 - Existing fixtures scheduled to remain or be re-used shall be inspected and reworked, if necessary. Fixtures shall be cleaned, including lenses and lamps. Defective ballasts and other components shall be replaced. Match existing conditions.
 - All light fixtures, exit signs, and switch devices shown throughout are to be assumed existing to remain (unless noted otherwise).
 - "R" indicates relocated fixture or device
 - "N" indicates new fixture or device
- LIGHTING DIMENSIONS: Unless noted otherwise, all light fixtures and devices are dimensioned to the centerline of the fixture.
- EXISTING FIRE SPRINKLER HEADS mounted in the ceiling may be shown on the drawings, and are intended for informational purposes only. Drawings shall be submitted by the General Contractor for any new work required.
- MODIFY EXISTING FIRE SPRINKLER SYSTEM on a DESIGN-BUILD basis. Conform to these drawings and documents and as required for obtaining a building permit. Refer to General Notes.

1411 S Potomac • Speculative Suite 430

Project start date: 7 Jun 2023
Draw create date: 8/19/2024 9:13:41 AM
Draw save date: 8/19/2024 9:13:41 AM
Draw create date: 8/19/2024 9:13:41 AM
Draw save date: 8/19/2024 9:13:41 AM
By: John Gabriel
Project: 1411 S Potomac
Sheet: Suite 430
Title: Power & Communications Plan
Scale: 1/8" = 1'-0"



Dates of Record

Project Start Date: 7 Jun 2023

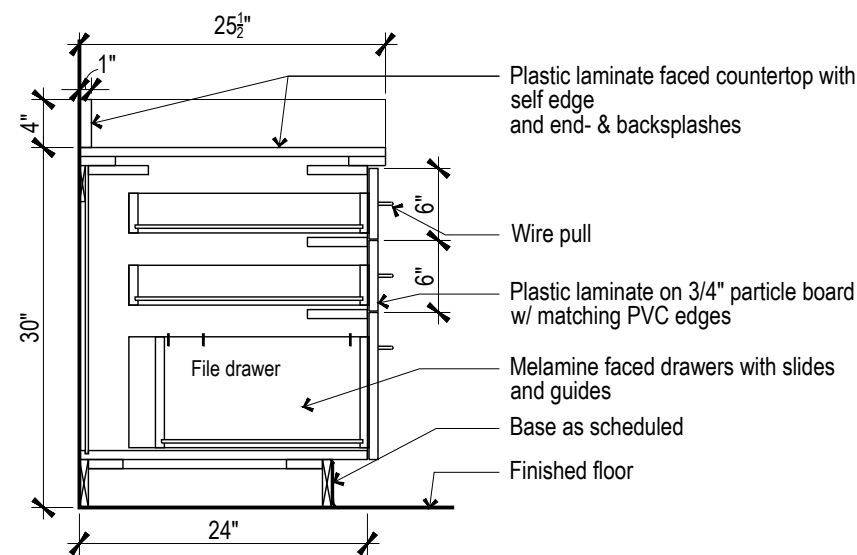
Issued On Issued For

12 Aug 2024 Tenant Review & Approval; and Construction

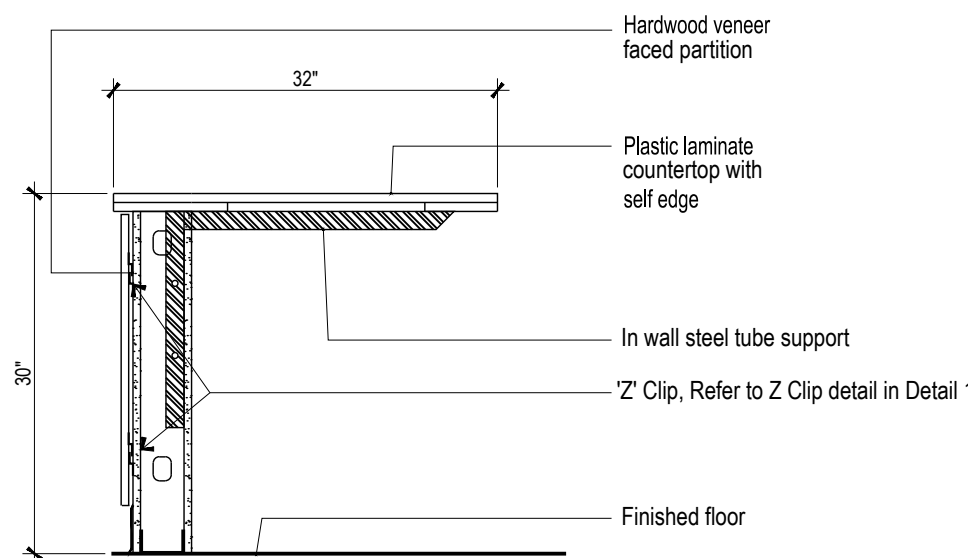
| Sheet | | | | | Details |
|-----------|----------|-------------|------------|------------|---------|
| Contents | | | | | |
| Project # | Proj Mgr | Designed by | Drafted by | Checked by | |
| 426020 | GBS | JC | JC | GBS | |



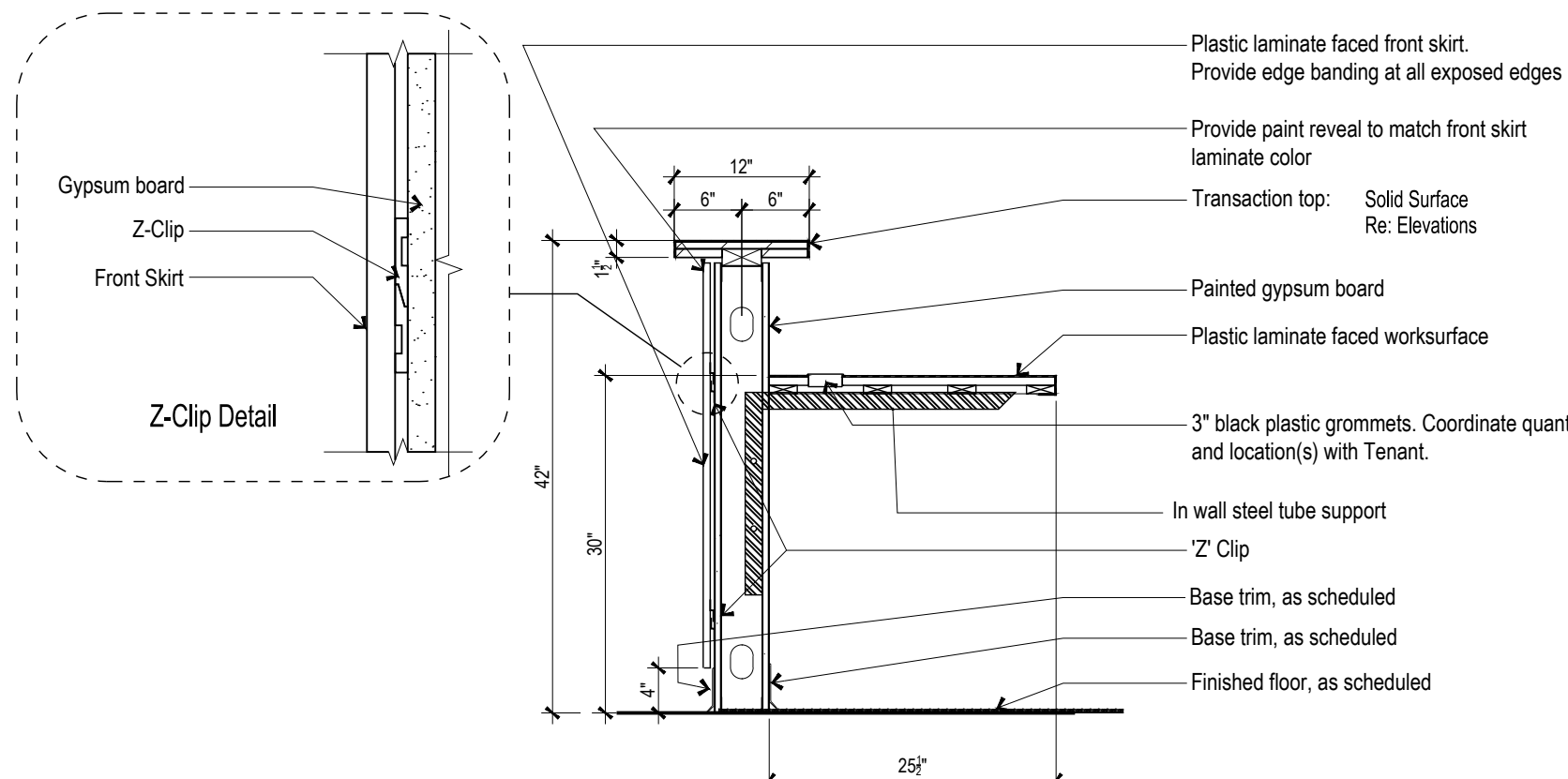
City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
Date: **Sep 03, 2024**
2021 INTERNATIONAL CODES & 2023 NEC



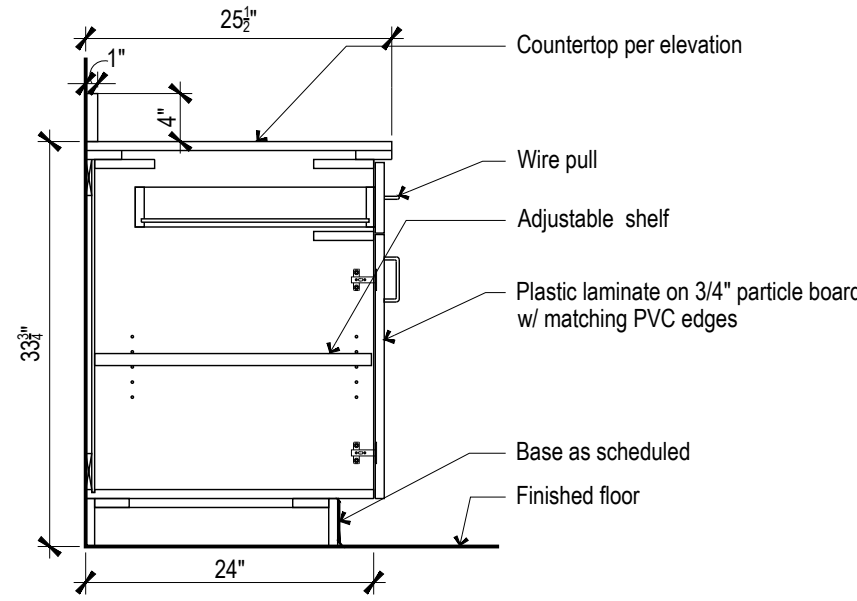
3 Section: Millwork
Box Box File
Scale: 3/4" = 1'-0"



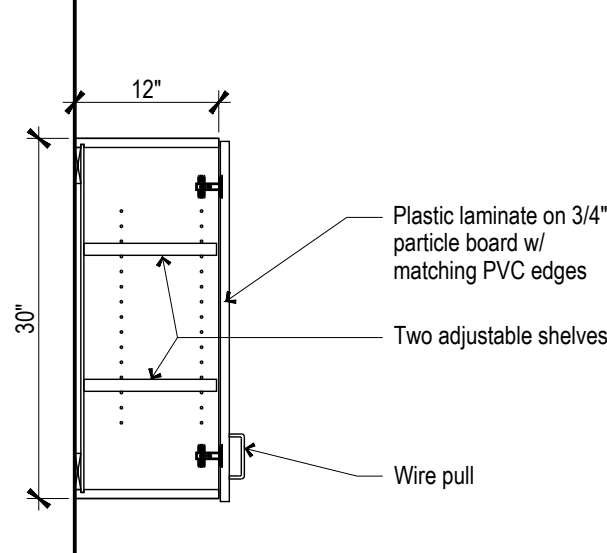
2 Section: Millwork
Reception Desk
Scale: 3/4" = 1'-0"



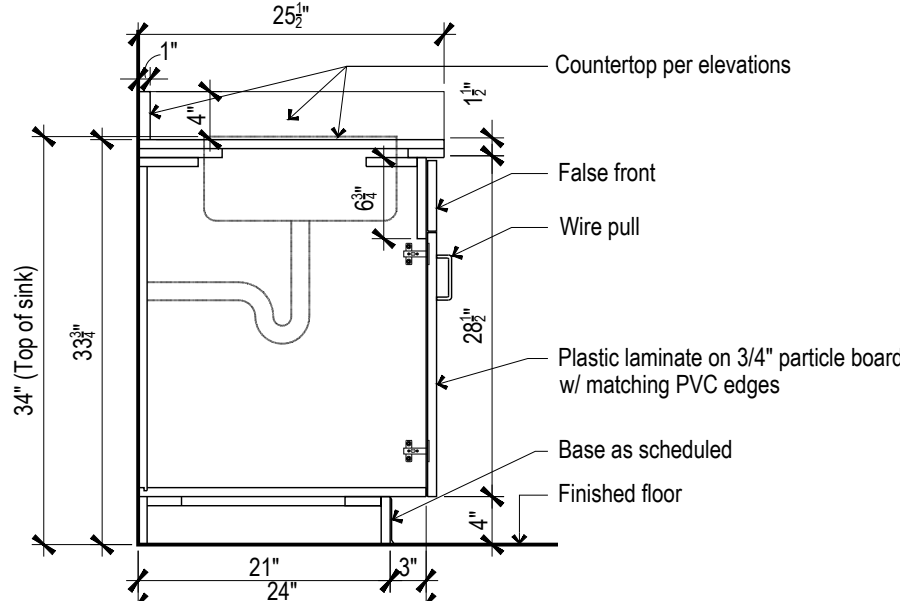
1 Section: Millwork
Desk & Transaction Top
Scale: 3/4" = 1'-0"



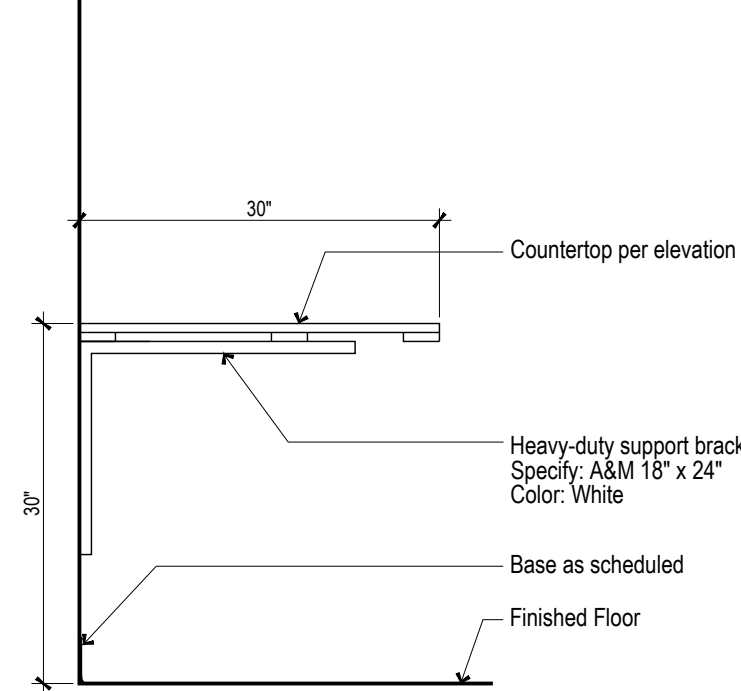
6 Section: Millwork
Base Cabinet
Scale: 3/4" = 1'-0"



5 Section: Millwork
Wall Cabinet
Scale: 3/4" = 1'-0"



4 Section: Millwork
Sink Cabinet
Scale: 3/4" = 1'-0"



7 Section: Millwork
Work Surface
Scale: 3/4" = 1'-0"

BRIAN SEYFERTH & ASSOCIATES, INC.



PROFESSIONAL ENGINEER

5583 South Prince Street
Littleton, Colorado 80120
Phone: (303) 797-7772
Fax: (303) 797-7773



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: **A. Sharpley**
Date: **Sep 04, 2024**
2021 INTERNATIONAL CODES & 2023 NEC

1411 S Potomac
1411 S Potomac
Aurora, CO 80012
Suite 430



Speculative Suite 430

Dates of Record

Project Start Date: 7 Jun 2023

Issued On Issued For

27 Aug 2024 Tenant's Review & Approval;
and Construction

Sheet
Contents

Project Team
Project Number
Sheet Mark

MECHANICAL NOTES
AND SCHEDULES

BM/ILC
24143

M1.0

RSN: 1834888
Permit#: 24-2467084-LT

MECHANICAL GENERAL NOTES

GENERAL

SCOPE
THE INTENT OF THE SPECIFICATION AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEM. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE MECHANICAL WORK.

SITE EXAMINATION
THE MECHANICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, DUCTWORK, AND PIPING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE MECHANICAL WORK.

STANDARDS
EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF ARI, ASME, ASTM, UL, NEMA, ANSI, SMACNA, ASHRAE, AND NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

CODES
ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATION AND THE CODES AND THE ORDINANCES, THE HIGHEST STANDARDS SHALL APPLY. THE MECHANICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO OWNER/TENANT.

PERMITS AND FEES
THE MECHANICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTORS NECESSARY TO COMPLETE THE MECHANICAL WORK.

WARRANTY
THE MECHANICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER/TENANT AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIAL AND WORKMANSHIP.

FILTERS
PROVIDE TWO (2) SETS OF PLEATED DISPOSABLE FILTERS. USE ONE SET UNTIL COMPLETION OF CONSTRUCTION. INSTALL ONE SET AT COMPLETION OF CONSTRUCTION. FILTERS TO BE FARR, OR SIMILAR.

DUCTWORK & ACCESSORIES

SHEETMETAL DUCTWORK
ALL DUCTWORK TO BE RIGID SHEETMETAL CONSTRUCTED FROM GALVANIZED SHEET STEEL IN ACCORDANCE WITH SMACNA 1" PRESSURE CLASS DUCT CONSTRUCTION STANDARDS. ALL EXPOSED DUCTWORK TO BE ROUND, SPIRAL, OR RECTANGULAR LOCK-SEAM TYPE, AS SHOWN ON HVAC PLAN. ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICE FOR ACHIEVING AIR TIGHT (5% LEAKAGE) AND NOISELESS (NO OBJECTIONABLE NOISE) SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE. FURNISH ALL REQUIRED DAMPERS, TRANSITIONS, CONNECTIONS TO AIR TERMINALS, AND OTHER ACCESSORIES NECESSARY FOR A COMPLETE OPERATING SYSTEM. NO VARIATION OF DUCT CONFIGURATION OR SIZES WILL BE PERMITTED EXCEPT BY PERMISSION FROM THE ENGINEER. FURNISH SHEETMETAL FROM SUGGESTED VENDORS:
C.H.I. MANUFACTURING, INC.
REEVES SPECIALTY SERVICES, INC.

DUCT SEALANT
SEAL ALL CONCEALED LONGITUDINAL AND TRANSVERSE JOINTS WITH A NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT OF A TYPE RECOMMENDED BY THE MANUFACTURER FOR SEALING JOINTS AND SEAMS IN SHEET METAL DUCTWORK. COVER ALL FIELD JOINTS, JOINTS AROUND SPIN-IN FITTINGS AND FASTENING SCREWS WITH MASTIC. DO NOT SEAL EXPOSED DUCT.

SUPPORTS
PROVIDE HOT-DIPPED GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS, TRIM, AND ANGLES FOR SUPPORT OF DUCTWORK.

DAMPERS
PROVIDE OPPOSED-BLADE, MULTI-LEAF VOLUME CONTROL DAMPERS WHERE INDICATED ON DRAWINGS AND AT POINTS ON LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCTS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS. PROVIDE UL LISTED FIRE DAMPERS WHERE REQUIRED AND IN ACCORDANCE WITH NFPA AND LOCAL CODES. PROVIDE CONVENIENTLY LOCATED ACCESS DOORS OF AMPLE SIZE AND QUANTITY FOR SERVICING THE DAMPERS.

GRILLES, REGISTERS, & DIFFUSERS
GRILLES, REGISTERS AND DIFFUSERS SHALL BE MANUFACTURED BY PRICE. DIFFUSERS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND SCHEDULES. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS ITEMS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION IN THE TYPE OF CEILING AND WALLS USED IN THIS PROJECT.

CONTROLS AND OPERATIONS

CONTROL WIRING
THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING NECESSARY FOR THE COMPLETE AND PROPER OPERATING TEMPERATURE CONTROL SYSTEM.

CONTROLS
MOUNT ALL CONTROLS @ 48" ABOVE FINISH FLOOR. UNLESS OTHERWISE NOTED.

TESTING, ADJUSTING, AND BALANCING

TESTING, ADJUSTING, BALANCING
MECHANICAL CONTRACTOR OR AN INDEPENDENT NEBB OR AABC CERTIFIED AIR BALANCE CONTRACTOR SHALL ACCURATELY BALANCE THE AIR SYSTEM TO PROVIDE AIR QUANTITIES INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION. OPERATE AUTOMATIC CONTROLS SYSTEM AND VERIFY SET POINTS DURING BALANCING. SUBMIT TWO (2) COPIES OF THE BALANCE REPORT TO THE ENGINEER FOR APPROVAL. INCLUDE A COPY OF THE BALANCE REPORT AS APPROVED BY THE ENGINEER WITH APPLICATION FOR FINAL CONTRACT PAYMENT.

OUTSIDE AIR COMPLIANCE

| DESCRIPTION | ROOM # | AREA SF | PEOPLE/1000SF | POPULATION | CFM/PERSON | AREA AIRFLOW RATE | Ez | REQUIRED OUTSIDE AIR CFM | SUPPLY AIR | % OUTSIDE AIR | OUTSIDE AIR PROVIDED | EXHAUST AIRFLOW RATE | EXHAUST REQUIRED | EXHAUST PROVIDED | REMARKS |
|--------------|--------|---------|---------------|------------|------------|-------------------|-----|--------------------------|------------|---------------|----------------------|----------------------|------------------|------------------|---------|
| WAITING | 401 | 161 | 30 | 5 | 5.0 | 0.06 | 0.8 | 43 | 240 | 20% | 48 | 0.00 | 0 | 0 | |
| RECEPTION | 402 | 82 | 5 | 1 | 5.0 | 0.06 | 0.8 | 12 | 260 | 20% | 52 | 0.00 | 0 | 0 | |
| HALLWAY | 403 | 192 | 0 | 0 | 0.0 | 0.06 | 0.8 | 14 | 70 | 20% | 14 | 0.00 | 0 | 0 | |
| EXAM | 404 | 110 | 5 | 1 | 5.0 | 0.06 | 0.8 | 15 | 120 | 20% | 24 | 0.00 | 0 | 0 | |
| EXAM | 405 | 103 | 5 | 1 | 5.0 | 0.06 | 0.8 | 14 | 115 | 20% | 23 | 0.00 | 0 | 0 | |
| MA | 406 | 64 | 5 | 1 | 5.0 | 0.06 | 0.8 | 11 | 90 | 20% | 18 | 0.00 | 0 | 0 | |
| EXT RESTROOM | 407 | 67 | 0 | 0 | 0.0 | 0.00 | 0.8 | 0 | 0 | 0% | 0 | 0.00 | 70 | 75 | |
| PROCEDURE | 408 | 174 | 5 | 1 | 5.0 | 0.06 | 0.8 | 19 | 160 | 20% | 32 | 0.00 | 0 | 0 | |
| WORK AREA | 409 | 31 | 5 | 1 | 5.0 | 0.06 | 0.8 | 9 | 45 | 20% | 9 | 0.00 | 0 | 0 | |
| OFFICE | 411 | 125 | 5 | 1 | 5.0 | 0.06 | 0.8 | 16 | 280 | 20% | 56 | 0.00 | 0 | 0 | |
| EXAM | 412 | 98 | 5 | 1 | 5.0 | 0.06 | 0.8 | 14 | 270 | 20% | 54 | 0.00 | 0 | 0 | |
| EXAM | 413 | 101 | 5 | 1 | 5.0 | 0.06 | 0.8 | 14 | 180 | 20% | 36 | 0.00 | 0 | 0 | |
| TOTALS | | 1308 | | 14 | | | | 181 | 1830 | | 366 | | 70 | 75 | |

FAN TERMINAL UNIT SCHEDULE

| MARK | MFR. & MODEL NUMBER | AIR INLET SIZE | PRIMARY AIR | | HEATING | | | FAN MOTOR | | | MCA | MAX FUSE | REMARKS |
|----------|---------------------|----------------|-------------|----------|---------|------|-----|-----------|-----|-----|------|----------|---------|
| | | | MAX. CFM | MIN. CFM | VOLTAGE | KW | CFM | VOLTAGE | HP | FLA | | | |
| FVAV 4.3 | TRANE VFPE17 | 10"Ø | - | - | 277/1 | 10.0 | - | 277/1 | 1/3 | 2.6 | 48.3 | 50 | 1 |
| FVAV 4.4 | TRANE VFPE17 | 10"Ø | - | - | 277/1 | 10.0 | - | 277/1 | 1/3 | 2.6 | 48.3 | 50 | 1 |

1. EXISTING TO REMAIN.

DIFFUSER SCHEDULE

| MARK | SERVICE | FACE SIZE | NECK SIZE | FIRE DAMPER | VOLUME DAMPER | MFR | MODEL | REMARKS |
|------|---------|-----------|-----------|-------------|---------------|-------|-------|--|
| A | SUPPLY | - | - | - | - | - | - | EXISTING TO REMAIN OR BE RELOCATED |
| B | SUPPLY | 24" x 24" | 6"Ø | NO | NO | PRICE | SCD | |
| R | RETURN | - | - | - | - | - | - | EXISTING TO REMAIN |
| R1 | RETURN | - | - | - | - | - | - | EXISTING TO REMAIN W/NEW RAC, RETURN AIR CANOPY |
| R2 | RETURN | 24" x 12" | 22" x 10" | NO | NO | PRICE | PRRF | W/RAC, RETURN AIR CANOPY |
| E1 | EXHAUST | - | - | - | - | - | - | EXISTING TO REMAIN |

VAV TERMINAL SCHEDULE

| MARK | MFR. & MODEL NUMBER | AIR INLET SIZE | MAX. PRIMARY AIR CFM | MIN. PRIMARY AIR CFM | DISCHARGE PLENUM SIZE | REMARKS |
|---------|---------------------|----------------|----------------------|----------------------|-----------------------|---------|
| VAV 4.1 | PRICE SDV5 | 8"Ø | 600 | 180 | 12" x 8" | 1 - 5 |

1. NEW.

2. ALL UNIT CABINETS SHALL BE INTERNALLY LINED, AT THE FACTORY, WITH 1/2" THICK FIBERGLASS MATTE-FACED INSULATION

3. ALL UNITS SHALL BE PRESSURE INDEPENDENT WITH MULTI-POINT, CENTER AVERAGING INLET VELOCITY SENSOR.

4. ALL UNITS SHALL BE PROVIDED WITH FIELD FURNISHED AND MOUNTED DDC CONTROLS, ELECTRONIC THERMOSTAT LOCATED AS SHOWN ON PLANS, AND LOW VOLTAGE CONTROL POWER TRANSFORMER.

5. INTEGRATE INTO EXISTING BUILDING AUTOMATION SYSTEM.

LEGEND



DIFFUSER, SEE SCHEDULE



GRILLE, SEE SCHEDULE



NEW RIGID RECTANGULAR DUCTWORK



EXISTING RIGID RECTANGULAR DUCTWORK



NEW RIGID ROUND DUCTWORK



EXISTING RIGID ROUND DUCTWORK



EXPOSED SPIRAL DUCTWORK



DUCTWORK TO BE REMOVED



FLEX, DUCTWORK.



THERMOSTAT TO MATCH EQUIPMENT



CFM, BALANCE WITHIN 10%



EQUIPMENT DESIGNATION



SPIN-IN WITH DAMPER



RETURN AIR ARROW



SUPPLY AIR ARROW



CONNECT TO EXISTING

BRIAN SEYFERTH & ASSOCIATES, INC.



PROFESSIONAL ENGINEER

5583 South Prince Street
Littleton, Colorado 80120
Phone: (303) 797-7772
Fax: (303) 797-7773



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: **A. Sharpley**
Date: **Sep 04, 2024**
2021 INTERNATIONAL CODES & 2023 NEC

1411 S Potomac
1411 S Potomac
Aurora, CO 80012
Suite 430



Speculative Suite 430

Dates of Record

Project Start Date: 7 Jun 2023
Issued On: 27 Aug 2024
Issued For: Tenant's Review & Approval;
and Construction

MECHANICAL PLAN
Sheet Contents
Project Team: BM/LC
Project Number: 24143
Sheet Mark

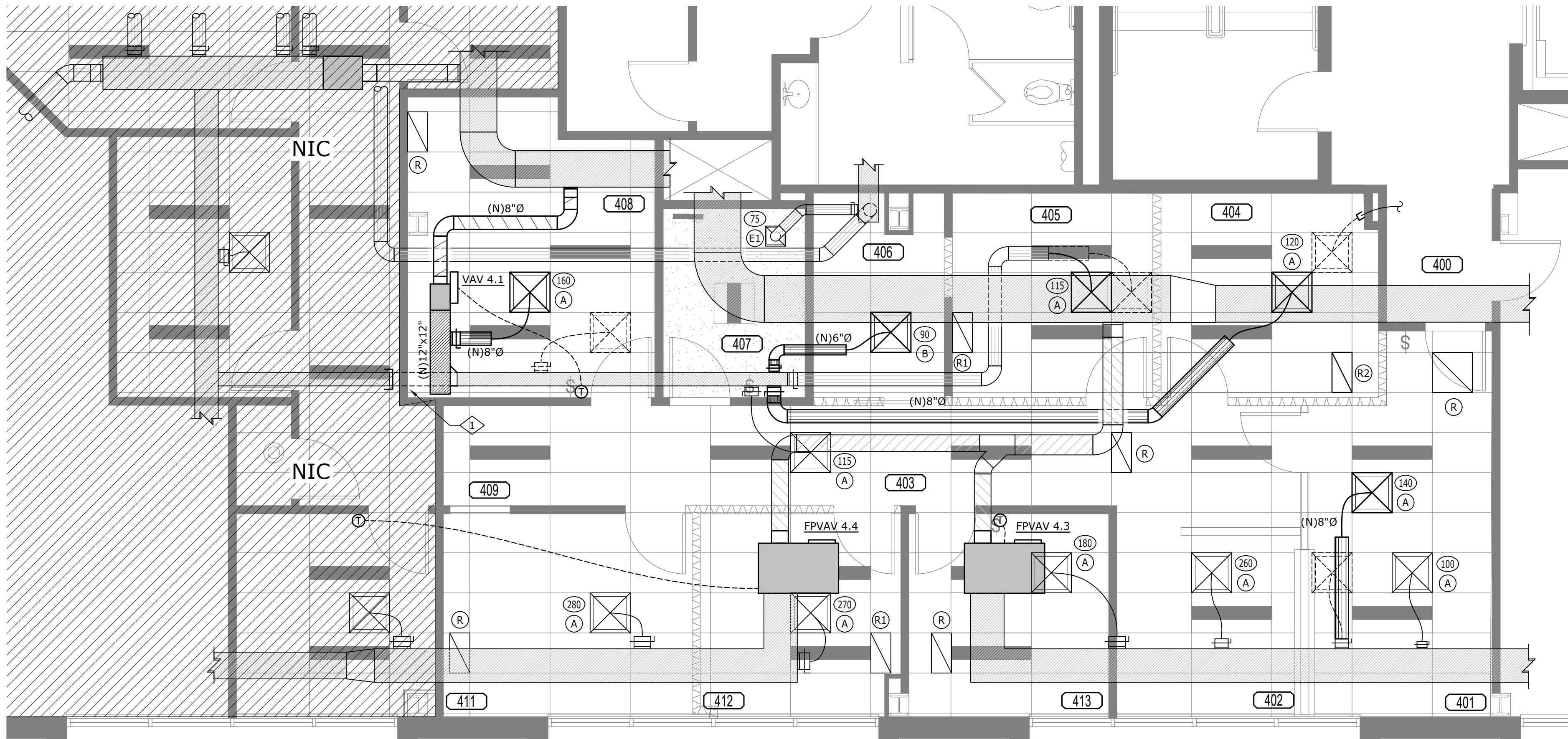
M1.1

RSN: 1834888
Permit#: 24-2467084-LT

| Room Schedule | | | |
|---------------|-----------------|-----|--------------|
| 400 | Public Corridor | 407 | Ext Restroom |
| 401 | Waiting | 408 | Procedure |
| 402 | Reception | 409 | Work Area |
| 403 | Hallway | 410 | ---- |
| 404 | Exam | 411 | Office |
| 405 | Exam | 412 | Exam |
| 406 | MA | 413 | Exam |

Heating system shall be capable of maintaining 68 degrees F at 3'0" above the floor.
2021 IMC 309.1, IRC 303.10 and IBC 1203.1

Provide proof of a flame spread less than 26 and a smoke development less than 50 for any material used in a plenum.
2021 IMC 602.2.1



DETAIL NOTES:

1 REMOVE EXISTING DUCTWORK AND CAP.

1
M1.1

MECHANICAL PLAN

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

NOTE: ALL DUCTWORK AND DIFFUSERS ARE EXISTING TO REMAIN U.O.N.

BRIAN SEYFERTH & ASSOCIATES, INC.



PROFESSIONAL ENGINEER

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Fax: (303) 797-7773



City of Aurora Building Division
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Sheet
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PLUMBING NOTES
AND SCHEDULES

Project Team
Project Number
Sheet Mark

BM/LC
24143

P1.0

RSN: 1834888
Permit#: 24-2467084-LT

| PLUMBING FIXTURE SCHEDULE | | | | | | | | |
|---------------------------|----------------------------|----------------|-------------|------|------|------|----|---|
| MARK | DESCRIPTION | MANUFACTURER | MODEL | CW | HW | TW | W | REMARKS |
| P110 | WATER HEATER | A.O. SMITH | DEL-10 | 3/4" | 3/4" | | | 208V/1, 3000W, PROVIDE WATTS LFN36 VAC. RELIEF VALVE. |
| P111 | EXPANSION TANK | AMTROL | ST-5 | 3/4" | | | | |
| P112 | HOT WATER RECIRC PUMP | BELL & GOSSETT | E3-4/-B-PRZ | | 1/2" | | | W/ ADJUSTABLE TEMP SENSOR & E3 TIMER, 120V/ 10W |
| P113 | THERMOSTATIC RECIRC VALVE | CIRCUIT SOLVER | CS-1/2-110 | | | | | |
| P114 | BELOW SINK TEMPERING VALVE | WATTS | LFUSG-B | 1/2" | 1/2" | 1/2" | | |
| P144 | EXAM ROOM SINK | ELKAY | BLR1560 | | | | 2" | |
| P145 | FAUCET | DELTA | 27C4944 | 1/2" | 1/2" | | | |

The City of Aurora Building Divisions
does not permit, Review, or Inspect
for Backflow Prevention Devices on
building domestic water entry.
Please contact Aurora Water-
Water- Water Service Cross
Connection Control 303-326-8510

Provide for thermal expansion on hot-
water supply system as required by
2021 IPC 607.3 or IRC 2903.4

Provide Self-Closing or Meter Faucets in
Public Restrooms .2021 COA 22-326 (A)

PLUMBING GENERAL NOTES

GENERAL

SCOPE

THE INTENT OF THE SPECIFICATION AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE PLUMBING WORK.

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PIPING

SOIL, WASTE AND VENT PIPING

SOIL, WASTE AND VENT PIPING 10" AND SMALLER SHALL BE SERVICE WEIGHT, HUBLESS, CAST IRON PIPE AND FITTINGS CONFORMING WITH THE REQUIREMENTS OF CISPI STD 301, ASTM A888 OR ASTM A74, WITH NEOPRENE GASKET AND STAINLESS STEEL SHIELD AND CLAMP. PROVIDE HUB-TYPE PIPE AND FITTINGS BELOW GRADE WHERE REQUIRED BY LOCAL CODES. PIPE AND FITTINGS SHALL BE MARKED WITH THE CISPI TRADEMARK. SCHEDULE 40 ABS OR PVC PIPE AND FITTINGS WITH SOLVENT WELD MAY BE SUBSTITUTED FOR SOIL, WASTE AND VENT PIPING ABOVE AND BELOW GRADE IF ALLOWED BY LOCAL AUTHORITY, EXCEPT WHEN USED IN RETURN AIR PLENUMS OR WHEN PENETRATING RATED ASSEMBLIES. HORIZONTAL RUNS SHALL DRAIN AT A GRADE OF 1/4 INCH PER FOOT WHERE POSSIBLE BUT IN NO CASE LESS THAN 1/8" PER FOOT. COORDINATE WITH LOCAL AUTHORITIES FOR DRAINAGE REQUIREMENTS FOR EQUIPMENT DESIGNATED WITH INDIRECT WASTE TO FLOOR DRAINS. PROVIDE PIPED DRAIN TO SANITARY IF REQUIRED BY LOCAL JURISDICTION.

DOMESTIC WATER PIPING

DOMESTIC WATER PIPING 2" AND SMALLER SHALL BE COPPER TUBE WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH LEAD FREE SOLDER. PROVIDE TYPE "L" COPPER TUBE ABOVE GRADE AND TYPE "K" BELOW GRADE. PRESS-FIT FITTINGS ARE NOT PERMITTED.

HANGERS & SUPPORTS

THE PLUMBING CONTRACTOR SHALL FURNISH ALL PIPE SUPPORTS REQUIRED FOR HIS EQUIPMENT AND MATERIAL. HANGERS AND PIPE ATTACHMENTS TO BE FACTORY FABRICATED WITH GALVANIZED COATINGS; NONMETALLIC COATED FOR HANGERS IN DIRECT CONTACT WITH COPPER TUBING.

CONNECTIONS

INSTALL UNIONS ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS. SCREW JOINT STEEL PIPING UP TO AND INCLUDING 1-1/2". WELD PIPING USE LEAD FREE SOLDER FOR SOLDERING DOMESTIC WATER COPPER PIPE.

CLEANOUTS

PROVIDE J.R. SMITH OR EQUIVALENT FLOOR AND WALL CLEANOUTS AS INDICATED ON THE DRAWINGS OR WHERE REQUIRED IN ALL SOIL, WASTE, AND DRAIN LINES. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.

INSTALLATION

PROVIDE SEWER SCOPE PRIOR TO FINAL PRICING. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, CONCRETE FLOOR, AND ROOF SLABS. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL.

TESTING

ALL PIPES SHALL BE TESTED BY AN APPROVED METHOD BEFORE THEY ARE BACKFILLED OR CONCEALED.

VALVES

GENERAL

PLUMBING CONTRACTOR TO PROVIDE VALVES WHERE INDICATED ON PLANS AND AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH FIXTURE AND ITEM OF EQUIPMENT. PROVIDE BRAIDED STAINLESS STEEL HOSE (UNLESS OTHERWISE NOTED) BETWEEN VALVE AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.

VALVES

PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER.

INSULATION

WATER PIPING

PROVIDE THERMAL INSULATION ON ALL HOT & COLD WATER PIPING. USE SELF-SEALING CLOSED CELL FOAM OR JACKETED FIBERGLASS INSULATION WITH MANUFACTURER APPROVED ADHESIVES, SEALERS, AND COATINGS. ALL MATERIALS USED SHALL NOT EXCEED 25 FOR FLAME SPREAD, 50 FOR FUEL CONTRIBUTED, OR 50 FOR SMOKE DEVELOPED.

SAFETY COVERS

INSTALL NO-SCALD SAFETY COVERS WITH INSULATED FOAM LINER AND TAMPER PROOF STRAP AT ALL EXPOSED HOT WATER & WASTE PIPING.

MISC PLUMBING FIXTURES

WATER HEATER

PROVIDE AN A.O. SMITH OR EQUIVALENT, GLASS-LINED, ENERGY EFFICIENT, WATER HEATER, WITH CAPACITY AS INDICATED IN THE PLANS. PROVIDE INSTALLATION COMPLETE WITH FITTINGS AS SHOWN IN THE DRAWINGS. PROVIDE HEAT TRAPS ON BOTH SUPPLY AND DISCHARGE TO WATER HEATER.

OWNER FURNISHED CONTRACTOR INSTALLED

PLUMBING FIXTURES/EQUIPMENT (E.G., ICE MAKER, ETC.)

THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT INCLUDING REQUIRED MATERIAL SUCH AS PIPING, VALVES, FILTERS, TRAPS, CHECKS VALVES, VACUUM BREAKERS, AND FLEXIBLE AND RIGID TUBING.

ALL FLEXIBLE SUPPLY LINES TO BE BRAIDED STAINLESS STEEL WITH METAL COUPLINGS.

MINIMUM HYDRONIC & DOMESTIC HOT WATER
PIPE INSULATION THICKNESS (IN INCHES)

| FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F) | INSULATION CONDUCTIVITY | | NOMINAL PIPE OR TUBE SIZE (INCHES) | | | | |
|--|--|-----------------------------|------------------------------------|--------------|--------------|----------|-----|
| | CONDUCTIVITY BTU - IN./ (H - FT ² - °F) ^a | MEAN RATING TEMPERATURE, °F | LESS THAN 1 | 1 TO < 1-1/2 | 1-1/2 TO < 4 | 4 TO < 8 | ≥ 8 |
| 201 - 250 | 0.27 - 0.30 | 150 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 |
| 141 - 200 | 0.25 - 0.29 | 125 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 |
| 105 - 140 | 0.21 - 0.28 | 100 | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 |
| 40 - 60 | 0.21 - 0.27 | 75 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 |

PIPE HANGER SPACING REQUIREMENTS

| MATERIAL | SIZE | MAX HORIZONTAL SPACING | MAX VERTICAL SPACING |
|-----------------|---------|------------------------|----------------------|
| ABS | ALL | 4' | 10' |
| CAST IRON < 10' | ALL | 5' | 15' |
| CAST IRON - 10' | ALL | 10' | 15' |
| COPPER | < 1-1/2 | 6' | 10' |
| COPPER | ≥ 1-1/2 | 10' | 10' |
| PEX | ALL | 32" | 10' |
| PVC | ALL | 4' | 10' |

PIPE SIZE EQUIVALENTS

| DESIGN SIZE | NOMINAL COPPER TUBE | NOMINAL PEX | NOMINAL BLACK IRON | CSST EHD |
|-------------|---------------------|-------------|--------------------|-------------|
| ½" | ½" | ½" | ½" | 18 |
| ¾" | ¾" | 1" | ¾" | 23 |
| 1" | 1" | 1½" | 1" | 31 |
| 1¼" | 1¼" | 1½" | 1¼" | 37 |
| 1½" | 1½" | 2" | 1½" | 47 |
| 2" | 2" | - | 2" | 60 |

PLUMBING SYMBOLS LEGEND

| | |
|---------|---------------------|
| — | WASTE PIPING |
| ----- | VENT PIPING |
| — · — | COLD WATER PIPING |
| — · · — | HOT WATER PIPING |
| — G — | GAS PIPING |
| — O — | BALL VALVE |
| — H — | HOSE BIBB |
| — WCO | WALL CLEANOUT |
| — O — | FLOOR CLEANOUT |
| ⊗ | FLOOR DRAIN |
| ⊙ | CONNECT TO EXISTING |



PROFESSIONAL ENGINEER

5583 South Prince Street
Littleton, Colorado 80120
Phone: (303) 797-7772
Fax: (303) 797-7773



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: A. Sharpley
Date: **Sep 04, 2024**
2021 INTERNATIONAL CODES & 2023 NEC

1411 S Potomac
1411 S Potomac
Aurora, CO 80012
Suite 430



Speculative Suite 430

Dates of Record

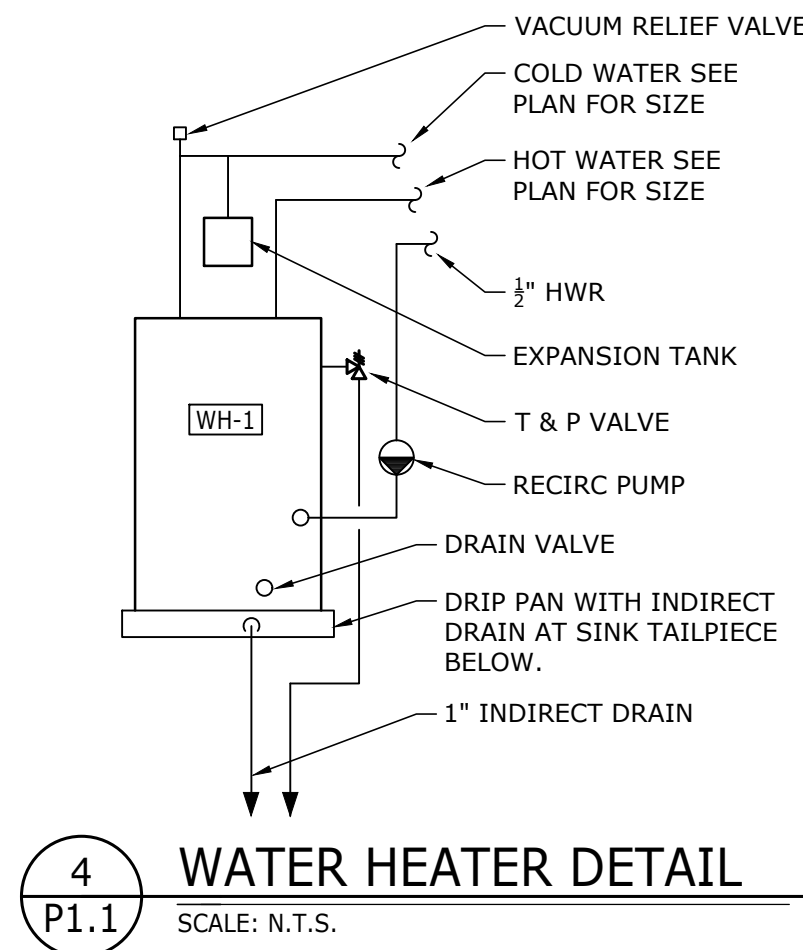
Project Start Date: 7 Jun 2023
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Project Team
Project Number
Sheet Mark

PLUMBING PLAN
BMLC
24143

P1.1

RSN: 1834888
Permit#: 24-2467084-LT



PLUMBING DEMOLITION PLAN NOTES

- EXISTING PLUMBING FIXTURE TO BE REMOVED.
- EXISTING COLD WATER RISER.
- REMOVE EXISTING COLD / HOT WATER PIPING.
- EXISTING PLUMBING FIXTURE TO REMAIN.

1 PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

Provide Self-Closing or Meter Faucets in
Public Restrooms .2021 COA 22-326 (A)

Provide for thermal expansion on hot-
water supply system as required by
2021 IPC 607.3 or IRC 2903.4

2 PLUMBING PLAN
SCALE: 1/4" = 1'-0"

PLUMBING PLAN NOTES

- CONNECT TO EXISTING COLD / HOT WATER.
- EXISTING PLUMBING FIXTURE.
- 1/2" CW AND HW TO SINK. CONNECT TO EXISTING PLUMBING WITHIN WALL.
- 1/2" CW AND HW TO SINK.
- 3/4" CW AND HW TO WATER HEATER.
- INSTALL 1/2" RECIRCULATION VALVE.

3 PLUMBING ISOMETRIC
SCALE: N.T.S.



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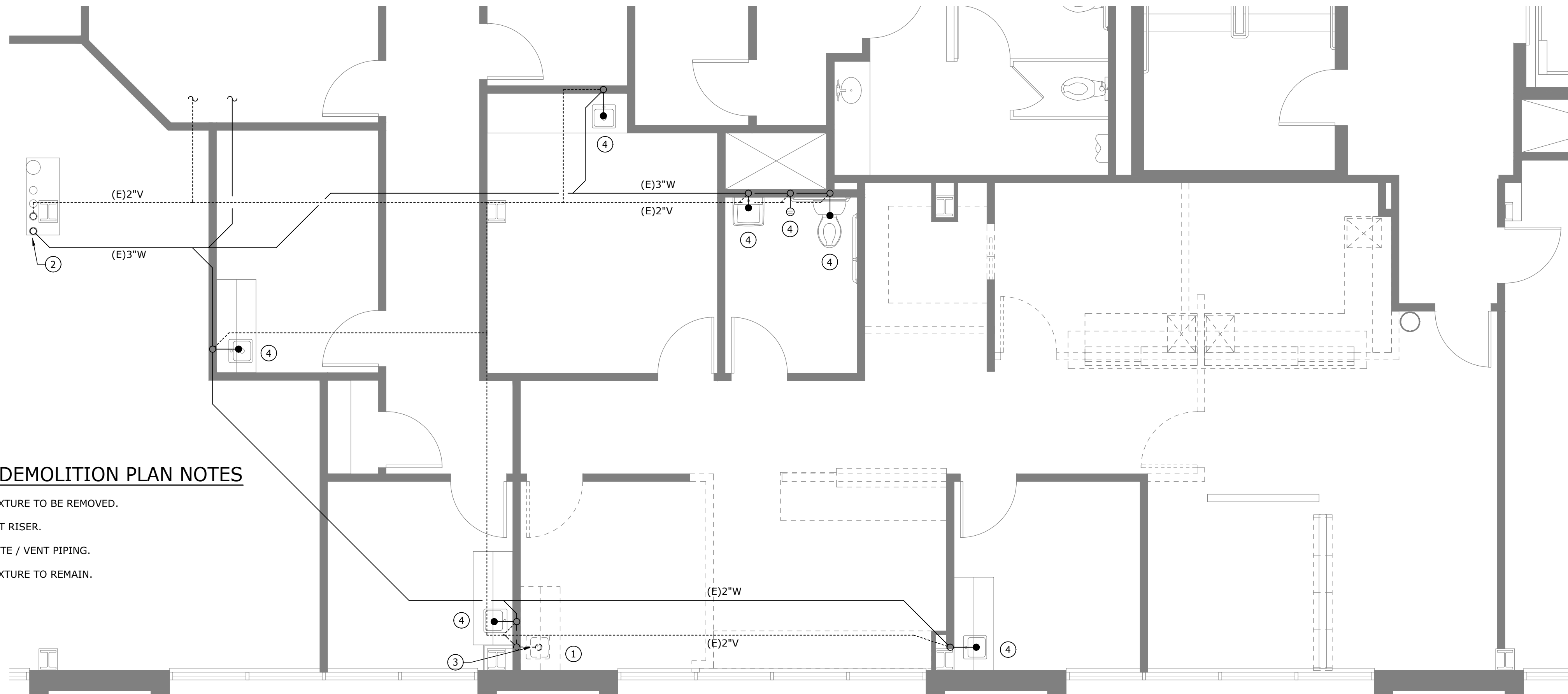
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WASTE PIPING PLAN

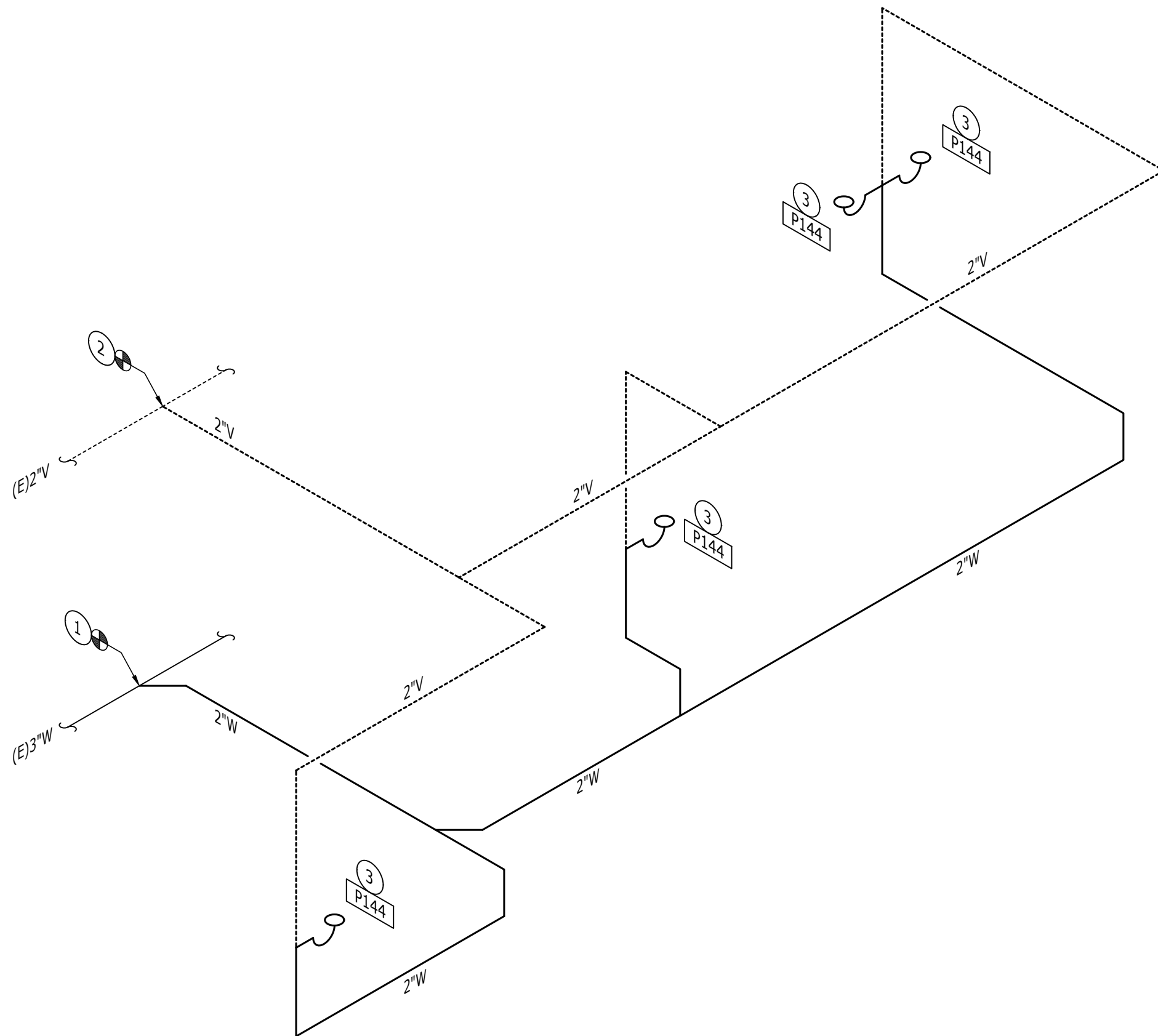
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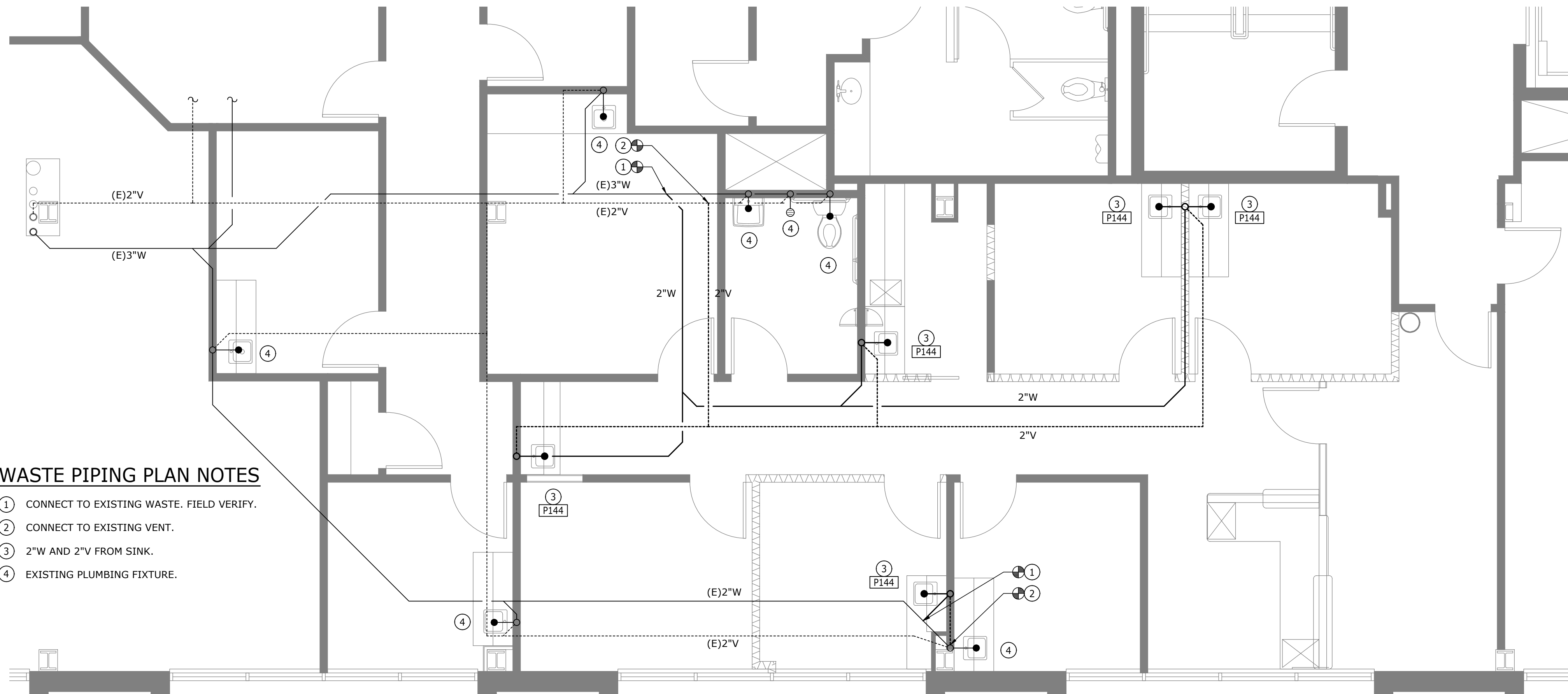
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1 WASTE PIPING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



3 WASTE PIPING ISOMETRIC
SCALE: N.T.S.



2 WASTE PIPING PLAN
SCALE: 1/4" = 1'-0"

WASTE PIPING PLAN NOTES

- 1 CONNECT TO EXISTING WASTE. FIELD VERIFY.
- 2 CONNECT TO EXISTING VENT.
- 3 2"W AND 2"V FROM SINK.
- 4 EXISTING PLUMBING FIXTURE.

WASTE PIPING DEMOLITION PLAN NOTES

- 1 EXISTING PLUMBING FIXTURE TO BE REMOVED.
- 2 EXISTING WASTE / VENT RISER.
- 3 REMOVE EXISTING WASTE / VENT PIPING.
- 4 EXISTING PLUMBING FIXTURE TO REMAIN.

ELECTRICAL GENERAL NOTES - APPLICABLE TO ALL ELECTRICAL SHEETS

1. PRIOR TO SUBMITTING BIDS THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING ELECTRICAL EQUIPMENT CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. AND MAKE IT READY FOR OPERATION, EVEN IF NOT SPECIFICALLY SPECIFIED, SHALL BE FURNISHED, DELIVERED, AND INSTALLED BY THE ELECTRICAL CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE CLIENT.

2. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES WHOMSE WORK RELATES TO OR IS DEPENDENT ON ELECTRICAL WORK TO BECOME FULLY INFORMED OF THE EXTENT AND CHARACTER OF THEIR SPECIFIED WORK AND BE ABLE TO COORDINATE IT WHILE AVOIDING POSSIBLE INTERFERENCE WITH THE ELECTRICAL WORK.

3. IT IS THE INTENTION OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE." "REPLACE" SHALL MEAN TO PUT NEW IN PLACE OF EXISTING. THE ARCHITECTURAL GENERAL AND SPECIAL CONDITIONS FOR THE WORK OF THIS PROJECT AND BASE BUILDING SPECIFICATIONS SHALL BE PART OF THE ELECTRICAL SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE GENERAL AND SPECIAL CONDITIONS BEFORE SUBMITTING A BID.

4. ALONGSIDE SUBMISSION OF THE BID, THE ELECTRICAL CONTRACTOR SHALL GIVE WRITTEN NOTICE TO THE ARCHITECT/ENGINEER OF ANY NECESSARY ITEMS OR WORK THAT HAVE BEEN OMITTED FROM THE DRAWINGS OR SPECIFICATIONS. IN THE ABSENCE OF SUCH WRITTEN NOTICE, IT IS MUTUALLY AGREED THAT THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL REQUIRED ITEMS IN HIS BID, AND THAT THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE APPROVED SATISFACTORY FUNCTIONING OF THE ENTIRE SYSTEM WITHOUT EXTRA COMPENSATION.

5. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE AND SATISFACTORY ELECTRICAL INSTALLATION IN ACCORDANCE WITH THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS. HE SHALL PROVIDE, WITHOUT EXTRA CHARGE, ALL INCIDENTAL ITEMS REQUIRED AS A PART OF THIS ELECTRICAL INSTALLATION. THE INSTALLATION SHALL BE SO MADE THAT ITS SEVERAL COMPONENT PARTS WILL FUNCTION TOGETHER AS A WORKABLE SYSTEM AND SHALL BE LEFT WITH ALL PARTS ADJUSTED AND IN WORKING ORDER.

6. ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LOCAL FEES, PERMITS, AND SERVICES OF INSPECTION AUTHORITIES REQUIRED BY ELECTRICAL WORK FOR THIS ELECTRICAL CONSTRUCTION. WHILE ALL NECESSARY PLANS, PERMITS, AND ALL DOCUMENTS, AND OBTAIN ALL NECESSARY APPROVALS REQUIRED BY ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL REMAIN EXPOSED TO VIEW UNTIL APPROVED BY THE INSPECTION AUTHORITY.

7. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE WITH OWNER REPRESENTATIVES. ALL ELECTRICAL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, LOCAL BUILDING AND FIRE DEPARTMENT REQUIREMENTS. PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF OWNER REPRESENTATIVE.

8. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY CHANGES REQUIRED BY THE BUILDING MANAGEMENT AND TENANT REPRESENTATIVES.

9. BEFORE STARTING WORK, ELECTRICAL CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ARCHITECT/ENGINEER SHOP DRAWINGS, BROCHURES, INSTALLATION INSTRUCTIONS, AND DESCRIPTIVE EQUIPMENT DATA RELATED TO SPECIFIED EQUIPMENT, WIRING DEVICES, AND ACCESSORIES FOR APPROVAL. ELECTRONIC SUBMITTALS (PDF OR SIMILAR) ARE ACCEPTABLE. THE CONTRACTOR SHALL IDENTIFY ANY "LONG LEAD TIME" ITEMS WHICH MAY IMPACT THE OVERALL PROJECT SCHEDULE. ALL BIDS SHALL INCLUDE COSTS ASSOCIATED WITH THE PURCHASE AND DELIVERY OF EQUIPMENT AND MEET THE PROJECT SCHEDULE. EQUIPMENT SHALL BE ORDERED, PURCHASED, OR INSTALLED PRIOR TO THE APPROVAL OF SHOP DRAWINGS, BROCHURES, INSTALLATION INSTRUCTIONS, AND SCHEDULES. APPROVAL BY THE ARCHITECT/ENGINEER IS INTENDED TO ESTABLISH CONFORMANCE WITH THE PROJECT DESIGN CONCEPT AND THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.

10. THE NAMING OF THE MANUFACTURER OR BRAND WITH CATALOG NUMBER OR OTHER PRODUCT IDENTIFICATION WITHOUT THE WORDS "OR EQUAL" IN THE SPECIFICATIONS OR NOTES SHALL INDICATE THAT IT IS THE ONLY PRODUCT APPROVED FOR PURCHASE. IF THE WORDS "OR EQUAL" ARE USED THEY SHALL BE INTERPRETED AS ESTABLISHING A QUALITY OR PERFORMANCE STANDARD FOR THE MATERIAL OR PRODUCT TO BE PURCHASED. THIS SHALL INDICATE THAT THE ELECTRICAL CONTRACTOR IS NOT RESTRICTED TO THE USE OF THE NAMED AND IDENTIFIED PRODUCT IF A SUBSTITUTE APPROVED BY THE ARCHITECT/ENGINEER IS AVAILABLE. HOWEVER, WHERE A SUBSTITUTION IS REQUESTED, IT WILL BE PERMITTED ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. NO SUBSTITUTE MATERIAL OR PRODUCT SHALL BE ORDERED, FABRICATED, SHIPPED OR PROCESSED IN ANY MANNER PRIOR TO THE APPROVAL OF THE ARCHITECT/ENGINEER. THE ELECTRICAL CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ADDITIONAL EXPENSES AS REQUIRED MAKING CHANGES FROM THE ORIGINAL MATERIAL OR PRODUCT SPECIFIED.

11. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SHALL BE SUBJECT TO MINOR MODIFICATIONS AS DIRECTED BY THE GENERAL CONTRACTOR AND OWNER REPRESENTATIVES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT FITTING OF ALL MATERIALS, EQUIPMENT, ETC., IN THE BUILDING AND TENANT SPACE. ALL DIMENSIONS SHALL BE VERIFIED ON THE JOB.

12. DRAWINGS SHALL NOT BE SCALED FOR ROUGH-IN MEASUREMENTS OR USED AS SHOP DRAWINGS. WHERE DIMENSIONS ARE SHOWN ON PLANS OR DETAILS, THESE DIMENSIONS ARE TO BE FIELD-VERIFIED BY THE ELECTRICAL CONTRACTOR AGAINST EXISTING FIELD CONDITIONS. INSTALLATION REQUIREMENTS OF OTHER TRADES, AND THE MANUFACTURER'S SUBMITTALS FOR EQUIPMENT TO BE INSTALLED. SHOULD ANY CONFLICTS ARISE WHICH CANNOT BE EASILY RESOLVED IN THE FIELD WITHOUT CHANGING THE DESIGN INTENT, THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

13. WHILE ALL WORK IS IN PROGRESS, EXCEPT FOR SHORT DESIGNATED INTERVALS DURING WHICH CONNECTIONS ARE TO BE MADE, CONTINUITY OF SERVICE TO ALL EXISTING SYSTEMS SERVING OCCUPIED SPACES SHALL BE MAINTAINED. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH OWNER AT ALL TIMES FOR ALL NEW-TO-EXISTING CONNECTIONS, SYSTEM SHUTDOWNS, AND RESTART-UP.

14. ANY WORK WHICH WILL AFFECT THE BUILDING OCCUPANTS, INCLUDING, BUT NOT LIMITED TO WORK WHICH GENERATES EXCESSIVE NOISE, DUST, SMOKE, OR INCONVENIENCE TO BUILDING OCCUPANTS, SHALL BE PERFORMED AFTER BUSINESS HOURS. UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE BUILDING MANAGER OR OWNER.

15. ELECTRICAL ITEMS AFFECTED BY REMODEL WORK ARE SHOWN ON DRAWINGS ALONG WITH EXISTING ELECTRICAL INSTALLATION. EXISTING ELECTRICAL INSTALLATION SHOWN IS NOT NECESSARILY ALL-INCLUSIVE. RETAIN CIRCUIT CONTINUITY FOR EXISTING ELECTRICAL EQUIPMENT, FIXTURES, AND DEVICES THAT ARE TO REMAIN. SUCH EQUIPMENT SHALL BE RECONNECTED TO EXISTING CIRCUITS OR CONNECTED TO NEW CIRCUITS AS INDICATED ON THE DRAWINGS. ENSURE ALL ELECTRICAL DEVICES IN WORK AREA ARE FULLY FUNCTIONAL. FOR DEVICES OR JUNCTION BOXES LOCATED IN WALLS, THAT MUST REMAIN IN PLACE FOR CIRCUIT CONTINUITY, PROVIDE BLANK COVER PLATES TO MATCH WALL PLATES STYLE IN THE AREA OF WORK. FOR ALL OTHER UNUSED JUNCTION BOXES, REMOVE WIRING AND PROVIDE BLANK COVER PLATE, OR COORDINATE WITH GENERAL CONTRACTOR FOR PATCHING OF WALL TO MATCH ADJACENT SURFACE AS DIRECTED BY ARCHITECT. WHERE EXISTING DEVICES CONFLICT WITH NEW WALL CONSTRUCTION, RELOCATE EXISTING DEVICES AND REWORK CIRCUITRY AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY. DEVICES MAY ONLY BE REMOVED WITH PRIOR APPROVAL FROM THE DESIGN TEAM AND BUILDING MANAGEMENT. COORDINATE FINAL DIRECTIONS WITH ARCHITECT PRIOR TO DEMOLITION.

16. REPORT ANY EXISTING DAMAGED EQUIPMENT OR SYSTEMS TO THE OWNER PRIOR TO BEGINNING THE PROJECT.

17. BEFORE ANY EQUIPMENT IS INSTALLED, DETERMINE THAT SAID EQUIPMENT WILL PROPERLY FIT WITHIN THE SPACE ALLOCATED. INSTALL ALL EQUIPMENT AND MATERIALS IN SUCH A MANNER AS TO PROVIDE REASONABLE ACCESS FOR SERVICING AND MAINTENANCE. ALLOW AMPLE SPACE FOR REMOVAL OF ALL PARTS THAT REQUIRE REPLACEMENT OR SERVICING.

18. MINIMUM WORKING CLEARANCES PER THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE SHALL BE PROVIDED AROUND AND IN FRONT OF ALL ELECTRICAL EQUIPMENT.

19. ALL CIRCUIT BREAKER LUIGS SHALL BE RATED FOR A MINIMUM OF 75 DEGREES CELSIUS.

20. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UNDAMAGED, BEAR THE UL LABEL

WHERE APPLICABLE, AND BE AS SPECIFIED FOR USE IN EACH SPECIFIC LOCATION. ANY INCIDENTAL ACCESSORIES NECESSARY TO COMPLETE THE WORK SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND OPERATION OF A SYSTEM OR EQUIPMENT, SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S ESTIMATE, AS IF SPECIFIED HEREIN OR SHOWN.

21. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF A SYSTEM OR EQUIPMENT, SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S ESTIMATE, AS IF SPECIFIED HEREIN OR SHOWN.

22. ALL NEW, RELOCATED AND EXISTING MATERIALS, IN CEILING PLENUMS NOT ENCLOSED IN CONDUIT SHALL HAVE CLASS, FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS AS REQUIRED FOR USE IN OPEN PLENUMS. REMOVE AND ABLE TO COORDINATE IT WHILE AVOIDING POSSIBLE INTERFERENCE WITH THE ELECTRICAL WORK.

23. COORDINATE THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT ABOVE AND BELOW CEILINGS WITH SUSPENSION SYSTEM, MECHANICAL EQUIPMENT, AND OTHER BUILDING COMPONENTS. ALL COMPONENTS SHALL BE LOCATED AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE CEILING CAVITY SPACE CAREFULLY WITH ALL TRADES.

24. NEUTRALS, RACEWAYS, AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN FULL ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROVIDE HARD WIRE CLEARANCE OF 6" FROM ALL ELECTRICAL EQUIPMENT. INSULATED GROUND WIRE IN EACH CIRCUIT (#12 CU MINIMUM "GREEN" TRACER GROUND). COORDINATE EQUIPMENT GROUNDING CONDUCTOR WIRE SIZE WITH MANUFACTURER REQUIREMENTS.

25. CONDUIT JOINTS SHALL BE CUT SQUARE, THREADED, REAMED SMOOTH, AND DRAWN UP TIGHT. BENDS OR OFFSETS SHALL BE MADE WITH AN APPROVED BENDER OR HICKEY, OR HUB-TYPE CONDUIT FITTINGS. THE NUMBER OF BENDS PER RUN SHALL CONFORM TO THOSE STATED IN CURRENT NEC.

26. WHERE POSSIBLE ALL WIRING SHALL BE RUN CONCEALED. ALL HOME RUNS SHALL BE EMT. CONCEALED CONDUIT SYSTEMS SHALL BE RUN IN A DIRECT LINE WITH LOCAL SWEET BENDS AND OFFSETS. EXPOSED CONDUIT RUNS SHALL BE PARALLEL TO AND AT RIGHT ANGLES TO BUILDING LINES, USING CONDUIT FITTINGS FOR ALL TURNS AND OFFSETS. ALL EMPTY CONDUITS SHALL BE SUPPLIED WITH PULL WIRES AND BUSHINGS.

27. "MC" AND "AC" TYPE CABLE WITH INTERNAL GROUND WIRES SHALL BE PERMITTED FOR BRANCH CIRCUIT WIRING WHERE APPROVED IN WRITING BY BUILDING MANAGEMENT AND THE LOCAL AHJ ONLY AND INSTALLED PER NATIONAL ELECTRICAL CODE AND LOCAL BUILDING DEPARTMENT REQUIREMENTS. USE LISTED AND APPROVED TYPE COUPLINGS AND CONNECTORS. PROVIDE CONDUIT SUPPORTS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AS A MINIMUM.

28. ALL ROOF PENETRATIONS SHALL BE SEALED WATER TIGHT, PROVIDE FLASHING AND COUNTER FLASHING AS REQUIRED. COORDINATE ROOFING WORK WITH THE GENERAL CONTRACTOR.

29. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION AND PULL BOXES TO PROVIDE ACCESS POINTS FOR PULLING AND FEEDING CONDUCTORS INTO A RACEWAY SYSTEM. JUNCTION AND PULL BOXES AND THEIR COVERS SHALL BE FORMED FROM SHEET STEEL AND SHALL BE FINISHED IN GRAY ENAMEL. PULL BOXES SHALL BE IN INDUSTRY STANDARD SIZES. OUTLET BOXES WITH THE CORRECT FITTING FOR THE APPLICATION SHALL BE LOCATED AT EACH CONDUCTOR SPULL POINT, AT EACH OUTLET, SWITCH POINT, OR JUNCTION POINT, AND AT EACH PULL POINT FOR EACH SEPARATE OUTLET BOXES ON OPPOSITE SIDES OF WALLS AND PARTITIONS. MOUNT ELECTRICAL AND COMMUNICATIONS OUTLETS ON WALLS AS CLOSE TOGETHER AS POSSIBLE.

30. ALL NEW SWITCHES, POWER OUTLETS, TELEPHONE OUTLETS, FIRE ALARM DEVICES, AND COMMUNICATIONS OUTLETS SHALL MEET THE REQUIREMENTS FOR AMERICANS WITH DISABILITIES (ADA) MOUNTING HEIGHTS AND ORIENTATIONS, TYPICAL UNLESS OTHERWISE NOTED. RECEPTACLES SHALL BE A MINIMUM OF 15" A.F.F. AND SWITCHES A MAXIMUM OF 48" A.F.F. TO CENTERLINE, TYPICAL UNLESS OTHERWISE NOTED.

31. ALL WALL MOUNTED OUTLETS SHALL BE OFFSET SO THEY ARE NOT BACK TO BACK, FOR SOUND TRANSMISSION PURPOSES. A HORIZONTAL DISTANCE OF AT LEAST 6 INCHES SHALL SEPARATE OUTLET BOXES ON OPPOSITE SIDES OF WALLS AND PARTITIONS. MOUNT ELECTRICAL AND COMMUNICATIONS OUTLETS ON WALLS AS CLOSE TOGETHER AS POSSIBLE.

32. WIRING DEVICES SHALL BE SPECIFICATION GRADE. MINIMUM DEVICE RATING SHALL BE 20 AMPS FOR ALL WIRING DEVICES UNLESS SPECIFICALLY NOTED OTHERWISE. DEVICES WITH DEDICATED CIRCUITS SHALL BE RATED AS REQUIRED BY CIRCUIT LOAD. ISOLATED GROUND RECEPTACLES SHALL BE ORANGE. MATCH COLOR AND TYPE TO EXISTING BUILDING STANDARD. PROVIDE MATCHING NYLON COVER PLATES FOR ALL OUTLETS. ELECTRICAL CONTRACTOR SHALL VERIFY ALL OUTLETS WITH ARCHITECTURAL PLANS AND TENANT BEFORE ORDERING AND PURCHASING OF MATERIALS.

33. FIRE RESISTIVE WALLS AND PARTITIONS MAY HAVE OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES NOT EXCEEDING 16 SQUARE INCHES IN AREA. PROVIDED THE AGGREGATE AREA OF SUCH OPENINGS IS NOT MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL. A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES SHALL SEPARATE OUTLET BOXES ON OPPOSITE SIDES OF FIRE RESISTIVE WALLS AND PARTITIONS.

34. ALL JUNCTION BOX COVERS SHALL BE INDUBLY LABELED WITH PANEL DESIGNATION AND BRANCH CIRCUIT NUMBER OF EACH WIRE WITHIN THE JUNCTION BOX. PANELS/DISCONNECTS/TRANSFORMERS AND SIMLAR MUST BE LABELED WITH THEIR SOURCE AND WITH CALCULATED KVA VALUE/DATE.

35. ALL WIRING SHALL BE COPPER, TYPE THHN OR THWN INSULATION, UNLESS SPECIFICALLY NOTED OTHERWISE. MINIMUM SIZE SHALL BE #12 AWG. CONDUCTORS SHALL BE FACTORY COLOR-CODED WITH WIRE COLOR CODING AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND USING STANDARD CONDUCTOR COLOR CODES:

120/208 VOLTS:

A: BLACK
B: RED
C: BLUE
NEU: WHITE
GND: GREEN
ISO. G: GREEN Y/YELLOW STRIPE

277/480 VOLTS:

A: BROWN
B: RED
C: BLUE
NEU: GRAY
GND: GREEN

36. RECEPTACLES FOR COMPUTERS, COPIERS, AND PRINTERS, WHICH ARE SEMI-DEDICATED, DEDICATED, OR ISOLATED, SHALL HAVE A SEPARATE NEUTRAL AND DEDICATED GROUND CONDUCTOR RUN FROM THE BRANCH CIRCUIT COLOR CODES.

37. ALL JOINTS OR SPLICES FOR 10 AWG. CONDUCTORS OR SMALLER SHALL BE MADE WITH UL-APPROVED WIRE NUTS, OR COMPRESSION-TYPE CONNECTORS.

38. ALL JOINTS OR SPLICES FOR CONDUCTORS 8 AWG AND LARGER SHALL BE MADE WITH A MECHANICAL COMPRESSION OR BOLTED CONNECTION. AFTER THE CONDUCTORS HAVE BEEN MADE MECHANICALLY AND ELECTRICALLY SECURE, THE ENTIRE JOINT OR SPLICE SHALL BE COVERED WITH 3M SCOTCH BRAND NO. 33 TAPE OR APPROVED EQUAL, TO MAKE THE INSULATION VALUE AT THE JOINT OR SPLICE EQUAL TO THE VALUE OF THE CONDUCTOR INSULATION. ALL CONNECTORS SHALL BE UL APPROVED.

39. ALL NEW MULTI-WIRE BRANCH CIRCUITS SHALL INCLUDE SEPARATE NEUTRAL CONDUCTORS OR BREAKER TIES AS REQUIRED BY CURRENT NEC SECTION 210.4 (B).

40. VOLTAGE DROP: THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT VOLTAGE DROP FOR FEEDERS TO DISTRIBUTION EQUIPMENT DOES NOT EXCEED 2% AND VOLTAGE DROP IN BRANCH CIRCUITS DOES NOT EXCEED 3% FOR OVERALL VOLTAGE DROP OF 5% (MAXIMUM). FEEDERS LISTED ON SCHEDULES AND THE ELECTRICAL ONE-LINE DIAGRAM ARE A BASE FEEDER/BRANCH CIRCUIT SIZE AND SHALL BE ADJUSTED AS NEEDED BASED ON ACTUAL LENGTHS OF CONDUCTORS.

41. ELECTRICAL CONTRACTOR SHALL UP SIZE SHARED NEUTRAL CONDUCTOR WITHIN FURNITURE SYSTEMS TO A #10 AWG CU CONDUCTOR. ELECTRICAL CONTRACTOR TO CONSIDER THE NEUTRAL CONDUCTOR AS A CURRENT CARRYING CONDUCTOR WHEN FEEDING ELECTRONIC LOADS.

42. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY FROM STRUCTURE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF LIGHT FIXTURES AND ELECTRICAL DEVICES.

43. FOR ALUMINUM CONDUCTOR TERMINATIONS, ALUMINUM BI-METALLIC PIN CONNECTORS ARE REQUIRED UNLESS COMPACT CONDUCTORS ARE USED. THESE CONNECTORS SHALL BE UL LISTED AND HAD FOR USE UP TO 600V AND TEMPERATURE UP TO 90°C. CONNECTORS SHALL BE INSTALLED WITH MANUFACTURER'S SPECIFIED CRIMPING TOOLS AND DIES.

44. INSTALLATION IN AREAS OF DRYWALL CEILING SHALL BE COORDINATED SUCH THAT

- ACCESS PANELS ARE NOT REQUIRED. ELEMENTS REQUIRING ACCESS SHALL BE LOCATED IN THE AREA OF ACCESSIBLE CEILING OR IN THE LOCATIONS COORDINATED WITH THE ARCHITECT. ACCESS PANELS REQUIRED WITHIN DRYWALL CEILINGS SHALL BE INSTALLED SYMMETRICALLY WITH OTHER PANELS OR DEVICES AND SHALL BE MINIMUM SIZE REQUIRED. "MUD-IN" TYPE, AND FIRE RATED, IF REQUIRED. ACCESS PANELS IN FIRE-RATED WALLS AND CEILINGS SHALL HAVE PROPER UL LABEL AND FIRE RATING LISTING.

45. WALL AND CEILING ROUGH-IN INSTALLATIONS FOR LOW-VOLTAGE CONTROL WIRING OF ANY TYPE SUCH AS DATA/TELECOMMUNICATIONS WIRING, FIRE ALARM WIRING, CONTROL WIRING, SECURITY SYSTEM WIRING, TV CABLING, OPTICAL FIBER CABLING, LIGHTING CONTROLS ETC., SHALL BE COMPLETE AND READY FOR INSPECTION AT THE TIME ELECTRICAL ROUGH-IN INSPECTIONS ARE REQUESTED. ALL SHARP EDGES, CONDUIT ENDS AND METAL STUDS, ETC. FOR LOW-VOLTAGE CABLING SHALL BE PROTECTED BY INSULATED BUSHINGS OR GROMMETS AND SECURELY FASTENED IN THE OPENINGS FOR THE WALL ROUGH-IN INSPECTIONS. WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER (GROUPED CABLES ROUTED WITH SQUARE CORNERS AND PARALLEL TO BUILDING LINES). CABLES SHALL BE INSTALLED PER SYC REQUIRED SEPARATIONS AND SUPPORTED FROM THE BUILDING STRUCTURE. CABLE TIES USED IN DUCTS, PLENUMS, AND OTHER AIR-HANDLING SPACES ARE REQUIRED TO BE LISTED FOR USE IN THESE LOCATIONS.

46. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL ELECTRICAL DEVICES LOCATED WITHIN, ABOVE, OR NEAR MILLWORK WITH ARCHITECTURAL DRAWINGS, "SHOP DRAWINGS", AND MILLWORK CONTRACTOR. MAINTAIN CONSISTENT ALIGNMENT PRACTICES FOR A UNIFORM APPEARANCE. VERIFY ALL OUTLET REQUIREMENTS PRIOR TO ROUGH-IN.

47. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL ROOMS/SPACES WITH MECHANICAL DUCT WORK INSTALLER PRIOR TO ROUGH-IN ABOVE BELOW DUCT WORK (8"-0" A.F.F. MIN.) CENTERED IN ROOM AS MUCH AS POSSIBLE.

48. ELECTRICAL CONTRACTOR SHALL COMPLY WITH NEC AND LOCAL CODES FOR CONDUIT FILL REQUIREMENTS DEPENDING ON WIRE SIZES, QUANTITY, AND CORRECTION FACTORS. COORDINATE WITH LOCAL AUTHORITY HAVING JURISDICTION IF UPGRADE OF THE EXISTING ELECTRICAL INSTALLATION IS REQUIRED. THIS UPGRADE MAY INCLUDE REPLACEMENT OF THE EXISTING CONDUITS AND WIRING AFFECTED BY SCOPE OF THIS PROJECT TO ACCOMMODATE CURRENT CODE CONDUIT FILL AND CORRECTION REQUIREMENTS. INCLUDE COST ASSOCIATED WITH THIS UPGRADE IN THE BID.

49. ELECTRICAL CABINETS AND ENCLOSURES LOCATED IN PUBLIC AREAS SHALL BE LOCKABLE TYPE.

50. PENETRATIONS THROUGH STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT SPECIFIC WRITTEN PERMISSION FROM STRUCTURAL ENGINEER AND ARCHITECT. SUBMIT REQUESTS FOR PENETRATIONS TO ARCHITECT FOR REVIEW AND DISPOSITION. PRIOR TO CORE, DRILLING THROUGH FLOORS, VERIFY CLEARANCE OF BEAMS AND JOISTS. DRILLING THROUGH FLOORS, AND X-RAY FOR CONDUIT AND/OR REBAR IN SLAB. COORDINATE WITH BUILDING MANAGEMENT/OWNER TO INFORM TENANT BEFORE SCHEDULING OF CORE DRILLING AND TO ADVISE CONCERNING PROTECTION FOR ANY SENSITIVE EQUIPMENT PRIOR TO COMMENCEMENT OF WORK. ALL X-RAYS AND CORE DRILLS MUST BE SCHEDULED AND PERFORMED AFTER HOURS UNLESS BUILDING MANAGEMENT/OWNER AUTHORIZES OTHERWISE.

51. RACEWAYS SHALL BE PROVIDED WITH EXPANSION FITTINGS WHERE NECESSARY TO ALLOW FOR THERMAL EXPANSION OF A CONTRACTOR, AND TO ALLOW FOR MINOR MOVEMENT OF THE STRUCTURAL ELEMENTS OF THE BUILDING EXPANSION FITTINGS FOR METAL RACEWAYS SHALL BE MADE ELECTRICALLY CONTINUOUS BY EQUIPMENT BONDING JUMPERS OR OTHER MEANS.

52. PROVIDE TYPEWRITEN, UPDATED PANELBOARD DOOR DIRECTORY FOR ALL AFFECTED PANELS PER NEC 408.4, REFLECTING ACCURATE BRANCH CIRCUIT DESTINATIONS. CLEARLY MARK JUNCTION BOXES IN CEILING SPACE WITH PANEL DESIGNATION AND CIRCUIT NUMBERS. PROVIDE NEW ENGRAVED PLASTIC LABELS TO REPLACE ANY DAMAGED MISLABELED, TEMPORARY OR OTHERWISE ILLEGIBLE EXISTING IDENTIFICATION LABELS FOR DISTRIBUTION EQUIPMENT AFFECTED BY THIS CONTRACT. ATTACH THESE LABELS PERMANENTLY TO EQUIPMENT WITH RIVETS OR SCREWS. ALL PANEL SCHEDULES SHALL INDICATE THE NAME OF THE UPSTREAM PANEL OR SWITCHBOARD PROVIDING POWER.

53. CLEAN EXPOSED PANEL BOARD SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AS REQUIRED AND PROVIDE CLOSURE PLATES FOR VACANT SPACES. ALL NEW PANELS PROVIDED UNDER THIS CONTRACT SHALL BE DOOR-IN-DOOR CONSTRUCTION TYPE, WITH BOLT-ON CIRCUIT BREAKERS AND COPPER BUSHING, UNLESS SPECIFICALLY NOTED OTHERWISE.

54. PROVIDE FIRE STOPPING MATERIAL AND SYSTEMS AS LISTED IN THE UL FIRE RESISTANCE DIRECTORY TO THE FIRE RESISTANCE RATING OF THE WALL, FLOOR, RESPECTIVE WALL OR FLOOR ASSEMBLY FOR ALL PENETRATIONS OF CONDUIT, SLEEVES, WIRING, CABLES AND OTHER ELECTRICAL ITEMS THROUGH FIRE-RATED CORRIDOR WALLS, FIRE RESISTIVE WALLS, FIRE RESISTIVE SHAFTS, AND FLOOR PENETRATIONS.

55. VERIFY ALL SPECIFIC KITCHEN AND BREAK ROOM EQUIPMENT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH IN. COORDINATION SHALL INCLUDE MOUNTING HEIGHTS, CONNECTION TYPE AND POWER REQUIREMENTS. ALL CONNECTIONS FOR KITCHEN EQUIPMENT SHALL BE IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS. PROVIDE CORO AND PLUG FOR DISHWASHERS AND GARBAGE DISPOSER. ALL KITCHEN/BREAK RECEPTACLES SHALL HAVE ACCESSIBLE GFI OR GFI BREAKERS WHERE REQUIRED BY NEC 210.8(B)(2) AND (5).

56. SECURITY: ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND REQUIREMENTS FOR J-BOX ROUGH-INS, CONDUIT RUNS WITH PULL WIRE AND POWER REQUIREMENTS FOR SECURITY SYSTEM WITH SECURITY SYSTEM CONTRACTOR PRIOR TO ROUGH-IN. THE SECURITY SYSTEM CONTRACTOR SHALL ALSO COORDINATE WORK WITH FIRE ALARM CONTRACTOR FOR COORDINATION OF THE INTERCONNECTION OF THE SECURITY ALARM SYSTEM AS REQUIRED PER LOCAL CODES AND FIRE DEPARTMENT REGULATIONS.

57. AUDIO-VISUAL EQUIPMENT: ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND REQUIREMENTS FOR I-BOX ROUGH-IN, CONDUIT RUNS WITH PULL WIRE, REQUIRED PENETRATIONS, AND POWER REQUIREMENTS FOR AUDIO-VIDEO EQUIPMENT WITH AUDIO-VIDEO CONTRACTOR PRIOR TO ROUGH-IN.

58. COORDINATE CONTROL OF LUMINAIRES IN BUILDING COMMON CORRIDOR AREAS WITH BUILDING MANAGEMENT.

59. EXISTING LIGHT FIXTURES TO BE RELOCATED: LUMINAIRE SCHEDULED TO BE RELOCATED SHALL BE CONSIDERED NEW AND SHALL BE ETDRE RETROFITTED WITH AN INDIVIDUAL DISCONNECTING MEANS WHICH SIMULTANEOUSLY DISCONNECTS ALL BALLAST CONDUCTORS FROM THE SOURCE OF SUPPLY OR RETROFITTED WITH NEW BALLASTS AND LAMP POSTS COMPLYING WITH THE REQUIREMENTS SET IN NEC 410.130 (C) THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THEIR BID A SEPARATE LINE ITEM COST FOR EACH LUMINAIRE RETROFIT. FIELD VERIFY QUANTITY UPON AWARD OF BID AND ADJUST PRICE ACCORDINGLY.

60. UNLESS OTHERWISE INDICATED ON THE PLANS, ELECTRICAL CONTRACTOR SHALL PROVIDE A #6 STRANDED COPPER INSULATED EQUIPMENT GROUNDING CONDUCTOR AT EACH PERMANENTLY INSTALLED SERVER RACK IN THE PROJECT AREA. THIS CONDUCTOR SHALL BE GROUNDING CONDUCTOR (GFCI) BACK TO THE RACK, ROUTED IN A NEAT MANNER AWAY FROM THE RACK AND INTO THE ACCESSIBLE CEILING, AND BONDED TO BUILDING STEEL OR THE COPPER WATER SERVICE, WHICHEVER IS CLOSER.

61. CODE REQUIRED MAINTENANCE RECEPTACLES FOR MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE GFCI.

62. E.G. TO PROVIDE FOR ARC-FLASH HAZARD AND FAULT CURRENT LABELING PER THE NEC, AND TO PROVIDE FOR ARC-ENERGY REDUCTION IN ANY OCPD THAT CAN BE SET FOR 1200A OR HIGHER.
- ALIGN

ADA STROBE

THERMOSTAT

LIGHT SWITCH

CARD READER

ELECTRICAL OUTLET

4'-0"

4'-0"

6"
- DEVICE AT DOOR LOCATION (TYP)

SCALE: NONE

FIRE ALARM SYSTEM

1. GENERAL CONTRACTOR SHALL SOLICIT BIDS FROM BUILDING OWNER'S DESIGNATED FIRE ALARM CONTRACTOR FOR DESIGN AND INSTALLATION OF AN APPROVED FIRE ALARM SYSTEM AND DEVICES WHICH SHALL COMPLY WITH ALL APPLICABLE CODES AND ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. (GENERAL CONTRACTOR SHALL VERIFY WITH BUILDING MANAGEMENT/OWNER CONCERNING DESIGNATED FIRE ALARM CONTRACTOR).

2. REQUIRED MODIFICATIONS TO EXISTING FIRE ALARM SYSTEM SHALL BE PROVIDED ON A DESIGN/BUILD BASIS BY FIRE ALARM CONTRACTOR. PRIOR TO BIDDING, FIRE ALARM CONTRACTOR SHALL FIELD VERIFY EXISTING FIRE ALARM SYSTEM CAPABILITY AND FIRE ALARM DEVICE LOCATIONS IN THIS SCOPE OF WORK. IF REQUIRED BY LOCAL JURISDICTION, FIRE ALARM SYSTEM SHALL BE UPGRADED TO MEET CURRENT CODES. FIRE ALARM CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AND EQUIPMENT BROCHURES TO AUTHORITIES HAVING JURISDICTION, SUCH AS FIRE DEPARTMENT, BUILDING DEPARTMENT, ETC., AS REQUIRED, FOR REVIEW AND APPROVAL. CONTRACTOR SHALL ALSO PROVIDE THE ENGINEER WITH ONE (1) SET OF DRAWINGS, CALCULATIONS AND EQUIPMENT SUBMITTALS FOR HIS REVIEW AND RECORD.

3. IF REQUIRED, RELOCATE EXISTING SMOKE DETECTORS, REMOTE INDICATOR LIGHTS, FIRE ALARM HORNS, STROBES, SPEAKERS, ETC., BASED ON REMODELED AREA MODIFICATION, AND RECONNECT TO EXISTING SYSTEM AS REQUIRED. NEW FIRE ALARM DEVICES SHALL BE OF THE SAME MANUFACTURER AS THE EXISTING DEVICES AND SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE ADDITIONAL CONDUCTORS, ZAM'S IAW'S AND OTHER EQUIPMENT NECESSARY IN ORDER TO EXPAND SYSTEM AS REQUIRED. PROVIDE SYNCHRONIZING MODULES FOR DEVICES. IF REQUIRED, REPAIR AND/OR REPLACE EXISTING FIRE ALARM DEVICES THAT ARE NOT CURRENTLY BUILDING STANDARD OR COMPATIBLE WITH NEW BUILDING STANDARD FIRE ALARM DEVICES. PRIOR TO PURCHASING FIRE ALARM DEVICES, PROVIDE CUT SHEETS, SHOP DRAWINGS, AND SEQUENCE OF OPERATION TO BUILDING MANAGEMENT AND FIRE PREVENTION BUREAU FOR THEIR APPROVAL AND TO ENGINEER FOR HIS REVIEW.

4. PROVIDE NEW BUILDING STANDARD FIRE ALARM STROBES, ADA HIGH INTENSITY, COMPATIBLE WITH EXISTING OR NEW FIRE ALARM SYSTEM AS REQUIRED. MODIFY EXISTING FIRE ALARM CIRCUIT CONDUCTORS AND FIRE ALARM PANELS PER
- MANUFACTURER'S REQUIREMENTS. MOUNT STROBES +8"0" A.F.F. OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. REPLACE EXISTING STROBE LIGHTS WITH NEW BUILDING STANDARD STROBE LIGHTS, AND ENSURE ALL STROBE LIGHTS ARE SYNCHRONIZED.

5. FIRE ALARM CONTRACTOR SHALL FURNISH DUCT DETECTORS (120V OR 24V), WITH REMOTE INDICATING LIGHT AND TEST SWITCH, FOR ALL MECHANICAL AIR-MOVING SYSTEMS WHERE REQUIRED BY CODE OR LOCAL AUTHORITIES. DETECTORS SHALL BE OF THE SAME MANUFACTURER AS EXISTING FIRE ALARM SYSTEM. FIRE ALARM MECHANICAL CONTRACTOR SHALL INSTALL DETECTORS IN THE MECHANICAL DUCTWORK, AS REQUIRED BY CODE, TO FACILITATE MOTOR SHUTDOWN UPON DETECTION OF SMOKE. ELECTRICAL CONTRACTOR SHALL HARWARE DETECTOR TO THE FAN MOTOR (THROUGH A POWER-INTERLOCK RELAY) FOR DETECTION OF SMOKE. AND IF REQUIRED BY CODE, THE FIRE ALARM CONTRACTOR SHALL CONNECT TO FIRE ALARM SYSTEM AS TROUBLE ALARM. COORDINATE ALL REQUIREMENTS AND SPECIFICATIONS WITH BUILDING ENGINEER OR BUILDING FIRE ALARM REPRESENTATIVE. SUBMIT DRAWINGS AND EQUIPMENT CUT SHEETS FOR ENGINEERS' REVIEW AND FIRE DEPARTMENT APPROVAL.

6. IF A PRE-ACTION DRY PIPE SPRINKLER SYSTEM IS REQUIRED FOR THIS PROJECT, THE FIRE ALARM CONTRACTOR SHALL PROVIDE A FIRE ALARM SYSTEM CONTROL PANEL (FACP) IN THE FIRE COMMAND CENTER (FCC).

7. IF THE PROJECT REQUIRES A UPS SYSTEM AND COMPUTER ROOM AIR CONDITIONING (CRAC) UNITS, THE UPS SYSTEM AND CRAC UNITS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM AND TO THE PRE-ACTION FIRE ALARM CONTROL PANEL. THE UPS SYSTEM, CRAC UNITS, AND FIRE/SMOKE DAMPERS SERVING THE COMPUTER ROOM SHALL BE SHUT DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM. PROVIDE INTERFACE WIRING AS REQUIRED. PROVIDE WIRING FROM CRAC UNIT TO MOUNTED SENSORS OR SITE MONITORING SYSTEM IF IT IS PROVIDED UNDER MECHANICAL CONTROL AND ALARM SECTION. THE CRAC UNITS SHALL SHUT DOWN AND ALARM UPON DUCT DETECTOR ACTIVATION AS PART OF UL SYSTEM. COORDINATE ALL OF THE ABOVE WITH APPROPRIATE UPS, PDU AND CRAC UNIT MANUFACTURERS.

COMMUNICATIONS SYSTEMS

1. ELECTRICAL CONTRACTOR SHALL FULLY FIELD COORDINATE COMMUNICATIONS SYSTEM INSTALLATION (DEVICES AND CABLING) WITH TENANT REPRESENTATIVE PRIOR TO ROUGH IN AND PURCHASING OF MATERIALS.

2. AT TELEPHONE AND DATA SERVICE POINT FOR EACH MODULAR FURNITURE GROUPING, THE ELECTRICAL CONTRACTOR SHALL PROVIDE 4" SQUARE DEEP STEEL JUNCTION BOX WITH TWO 1" CONDUITS (OR AS OTHERWISE SPECIFIED ON PLAN, OR BY DATA/TELECOMMUNICATIONS CONTRACTOR) WITH PULL WIRE. STUB CONDUITS ABOVE CEILING LINE AND PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS. CABLING SHALL BE PULLED AND WIRED BY OTHERS. COORDINATE ALL WORK WITH DATA/TELECOMMUNICATIONS CONTRACTOR PRIOR TO ROUGH-IN.

3. ALL DATA AND TELECOMMUNICATIONS CABLING SHALL BE INSTALLED BY TENANT'S VENDOR.

4. FOR EACH NEW SINGLE TELEPHONE/DATA OR TV CABLE OUTLET SHOWN MOUNTED IN WALL, ELECTRICAL CONTRACTOR SHALL PROVIDE A 4" SQUARE DOUBLE-GANG STEEL JUNCTION BOX WITH SINGLE-GANG PLASTER RING AND A 3/4" CONDUIT (OR AS OTHERWISE SPECIFIED BY SYSTEM INSTALLER) WITH PULL WIRE. STUB CONDUIT 6" INTO CEILING SPACE AND PROVIDE PLASTIC BUSHINGS. CABLING SHALL BE PULLED BY OTHERS. COORDINATE ALL WORK WITH DATA/TELECOMMUNICATIONS CONTRACTOR PRIOR TO ROUGH-IN.

5. IF REQUESTED, ELECTRICAL CONTRACTOR SHALL REMOVE ALL ABANDONED AND UNUSED DATA/TELECOMMUNICATIONS CABLING, CONDUIT, JUNCTION BOXES, AND
- ASSOCIATED WIRING LOCATED IN THE CEILING SPACE BACK TO POINT OF ORIGIN, UNLESS THE TENANT DATA/TELECOMMUNICATIONS CONTRACTOR IS CONTRACTED TO REMOVE THE DATA/TELECOMMUNICATIONS CABLING UNDER A SEPARATE CONTRACT. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE CONTRACTOR FOR THE REMOVAL OF THE PHONE/DATA CABLING. PRIOR TO DISCONNECTING AND REMOVING ANY EQUIPMENT, DEVICES OR CABLING, THE APPROPRIATE CONTRACTOR SHALL COORDINATE WITH OWNER AND ARCHITECT TO ENSURE EQUIPMENT SHALL BE REMOVED.

6. ELECTRICAL CONTRACTOR SHALL VERIFY QUANTITY AND TYPE OF DATA/PHONE/AUDIO/VIDEO PORTS TO BE INCLUDED IN FLOOR POKE-THRU DEVICES WITH DATA/TELECOMMUNICATIONS CONTRACTOR PRIOR TO ORDERING.

7. VERIFY ALL SPECIFIC COMPUTER AND COMMUNICATIONS EQUIPMENT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH IN. COORDINATION SHALL INCLUDE MOUNTING HEIGHTS, CONNECTION TYPE AND POWER REQUIREMENTS. ALL CONNECTIONS FOR COMPUTER EQUIPMENT SHALL BE IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS.

RECORD DOCUMENTS

1. RECORD DOCUMENTS: THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL DEVIATIONS IN WORK AS INSTALLED FROM WORK SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS AND IDENTIFY ORIGIN OF CHANGE.

2. KEEP A COMPLETE SET OF RECORD DOCUMENT PRINTS IN CUSTODY DURING ENTIRE PERIOD OF CONSTRUCTION AT THE CONSTRUCTION SITE, ON COMPLETION OF THE PROJECT, TWO COMPLETE SETS OF MARKED-UP PRINTS SHOWING THESE DEVIATIONS SHALL BE DELIVERED TO GENERAL CONTRACTOR AND ARCHITECT/ENGINEER. THIS CONTRACT WILL NOT BE CONSIDERED COMPLETED UNTIL THESE RECORD DRAWINGS HAVE BEEN RECEIVED AND REVIEWED BY THE ENGINEER. DOCUMENTS TO INCLUDE ALL O & M MANUALS AND INSTRUCTIONS.
1. RECORD DOCUMENTS: THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL DEVIATIONS IN WORK AS INSTALLED FROM WORK SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS AND IDENTIFY ORIGIN OF CHANGE.

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ELECTRICAL SYMBOLS LEGEND

| LIGHTING | |
|----------|---|
| SYMBOL | DESCRIPTION |
| | SHADING INDICATES CONNECTION TO EMERGENCY CIRCUIT OR BATTERY-POWERED BACKUP |
| | 2x4' LIGHT FIXTURE |
| | 2x2' LIGHT FIXTURE |
| | 1x4' LIGHT FIXTURE |
| | NARROW PENDANT FIXTURE |
| | PENDANT FIXTURE |
| | WALL BRACKET FIXTURE |
| | DOWNLIGHT FIXTURE |
| | WALL MOUNTED FIXTURE |
| | TRACK LIGHTING |
| | COMBINATION LIGHT AND EXHAUST FAN |
| | PHOTOCELL |
| | EXIT SIGN |
| | EMERGENCY BATTERY PACK FIXTURE |
| | STRIP FIXTURE |
| | UNDER CABINET FIXTURE |
| | POLE MOUNTED OUTDOOR FIXTURE |
| | REMOTE EMERGENCY LIGHT HEAD |












| SWITCHING | |
|-----------|----------------------------|
| SYMBOL | DESCRIPTION |
| | S SINGLE POLE SWITCH |
| | S2 DOUBLE POLE SWITCH |
| | S3 THREE WAY SWITCH |
| | S4 FOUR WAY SWITCH |
| | Sd DIMMER SWITCH |
| | Sk KEYED SWITCH |
| | St THERMAL OVERLOAD SWITCH |
| | Sg GANGED SWITCHES |

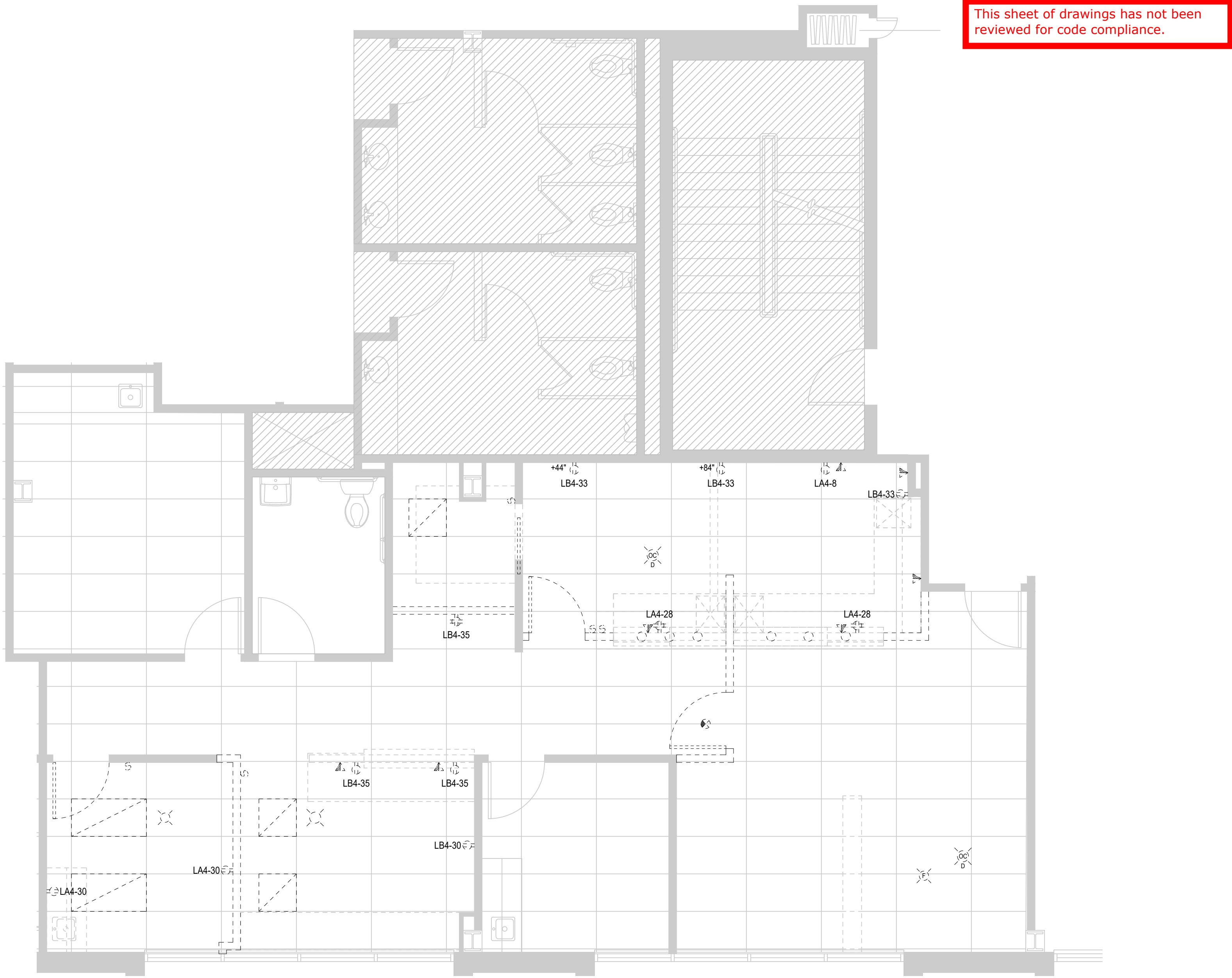
| COMMUNICATION | |
|---------------|------------------------------------|
| SYMBOL | DESCRIPTION |
| | WALL CEILING FLOOR |
| | COMBINATION DATA/ TELEPHONE OUTLET |
| | CRT OR DATA OUTLET |
| | TELEPHONE OUTLET |
| | TV OUTLET |

| ABBREVIATIONS | |
|---------------|----------------------------------|
| ABBR. | DESCRIPTION |
| AF | ABOVE FINISHED FLOOR |
| ACC | ABOVE COUNTER |
| GFI | GROUND FAULT CIRCUIT INTERRUPTER |
| GND | GROUND |
| IG | ISOLATED GROUND |
| NL | NIGHT LIGHT |
| RL | RELOCATED DEVICE OR EQUIPMENT |
| WP | WEATHER PROOF |
| EM | EMERGENCY |
| HD | HEAVY DUTY |
| TR | TEMPER RESISTANT |
| EG | EGRESS LIGHTING |
| X | AUTOMATICALLY CONTROLLED DEVICE |

| POWER | |
|--------|------------------------------------|
| SYMBOL | DESCRIPTION |
| | WALL CEILING FLOOR |
| | JUNCTION BOX |
| | DUPLEX RECEPTACLE |
| | DEDICATED DUPLEX RECEPTACLE |
| | DOUBLE DUPLEX RECEPTACLE |
| | DEDICATED DOUBLE RECEPTACLE |
| | SPECIAL PURPOSE RECEPTACLE |
| | CONTACTOR |
| | SIMPLEX RECEPTACLE |
| | PUSH BUTTON |
| | NEW ELECTRICAL PANEL |
| | EXISTING ELECTRICAL PANEL |
| | DEMO ELECTRICAL PANEL |
| | DISCONNECT, NON FUSED |
| | GROUND BAR |
| | MOTOR |
| | TIME CLOCK |
| | POWER WATER |
| | POWER POLE |
| | PLUG MOLD |
| | WIRE MOLD |
| | DISCONNECT, FUSED |
| | PULL BOX |
| | TRANSFORMER |
| | METER |
| | SWITCHBOARD |
| | COMBINATION POWER/CORRAL FLOOR BOX |

| FIRE ALARM AND SECURITY | |
|-------------------------|-------------------------|
| SYMBOL | DESCRIPTION |
| | THERMOSTAT |
| | DUCT DETECTOR |
| | MOTION SENSOR |
| | HEAT DETECTOR |
| | CONTROL PANEL |
| | MANUAL PULL STATION |
| | REMOTE LAMP |
| | FIRE/SMOKE DAMPER |
| | ANNUNCIATOR PANEL |
| | CARD READER |
| | SECURITY CAMERA |
| | DOOR HOLDER |
| | WALL CEILING |
| | SMOKE DETECTOR |
| | FIRE HORN STROBE LIGHT |
| | FIRE ALARM STROBE LIGHT |
| | PAGER OR MUSIC SPEAKER |
| | FIRE ALARM SPEAKER |

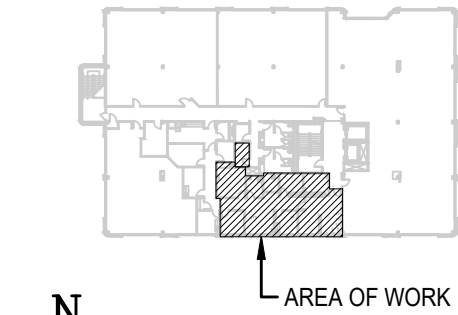
| COMMUNICATION | | | |
|---|--|---|---------------------------------------|
| SYMBOL | | | DESCRIPTION |
| WALL | CEILING | FLOOR | |
|  |  CLG. |  | COMBINATION DATA/ TELEPHONE OUTLET |
|  |  CLG. |  | CRT OR DATA OUTLET |
|  |  CLG. |  | TELEPHONE OUTLET |
|  |  CLG. | | TV OUTLET |



DEMOLITION PLAN

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

- GENERAL NOTES:
- A. REMOVED ITEMS SHOWN AS DASHED AND LIGHT.
 - B. E.C. TO REMOVE ALL ABANDONED CONDUIT/CABLING/WIRING FROM SPACE INCLUDING ABOVE THE CEILING BACK TO SOURCE. ANY CIRCUITS MADE SPARE TO BE TURNED OFF AND LABELED AS SUCH WITH NEW TYPED PANEL SCHEDULES.
 - C. RETURN LIGHTING FIXTURES NOT REUSED TO PROPERTY MANAGEMENT STOCK.
 - D. PROTECT CIRCUITS AFFECTED BY DEMOLITION THAT HAVE DEVICES REMAINING AFTER DEMOLITION.
 - E. PROTECT ANY DEMOLISHED FIRE ALARM DEVICES AND EXIT SIGNS FOR RELOCATION. RETURN ANY UNUSED DEVICES TO BUILDING MANAGEMENT.



KEY PLAN



20241102

Speculative Suite 430

Dates of Record

Project Start Date: 07 June 2023

Issued On Issued For

08/28/2024 CLIENT REVIEW

| | |
|----------------|-------------|
| Sheet | DEMOLITION |
| Contents | PLAN |
| Project Team | TR/AW |
| Project Number | 20241102.00 |
| Sheet | E1.0 |
| Mark | |



COLORADO

Denver Office:

7822 South Whiting Ct, Ste B,

Aurora, CO 80012

303-694-1257

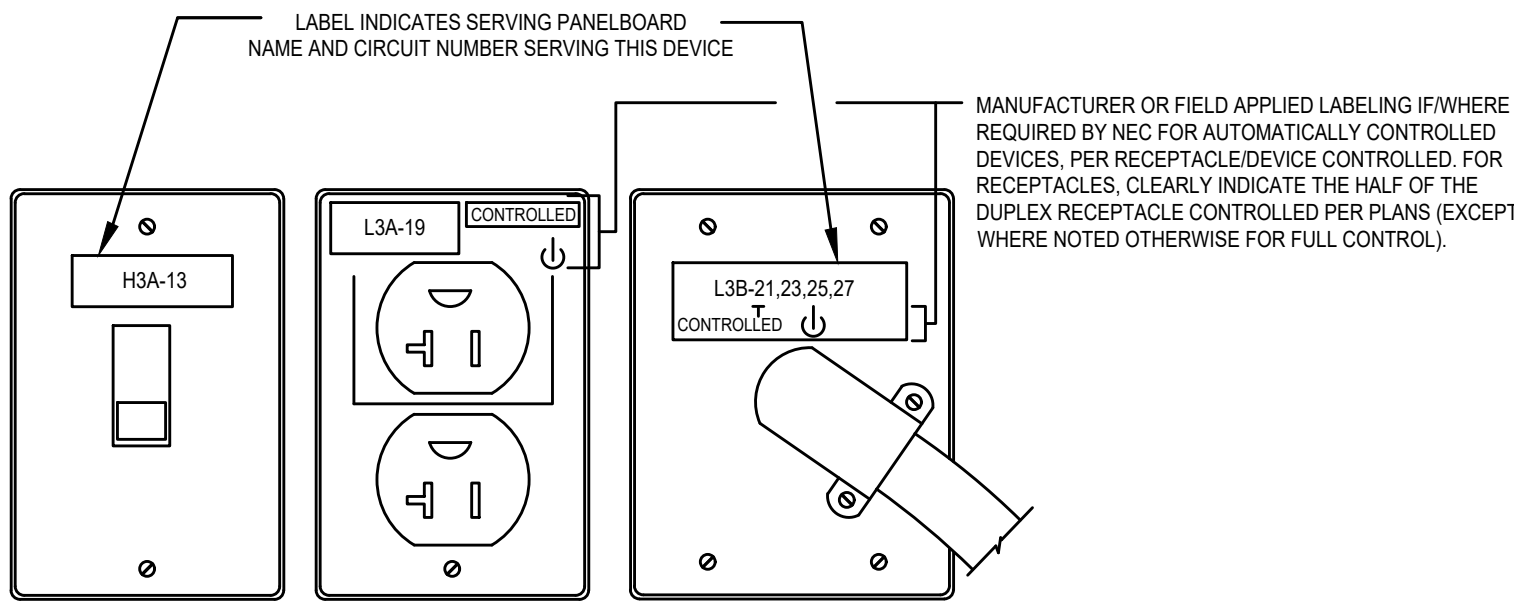
POWERED BY

Primera

NEC: 2023

IECC: 2021

1411 S Potomac
1411 S Potomac
Aurora, CO 80012
Suite 430



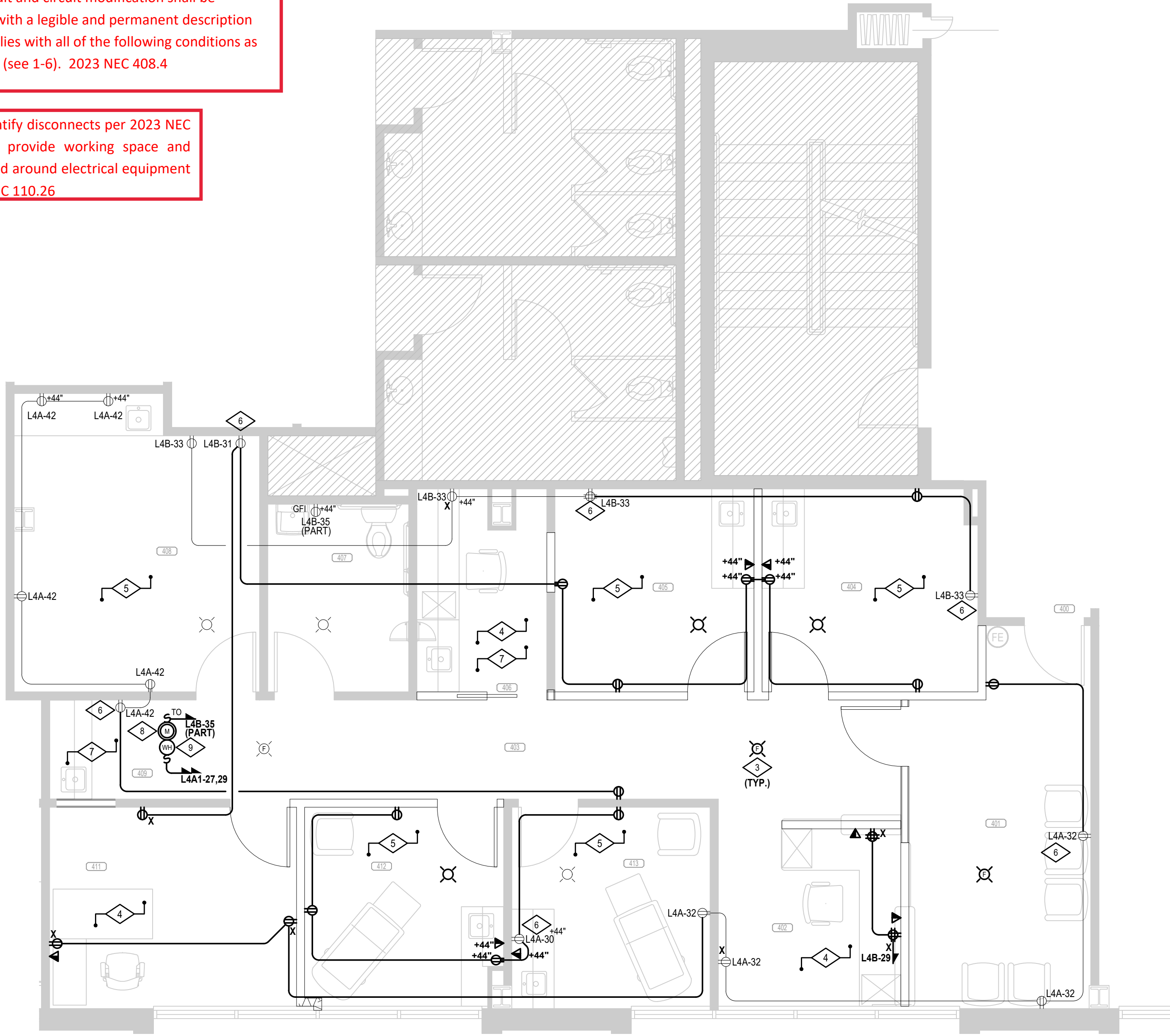
TYPICAL DEVICE LABELING DETAIL

SCALE: NONE
 GENERAL NOTES:
 A. E.C. TO PROVIDE DESCRIPTION OF USE/FUNCTION OF ANY/ALL CONTROLLED RECEPTACLES TO TENANT.

| Room Schedule | | | |
|---------------|-----------------|-----|--------------|
| 400 | Public Corridor | 407 | Ext Restroom |
| 401 | Waiting | 408 | Procedure |
| 402 | Reception | 409 | Work Area |
| 403 | Hallway | 410 | ---- |
| 404 | Exam | 411 | Office |
| 405 | Exam | 412 | Exam |
| 406 | IA | 413 | Exam |

Every circuit and circuit modification shall be provided with a legible and permanent description that complies with all of the following conditions as applicable (see 1-6). 2023 NEC 408.4

110.14. Identify disconnects per 2023 NEC 110.22 and provide working space and egress to and around electrical equipment per 2023 NEC 110.26



POWER PLAN

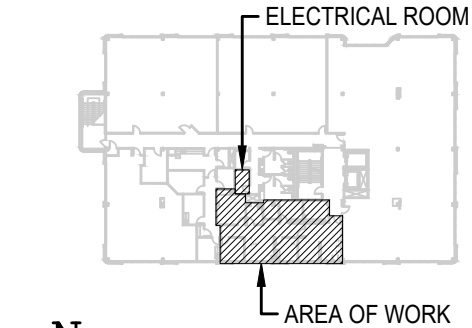
SCALE: 1/4"=1'-0"
 GENERAL NOTES:
 A. NEW AND RELOCATED ITEMS SHOWN AS BOLD
 EXISTING ITEMS SHOWN AS LIGHT
 B. FOR AREAS WITH RECEPTACLES REQUIRING GFCI: GFCI BREAKERS TO MATCH THE PANEL MANUFACTURER AND AIC RATING (UNLESS NOTED FOR DEADFRONT GFI), SHALL BE UTILIZED ON EQUIPMENT WHERE GFCI RECEPTACLES ARE NOT READILY ACCESSIBLE, INCLUDING UNDER COUNTER AND BEHIND ANY APPLIANCES. ALSO, FOR ANY CONTROLLED OUTLETS, WHERE INDICATED, PER 2021 IECC: GFI RECEPTACLES (OR BREAKERS WHERE NOT READILY ACCESSIBLE) REQUIRED FOR ON-GRADE FLOORBOXES PER CODE. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL THESE CIRCUITS. FOR EXISTING RECEPTACLES ALSO PROVIDE A GFCI BREAKER WHERE NOT READILY ACCESSIBLE. E.C. TO VERIFY CIRCUITS/ACCESSIBILITY FOR WHERE NEW BREAKERS ARE REQUIRED, AND NOT SHOWN IN SCHEDULES. FOR ANY PANELS WITH AIC VALUE EXCEEDING ITS RATING, PROVIDE A DEADFRONT GFCI INSTEAD OF A BREAKER (10K SCCR RATING, READILY ACCESSIBLE AND GREATER THAN 7' CONDUCTOR LENGTH FROM PANEL ASSUMING WORST CASE 20A/1PH FAULT DISTANCE).
 C. TO COMPLY WITH NEC 517 IN PATIENT CARE AREAS INDICATED (ESPECIALLY 517.13 AND 517.61(C)), INCLUDING: PROVIDE HOSPITAL-GRADE RECEPTACLES FOR ALL DEVICES IN THIS ROOM. ALL BRANCH CIRCUITS (INCLUDING LIGHTING) IN THIS AREA SHALL BE RUN ENTIRELY IN EMT CONDUIT IN ORDER TO UTILIZE CONDUIT AS REDUNDANT GROUND PER CODE REQUIREMENTS OR PROVIDE GREEN HOSPITAL-GRADE AC/MC CABLE FOR REDUNDANT GROUND. PROVIDE EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT. PROVIDE GFCI DEVICES THROUGHOUT. GFCI BREAKERS TO MATCH THE PANEL MANUFACTURER AND AIC RATING (UNLESS NOTED FOR DEADFRONT GFI). SHALL BE UTILIZED ON EQUIPMENT WHERE GFCI RECEPTACLES ARE NOT READILY ACCESSIBLE, INCLUDING UNDER COUNTER AND BEHIND ANY APPLIANCES. REQUIRED FOR FLOORBOXES PER CODE. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL THESE CIRCUITS. FOR EXISTING RECEPTACLES ALSO PROVIDE A GFCI BREAKER WHERE NOT READILY ACCESSIBLE. E.C. TO VERIFY CIRCUITS/ACCESSIBILITY FOR WHERE NEW BREAKERS ARE REQUIRED, AND NOT SHOWN IN SCHEDULES. FOR ANY PANELS WITH AIC VALUE EXCEEDING ITS RATING, PROVIDE A DEADFRONT GFI INSTEAD OF A BREAKER (10K SCCR RATING, READILY ACCESSIBLE AND GREATER THAN 7' CONDUCTOR LENGTH FROM PANEL ASSUMING WORST CASE 20A/1PH FAULT DISTANCE).
 D. CONNECT TO EXISTING CIRCUIT SHOWN.

DETAIL NOTES

1. E.C. TO PROVIDE ADHESIVE LABEL WITH CIRCUIT NUMBER ON RECEPTACLES. COORDINATE STYLE OF LABEL WITH PROPERTY MANAGEMENT PRIOR TO INSTALLING. SEE TYPICAL DEVICE LABELING DETAIL.
 2. E.C. TO PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL OFFICES, WAITING ROOMS, OUTPATIENT FACILITIES, AND CORRIDORS THROUGHOUT PER NEC 406.12.
 3. NEW FIRE ALARM DEVICE, SEE FIRE ALARM GENERAL NOTES.
 4. NEW/EXISTING RECEPTACLES AND/OR FURNITURE CIRCUITS TO BE CONTROLLED BY SENSORS IN THIS ROOM/AREA PER 2021 IECC/SENSOR SCHEDULE/FURNITURE SCHEDULE WHERE INDICATED.
 5. E.C. TO VERIFY CIRCUITS/ACCESSIBILITY FOR WHERE NEW BREAKERS ARE REQUIRED, AND NOT SHOWN IN SCHEDULES. PROVIDE A DEADFRONT GFI INSTEAD OF A BREAKER (10K SCCR RATING, READILY ACCESSIBLE AND GREATER THAN 7' CONDUCTOR LENGTH FROM PANEL ASSUMING WORST CASE 20A/1PH FAULT DISTANCE). FOR CONTROLLED RECEPTACLES PER 2021 IECC, USE GFI BREAKER ONLY REGARDLESS OF ACCESSIBILITY IF USING A RECEPTACLE THAT CANT BE HALF SWITCHED GFI.
 6. PROVIDE GFCI PROTECTION PER NEC 210.8 IN THIS AREA FOR APPLIANCES/RECEPTACLES WITHIN 6' OF THE SINK. GFCI BREAKERS TO MATCH THE PANEL MANUFACTURER AND AIC RATING (UNLESS NOTED FOR DEADFRONT GFI), SHALL BE UTILIZED ON EQUIPMENT WHERE GFCI RECEPTACLES ARE NOT READILY ACCESSIBLE, INCLUDING UNDER COUNTER AND BEHIND ANY APPLIANCES. REQUIRED FOR FLOORBOXES PER CODE. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL THESE CIRCUITS. FOR EXISTING RECEPTACLES ALSO PROVIDE A GFCI BREAKER WHERE NOT READILY ACCESSIBLE. E.C. TO VERIFY CIRCUITS/ACCESSIBILITY FOR WHERE NEW BREAKERS ARE REQUIRED, AND NOT SHOWN IN SCHEDULES. PROVIDE A DEADFRONT GFI INSTEAD OF A BREAKER (10K SCCR RATING, READILY ACCESSIBLE AND GREATER THAN 7' CONDUCTOR LENGTH FROM PANEL ASSUMING WORST CASE 20A/1PH FAULT DISTANCE).
 7. NEW 10W RECIRCULATION PUMP, 120V. CONNECT THROUGH THERMAL SWITCH USING 2-#12 CU AND #12 GND IN 3/4". SEE MECHANICAL PLANS FOR DETAILS.
 8. NEW 3000W WATER HEATER, 208V. CONNECT THROUGH NEW DISCONNECT SWITCH USING 3-#12CU-#12GND IN 3/4". SEE MECHANICAL PLANS FOR DETAILS. COORDINATE FINAL LOCATION WITH ARCHITECT/TENANT.

ELECTRICAL ROOM

SCALE: 1/8"=1'-0" (NO NEW WORK)



KEY PLAN

| SYSTEM FURNITURE SCHEDULE & CONNECTION NOTES | | | | | | | |
|---|------------------|------|------------------|------|---|------|---------------------|
| 1. ELECTRICAL CONTRACTOR SHALL FULLY FIELD COORDINATE FURNITURE SYSTEM WORK STATION REQUIREMENTS WITH TENANT REPRESENTATIVES AND ACTUAL FURNITURE SYSTEM SUPPLIED. PROVIDE CIRCUITS, TELEPHONE/DATA OUTLETS, AND CONDUIT PER CODES BELOW. MULTIWIRE NEUTRALS SHALL BE MIN #10AWG. STUB TELEPHONE/DATA CONDUIT UP 6" INTO ACCESSIBLE CEILING SPACE. PROVIDE PULL WIRE IN CONDUIT AND PLASTIC BUSHINGS ON CONDUIT ENDS. TELEPHONE/DATA CABLING AND DEVICES SHALL BE PROVIDED BY TENANT COMMUNICATIONS SYSTEM VENDOR UNDER SEPARATE CONTRACT. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO FURNITURE SYSTEM WITH "SEALTIGHT" FLEXIBLE CONDUIT WHIPS. COORDINATE EXACT LOCATIONS, CONDUIT ROUTING, AND REQUIREMENTS WITH ARCHITECTURAL PLANS, PROPERTY MANAGEMENT, AND FURNITURE SYSTEM SUPPLIER PRIOR TO ROUGH IN. CORE DRILLING AND ORDERING OF EQUIPMENT, (TYPICAL). • WALL: PROVIDE TWO FOUR INCH SQUARE (DOUBLE GANG) WALL MOUNTED JUNCTION BOXES FOR POWER AND DATA. MOUNT OUTLETS AT +15" A.F.F. • FLOOR: PROVIDE FULLY ASSEMBLED FIRE-RATED POKE-THRU PER CODE BELOW, OR EQUAL. COORDINATE COVER COLOR WITH ARCHITECT. ELECTRICAL CONTRACTOR SHALL PROVIDE X-RAYING OF FLOOR PRIOR TO CORE DRILL. ROUTE COMM CONDUIT TO NEAREST FULL HEIGHT ACCESSIBLE WALL. CORES TO BE 2" APART ON CENTER MINIMUM, AND MAXIMUM 1 FOR EVERY 65SF OF OVERALL FLOOR AREA. • POWER POLE: WIREMOLD #30TP-2V OR EQUAL. PROVIDE TWO FOUR INCH SQUARE (DOUBLE GANG) JUNCTION BOXES ABOVE CEILING FOR POWER AND DATA. PROVIDE DATA GROMMET SIZED PER COMM CONDUIT CODE. • SWITCHED RECEPTACLE: WHERE DESIGNATED, PROVIDE A HALF SWITCHED RECEPTACLE FOR DUPLEX DEVICES, AND ONE REGULAR/ONE FULLY SWITCHED RECEPTACLE FOR QUADRUPLUX DEVICES. TO BE CONTROLLED BY OCCUPANCY/VACANCY SENSORS IN THE ROOM (AS OCCUPANCY). USE A RATED REMOTE PLUG LOAD CONTROLLER UPSTREAM OR INTEGRAL RECEPTACLE MATCHING/COMPATIBLE WITH LIGHTING CONTROLS PROVIDED. RECEPTACLE TO EITHER COME OR BE FIELD LABELED PER NEC REQUIREMENTS FOR CONTROLLED RECEPTACLES. • SWITCHED BRANCH: WHERE DESIGNATED, 25% ROUNDED UP OF BRANCH CIRCUITS IN MULTIWIRE FURNITURE FEED TO BE INTERCEPTED WITH A RATED PLUG LOAD CONTROLLER, CONTROLLED BY OCCUPANCY/VACANCY SENSORS IN THE ROOM (AS OCCUPANCY). DEVICE TO MATCH/BE COMPATIBLE WITH LIGHTING CONTROLS PROVIDED. EXCEPT IN LOCATIONS WITH A SINGLE CIRCUIT, CONTROL TO BE PLACED ON A NON-DEDICATED BRANCH, VERIFIED WITH FURNITURE MANUFACTURER PRIOR TO INSTALLATION. PROVIDE ANY APPLICABLE LABELING PER THE NEC FOR CONTROLLED DEVICES. | | | | | | | |
| PROVIDE ALL ACCESSORIES, PARTS, AND PIECES NECESSARY FOR A COMPLETE INSTALLATION | | | | | | | |
| CODE | CIRCUIT TYPE | CODE | COMM SIZE | CODE | POWER POLE & FLOOR BOX IDENT | CODE | SWITCHING |
| A | 4 CIRCUIT 8 WIRE | 1 | 1/2" C | P | OWNER SUPPLIED POWER POLE | X | SWITCHED RECEPTACLE |
| B | 3 CIRCUIT 7 WIRE | 2 | 3/4" C | Q | NEW POWER POLE. SEE ABOVE | Y | SWITCHED BRANCH |
| C | 3 CIRCUIT 5 WIRE | 3 | 1" C | S | WIREMOLD 4FFATC SERIES (3/4" PWR, 1-1/4"COMM) (SINGLE CORE/DEVICE FURNITURE FEED) | | |
| D | 2 CIRCUIT 6 WIRE | 4 | 1-1/4" C | T | WIREMOLD RC7AFFTC + RC7AM2TC (3/4" PWR, 2" COMM) (2 CORES/DEVICES FURNITURE FEED) | | |
| E | 2 CIRCUIT 4 WIRE | 5 | 1-1/2" C | U | HUBBELL S1PFTIT (1" PWR, 1" COMM) + S1SP (DUPLEX + DATA OR 2ND DUPLEX IF NO COMM) | | |
| F | 1 CIRCUIT 3 WIRE | 6 | 2" C | V | HUBBELL PT71SD + PT2FIT (3/4" PWR, 2" COMM) (2 CORES/DEVICES FURNITURE FEED) | | |
| G | SEE DETAIL NOTES | 7 | SEE DETAIL NOTES | W | SEE DETAIL NOTES | | |

Dates of Record

Project Start Date: 07 June 2023
 Issued On Issued For
 08/28/2024 CLIENT REVIEW

Provide Emergency Illumination that complies with 2023 NEC 700.16

Every circuit and circuit modification shall be provided with a legible and permanent description that complies with all of the following conditions as applicable (see 1-6). 2023 NEC 408.4

Suspended Ceiling Systems and the Luminaires They support shall meet the requirements of 410.36(B) 2023 NEC

| LIGHTING FIXTURE SCHEDULE | | | | | | | | | | | | | | | |
|---------------------------|------|--------|---|--------------|---------------------------|-----------------------|-----------|-------------|--------------|----------|-----|-----------|-----------|-------|---|
| ID | TYPE | SIZE | DESCRIPTION | MANUFACTURER | MODEL | CATALOG NUMBER | MOUNTING | DIMMING | LUMEN S (LM) | TEMP (K) | CRI | VOLTS (V) | WATTS (W) | NOTES | # |
| C | LED | d = 4" | DOWNLIGHT | SYLVANIA | LEDRT4 | LEDRT4/R4AS900UD/935S | RECESSED | 10% (0-10V) | 900 | 3500 | 90 | 277 | 10.5 | | |
| X | LED | - | EDGE LIT GREEN BLADE TYPE EXIT SIGN W/BATTERY | ISOLITE | UNIVERSAL MOUNT EXIT SIGN | UEL-EM-G-1C2M-MTEBR | UNIVERSAL | - | - | - | - | 277 | - | [EX] | |

PROVIDE ALL PARTS AND PIECES AS NEEDED FOR COMPLETE INSTALLATION. COORDINATE FINAL LOCATIONS, MOUNTING HEIGHTS, AND FIXTURE OPTIONS WITH ARCHITECT AND/OR TENANT. FIXTURES ON SCHEDULE MAY BE SHOWN FOR REFERENCE ONLY. VERIFY FIXTURE QUANTITIES WITH DRAWINGS PRIOR TO ORDERING.

* COORDINATE OPTION WITH ARCHITECT/TENANT.

** LIGHTING PACKAGE SUPPLIER SHALL BE ESAM JONES:

JOE LEHMBERG
NATIONAL ACCOUNT SALES GROUP
ESAM JONES DISTRIBUTOR, INC.
PHONE: 615-668-0633 EMAIL: JLEHMBERG@ESAMJONES.COM

NL PROVIDE NL FIXTURES WITH 90-MIN BATTERY BACKUP AND TEST SWITCH AND CIRCUIT TO LOCAL LIGHTING CIRCUIT AHEAD OF CONTROL. EXEMPTED FROM AUTOMATIC CONTROL PER IECC SAFETY/SECURITY EXEMPTION.

[EX] PROVIDE EXIT SIGNS WITH 90-MIN BATTERY BACKUP AND CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF CONTROL.

| Room Schedule | | | |
|---------------|-----------------|-----|--------------|
| 400 | Public Corridor | 407 | Ext Restroom |
| 401 | Waiting | 408 | Procedure |
| 402 | Reception | 409 | Work Area |
| 403 | Hallway | 410 | ---- |
| 404 | Exam | 411 | Office |
| 405 | Exam | 412 | Exam |
| 406 | IA | 413 | Exam |

| 2021 IECC CONTROL MATRIX | | | | | | | | | | | | | | | |
|--|---------|----------|----------|----------------|-------|--------|--------------------|---------------------|-----------------------|----------------------|---------------------|-----------------|--------------------------|---------------------------|---|
| SPACE TYPE | MAN. ON | MAN. OFF | MAN. DIM | OVRD. SW. (TC) | TC ON | TC OFF | LTG. OCC. SENS. ON | LTG. OCC. SENS. OFF | 12PM-6PM DIM DOWN 50% | DAYTIME DIM DOWN 50% | EM 90MIN BATT/GENTR | EXT. PHOTO-CELL | RECEPT. OR FURN. OCC. ON | RECEPT. OR FURN. OCC. OFF | REMARKS: |
| PRIVATE OFFICE | X | X | + | --- | --- | --- | --- | --- | X | | | | X*** | X*** | |
| PRIVATE EXAM ROOM | X | X | + | --- | --- | --- | --- | --- | X | | | | X*** | X*** | |
| OPEN OFFICE AREA (UNDER 300 SQ.FT.) | X | X | + | --- | --- | --- | --- | --- | X | X | | | X*** | X*** | DUAL LEVEL CONTROL THIS AREA. ONLY 50% TO BE AUTO ON. |
| OPEN OFFICE AREA (300 SQ.FT. AND OVER) | X | X | + | --- | --- | --- | --- | --- | X | X | | | X*** | X*** | 800 SQ. FT. OR LESS SENSOR ZONES (NOT FOR PLUG CONTROL). |
| DAYLIGHT ZONES, PRIMARY AND SECONDARY | X | X | + | --- | --- | --- | --- | --- | X | | | | | | SEPARATE SWITCH FROM OTHER ZONES, PRIMARY AND SECONDARY |
| WALK IN COOLER/FREEZER | X | X | + | --- | --- | --- | --- | --- | X | | | | | | |
| TRAINING/CLASS/CONFERENCE/BREAK/COPY/WORK | X | X | + | --- | --- | --- | --- | --- | X | | | | X*** | X*** | |
| LAB/LOCKER | X | X | + | --- | --- | --- | --- | --- | X | | | | | | |
| STORAGE/CLOSETS/DATA | X | X | + | --- | --- | --- | --- | --- | X | | | | | | |
| HALLWAYS/LOBBIES | X | X | + | --- | --- | --- | --- | --- | X | X | | | | | NIGHTLIGHT BASED ON SAFETY/SECURITY EXCEPTION |
| ENTRY VESTIBULES/STAIRWELLS | X | X | + | --- | --- | --- | --- | --- | X | X | | | | | |
| RESTROOMS | X | X | + | --- | --- | --- | --- | --- | X | X | | | | | PROVIDE OVERRIDE SWITCH FOR SENSOR CONTROL |
| ELECTRICAL/MECHANICAL ROOMS | X | X | + | --- | --- | --- | --- | --- | X | X | | | | | 50% AND BE AUTO ON OR ALL AUTO PER SAFETY WHERE NOTED |
| COMMERCIAL KITCHEN | X | X | + | --- | --- | --- | --- | --- | X | X | | | | | DUAL LEVEL CONTROL THIS AREA. ONLY 50% TO BE AUTO ON. |
| PHARMACY/MILIBRARY | X | X | + | --- | --- | --- | --- | --- | X | X | | | | | EACH ASSE INDEPENDENT |
| WAREHOUSE - AISLES | X | X | + | --- | --- | --- | --- | --- | X | X | | | | | DUAL LEVEL CONTROL THIS AREA. ONLY 50% TO BE AUTO ON. |
| WAREHOUSE - OPEN AREA | X | X | + | --- | --- | --- | --- | --- | X | X | | | | | DUAL LEVEL OR DIMMED. (1) TC OR 50/50 OCCUPANCY/VACANCY. |
| RETAIL/RESTAURANT SEATING/SERVING | X | X | + | --- | --- | --- | (1) | (1) | | | | | | | EITHER TIME CLOCK OR OCCUPANCY SENSOR PER IECC |
| SPECIFIC APPLICATION CONTROL | X | X | + | --- | --- | --- | --- | --- | X | X | | | | | DUAL LEVEL CONTROL THIS AREA. ONLY 50% TO BE AUTO ON. |
| FACTORY/INDUSTRIAL | X | X | + | --- | --- | --- | --- | --- | X | X | | | | | DOES NOT APPLY TO ANY EGRESS/EMERGENCY (SAFETY/SECURITY) |
| EXTERIOR SITE LIGHTING (NOT-EMERGESS/LANDSCAPE/FACADE) | | | | | | | X | X | X*** | X*** | | X | | | DOES NOT APPLY TO ANY EGRESS/EMERGENCY (SAFETY/SECURITY) |
| PARKING LOT LIGHTS > 78W AND <= 24" (NON-EMERGESS) | | | | | | | X | X | | X | | X | | | DOES NOT APPLY TO ANY EGRESS/EMERGENCY (SAFETY/SECURITY) |
| EXTERIOR FACADE/LANDSCAPE (NON-EGRESS/EM) | | | | | | | X | X | | X | | X | | | TURN OFF 1 HOUR AFTER CLOSE AND 1 HOUR BEFORE OPEN |
| LOADING DOCK | | | | | | | | | | | | X | | | |
| INSTALLED TASK LIGHTING (INCLUDING FURNITURE SYSTEMS) | X | X | + | | | | X | X | X | | | | | | SENSORS FOR TASK LIGHTING IN FURNITURE BY VENDOR |
| EXTERIOR EM | | | | | | | X | X | | | X | X | | | UL924/SWITCHED LEADS. EXEMPT FROM AFTER HOURS DIM DOWN. |
| EXTERIOR EGRESS TO PUBLIC RIGHT OF WAY | | | | | | | X | X | | | | X | | | EXEMPT FROM AFTER HOURS DIM DOWN FOR SAFETY/SECURITY |
| INTERIOR EM NON-NL | | | | | | | X*** | X*** | | | | X | | | UL924/SWITCHED LEADS. SENSOR IN PARALLEL WITH TC. FIRE ALARM. |
| INTERIOR EM EGRESS NL | | | | | | | | | | | | X | | | NIGHTLIGHT BASED ON SAFETY/SECURITY EXCEPTION |

NOTE: E.C. TO PROVIDE SHOP DRAWINGS AND SUBMITTALS THROUGH THE APPROPRIATE LIGHTING CONTROLS MANUFACTURER REPRESENTATIVE TO MEET THE CONTROL INTENT. SENSOR TIMES TO BE PER IECC. SEE OCCUPANCY/VACANCY/DAYLIGHT SENSOR SCHEDULE ON COVERSHEET FOR MORE DETAILS. PROVIDE ADDITIONAL POWER PACKS WHERE CONTROLLING MULTIPLE ADDITIONAL VOLTAGES.

DEVICE LOCATIONS ARE APPROXIMATE, AND SHALL BE VERIFIED THROUGH THE SHOP DRAWING PROCESS AND WITH THE SPECIFIC MANUFACTURER/MODEL GUIDELINES.

* MANUAL DIMMING WHERE REQUIRED BY PLANS. IF INDICATED ON EMERGESS LIGHTING, DIMMING IS TO A MINIMUM FC LEVEL NOTED PER IBC (NOT TO OFF) AND OVERRIDES ON POWER FAILURE.

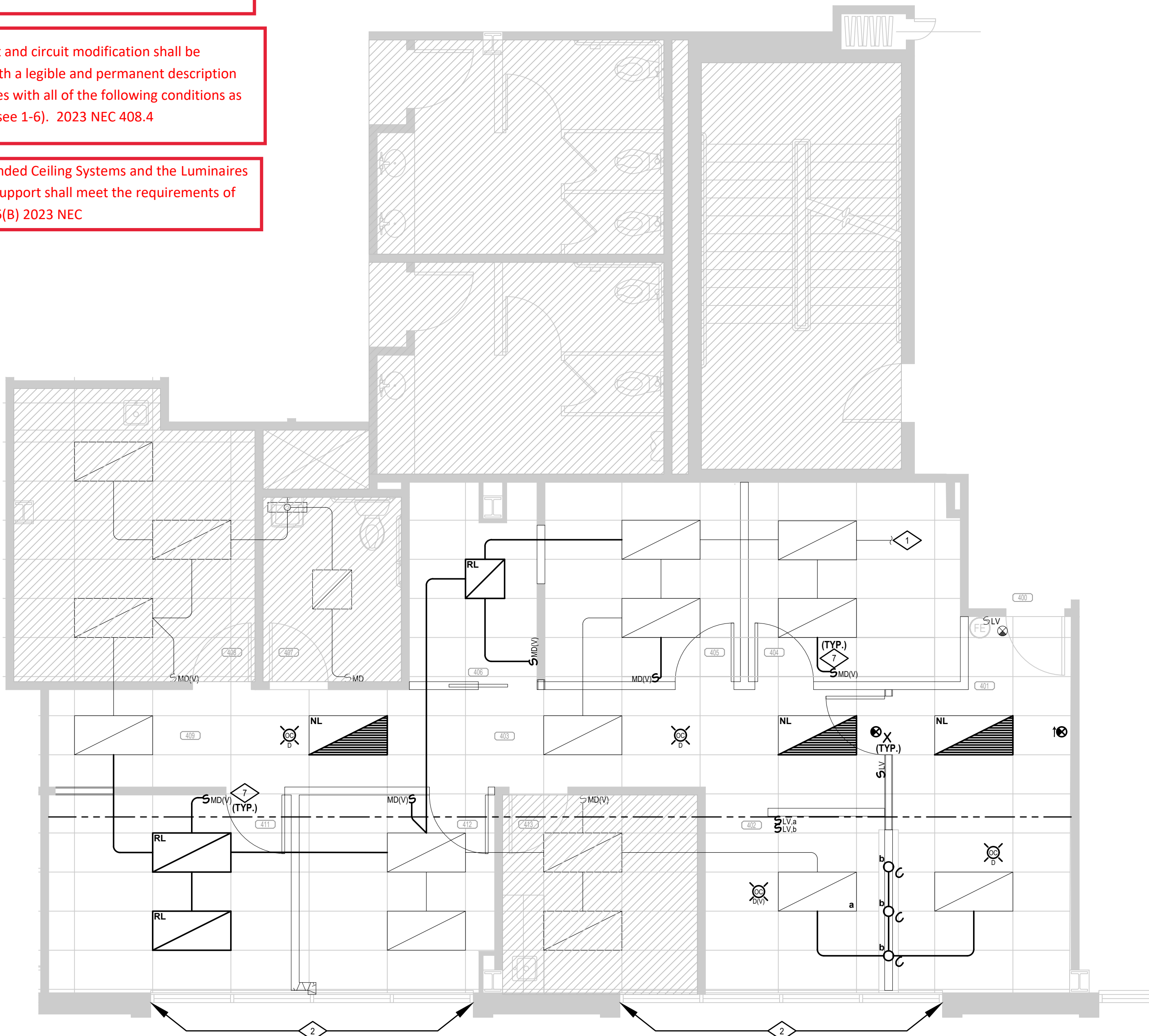
** TIME CLOCK CONTROL WHERE/IF NOTED ON PLANS. SHALL BE ASTRONOMICAL. PHOTOCCELL WHERE FOR EXTERIOR LIGHTING. PROVIDE OVERRIDE PER IECC FOR INTERIOR AND BE SET PER IECC.

*** RECEPTACLE/FURNITURE CONTROL FOR NEW/EXISTING DEVICES WHERE NOTED/INDICATED. SEE COVERSHEET AND FURNITURE SCHEDULE FOR MORE DETAILS. ADDITIONALLY: PROVIDE SECOND OCCUPANCY POWER PACK WHERE CONTROLLED IN ROOMS WITH VACANCY SENSORS. WHERE IN OPEN OFFICE, ENTIRE OPEN OFFICE TO BE ONE ZONE FOR PLUG CONTROL.

**** TIME OR SENSOR DIM DOWN AFTER HOURS, SEE PLANS FOR DETAILS. DOES NOT APPLY TO FIXTURES ON EGRESS PATH OR THAT ARE EMERGENCY.

+ FOR LIGHTING NOT VISIBLE FROM MANUAL CONTROLS, CONTROL TO INDICATE STATUS AND BE LABELLED FOR FUNCTION.

++ DAYLIGHT DIMMING TO BE SET TO LIGHT LEVEL WITH NO DAYLIGHT PRESENT, AND DIM TO OFF.



LIGHTING PLAN

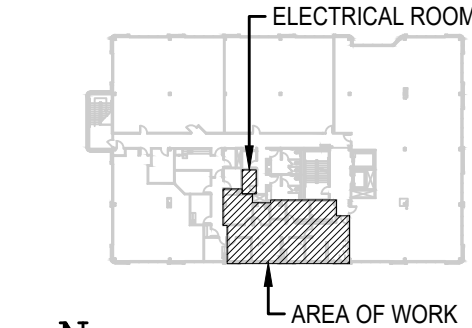
SCALE: 1/4"=1'-0"

GENERAL NOTES:

- NEW AND RELOCATED ITEMS SHOWN AS BOLD
- EXISTING ITEMS SHOWN AS LIGHT
- LOWER CASE LETTERING INDICATED ON SWITCHES AND FIXTURES IF SHOWN, WHICH SWITCHES CONTROL WHICH FIXTURES.
- LOW VOLTAGE WIRING, ACCESSORIES, POWER PACKS, AND/OR DATA CABLING FOR ALL LIGHTING CONTROLS ARE NOT SHOWN GRAPHICALLY. THESE MUST BE PROVIDED FOR ALL CONTROL CHANGES/MODIFICATIONS AS REQUIRED BY THE MANUFACTURER SHOP DRAWINGS, AND SHALL NOT BE CONSIDERED AS EXISTING TO BE RE-USED UNLESS APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.

DETAIL NOTES

- CONNECT TO NEAREST AVAILABLE LIGHTING CIRCUIT. E.C. TO VERIFY NO MORE THAN 70% LOAD ON A SINGLE 277V LIGHTING CIRCUIT.
- DAYLIGHT DIMMING NOT APPLIED. FIXTURES IN DAYLIGHT ZONE ARE LESS THAN 150W TOTAL IN FIRST ZONE AND 300W TOTAL IN FIRST PLUS SECOND ZONE PER SPACE.
- EXISTING EMERGENCY LIGHTING COULD NOT BE DETERMINED AT TIME OF FIELD SURVEY. E.C. TO VERIFY EXISTING EM LIGHTING MEETS OR EXCEEDS CODE REQUIREMENTS AS SHOWN. PROVIDE ADDITIONAL EM LIGHTING/CIRCUITING IF NEEDED.
- NOT USED.
- WALL SENSORS IN AREAS WITH RECEPTACLE CONTROL TO BE LOW VOLTAGE SENSORS/SWITCHES OF THE TYPE INDICATED (IN LIEU OF LINE VOLTAGE). WITH A LIGHT/RECEPTACLE CONTROL METHOD OF EITHER REMOTE POWER PACKS OR DIRECTLY INTERFACED DEVICES (DEPENDENT ON SYSTEM CHOSEN). IN THE CASE OF MANUFACTURERS WITHOUT THE LOW VOLTAGE SENSORS REQUIRED, IT IS ACCEPTABLE TO UTILIZE LOW VOLTAGE WALL SWITCHES WITH CEILING MOUNTED SENSORS OF THE TYPE INDICATED INSTEAD, WITH THE SAME LIGHT/RECEPTACLE CONTROL METHOD.
- E.C. TO COMPLY WITH NEC 517 IN PATIENT CARE AREAS INDICATED (ESPECIALLY 517.13 AND 517.61(C)), INCLUDING: PROVIDE HOSPITAL-GRADE RECEPTACLES FOR ALL DEVICES IN THIS ROOM. ALL BRANCH CIRCUITS (INCLUDING LIGHTING) IN THIS AREA SHALL BE RUN ENTIRELY IN EMT CONDUIT IN ORDER TO UTILIZE CONDUIT AS REDUNDANT GROUND PER CODE REQUIREMENTS OR PROVIDE GREEN HOSPITAL-GRADE AC/MC CABLE FOR REDUNDANT GROUND. PROVIDE EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT. PROVIDE GFCI DEVICES THROUGHOUT. GFCI BREAKERS TO MATCH THE PANEL MANUFACTURER AND AIC RATING (UNLESS NOTED FOR DEADFRONT GFI). SHALL BE UTILIZED ON EQUIPMENT WHERE GFCI RECEPTACLES ARE NOT READILY ACCESSIBLE, INCLUDING UNDER COUNTER AND BEHIND ANY APPLIANCES. REQUIRED FOR FLOORBOXES PER CODE. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL THESE CIRCUITS. FOR EXISTING RECEPTACLES ALSO PROVIDE A GFCI BREAKER WHERE NOT READILY ACCESSIBLE. E.C. TO VERIFY CIRCUITS/ACCESSIBILITY FOR WHERE NEW BREAKERS ARE REQUIRED, AND NOT SHOWN IN SCHEDULES. FOR ANY PANELS WITH AIC VALUE EXCEEDING ITS RATING, PROVIDE A DEADFRONT GFI INSTEAD OF A BREAKER (10K SCOR RATING, READILY ACCESSIBLE AND GREATER THAN 7' CONDUCTOR LENGTH FROM PANEL ASSUMING WORST CASE 20A/1PH FAULT DISTANCE).
- CONNECT NEW SWITCH TO EXISTING LIGHTING IN THIS ROOM. EXTEND CONDUCTORS/CONDUIT AS REQUIRED.



KEY PLAN



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: A. Sharpley
Date: Sep 04, 2024
2021 INTERNATIONAL CODES & 2023 NEC

1411 S Potomac
1411 S Potomac
Aurora, CO 80012
Suite 430



20241102

Speculative Suite 430

Dates of Record

Project Start Date: 07 June 2023

Issued On Issued For

08/28/2024 CLIENT REVIEW

Sheet Contents LIGHTING PLAN
Project Team TR/AW
Project Number 20241102.00
Sheet Mark
E3.0

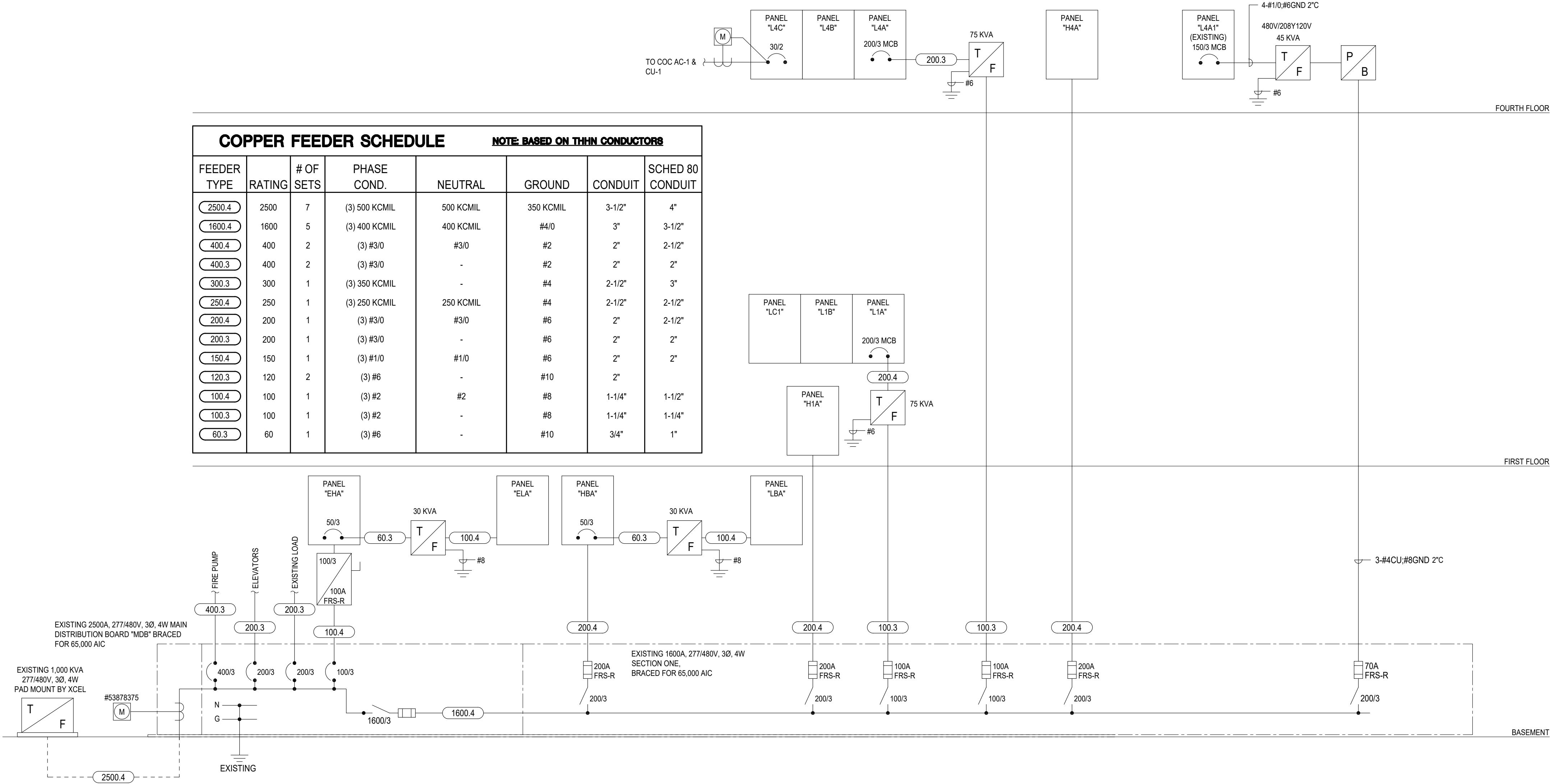
| | | | |
|-------------------------|--------|-------------------|--------------------------------|
| SUPPLIED FROM: | | 45KVA TRANSFORMER | |
| PANEL "L4A1" (EXISTING) | | VOLTAGE | 120 / 208 V 3 Ø 4 W |
| FLUSH | M.C.B. | 150 A | I.G. BAR NA |
| SURFACE X | BUS | 150 A CU | A.I.C. 10 K MANF. C.B. BOLT ON |

| TYPE | DESCRIPTION | BKR | CIR | LOAD (VOLT AMPS) / PHASE | | | CIR | BKR | DESCRIPTION | TYPE |
|------|---------------------------|-----|-----|--------------------------|------|------|-----|-----|----------------------------|------|
| | | | | A | B | C | | | | |
| R | RECEPT - RM402 | 20 | 1 | 540 | 360 | | 2 | 20 | RECEPT - PULL BOX - RM425a | R |
| R | RECEPT - RM409 | 20 | 3 | | 720 | 360 | 4 | 20 | RECEPT - PULL BOX - RM428 | R |
| R | RECEPT - RM404d4/423/425a | 20 | 5 | | | 540 | 6 | 20 | RECEPT - PULL BOX - RM426 | R |
| R | RECEPT - RM428 | 20 | 7 | 540 | 360 | | 8 | 20 | RECEPT - PULL BOX - RM426 | R |
| R | RECEPT - RM428 | 20 | 9 | | 720 | 180 | 10 | 20 | RECEPT - DEDICATED - RM426 | R |
| R | RECEPT - RM426 | 20 | 11 | | | 540 | 12 | 20 | RECEPT - RM427 - WASHER | K |
| R | RECEPT - RM402, 409 | 20 | 13 | 360 | 1500 | | 14 | 30 | RECEPT - RM427 - DRYER | K |
| R | 430 REC 414, 115 | 20 | 15 | | 900 | 1500 | 16 | 20 | RECEPT - RM427 - DRYER | G |
| R | 430 REC 409, 13 | 20 | 17 | | | | 18 | 20 | COPIER - RM402 | G |
| R | 430 REC 405, 06, 08, 11 | 20 | 19 | 900 | 750 | | 20 | 20 | 430 FRIDGE 419 | K |
| R | 430 REC 402, 06 | 20 | 21 | | 1080 | 1650 | 22 | 20 | 430 DISP. DW 419 | K |
| R | 430 REC 401, 05 | 20 | 23 | | | 720 | 24 | 20 | 430 AC GFIREC | K |
| R | 430 QUAD 403 | 20 | 25 | 720 | 1000 | | 26 | 20 | 430 AC GFIREC | K |
| K | SUITE 360 - EWH-1 | 20 | 27 | | 1500 | 540 | 28 | 20 | 430 REC 403 | R |
| K | | 20 | 29 | | | | 30 | 20 | 430 COPIER 403 | G |
| K | 430 WATER HEATER 419 | 30 | 31 | 2000 | 0 | | 32 | | BLANK | |
| | BLANK | - | 33 | | 0 | 0 | 34 | - | BLANK | |
| | BLANK | - | 35 | | | 0 | 36 | - | BLANK | |
| | BLANK | - | 37 | 0 | 0 | | 38 | - | BLANK | |
| | BLANK | - | 39 | | 0 | 0 | 40 | - | BLANK | |
| | BLANK | - | 41 | | | 0 | 42 | - | BLANK | |

| LOAD TYPE | CONNECTED KVA | | | TOTAL ALL PHASES | FACTOR | DEMAND KVA | | | TOTAL ALL PHASES |
|----------------------------|---|-----|-----|------------------|--------|------------|------|------|------------------|
| | A | B | C | | | A | B | C | |
| LIGHTING / EV CHARGERS | 0.0 | 0.0 | 0.0 | 0.0 | 125% | 0.0 | 0.0 | 0.0 | 0 |
| RECEPTACLE (10KVA OR LESS) | 3.3 | 3.3 | 3.1 | 10.0 | 100% | 3.3 | 3.3 | 3.1 | 10 |
| RECEPTACLE (OVER 10KVA) | 0.5 | 1.2 | 0.0 | 1.3 | 50% | 0.2 | 0.5 | 0.0 | 1 |
| HVAC/MOTOR | 0.0 | 0.0 | 0.0 | 0.0 | 100% | 0.0 | 0.0 | 0.0 | 0 |
| MOTOR (LARGEST) | 0.0 | 0.0 | 0.0 | 0.0 | 125% | 0.0 | 0.0 | 0.0 | 0 |
| KITCHEN EQUIPMENT | 5.3 | 3.2 | 3.4 | 11.8 | 65% | 3.4 | 2.0 | 2.2 | 8 |
| MISCELLANEOUS | 0.0 | 1.5 | 2.0 | 3.5 | 100% | 0.0 | 1.5 | 2.0 | 4 |
| TOTAL KVA | 9.0 | 9.2 | 8.5 | 26.6 | | 7.0 | 7.5 | 7.3 | 22 |
| WITH GROUND BUS | | | | | | 58.1 | 62.2 | 60.6 | 60 |
| LEGEND | L = LTG / EV R = RECEPTACLE M = HVAC / MOTOR K = KITCHEN G = MISCELLANEOUS MAX PERCENT DIFFERENCE BETWEEN PHASES (A,B,C): 8% | | | | | | | | |

1 CIRCUIT REVISED THIS CONTRACT, LOAD ADDED TO PREVIOUSLY SPARE BREAKER.

Every circuit and circuit modification shall be provided with a legible and permanent description that complies with all of the following conditions as applicable (see 1-6). 2023 NEC 408.4




PARTIAL EXISTING ONE-LINE DIAGRAM
SCALE: NONE (NO NEW WORK)



COLORADO: Denver Office:
7822 South Whetling Ct., Ste B,
Littleton, CO 80120
303-494-1257

NEC: 2023 IEC: 2021



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: A. Sharpley
Date: Sep 04, 2024
2021 INTERNATIONAL CODES & 2023 NEC

1411 S Potomac
1411 S Potomac
Aurora, CO 80012
Suite 430



Alexander J. Sharpley
46607
08/27/24
PROFESSIONAL ENGINEER
20241102

Speculative Suite 430

Dates of Record
Project Start Date: 07 June 2023
Issued On 08/28/2024 Issued For CLIENT REVIEW

Sheet Contents ONE-LINE DIAGRAM

Project Team TR/AW
Project Number 20241102.00
Sheet Mark E.4

| | | | | | | | | | | | | |
|--|-------------------|-----|-------------|--------------------------|------------------|----------------|-----------------|------------------|--------------|-------------|-----------------------------|-------------------|
| SUPPLIED FROM: 200/3 BREAKER IN MDB | | | | | | | | | | | | |
| PANEL "44A" (EXISTING) | | | VOLTAGE 277 | | / 480 V | | 3 Ø | | 4 W | | | |
| FLUSH SURFACE X | | | M.C.B. BUS | | MLO X | | I.G. BAR A.I.C. | | NA 10 K | | MANF. SQUARE D C.B. BOLT ON | |
| TYPE | DESCRIPTION | BKR | CIR | LOAD (VOLT AMPS) / PHASE | | | CIR | BKR | DESCRIPTION | TYPE | | |
| | | | | A | B | C | | | | | | |
| L | HALL LIGHTING | 20 | 1 | 2500 | 3500 | | 2 | 30 | UH-1 | G | | |
| L | EXTERIOR LIGHTING | 20 | 3 | | 750 | 6648 | 4 | 60 | FVAV-1 | M | | |
| | BLANK | - | 5 | | | 0 | 6 | 60 | FVAV-2 | M | | |
| L | 400 LIGHTS | 20 | 7 | 2500 | 6648 | | 8 | 60 | FVAV-7 | M | | |
| L | 400 LIGHTS | 20 | 9 | | 2500 | 6648 | 10 | 60 | FVAV-8 | M | | |
| L | 400 LIGHTS | 20 | 11 | | | 2500 | 12 | 60 | FVAV-6 | M | | |
| L | 400 LIGHTS | 20 | 13 | 2500 | 6648 | | 14 | 60 | FVAV-5 | M | | |
| L | 400 LIGHTS | 20 | 15 | | 2500 | 3500 | 16 | 30 | UH-2 | G | | |
| | SPARE | 20 | 17 | | | 0 | 18 | 60 | FVAV-4 | M | | |
| L | 400 LIGHTS | 40 | 19 | 2500 | 6648 | | 20 | 60 | FVAV-3 | M | | |
| L | 400 LIGHTS | 40 | 21 | | 2500 | 2500 | 22 | 30 | WATER HEATER | G | | |
| L | 440 LIGHTS | 20 | 23 | | | 2500 | 24 | - | BLANK | | | |
| L | 440 LIGHTS | 20 | 25 | 2500 | 0 | | 26 | - | BLANK | | | |
| | SPARE | 20 | 27 | | 0 | 0 | 28 | - | BLANK | | | |
| | SPARE | 20 | 29 | | | 0 | 30 | - | BLANK | | | |
| | BLANK | - | 31 | 0 | 0 | | 32 | - | BLANK | | | |
| | BLANK | - | 33 | | 0 | 0 | 34 | - | BLANK | | | |
| | BLANK | - | 35 | | | 0 | 36 | - | BLANK | | | |
| | BLANK | - | 37 | 0 | 0 | | 38 | - | BLANK | | | |
| | BLANK | - | 39 | | 0 | 0 | 40 | - | BLANK | | | |
| | BLANK | - | 41 | | | 0 | 42 | - | BLANK | | | |
| | | | | 35944 | 27546 | 24944 | | | | | | |
| LOAD TYPE | | | | CONNECTED KVA | TOTAL ALL PHASES | | FACTOR | DEMAND KVA | | | TOTAL ALL PHASES | |
| | | | | A | B | C | | A | B | C | | |
| LIGHTING / EV CHARGERS | | | | 12.5 | 8.3 | 5.0 | 25.8 | 125% | 15.6 | 10.3 | 6.3 | 32 |
| RECEPTACLE (10KVA OR LESS) | | | | 0.0 | 0.0 | 0.0 | 0.0 | 100% | 0.0 | 0.0 | 0.0 | 0 |
| RECEPTACLE (OVER 10KVA) | | | | 0.0 | 0.0 | 0.0 | 0.0 | 50% | 0.0 | 0.0 | 0.0 | 0 |
| HVAC/MOTOR | | | | 13.3 | 6.6 | 13.3 | 33.2 | 100% | 13.3 | 6.6 | 13.3 | 33 |
| MOTOR (LARGEST) | | | | 6.6 | 6.6 | 6.6 | 19.9 | 125% | 8.3 | 8.3 | 8.3 | 25 |
| KITCHEN EQUIPMENT | | | | 0.0 | 0.0 | 0.0 | 0.0 | 100% | 0.0 | 0.0 | 0.0 | 0 |
| MISCELLANEOUS | | | | 3.5 | 6.0 | 0.0 | 9.5 | 100% | 3.5 | 6.0 | 0.0 | 10 |
| TOTAL KVA | | | | 35.9 | 27.5 | 24.9 | 88.4 | TOTAL KVA | 40.7 | 31.3 | 27.9 | 100 |
| WITH GROUND BUS | | | | | | | | TOTAL AMPS | 147.0 | 112.9 | 100.6 | 120 |
| LEGEND | | | | L = LTG / EV | | R = RECEPTACLE | | M = HVAC / MOTOR | | K = KITCHEN | | G = MISCELLANEOUS |
| MAX PERCENT DIFFERENCE BETWEEN PHASES (A,B,C): 31% | | | | | | | | | | | | |

| SUPPLIED FROM: 75KVA TRANSFORMER | | | | | | | | | | | | |
|--|---------------|--------------|--------|--------------------------|---------------|------------------|-----------------|-------------|---------------------------------------|-------------------|-----------------------------|-----|
| PANEL "L4A" (EXISTING) | | | M.C.B. | | VOLTAGE | | / 208 V | | 3 Ø | | 4 W | |
| FLUSH SURFACE X | | | BUS | | MLO FEED THRU | | I.G. BAR A.I.C. | | NA 10 K | | MANF. SQUARE D BOLT ON C.B. | |
| TYPE | DESCRIPTION | BKR | CIR | LOAD (VOLT AMPS) / PHASE | | | CIR | BKR | DESCRIPTION | TYPE | | |
| | | | | A | B | C | | | | | | |
| R | ROOF REC | 20 | 1 | 360 | 500 | | 2 | 20 | 400 DOWNLIGHTS | L | | |
| R | EXISTING LOAD | 20 | 3 | | 720 | 500 | 4 | 20 | 400 DOWNLIGHTS | L | | |
| R | CORE REC | 20 | 5 | | | 1080 | 6 | 20 | 400 DOWNLIGHTS | L | | |
| G | EWIC CHILLER | 20 | 7 | 750 | 500 | | 8 | 20 | 400 DOWNLIGHTS | L | | |
| R | TELE REC | 20 | 9 | | 360 | 180 | 10 | 25 | 400 DED REC | R | | |
| R | 400 EXAM RM | 20 | 11 | | | 720 | 12 | 20 | FLOOR DIRECTORY SIGNAGE | G | | |
| R | 400 EXAM RM | 20 | 13 | 720 | 720 | | 14 | 20 | 400 REC | R | | |
| R | 400 EXAM RM | 20 | 15 | | 720 | 540 | 16 | 20 | 400 REC | R | | |
| R | 400 EXAM RM | 20 | 17 | | | 720 | 18 | 20 | 400 REC | R | | |
| R | 400 EXAM RM | 20 | 19 | 540 | 500 | | 20 | 20 | RR EXHAUST FAN | G | | |
| R | 400 EXAM RM | 20 | 21 | | 720 | 720 | 22 | 20 | 400 DARK RM REC | R | | |
| R | 400 EXAM RM | 20 | 23 | | | 720 | 24 | 20 | 400 REC | R | | |
| R | 400 EXAM RM | 20 | 25 | 540 | 540 | | 26 | 20 | 400 REC | R | | |
| R | 400 EXAM RM | 20 | 27 | | 720 | 720 | 28 | 20 | 400 REC | R | | |
| R | 400 EXAM RM | 20 | 29 | | | 720 | 30 | 20 | SUITE 430 - RECEIPT | R | | |
| R | 400 XRAY CYCT | 20 | 31 | 540 | 1260 | | 32 | 20 | SUITE 430 - RECEIPT - 401/402/411/413 | R | | |
| R | 400 XRAY CYCT | 20 | 33 | | 720 | 200 | 34 | 20 | 400 SWITCHBOARD | G | | |
| G | EXISTING LOAD | 20 | 35 | | | 750 | 36 | 20 | 420 DED REC | R | | |
| G | - | 2P | 37 | 750 | 180 | | 38 | 20 | 420 DED REC | R | | |
| R | EXISTING LOAD | 20 | 39 | | 720 | 720 | 40 | 20 | 400 FURNITURE | R | | |
| M | EXHAUST FAN 1 | 20 | 41 | | | 500 | 42 | 20 | SUITE 430 - RECEIPT | R | | |
| | | | | L4A | 8400 | 8260 | | | | | | |
| | | | | L4B | 21944 | 22774 | | | | | | |
| | | | | TOTAL | 30344 | 31034 | | | | | | |
| LOAD TYPE | | | | CONNECTED KVA | | | TOTAL | DEMAND KVA | | | TOTAL | |
| | | | | A | B | C | ALL PHASES | FACTOR | A | KVA | ALL PHASES | |
| LIGHTING / EV CHARGERS | | | | 1.5 | 0.5 | 0.5 | 2.5 | 125% | 1.9 | 0.6 | 0.6 | 3 |
| RECEPTACLE (10KVA OR LESS) | | | | 3.3 | 3.3 | 3.3 | 10.0 | 100% | 3.3 | 3.3 | 3.3 | 10 |
| RECEPTACLE (OVER 10KVA) | | | | 11.6 | 16.0 | 19.7 | 47.3 | 50% | 5.8 | 8.0 | 9.9 | 24 |
| HVAC/MOTOR | | | | 1.2 | 0.9 | 0.1 | 2.2 | 100% | 1.2 | 0.9 | 0.1 | 2 |
| MOTOR (LARGEST) | | | | 1.9 | 1.9 | 0.5 | 4.2 | 125% | 2.3 | 2.3 | 0.6 | 5 |
| KITCHEN EQUIPMENT | | | | 4.0 | 3.4 | 2.5 | 9.9 | 65% | 2.6 | 2.2 | 1.6 | 6 |
| MISCELLANEOUS | | | | 6.8 | 5.0 | 1.0 | 12.8 | 100% | 6.8 | 5.0 | 1.0 | 13 |
| TOTAL KVA | | | | 30.3 | 31.0 | 27.7 | 89.0 | TOTAL AMPS | 144.0 | 124.4 | 17.2 | 64 |
| WITH GROUND BUS | | | | | | | | TOTAL KVA | 199.9 | 187.0 | 143.2 | 177 |
| LEGEND | | L = LTG / EV | | R = RECEPTACLE | | M = HVAC / MOTOR | | K = KITCHEN | | G = MISCELLANEOUS | | |
| MAX PERCENT DIFFERENCE BETWEEN PHASES (A,B,C): 11% | | | | | | | | | | | | |


| | | | | | | | | | | | | |
|----------------------------|-------------------------------------|-----|-----|--|-------|---------------------------|------------------|-----|---------------|-------|------------------|------|
| SUPPLIED FROM: | | | | FEED THRU FROM LA4 | | | | | | | | |
| PANEL "L4B" (EXISTING) | | | | VOLTAGE 120 / 208 V 3 Φ 4 W | | MANF. SQUARE D | | | | | | |
| FLUSH | | | | M.C.B. | | MLO X | | | | | | |
| SURFACE X | | | | BUS 200 A CU | | FEED THRU L4C A.I.C. 10 K | | | | | | |
| | | | | | | | | | | | | |
| TYPE | DESCRIPTION | BKR | CIR | LOAD (VOLT AMPS) / PHASE | | | CIR | BKR | DESCRIPTION | TYPE | | |
| | | | | A B C | | | | | | | | |
| R | 420 REC | 20 | 1 | 540 | 800 | | 2 | 20 | 400 COPIER | G | | |
| R | 420 REC | / | 3 | | 720 | 180 | 4 | 20 | 430 FURNITURE | R | | |
| R | 420 REC | 3P | 5 | | | 720 720 | 6 | 20 | 430 FURNITURE | R | | |
| R | 403 REC | 20 | 7 | 540 | 180 | | 8 | 20 | 430 REC | R | | |
| R | 400 COMPUTER | 20 | 9 | | 720 | 180 | 10 | 20 | 420 DED REC | R | | |
| R | 400 COMPUTER | 20 | 11 | | | 720 720 | 12 | 20 | 450 EXAM REC | R | | |
| K | 420 DISPOSAL | 20 | 13 | 1000 | 720 | | 14 | 20 | 450 EXAM REC | R | | |
| R | 420 REC | 20 | 15 | | 720 | 720 | 16 | 20 | 450 REC | R | | |
| R | 420 REC | 20 | 17 | | | 720 720 | 18 | 20 | 450 REC | R | | |
| R | 420 REC | 20 | 19 | 540 | 720 | | 20 | 20 | 450 EXAM REC | R | | |
| R | 420 REC | 20 | 21 | | 720 | 720 | 22 | 20 | 450 EXAM REC | R | | |
| R | 430 REC | 20 | 23 | | | 180 720 | 24 | 20 | 450 REC | R | | |
| G | 440 PDQ OVEN | 60 | 25 | 2496 | 720 | | 26 | 20 | 450 VIEW BOX | R | | |
| G | - | 2P | 27 | | 2496 | 800 | 28 | 20 | 450 COPIER | G | | |
| R | SUITE 430 - RECEPT | 20 | 29 | | | 720 720 | 30 | 20 | 450 REC | R | | |
| R | SUITE 430 - RECEPT- 404/405/408/411 | 20 | 31 | 900 | 180 | | 32 | 20 | 450 TELE TERM | R | | |
| R | SUITE 430 - RECEPT | 20 | 33 | | 900 | 70 | 34 | 20 | 450 REC | R | | |
| RM | SUITE 430 - RECEPT - RR - CIRC_PUM | 20 | 35 | | | 300 540 | 36 | 20 | 420 DED REC | R | | |
| M | 400 CRC PUMP | 20 | 37 | 250 | 180 | | 38 | 20 | 420 DED REC | R | | |
| R | 440 TTB | 20 | 39 | | 180 | 1500 | 40 | 20 | WATER HEATER | G | | |
| R | 440 IT | 20 | 41 | | | 180 720 | 42 | 20 | EXISTING LOAD | R | | |
| | | | | | | | | | | | | |
| | | | | L4B | 9766 | 10626 | 8400 | | | | | |
| | | | | L4C | 12178 | 12148 | 9700 | | | | | |
| TOTAL | | | | 21944 | 22774 | 18100 | | | | | | |
| LOAD TYPE | | | | CONNECTED KVA | | | TOTAL ALL PHASES | | DEMAND KVA | | TOTAL ALL PHASES | |
| | | | | A | B | C | | | A | B | C | |
| LIGHTING / EV CHARGERS | | | | 0.5 | 0.0 | 0.0 | 0.5 | | 125% | 0.6 | 0.0 | 0.0 |
| RECEPTACLE (10KVA OR LESS) | | | | 3.3 | 3.3 | 3.3 | 10.0 | | 100% | 3.3 | 3.3 | 3.3 |
| RECEPTACLE (OVER 10KVA) | | | | 12 | 8.4 | 12.2 | 26.8 | | 50% | 3.1 | 4.2 | 6.1 |
| HVAC/MOTOR | | | | 6.2 | 0.9 | 0.0 | 2.1 | | 100% | 1.2 | 0.9 | 0.0 |
| MOTOR (LARGEST) | | | | 1.9 | 1.9 | 0.1 | 3.9 | | 125% | 2.3 | 2.3 | 0.2 |
| KITCHEN EQUIPMENT | | | | 4.0 | 3.4 | 2.5 | 9.9 | | 65% | 2.6 | 2.2 | 1.6 |
| MISCELLANEOUS | | | | 4.8 | 4.8 | 0.0 | 9.6 | | 100% | 4.8 | 4.8 | 0.0 |
| TOTAL KVA | | | | 21.9 | 22.8 | 18.1 | 62.8 | | TOTAL KVA | 18.0 | 17.8 | 11.2 |
| WITH GROUND BUS | | | | | | | | | TOTAL AMPS | 150.3 | 148.8 | 93.2 |
| LEGEND | | | | L = LIGT/ EV R = RECEPTACLE M = HVAC / MOTOR K = KITCHEN G = MISCELLANEOUS | | | | | | | | |

1

CIRCUIT REVISED THIS CONTRACT.

2

PROVIDE AND INSTALL NEW GFI BREAKER TO MATCH PANEL MANUFACTURER AND AIC RATING, COORDINATE WITH MANUFACTURER'S REP.



COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC

Project Title: Spec Suite 430 - 1441 South Potomac

Project Type: Alteration

Construction Site:

Owner/Agent:

Designer/Contractor:

1411 SOUTH POTOMAC

AURORA, Colorado 80012

TODD ROMERO

PRIMERA ENGINEERS

7822 WHEELING COURT, SUITE "B"

ENGLEWOOD, Colorado 80112

Allowed Interior Lighting Power

| A Area Category | B Floor Area (ft2) | C Allowed Watts / ft2 | D Allowed Watts |
|---|--------------------------|-----------------------------|-----------------------|
| 1-404 - EXAM (Healthcare Facility:Exam/Treatment) | 111 | 1.40 | 155 |
| 2-405 - EXAM (Healthcare Facility:Exam/Treatment) | 102 | 1.40 | 143 |
| 3-406 - MA (Healthcare Facility:Nurses Station) | 67 | 1.17 | 78 |
| 4-403 - HALLWAY (Common Space Types:Corridor/Transition <8 ft wide) | 223 | 0.71 | 158 |
| 5-402 - RECEPTION (Healthcare Facility:Nurses Station) | 85 | 1.17 | 99 |
| 6-401 - WAITING (Common Space Types:General Seating Area) | 156 | 0.23 | 36 |
| 7-407 - RESTROOM (Common Space Types:Restrooms) | 68 | 0.63 | 43 |
| 8-408 - PROCEDURE (Healthcare Facility:Exam/Treatment) | 175 | 1.40 | 245 |
| 9-412 - EXAM (Healthcare Facility:Exam/Treatment) | 100 | 1.40 | 140 |
| 10-413 - EXAM (Healthcare Facility:Exam/Treatment) | 102 | 1.40 | 143 |
| 11-411 - OFFICE (Common Space Types:Office - Enclosed) | 126 | 0.74 | 93 |
| Total Allowed Watts = 1334 | | | |

Proposed Interior Lighting Power

| A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B Lamps/ Fixture | C # of Fixture | D Fixture Watt. | E (C X D) |
|---|------------------------|----------------------|-----------------------|--------------|
| 404 - EXAM (Healthcare Facility: Exam/Treatment, 111 sq.ft.) LED: 2X4 - EX: Other: | 1 | 2 | 32 | 63 |
| 405 - EXAM (Healthcare Facility: Exam/Treatment, 102 sq.ft.) LED: 2X4 - EX: Other: | 1 | 2 | 32 | 63 |
| 406 - MA (Healthcare Facility: Nurses Station, 67 sq.ft.) LED: 2X2 - RL: Other: | 1 | 1 | 27 | 27 |
| 403 - HALLWAY (Common Space Types: Corridor/Transition <8 ft wide, 223 sq.ft.) LED: 2X4 - EX: Other: | 1 | 4 | 32 | 127 |
| 402 - RECEPTION (Healthcare Facility: Nurses Station, 85 sq.ft.) LED: 2X4 - EX: Other: | 1 | 1 | 32 | 32 |
| LED: DOWNLIGHT - NEW: Other: | 1 | 3 | 25 | 75 |

Project Title: Spec Suite 430 - 1441 South Potomac

Data filename:

Report date: 08/19/24

Page 1 of 6

| Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B Lamps/ Fixture | C # of Fixture | D Fixture Watt. | E (C X D) |
|--|------------------------|----------------------|-----------------------|--------------|
| 401 - WAITING (Common Space Types: General Seating Area, 156 sq.ft.) LED: 2X4 - EX: Other: | 1 | 2 | 32 | 63 |
| 407 - RESTROOM (Common Space Types: Restrooms, 68 sq.ft.) LED: 2X2 - EX: Other: LED: VANITY LIGHT - EX: Other: | 1 1 | 1 1 | 27 50 | 27 50 |
| 408 - PROCEDURE (Healthcare Facility: Exam/Treatment, 175 sq.ft.) LED: 2X4 - EX: Other: | 1 | 3 | 32 | 95 |
| 412 - EXAM (Healthcare Facility: Exam/Treatment, 100 sq.ft.) LED: 2X4 - EX: Other: | 1 | 2 | 32 | 63 |
| 413 - EXAM (Healthcare Facility: Exam/Treatment, 102 sq.ft.) LED: 2X4 - EX: Other: | 1 | 2 | 32 | 63 |
| 411 - OFFICE (Common Space Types: Office - Enclosed, 126 sq.ft.) LED: 2X4 - RL: Other: | 1 | 2 | 32 | 63 |
| Total Proposed Watts = 813 | | | | |

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Todd D. Romero - Project Engineer

Todd D. Romero

08/19/2024

Name - Title

Signature


Date

Project Title: Spec Suite 430 - 1441 South Potomac

Data filename:

Report date: 08/19/24

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COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

| Section # & Req.ID | Plan Review | Complies? | Comments/Assumptions |
|--------------------|---|---|--------------------------|
| C103.2 [PR4]1 | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |

Additional Comments/Assumptions:

1 High Impact (Tier 1)

2 Medium Impact (Tier 2)

3 Low Impact (Tier 3)

Project Title: Spec Suite 430 - 1441 South Potomac

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| Section # & Req.ID | Rough-In Electrical Inspection | Complies? | Comments/Assumptions |
|--------------------|--|---|--------------------------|
| C405.2.3.1 [EL22]1 | Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C405.2.1.1 [EL18]1 | Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C405.2.1.2 [EL19]1 | Occupancy sensors control function in warehouses: in warehouses, the lighting in aiseways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C405.2.1.3 [EL20]1 | Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C405.2.2.1 [EL21]1 | Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |

1 High Impact (Tier 1)

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Project Title: Spec Suite 430 - 1441 South Potomac

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| Section # & Req.ID | Rough-In Electrical Inspection | Complies? | Comments/Assumptions |
|--------------------------------|--|---|--------------------------|
| C405.2.4.1, C405.2.4.2 [EL23]1 | Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces. C405.2.3.1 Daylight-responsive control function and section C405.2.3.2 Sidelit zone. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C405.2.5 [EL27]1 | Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C405.7 [EL26]1 | Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C405.8 [EL27]1 | Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist). | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C405.9.1, C405.9.2 [EL28]1 | Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C405.10 [EL29]1 | Total voltage drop across the combination of feeders and branch circuits <= 5%. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C405.1.1 [EL30]1 | At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C405.11, C405.11.1 [EL31]1 | 50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |

Additional Comments/Assumptions:

1 High Impact (Tier 1)

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Project Title: Spec Suite 430 - 1441 South Potomac

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| Section # & Req.ID | Final Inspection | Complies? | Comments/Assumptions |
|----------------------------|---|---|--------------------------|
| C303.3, C408.2.5.2 [F117]1 | Furnished O&M instructions for systems and equipment to the building owner or designated representative. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C408.1.1 [F157]1 | Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C408.2.5 [F116]1 | Furnished as-built drawings for electric power systems within 90 days of system acceptance. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |
| C408.3 [F133]1 | Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation. | <div><input type="checkbox"/>Complies</div> <div><input type="checkbox"/>Does Not</div> <div><input type="checkbox"/>Not Observable</div> <div><input type="checkbox"/>Not Applicable</div> | Requirement will be met. |

Additional Comments/Assumptions:

1 High Impact (Tier 1)

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COLORADO: Denver Office:
7822 South Whelling Ct., Ste B,
Englewood, CO 80112
303-494-1237

NEC: 2023 IEC: 2021



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: A. Sharpley
Date: Sep 04, 2024
2021 INTERNATIONAL CODES & 2023 NEC

1411 S Potomac

1411 S Potomac

Aurora, CO 80012

Suite 430



ANDREW J. K...
46607
08/27/24
PROFESSIONAL ENGINEER
20241102

Speculative Suite 430

Dates of Record

Project Start Date: 07 June 2023

Issued On 08/28/2024 Issued For CLIENT REVIEW

Sheet Contents

Project Team TR/AW

Project Number 20241102.00

Sheet Mark

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