

VILLAGE OF NEWCOMERSTOWN

New Administration Building

308 S COLLEGE ST.
NEWCOMERSTOWN, OH 43832



DRAWING INDEX

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 - E3.1 SPECIFICATIONS

SYMBOLS

| | | |
|----------------------------|--------------------------------|-----------------------------------|
| CONCRETE | POROUS FILL (GRAVEL) | ROUGH WOOD |
| RIGID INSULATION | ASPHALT PAVEMENT | FINISHED WOOD |
| BATT INSULATION | MASONRY UNIT | GROUT FILLED MASONRY UNIT |
| 2 A2.0 DETAIL | 3 A2.0 FULL WALL SECTION | 3 A2.0 PARTIAL WALL SECTION |
| 100.1 DOOR & WINDOW NO. | 100 ROOM NO. | 3 TYPICAL INTERIOR PARTITION |

OBC INFORMATION

302 OCCUPANCY USE GROUP: B; MIXED USE: S-1, A-3

602 CONSTRUCTION TYPE: 5B

503 ALLOWABLE BUILDING HEIGHT & AREA

| | ALLOWABLE | ACTUAL |
|---------|-----------|--------|
| HEIGHT: | 40' | 16' |
| STORY: | 2 | 1 |

504.3 BUILDING AREA

| FLOOR | EXISTING | RENOVATION | TOTAL |
|-------------|----------|------------|----------|
| FIRST FLOOR | 1,550 SF | 4,225 SF | 5,775 SF |

ALLOWABLE BUILDING AREA: 9,000 SF

508.4 SEPERATED OCCUPANCIES
BUILDING DOES NOT REQUIRE FIRE RATED SEPARATION BETWEEN MIXED OCCUPANCIES

906.1 PORTABLE FIRE EXTINGUISHERS
BUILDING IS EQUIPPED WITH PORTABLE FIRE EXTINGUISHERS AT NOTED LOCATIONS ON PLAN

1004 OCCUPANT LOAD

| FUNCTION | AREA | LOAD FACTOR | OCCUPANT LOAD |
|----------------------|-------|-------------|---------------|
| BUSINESS | 2,900 | 100 GROSS | 29 |
| STORAGE | 1,775 | 300 GROSS | 6 |
| ASSEMBLY | 1,100 | 15 NET | 74 |
| TOTAL OCCUPANT LOAD- | | | 109 |

1006.3.1 EGRESS BASED ON OCCUPANT LOAD

| FIRST FLOOR | OCCUPANTS | REQUIRED | PROVIDED |
|-------------|-----------|----------|----------|
| FIRST FLOOR | 109 | 2 | 4 |

1007.2 EXIT ACCESS TRAVEL DISTANCE
OCCUPANCY: B WITHOUT SPRINKLER: 200'
OCCUPANCY: A-3 WITHOUT SPRINKLER:
OCCUPANCY: S-1 WITHOUT SPRINKLER:

1020.1 CORRIDORS
NO CORRIDORS EXCEED 30 OCCUPANTS

12902.1 PLUMBING FIXTURES

| | REQUIRED | PROVIDED |
|--------------------|----------|----------|
| WATER CLOSETS (M): | 1 | 2 |
| WATER CLOSETS (W): | 1 | 2 |
| LAVATORIES (M): | 1 | 2 |
| LAVATORIES (W): | 1 | 2 |
| DRINKING FOUNTAIN: | 1 | 0* |
| SERVICE SINK: | 1 | 1 |

*PER OPC 410.4, DRINKING FOUNTAIN IS NOT REQUIRED AS OWNER TO PROVIDE WATER DISPENSER

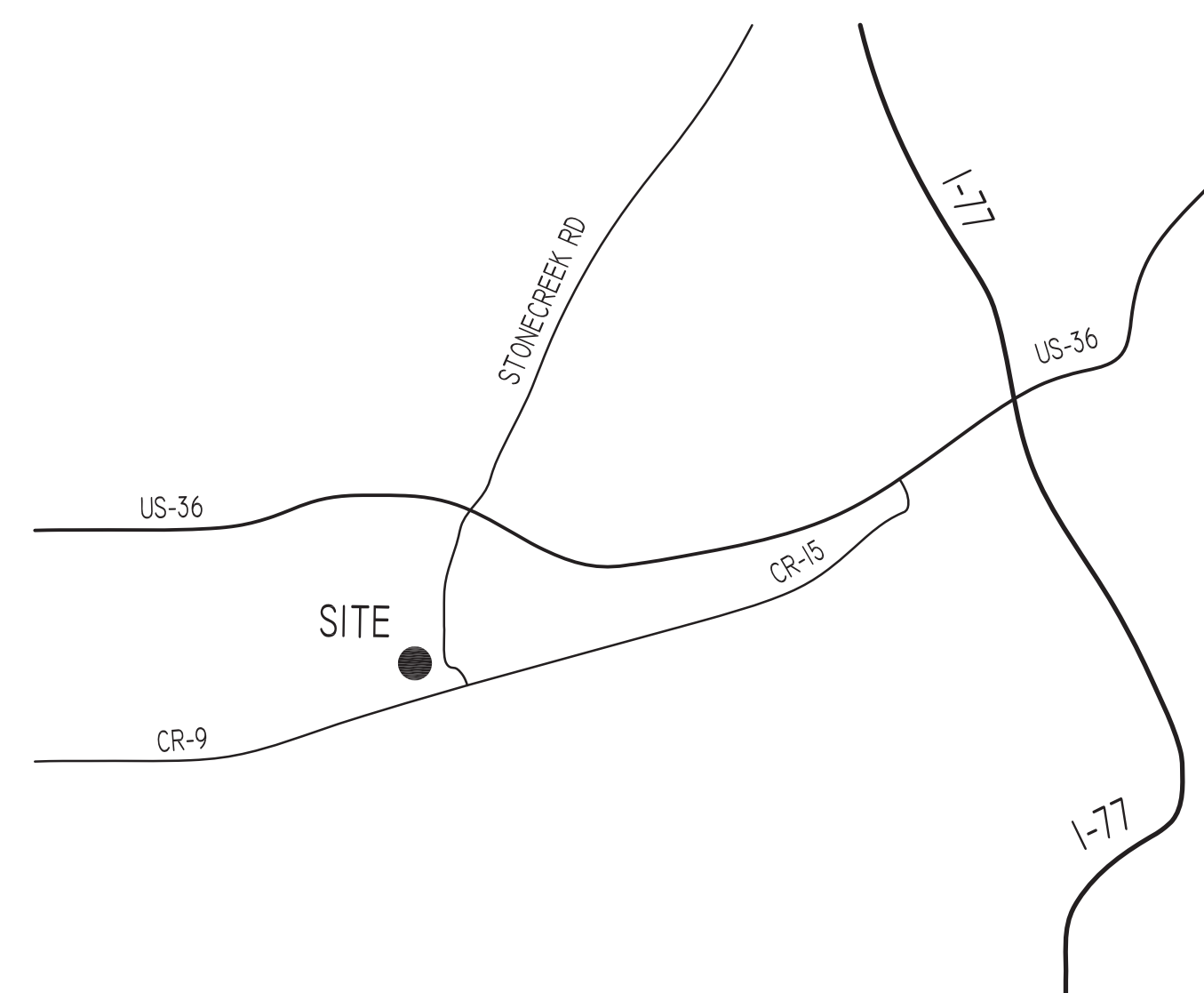
CONSULTANTS

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LOCATION MAP



PROJECT
VILLAGE OF NEWCOMERSTOWN
New Administration Building
308 S COLLEGE ST.
NEWCOMERSTOWN, OH 43832

ISSUED:
03/11/2022 Construction Documents

PROJECT NO.
2029

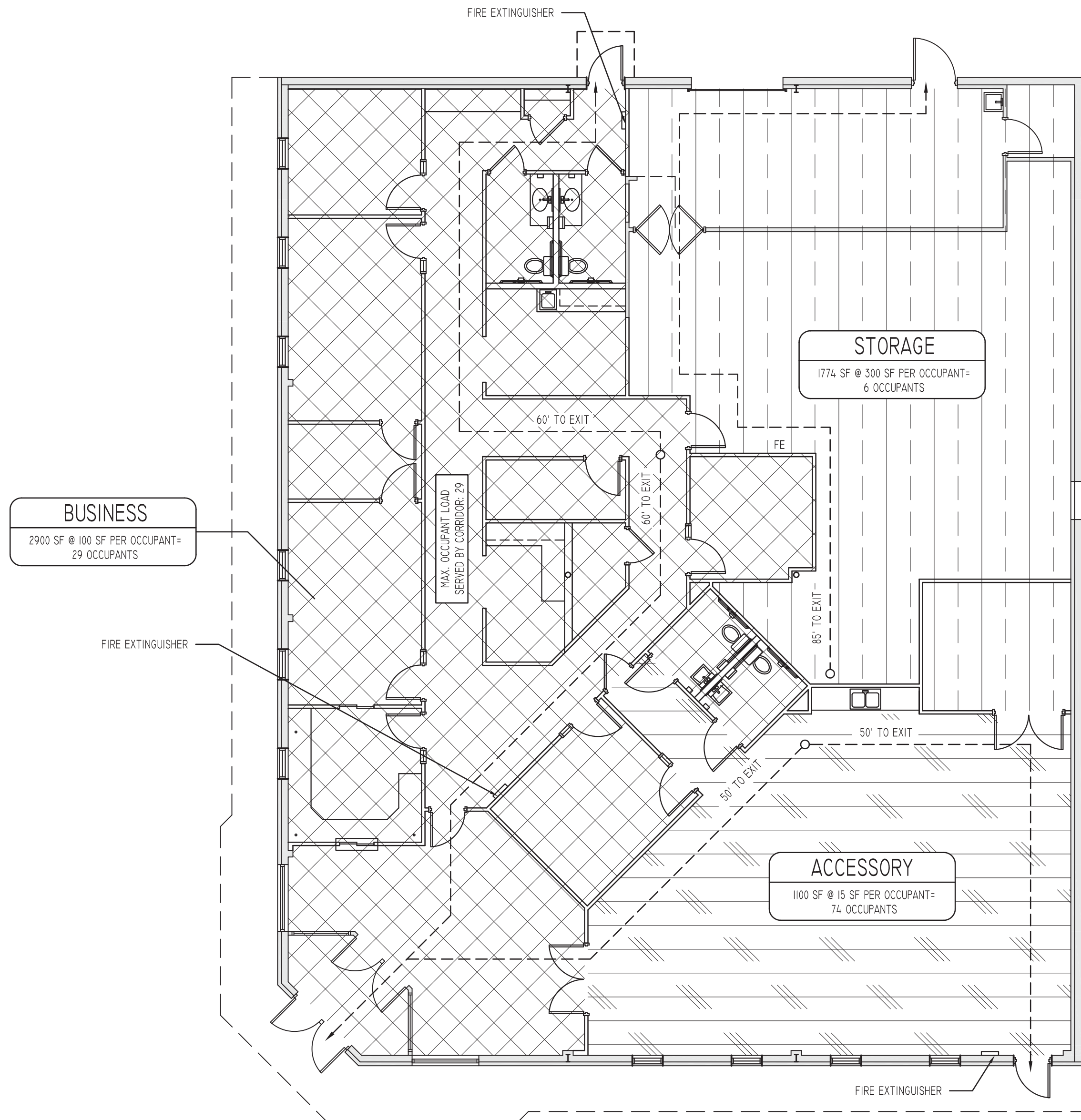
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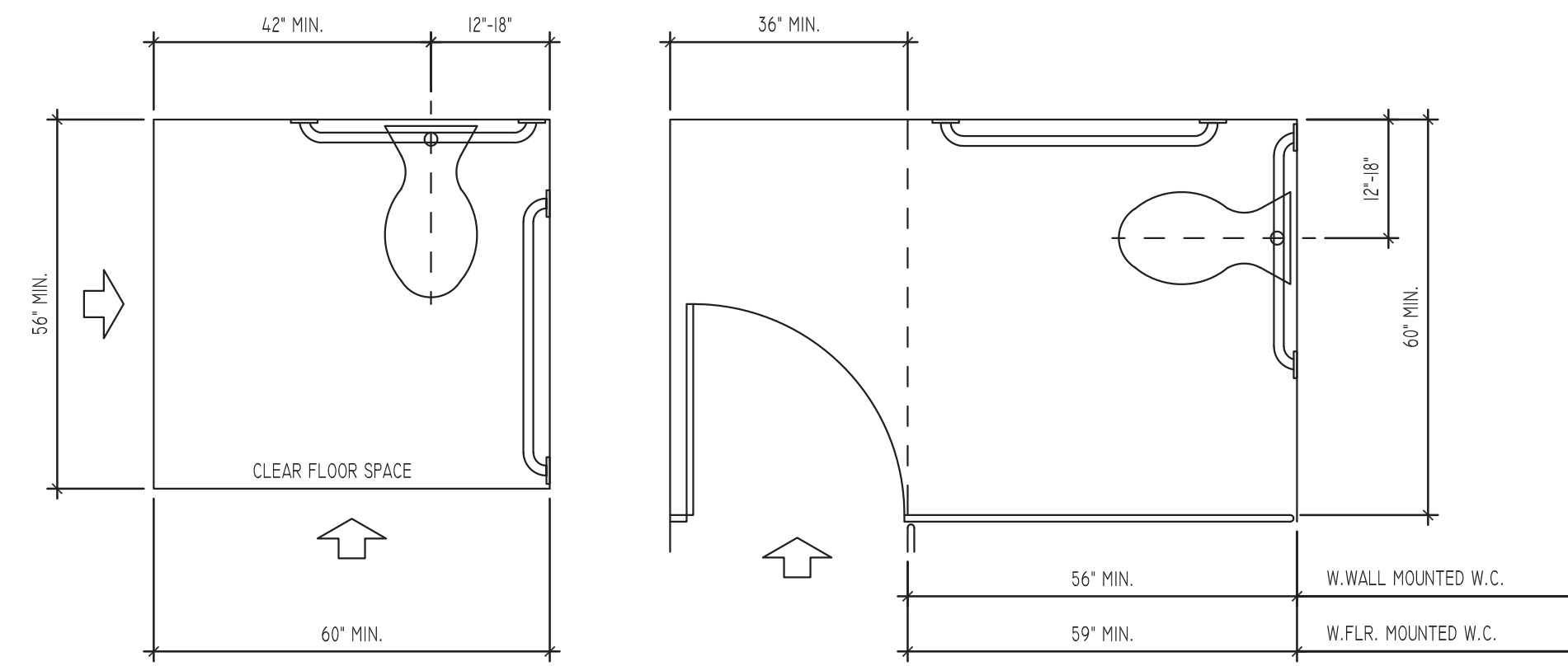
SHEET NAME
TITLE SHEET

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

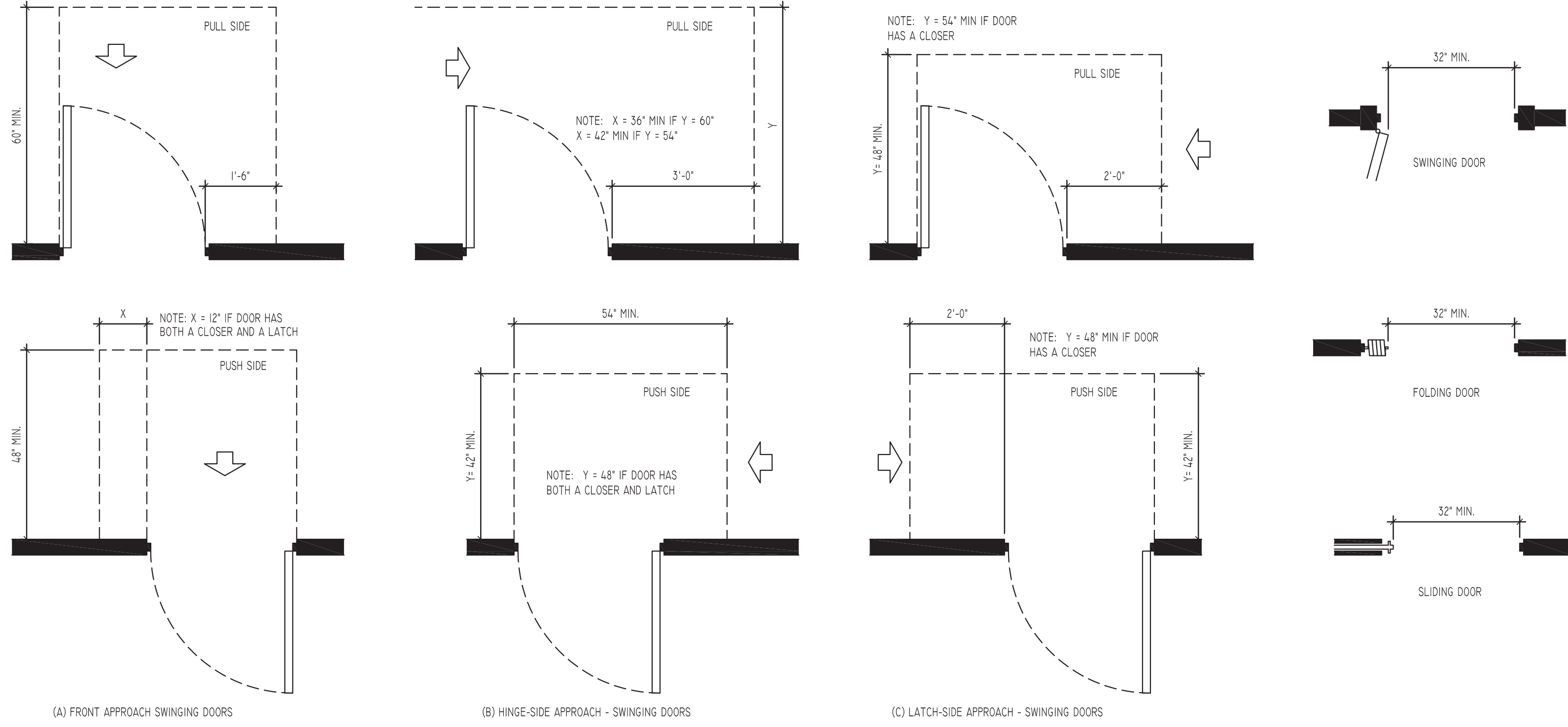
A1.0



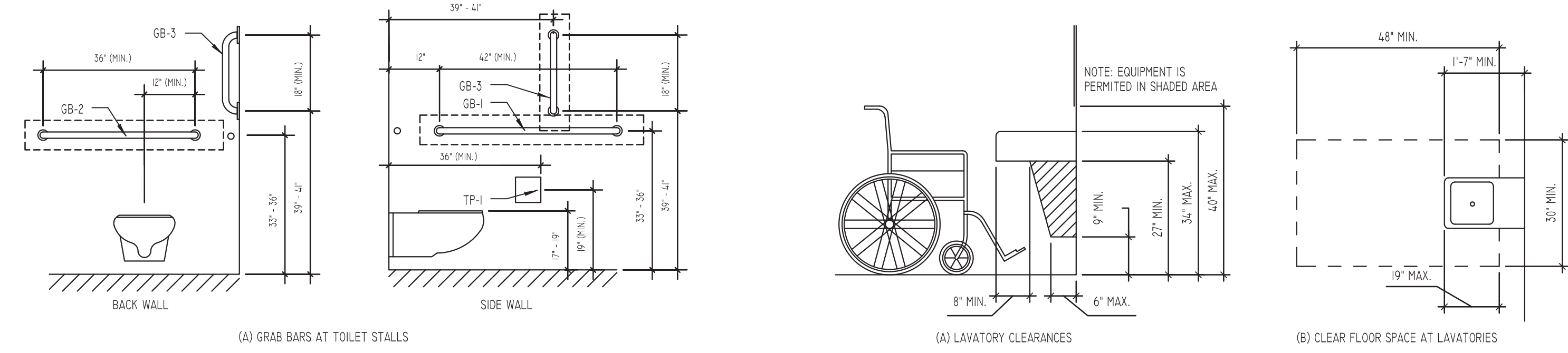
LIFE SAFETY PLAN
1/8" = 1'-0"



1 CLEAR FLOOR SPACE AT WATER CLOSETS
1/2" = 1'-0"

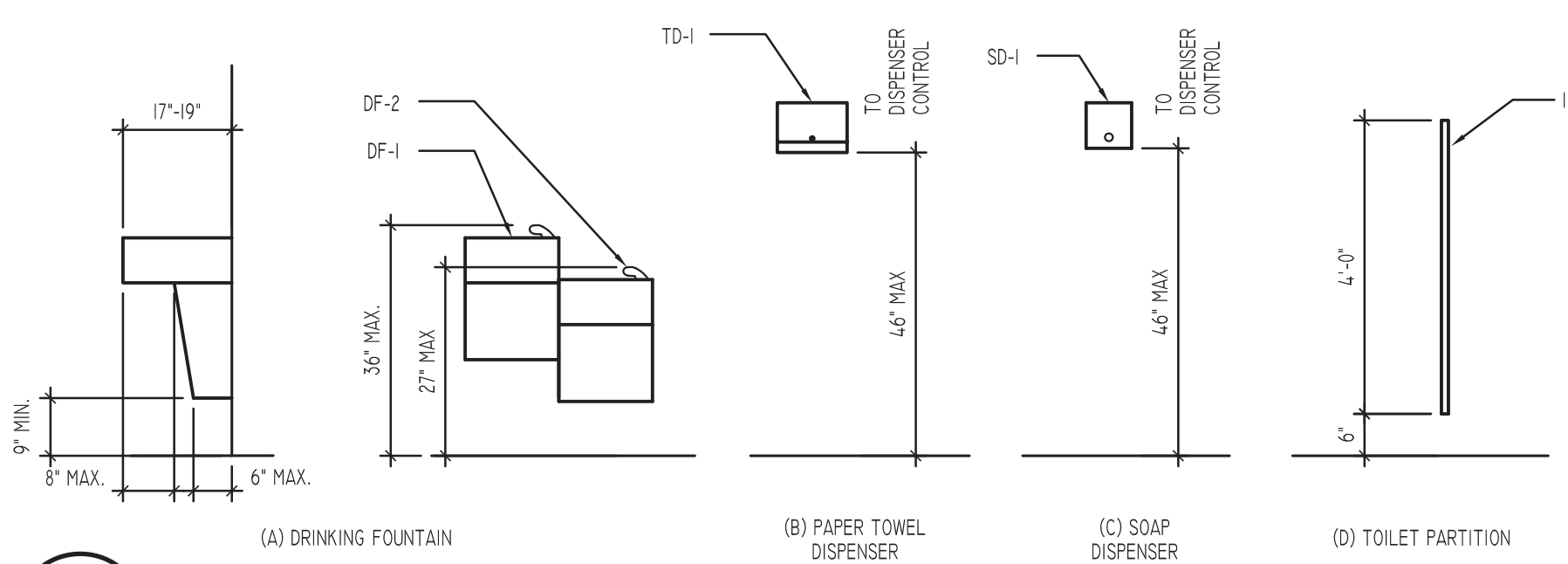


2 MANEUVERING CLEARANCES AT DOORS
1/2" = 1'-0"

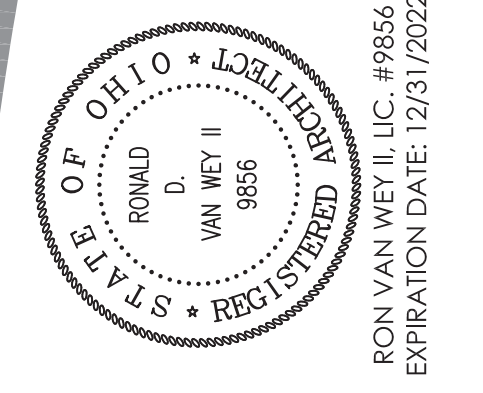


3 GRAB BARS
1/2" = 1'-0"

4 LAVATORY CLEARANCES
1/2" = 1'-0"



5 ACCESSORY FIXTURES
1/2" = 1'-0"



V2A
V 2 ARCHITECTS
903 Steubenville Ave.
Cambridge, OH 43725

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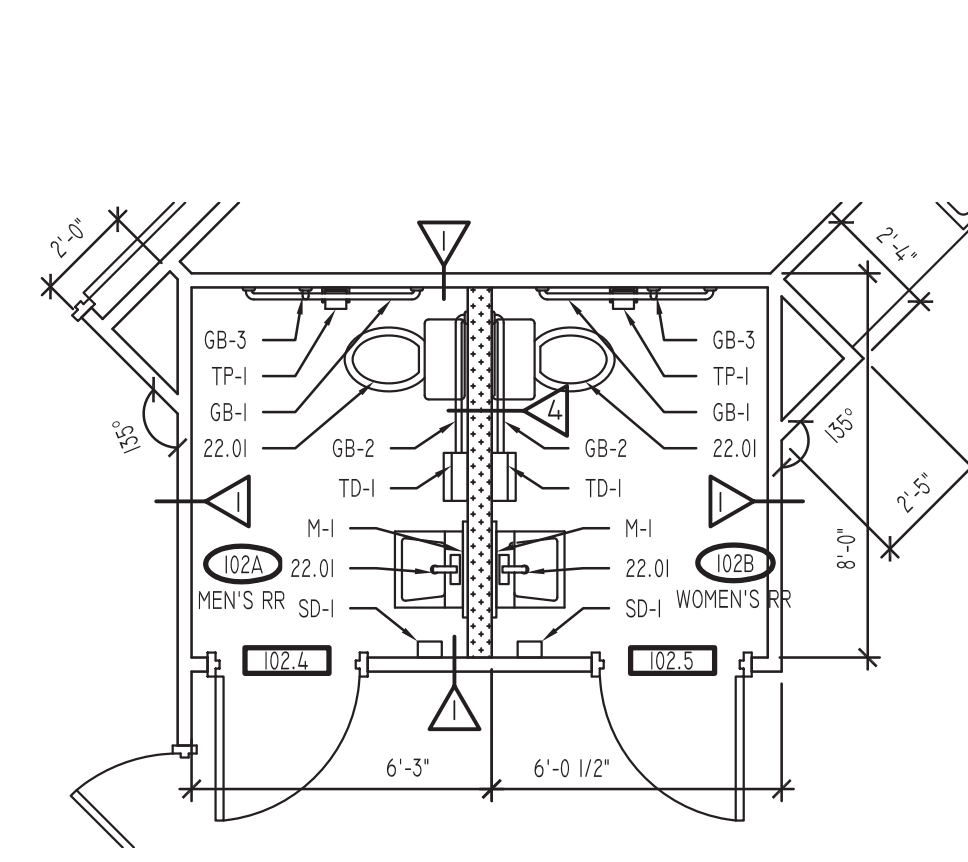
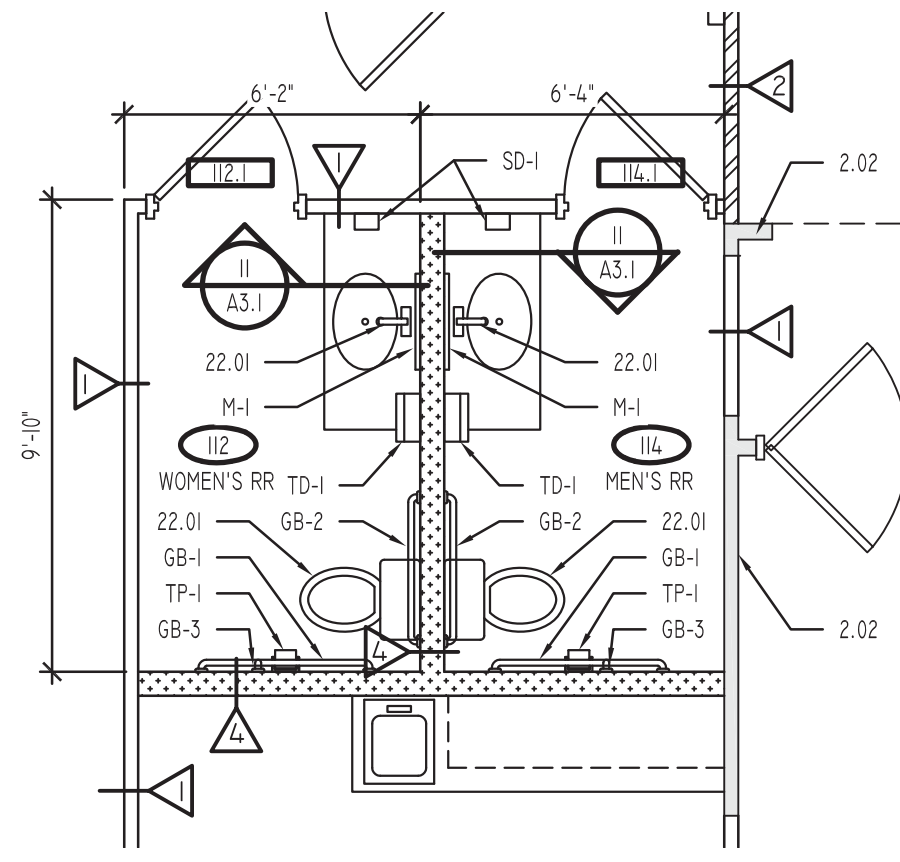
ISSUED: 03/11/2022 Construction Drawings

PROJECT NO. 2029

DRAWN: ZVW

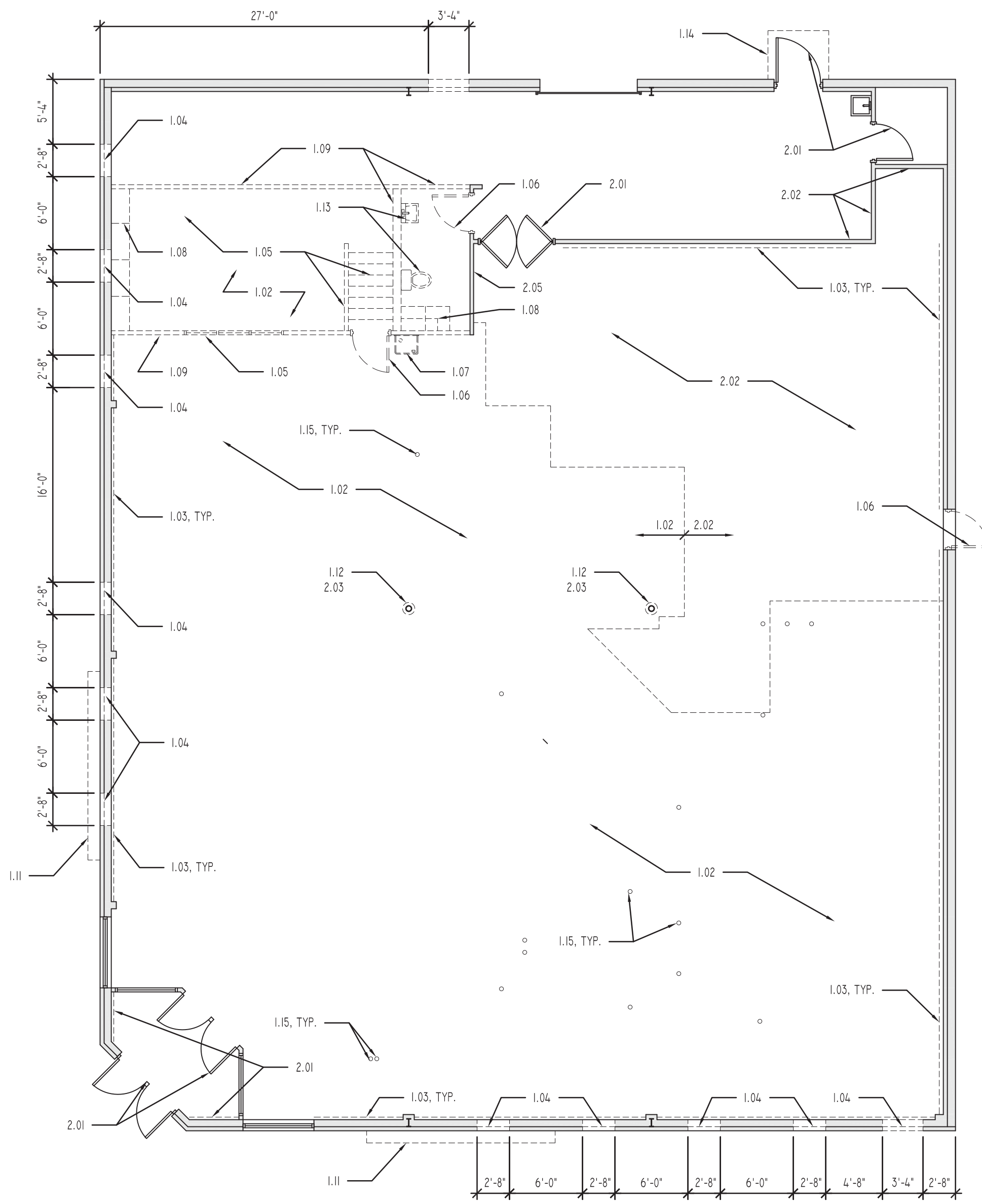
CHECKED: ZVW

SHEET NAME
LIFE SAFETY PLAN &
ACCESSIBILITY DETAILS



1 ENLARGED PLAN
1/4" = 1'-0"

2 ENLARGED PLAN
1/4" = 1'-0"



FIRST DEMO FLOOR PLAN
1/8" = 1'-0"

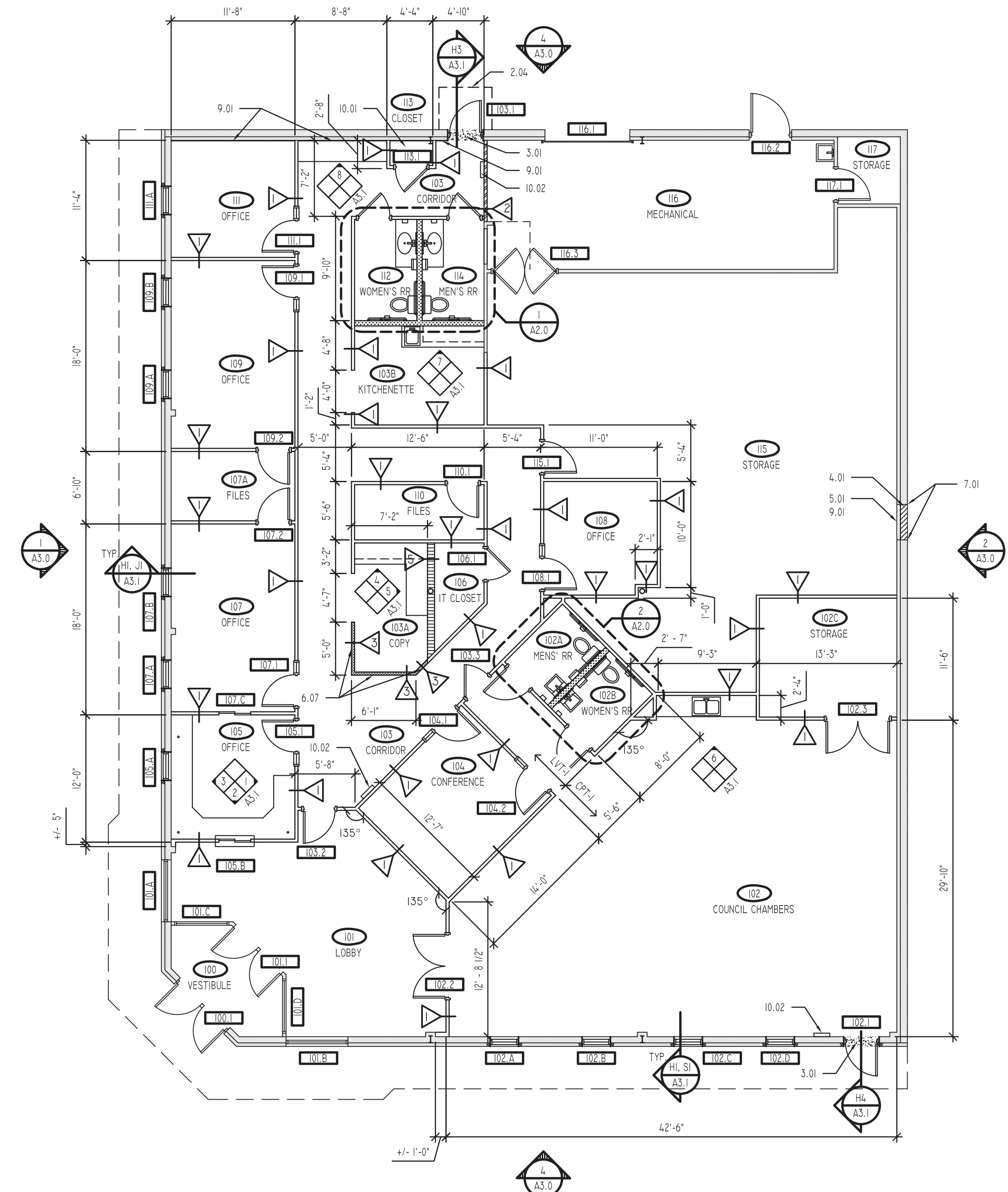
| TOILET ACCESSORY SCHEDULE | | |
|---------------------------|--------------------------|--------------------------------------|
| SYM. | DESCRIPTION | MANUFACTURER |
| GB-1 | GRAB BAR - SIDE WALL 42" | SEE SPECIFICATION |
| GB-2 | GRAB BAR - BACK WALL 36" | SEE SPECIFICATION |
| GB-3 | GRAB BAR - VERTICAL 18" | SEE SPECIFICATION |
| M-1 | MIRROR | SEE SPECIFICATION |
| SD-1 | SOAP DISPENSER | OWNER PROVIDED, CONTRACTOR INSTALLED |
| TD-1 | PAPER TOWEL DISPENSER | OWNER PROVIDED, CONTRACTOR INSTALLED |
| TP-1 | TOILET TISSUE DISPENSER | OWNER PROVIDED, CONTRACTOR INSTALLED |

NOTES:
 1) PROVIDE SOLID BLOCKING AS REQUIRED TO SECURE ALL ACCESSORIES
 2) VERIFY ACCESSORY LOCATION WITH ARCHITECT PRIOR TO INSTALLATION
 3) MOUNT ACCESSORIES TO CENTERLINE UNLESS NOTED OTHERWISE

| GENERAL PATCHING NOTES: | | |
|-------------------------|---|--|
| 1. | PATCH ALL HOLES & OPENINGS IN EXISTING WALLS AFTER DEMO AS FOLLOWS: | |
| • | BRICK WALL | - PATCH ALL HOLES WITH SALVAGED BRICK, MORTAR TO MATCH EXISTING |
| • | CMU WALL | - HOLES UP TO 3" DIAMETER: PATCH WITH MORTAR |
| | | - HOLES & OPENINGS GREATER THAN 3" DIAMETER: CUT OUT FACE SHELL OF BLOCK & TOOTH IN NEW FACE SHELL |

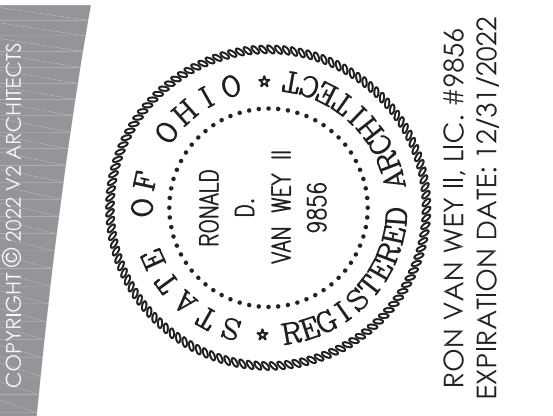
| TYPICAL INTERIOR PARTITIONS SCHEDULE | | | | | |
|--------------------------------------|--------|--------|-----------------------------|--|---------|
| TYPE | SYMBOL | RATING | TESTING AGENCY ASSEMBLY NO. | CONSTRUCTION | REMARKS |
| --- | --- | - | --- | 3 5/8" x 20 GA METAL STUDS @ 16" o.c. W/ 5/8" GYP. BOARD EACH SIDE & FULL HEIGHT SOUND ATTENUATION INSULATION. | 1, 2, 4 |
| --- | --- | - | --- | 3 5/8" x 20 GA METAL STUDS @ 16" o.c. W/ 5/8" GYP. BOARD EACH SIDE & FULL HEIGHT SOUND ATTENUATION INSULATION. | 1, 2, 3 |
| --- | --- | - | --- | 3 5/8" x 20 GA METAL STUDS @ 16" o.c. W/ 5/8" GYP. BOARD EACH SIDE. | 1, 2, 5 |
| --- | --- | - | --- | 6" x 20 GA METAL STUDS @ 16" o.c. W/ 5/8" GYP. BOARD EACH SIDE & FULL HEIGHT SOUND ATTENUATION INSULATION. | 1, 2, 4 |
| --- | --- | - | --- | 8" x 20 GA METAL STUDS @ 16" o.c. W/ 5/8" GYP. BOARD EACH SIDE & FULL HEIGHT SOUND ATTENUATION INSULATION. | 1, 2, 4 |

REMARKS:
 1) CONTRACTOR OPTION TO PROVIDE WOOD STUDS IN LIEU OF METAL STUDS
 2) BOTTOM 48" OF WALL TO BE ABUSE RESISTANT DRYWALL
 3) EXTEND WALL TO BOTTOM OF METAL DECK
 4) EXTEND WALL TO MIN. 4" ABOVE ADJACENT CEILING
 5) TOP OF WALL TO BE AT 42" A.F.F. SEE NOTE 6.10 FOR MORE INFORMATION



FIRST FLOOR PLAN
1/8" = 1'-0"

| TYPICAL NOTES: | |
|--------------------------------------|--|
| • | CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE PROCEEDING WITH WORK. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF METAL STUD PARTITIONS, OR CENTERLINE OF COLUMNS. |
| • | FOLLOW ALL MANUFACTURERS INSTRUCTIONS & SPECIFICATIONS FOR INSTALLATION UNLESS OTHERWISE INSTRUCTED BY THE ARCHITECT. CONTRACTOR TO PROVIDE CLEAN, COMPACTED BACKFILL IN ALL EXCAVATED AREAS. BLEND NEW FINISH GRADES WITH UNDISTURBED AREAS. ALL EXTERIOR CONCRETE TO BE BROOM FINISH UNLESS NOTED OTHERWISE. |
| • | CONTRACTOR TO COORDINATE WITH ALL TRADES FOR CLEARANCE REQUIREMENTS, BLOCKING, BRACING, ETC. |
| • | COORDINATE WITH O.U.P.S. PRIOR TO EXCAVATION. |
| • | ALL ANCHORS, FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL. ALL FASTENERS MUST MATCH CONNECTORS, GALVANIZED WITH GALVANIZED OR STAINLESS WITH STAINLESS. |
| CODED NOTES: | |
| • | NOT ALL THE MATERIALS LISTED HERE ARE NECESSARILY USED ON THIS SHEET. |
| 1.00 DEMOLITION | |
| 1.01 | REMOVE EXISTING SLATED WALL SYSTEM, PATCH / REPAIR DRYWALL AS REQUIRED TO PROVIDE FINISHED SURFACE |
| 1.02 | REMOVE EXISTING CEILING TILE, GRID, & LIGHTING AS REQUIRED FOR NEW CONSTRUCTION. SALVAGE AND TURN OVER ALL CEILING TILE & LIGHTING TO OWNER IN NEW CEILING LOCATIONS. REFER TO FINISH SCHEDULE & REFLECTED CEILING PLAN FOR MORE INFORMATION |
| 1.03 | REMOVE EXISTING EXPOSED 2x WOOD, PATCH / REPAIR DRYWALL AS REQUIRED TO PROVIDE FINISHED SURFACE |
| 1.04 | REMOVE PORTION OF EXISTING WALL AS REQUIRED FOR NEW OPENING. SALVAGE ALL MASONRY FOR REINSTALLATION |
| 1.05 | REMOVE EXISTING WINDOW AND FRAME IN ITS ENTIRETY |
| 1.06 | REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY |
| 1.07 | REMOVE EXISTING DRINKING FOUNTAIN & TURN OVER TO OWNER |
| 1.08 | REMOVE EXISTING CASEWORK & TURN OVER TO OWNER |
| 1.09 | REMOVE EXISTING EXISTING WALL |
| 1.10 | REMOVE EXISTING STAIR & BUILT UP FLOOR SYSTEM IN ITS ENTIRETY |
| 1.11 | REMOVE EXISTING EXTERIOR BACKLIT SIGN SYSTEM, REMAINING OPENINGS UP TO 3" DIAMETER, PATCH WITH MORTAR, REMAINING OPENINGS GREATER THAN 3" DIAMETER, PLACE NEW BRICK |
| 1.12 | REMOVE EXISTING COLUMN WRAP |
| 1.13 | REMOVE EXISTING PLUMBING FIXTURES & TURN OVER TO OWNER |
| 1.14 | REMOVE & RELOCATE EXISTING AWNING, SEE PLAN & ELEVATION FOR NEW LOCATION |
| 1.15 | REMOVE EXISTING ELECTRICAL BOXES & ASSOCIATED WIRING - SEE ELECTRICAL DRAWINGS |
| 2.00 EXISTING CONDITIONS | |
| 2.01 | EXISTING DOORS TO REMAIN, CLEAN ANY EXISTING RESIDUE |
| 2.02 | EXISTING CEILING TILE, GRID & LIGHTING TO REMAIN. REFER TO FINISH SCHEDULE & REFLECTED CEILING PLAN FOR MORE INFORMATION |
| 2.03 | EXISTING STEEL COLUMN TO REMAIN |
| 2.04 | RELOCATED LOCATION OF EXISTING AWNING |
| 2.05 | PORTION OF EXISTING WALL TO REMAIN |
| 3.00 CONCRETE | |
| 3.01 | 4" CONCRETE INFILL, MATCH EXISTING FINISH FLOOR HEIGHT |
| 3.02 | 4x8 PRECAST LINTEL W/ (1) #4 TOP & BOTTOM |
| 3.03 | GROUT SOLID (2) ADJACENT CELLS AT EACH JAMB OF NEW OPENING |
| 4.00 MASONRY | |
| 4.01 | 8" CMU INFILL |
| 4.02 | TOOTH IN SALVAGED MASONRY AS REQUIRED AT JAMB & HEAD. MORTAR TO MATCH EXISTING |
| 4.03 | REPLACE DAMAGED BRICK W/ SALVAGED BRICK. MORTAR TO MATCH EXISTING |
| 4.04 | BRICK SILL FROM SALVAGED BRICK. MORTAR TO MATCH EXISTING |
| 4.05 | 4" x 8" CAST STONE LINTEL W/ 8" BEARING EACH SIDE OF OPENING |
| 5.00 METALS | |
| 5.01 | METAL FURRING AS REQUIRED TO MATCH EXISTING WALL DEPTH |
| 5.02 | METAL STUD FRAMING - SEE INTERIOR PARTITION SCHEDULE |
| 6.00 WOOD AND PLASTICS | |
| 6.01 | LAMINATE CLAD WOOD CABINETS |
| 6.02 | LAMINATE COUNTERTOP |
| 6.03 | ANGLE SUPPORT AT 24" O.C. |
| 6.04 | ANGLE SUPPORT AT 48" O.C. |
| 6.05 | GROMMET, SEE PLAN FOR LOCATION |
| 6.06 | LAMINATE FILLER PANEL |
| 6.07 | LAMINATE LEDGE, SIMILAR TO WS2/A2.1 |
| 7.00 THERMAL AND MOISTURE PROTECTION | |
| 7.01 | SEALANT |
| 7.02 | SOUND ATTENUATION INSULATION |
| 7.03 | FLASHING |
| 8.00 DOORS & WINDOWS | |
| 8.01 | MAN DOOR - SEE DOOR SCHEDULE |
| 8.02 | WINDOW - SEE WINDOW SCHEDULE |
| 9.00 FINISHES | |
| 9.01 | 5/8" GYPSUM BOARD, ABUSE RESISTANT BELOW 48" |
| 9.02 | PAINT ENTIRE METAL CANOPY & PARAPET CAP. CLEAN SURFACE & REMOVE/REPLACE ANY IMPERFECTIONS PRIOR TO PAINTING |
| 9.03 | PAINT CMU WALL ALONG WITH ALL ASSOCIATED WALL MOUNTED CONDUIT & GAS LINES. CLEAN ALL SURFACES & REMOVE/REPAIR ANY IMPERFECTIONS PRIOR TO PAINTING |
| 9.04 | PAINT EXISTING DOOR & FRAME |
| 10.00 SPECIALTIES | |
| 10.01 | COAT RACK & SHELF |
| 10.02 | FIRE EXTINGUISHER W/ RECESSED CABINET |



V2A
 V2 ARCHITECTS
 903 Steubenville Ave.
 Cambridge, OH 43725

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ISSUED:
 03/11/2022 Construction Drawings

PROJECT NO.
 2029

DRAWN:
 ZVW

CHECKED:
 ZVW

SHEET NAME
 FLOOR PLANS

A2.0

| WINDOW SCHEDULE | | | | | | |
|-----------------|-----------|----------------|-------|-------|------------|---------|
| NO. | OPERATION | SIZE | FRAME | | DETAILS | REMARKS |
| | | | ELEV | TYPE | | |
| 100 A | FIXED | 5'-10" X 5'-8" | EXIST | EXIST | - | - |
| 100 B | FIXED | 5'-10" X 5'-8" | EXIST | EXIST | - | - |
| 100 C | FIXED | 5'-10" X 6'-6" | EXIST | EXIST | - | - |
| 100 D | FIXED | 5'-10" X 6'-6" | EXIST | EXIST | - | - |
| 102 A | FIXED | 2'-8" X 4'-8" | D | ALUM. | HI, SI, JI | - |
| 102 B | FIXED | 2'-8" X 4'-8" | D | ALUM. | HI, SI, JI | - |
| 102 C | FIXED | 2'-8" X 4'-8" | D | ALUM. | HI, SI, JI | - |
| 102 D | FIXED | 2'-8" X 4'-8" | D | ALUM. | HI, SI, JI | - |
| 105 A | FIXED | 2'-8" X 4'-8" | D | ALUM. | HI, SI, JI | - |
| 105 B | OPERABLE | 3'-0" X 3'-0" | E | ALUM. | H2, S3, J2 | - |
| 107 A | FIXED | 2'-8" X 4'-8" | D | ALUM. | HI, SI, JI | - |
| 107 B | FIXED | 2'-8" X 4'-8" | D | ALUM. | HI, SI, JI | - |
| 107 C | OPERABLE | 3'-0" X 3'-0" | E | ALUM. | H2, S2, J2 | - |
| 109 A | FIXED | 2'-8" X 4'-8" | D | ALUM. | HI, SI, JI | - |
| 109 B | FIXED | 2'-8" X 4'-8" | D | ALUM. | HI, SI, JI | - |
| 111 A | FIXED | 2'-8" X 4'-8" | D | ALUM. | HI, SI, JI | - |

| MATERIALS LEGEND | | | |
|------------------|-----------------------------|-----------------------|---------|
| MARK | MATERIAL | MANUFACTURER / FINISH | REMARKS |
| FLOORING | | | |
| EXIST. | EXISTING FLOORING TO REMAIN | - | - |
| LVT-I | LUXURY VINYL TILE | SEE SPECIFICATION | - |
| CPT-I | CARPET TILE | SEE SPECIFICATION | - |
| BASE | | | |
| EXIST. | EXISTING BASE TO REMAIN | - | - |
| B-4 | 4" VINYL WALL BASE | SEE SPECIFICATION | - |
| WALLS | | | |
| PT-I | WALL PAINT | SEE SPECIFICATION | - |
| CEILINGS | | | |
| EXIST. | EXISTING CEILING TO REMAIN | - | - |
| ACT-I | ACOUSTIC CEILING TILE | SEE SPECIFICATION | - |

| FINISH SCHEDULE | | | | | | | | | | | | |
|-----------------|------------------|-------------|-------|-------|------|------|------|----------|--------|---------|--|--|
| NO. | ROOM NAME | FLOOR | BASE | WALLS | | | | CEILING | | REMARKS | | |
| | | | | N | E | S | W | MATERIAL | HEIGHT | | | |
| 100 | VESTIBULE | EXIST | EXIST | PT-I | PT-I | PT-I | PT-I | EXIST. | N/A | - | | |
| 101 | LOBBY | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 9'-6" | - | | |
| 102 | COUNCIL CHAMBERS | CPT-I/LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | VARIES | 1, 2 | | |
| 102A | MEN'S RR | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 8'-0" | - | | |
| 102B | WOMEN'S RR | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 8'-0" | - | | |
| 102C | STORAGE | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 9'-0" | - | | |
| 103 | CORRIDOR | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 9'-0" | - | | |
| 103A | COPY | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 9'-0" | - | | |
| 103B | KITCHENETTE | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 9'-0" | - | | |
| 104 | CONFERENCE | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 9'-0" | - | | |
| 105 | OFFICE | CPT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 9'-0" | - | | |
| 106 | IT CLOSET | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 8'-0" | - | | |
| 107 | OFFICE | CPT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 9'-0" | - | | |
| 107A | FILES | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 9'-0" | - | | |
| 108 | OFFICE | CPT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 9'-0" | - | | |
| 109 | OFFICE | CPT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 9'-0" | - | | |
| 110 | FILES | LVT-I | EXIST | PT-I | PT-I | PT-I | PT-I | ACT-I | 8'-0" | - | | |
| 111 | OFFICE | CPT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 9'-0" | - | | |
| 112 | WOMEN'S RR | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 8'-0" | - | | |
| 113 | CLOSET | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 8'-0" | - | | |
| 114 | MEN'S RR | LVT-I | B-4 | PT-I | PT-I | PT-I | PT-I | ACT-I | 8'-0" | - | | |
| 115 | STORAGE | EXIST | EXIST | PT-I | PT-I | PT-I | PT-I | EXIST | - | - | | |
| 116 | MECHANICAL | EXIST | EXIST | PT-I | PT-I | PT-I | PT-I | EXIST | - | - | | |
| 117 | SORAGE | EXIST | EXIST | PT-I | PT-I | PT-I | PT-I | EXIST | - | - | | |

| DOOR SCHEDULE | | | | | | | | | | | | |
|---------------|--------------------|-------|---------|---------|-------|---------|--------------|---------|--|--|--|--|
| NO. | SIZE | DOOR | | DETAILS | FRAME | | HARDWARE SET | REMARKS | | | | |
| | | ELEV | TYPE | | ELEV | TYPE | | | | | | |
| 100.1 | (2) 3'-0" X 7'-0" | EXIST | EXIST | - | EXIST | EXIST | XX | - | | | | |
| 101.1 | (2) 3'-0" X 7'-0" | EXIST | EXIST | - | B | H. MTL. | XX | - | | | | |
| 102.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H4, J4 | A | H. MTL. | XX | - | | | | |
| 102.2 | (2) 3'-0" X 7'-0" | 2 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 102.3 | (2) 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 102.4 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 102.5 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 103.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H3, J3 | A | H. MTL. | XX | - | | | | |
| 103.2 | 3'-0" X 7'-0" | 2 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 103.3 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 104.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | C | H. MTL. | XX | - | | | | |
| 104.2 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | C | H. MTL. | XX | - | | | | |
| 105.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | C | H. MTL. | XX | - | | | | |
| 106.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 107.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | C | H. MTL. | XX | - | | | | |
| 107.2 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 108.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | C | H. MTL. | XX | - | | | | |
| 109.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | C | H. MTL. | XX | - | | | | |
| 109.2 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 110.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 111.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | C | H. MTL. | XX | - | | | | |
| 112.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 113.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 114.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 115.1 | 3'-0" X 7'-0" | 1 | H. MTL. | H5, J5 | B | H. MTL. | XX | - | | | | |
| 116.1 | 8'-0" X 9'-0" | EXIST | EXIST | - | EXIST | EXIST | EXIST | - | | | | |
| 116.2 | 3'-8" X 7'-0" | EXIST | EXIST | - | EXIST | EXIST | EXIST | - | | | | |
| 116.3 | (2) 3'-0" X 6'-10" | EXIST | EXIST | - | EXIST | EXIST | EXIST | - | | | | |
| 117.1 | 3'-0" X 6'-8" | EXIST | EXIST | - | EXIST | EXIST | EXIST | - | | | | |

TYPICAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE PROCEEDING WITH WORK. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF METAL STUD PARTITIONS, OR CENTERLINE OF COLUMNS.
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- CONTRACTOR TO PROVIDE CLEAN, COMPACTED BACKFILL IN ALL EXCAVATED AREAS. BLEND NEW FINISH GRADES WITH UNDISTURBED AREAS. ALL EXTERIOR CONCRETE TO BE BROOM FINISH UNLESS NOTED OTHERWISE.
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CODED NOTES:

- NOT ALL THE MATERIALS LISTED HERE ARE NECESSARILY USED ON THIS SHEET.

- 1.00 DEMOLITION**
- 1.01 REMOVE EXISTING SLATED WALL SYSTEM, PATCH / REPAIR DRYWALL AS REQUIRED TO PROVIDE FINISHED SURFACE
 - 1.02 REMOVE EXISTING CEILING TILE, GRID, & LIGHTING AS REQUIRED FOR NEW CONSTRUCTION. SALVAGE AND TURN OVER ALL CEILING TILE & LIGHTING TO OWNER IN NEW CEILING LOCATIONS. REFER TO FINISH SCHEDULE & REFLECTED CEILING PLAN FOR MORE INFORMATION
 - 1.03 REMOVE EXISTING EXPOSED 2x WOOD, PATCH / REPAIR DRYWALL AS REQUIRED TO PROVIDE FINISHED SURFACE
 - 1.04 REMOVE PORTION OF EXISTING WALL AS REQUIRED FOR NEW OPENING. SALVAGE ALL MASONRY FOR REINSTALLATION
 - 1.05 REMOVE EXISTING WINDOW AND FRAME IN ITS ENTIRETY
 - 1.06 REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY
 - 1.07 REMOVE EXISTING DRINKING FOUNTAIN & TURN OVER TO OWNER
 - 1.08 REMOVE EXISTING CASEWORK & TURN OVER TO OWNER
 - 1.09 REMOVE EXISTING EXISTING WALL
 - 1.10 REMOVE EXISTING STAIR & BUILT UP FLOOR SYSTEM IN ITS ENTIRETY
 - 1.11 REMOVE EXISTING EXTERIOR BACKLIT SIGN SYSTEM, REMAINING OPENINGS UP TO 3" DIAMETER, PATCH WITH MORTAR, REMAINING OPENINGS GREATER THAN 3" DIAMETER, PLACE NEW BRICK
 - 1.12 REMOVE EXISTING COLUMN WRAP
 - 1.13 REMOVE EXISTING PLUMBING FIXTURES & TURN OVER TO OWNER
 - 1.14 REMOVE & RELOCATE EXISTING AWNING, SEE PLAN & ELEVATION FOR NEW LOCATION
 - 1.15 REMOVE EXISTING ELECTRICAL BOXES & ASSOCIATED WIRING - SEE ELECTRICAL DRAWINGS
- 2.00 EXISTING CONDITIONS**
- 2.01 EXISTING DOORS TO REMAIN, CLEAN ANY EXISTING RESIDUE
 - 2.02 EXISTING CEILING TILE, GRID & LIGHTING TO REMAIN. REFER TO FINISH SCHEDULE & REFLECTED CEILING PLAN FOR MORE INFORMATION
 - 2.03 EXISTING STEEL COLUMN TO REMAIN
 - 2.04 RELOCATED LOCATION OF EXISTING AWNING
 - 2.05 PORTION OF EXISTING WALL TO REMAIN

- 3.00 CONCRETE**
- 3.01 4" CONCRETE INFILL, MATCH EXISTING FINISH FLOOR HEIGHT
 - 3.02 4x8 PRECAST LINTEL W/ (1) #4 TOP & BOTTOM
 - 3.03 GROUT SOLID (2) ADJACENT CELLS AT EACH JAMB OF NEW OPENING

- 4.00 MASONRY**
- 4.01 8" CMU INFILL
 - 4.02 TOOTH IN SALVAGED MASONRY AS REQUIRED AT JAMB & HEAD. MORTAR TO MATCH EXISTING
 - 4.03 REPLACE DAMAGED BRICK W/ SALVAGED BRICK. MORTAR TO MATCH EXISTING
 - 4.04 BRICK SILL FROM SALVAGED BRICK. MORTAR TO MATCH EXISTING
 - 4.05 4" x 8" CAST STONE LINTEL W/ 8" BEARING EACH SIDE OF OPENING

- 5.00 METALS**
- 5.01 METAL FURRING AS REQUIRED TO MATCH EXISTING WALL DEPTH
 - 5.02 METAL STUD FRAMING - SEE INTERIOR PARTITION SCHEDULE

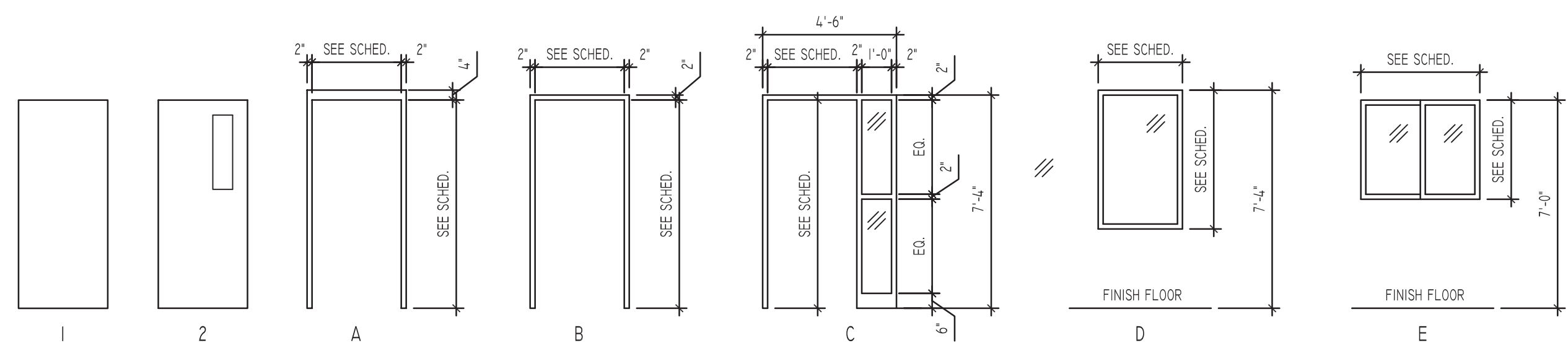
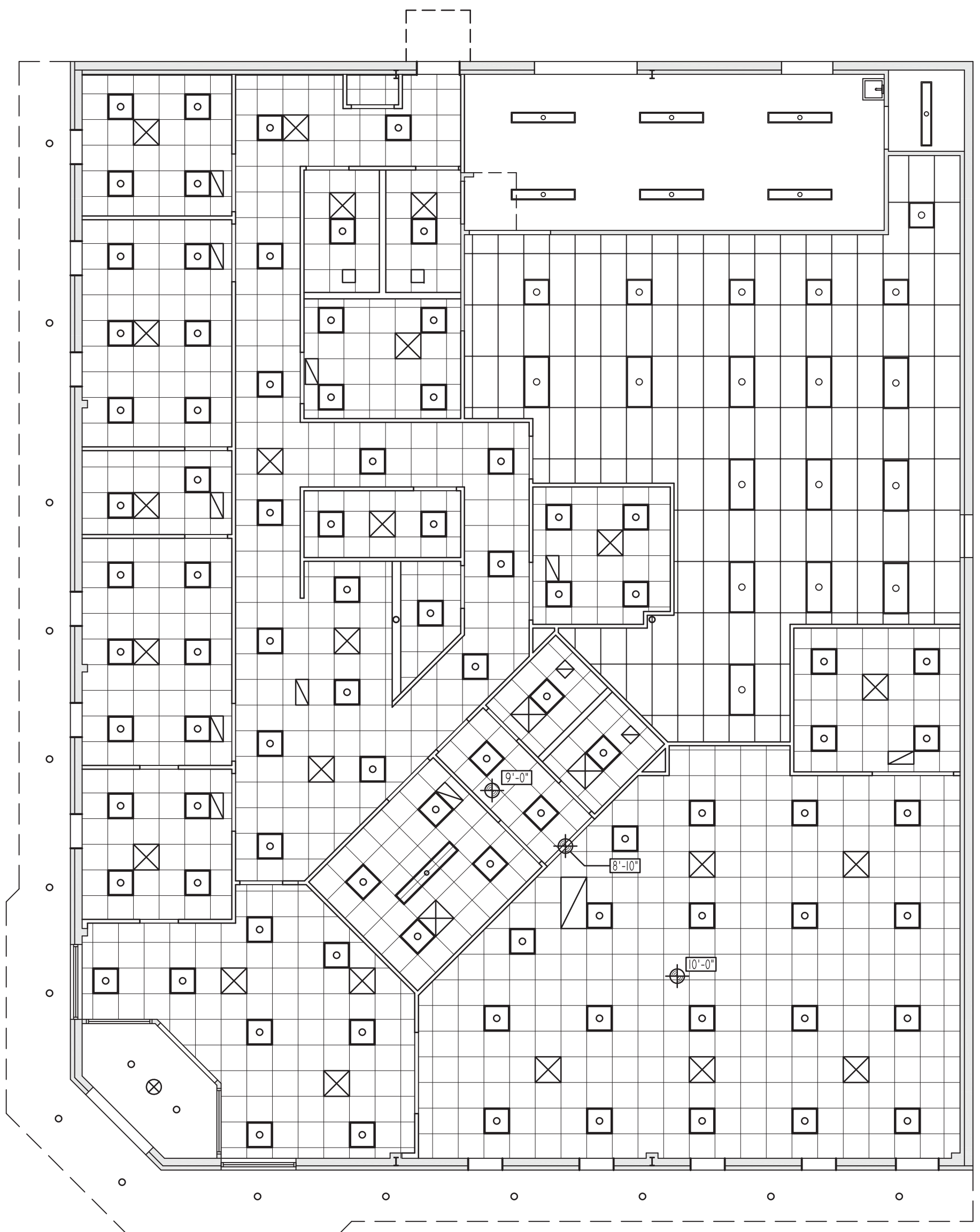
- 6.00 WOOD AND PLASTICS**
- 6.01 LAMINATE CLAD WOOD CABINETS
 - 6.02 LAMINATE COUNTERTOP
 - 6.03 ANGLE SUPPORT AT 24" O.C.
 - 6.04 ANGLE SUPPORT AT 48" O.C.
 - 6.05 GROMMET, SEE PLAN FOR LOCATION
 - 6.06 LAMINATE FILLER PANEL
 - 6.07 LAMINATE LEDGE, SIMILAR TO WS2/A2.1

- 7.00 THERMAL AND MOISTURE PROTECTION**
- 7.01 SEALANT
 - 7.02 SOUND ATTENUATION INSULATION
 - 7.03 FLASHING

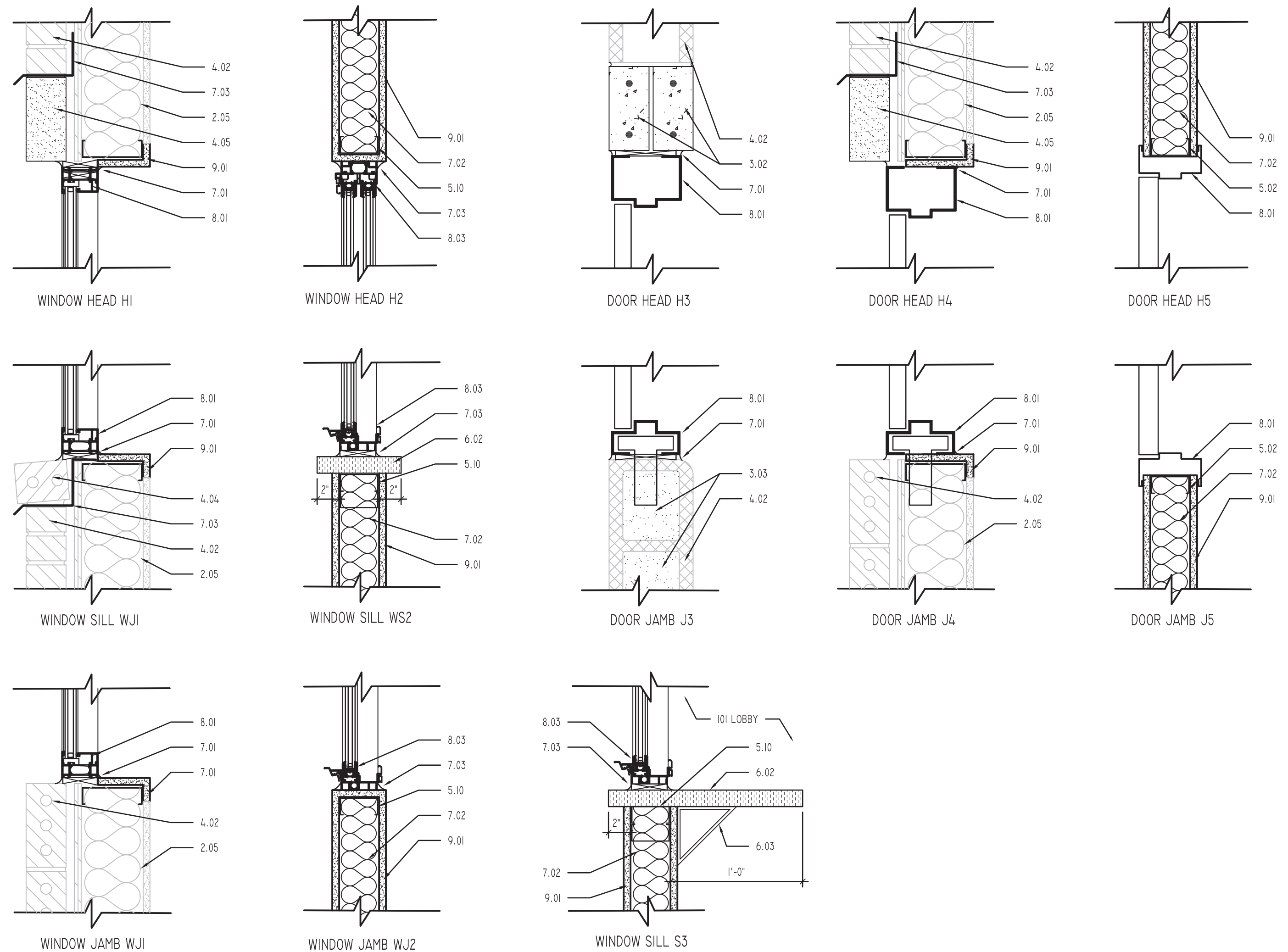
- 8.00 DOORS & WINDOWS**
- 8.01 MAN DOOR - SEE DOOR SCHEDULE
 - 8.02 WINDOW - SEE WINDOW SCHEDULE

- 9.00 FINISHES**
- 9.01 5/8" GYPSUM BOARD, ABUSE RESISTANT BELOW 48"
 - 9.02 PAINT ENTIRE METAL CANOPY & PARAPET CAP. CLEAN SURFACE & REMOVE/REPLACE ANY IMPERFECTIONS PRIOR TO PAINTING
 - 9.03 PAINT CMU WALL ALONG WITH ALL ASSOCIATED WALL MOUNTED CONDUIT & GAS LINES. CLEAN ALL SURFACES & REMOVE/REPAIR ANY IMPERFECTIONS PRIOR TO PAINTING
 - 9.04 PAINT EXISTING DOOR & FRAME

- 10.00 SPECIALTIES**
- 10.01 COAT RACK & SHELF
 - 10.02 FIRE EXTINGUISHER W/ RECESSED CABINET



DOOR, WINDOW, AND FRAME ELEVATIONS
N.T.S.



HEAD, JAMB AND SILL DETAILS
N.T.S.

V2A ARCHITECTS
903 Streubenville Ave.
Cambridge, OH 43725

PROJECT
VILLAGE OF NEWCOMERSTOWN
New Administration Building
308 S COLLEGE ST.
NEWCOMERSTOWN, OH 43832

ISSUED:
03/11/2022 Construction Drawings

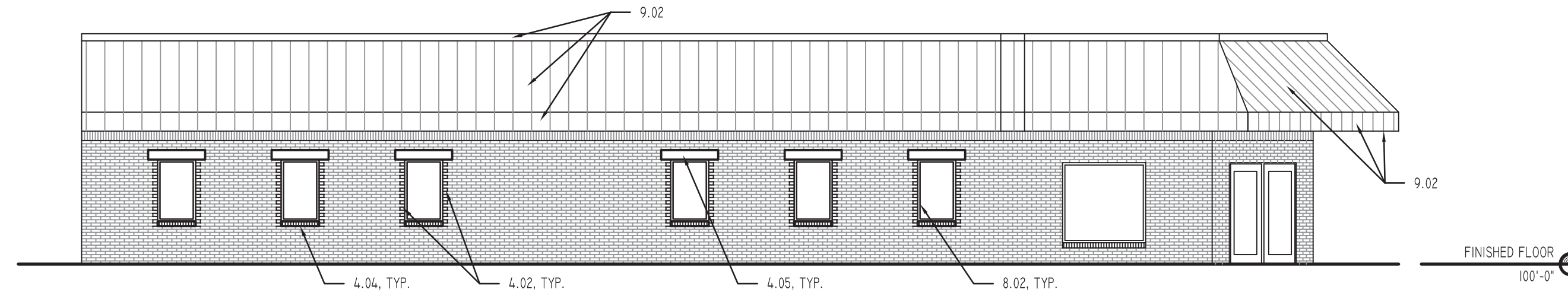
PROJECT NO.
2029

DRAWN:
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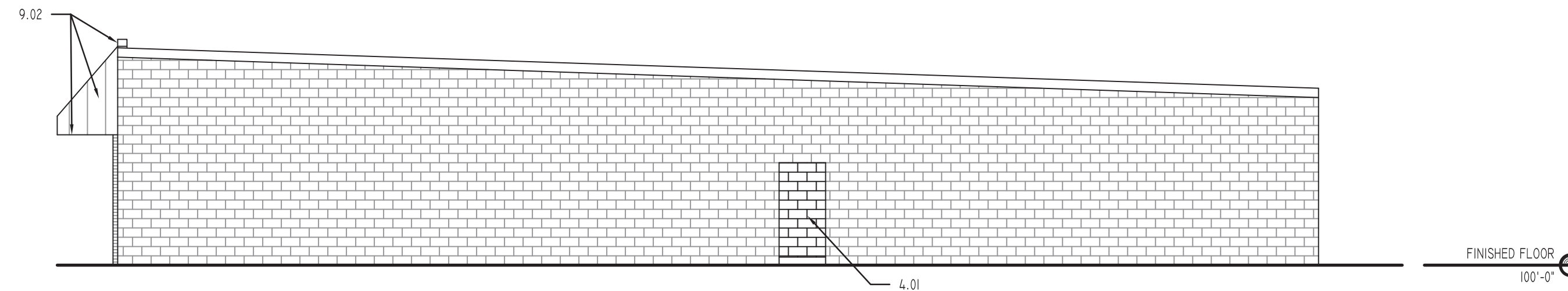
CHECKED:
ZVW

SHEET NAME
CEILING PLAN, SCHEDULES & FRAME ELEVATIONS

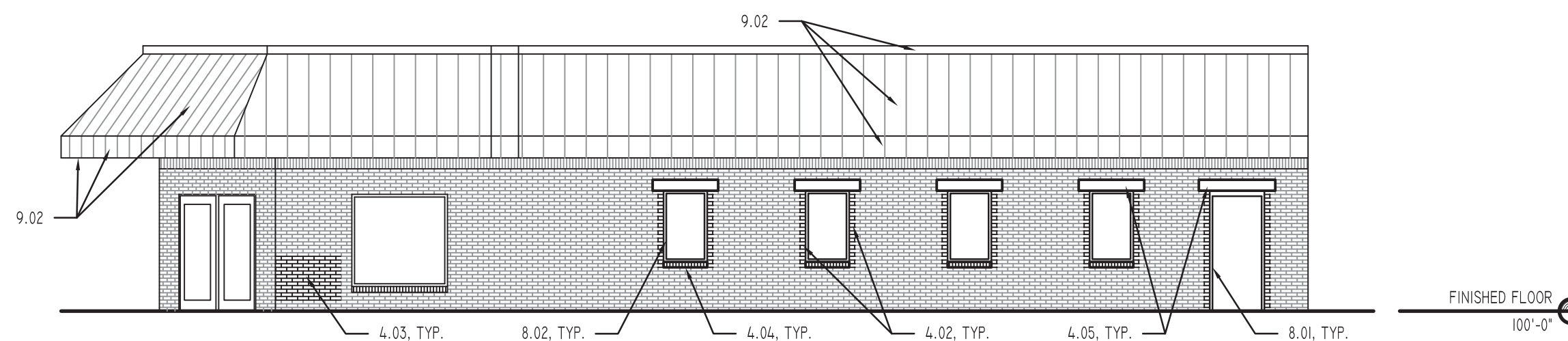
A2.1



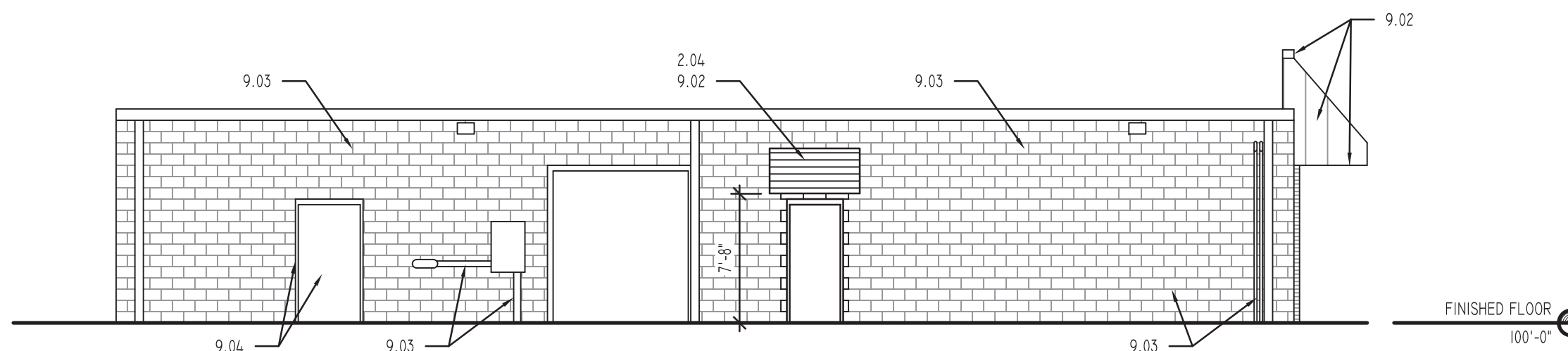
1 SOUTH ELEVATION
A3.0
1/8" = 1'-0"



2 NORTH ELEVATION
A3.0
1/8" = 1'-0"



3 SOUTH ELEVATION
A3.0
1/8" = 1'-0"



4 NORTH ELEVATION
A3.0
1/8" = 1'-0"

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COPYRIGHT © 2022 V2 ARCHITECTS
 STATE OF OHIO • J. J. LEBLANC
 RONALD D. VAN WEY II
 9856
 REGISTERED
 EXPIRATION DATE: 12/31/2022
 RON VAN WEY II, LIC. #9856
 EXPIRATION DATE: 12/31/2022

V2A
 V2 ARCHITECTS
 903 Steubenville Ave.
 Cambridge, OH 43725

PROJECT
 VILLAGE OF NEWCOMERSTOWN
 New Administration Building
 308 S COLLEGE ST.
 NEWCOMERSTOWN, OH 43882

ISSUED:
 03/11/2022 Construction Drawings

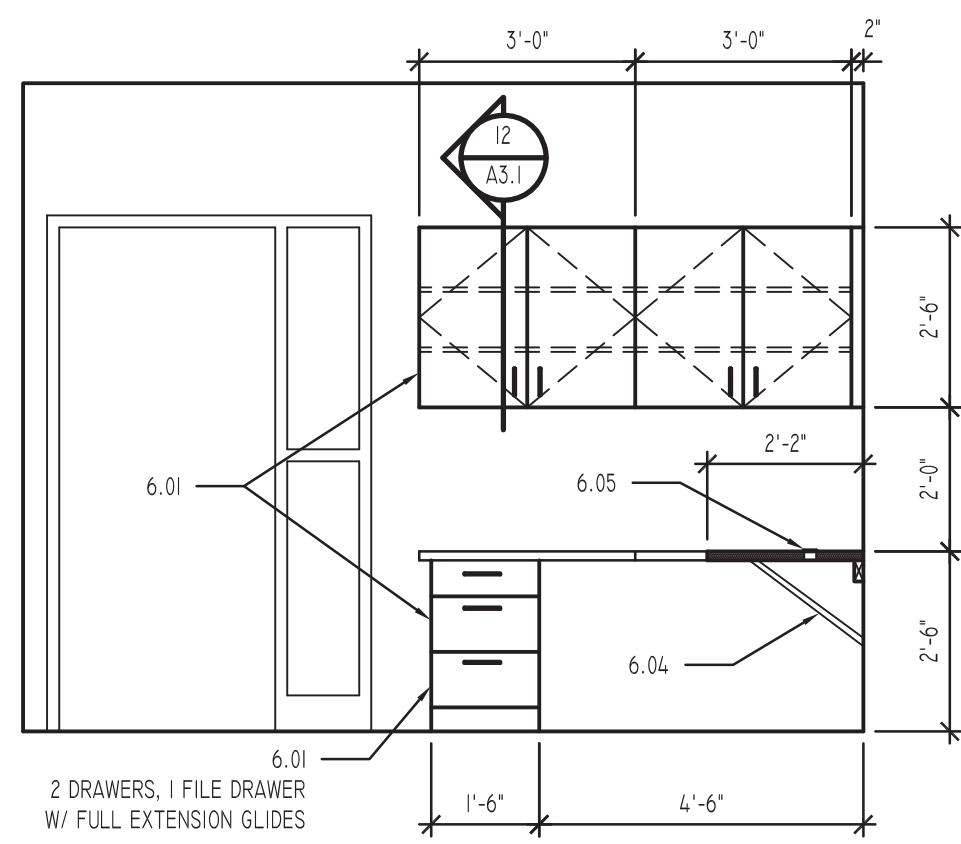
PROJECT NO.
 2029

DRAWN:
 ZVW

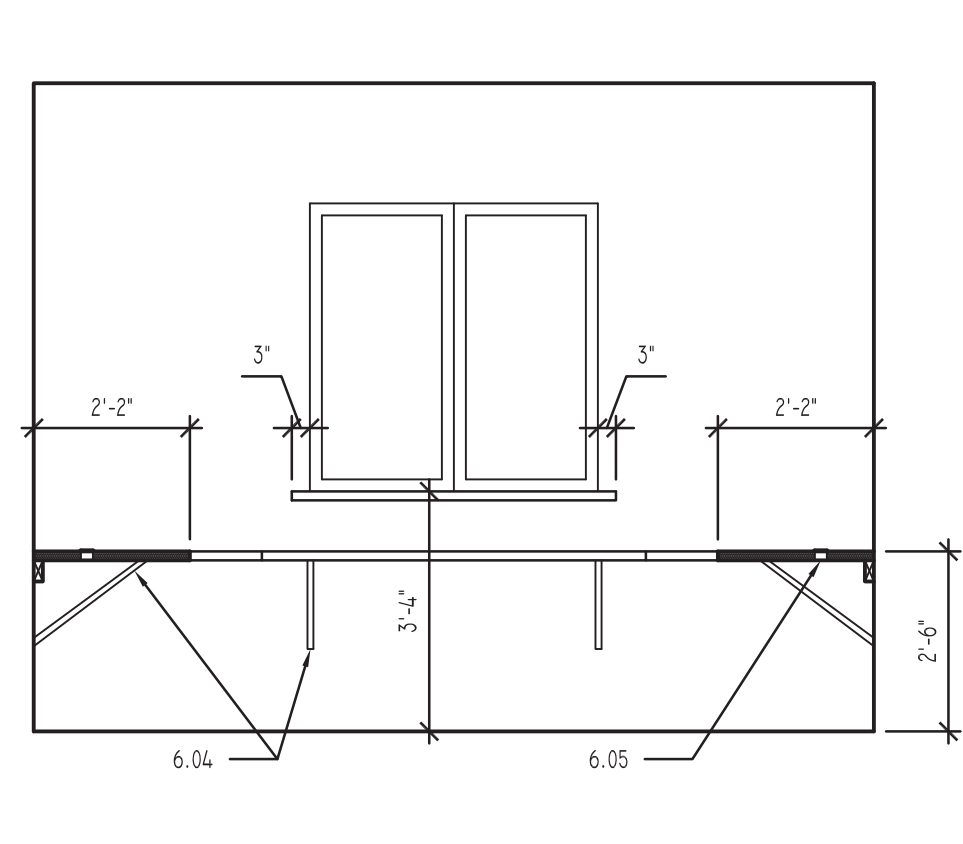
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 ZVW

SHEET NAME
 EXTERIOR ELEVATIONS

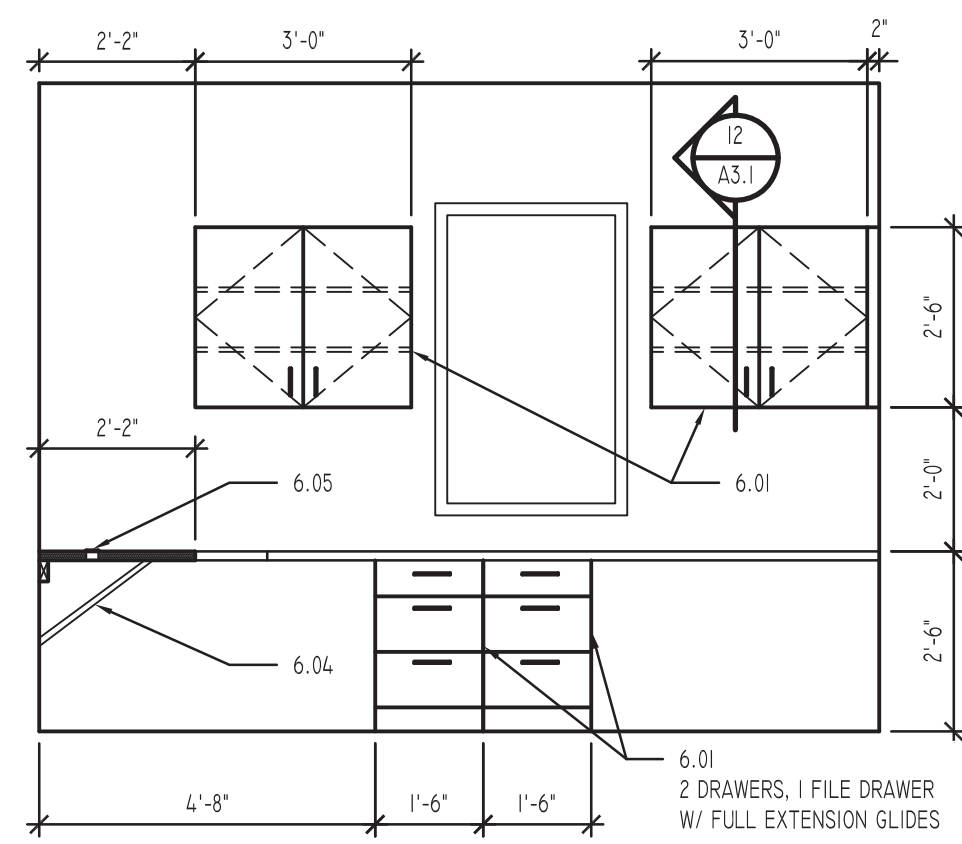
A3.0



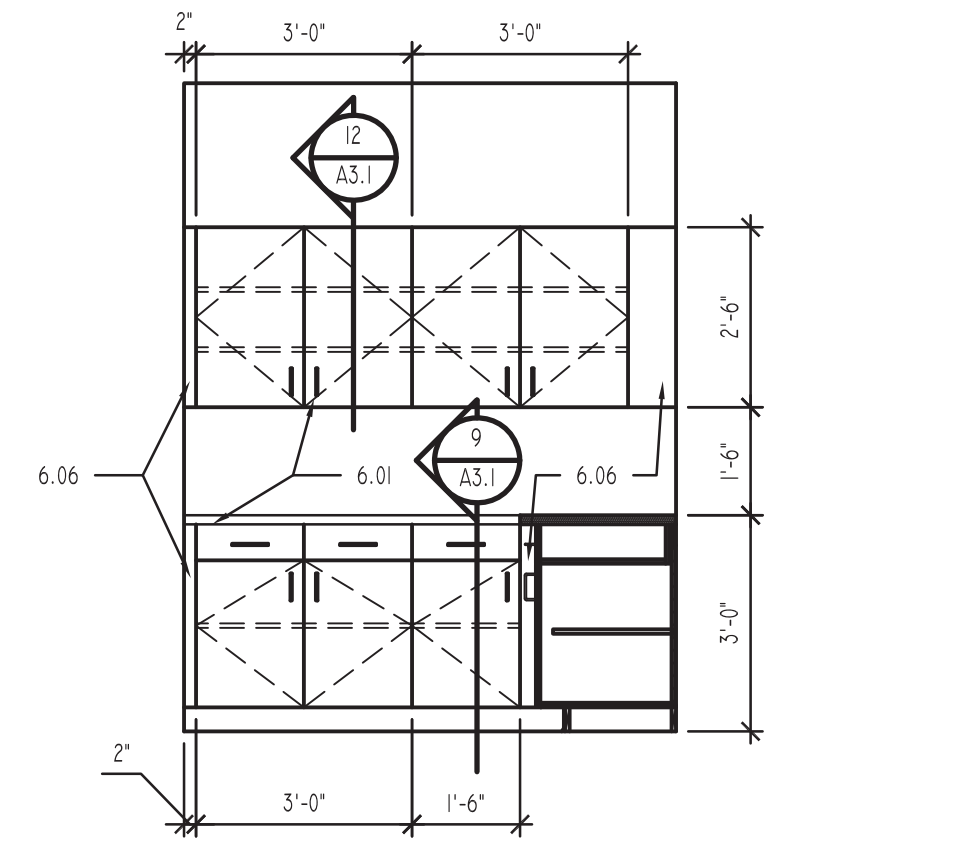
1 CASEWORK ELEVATION
A3.1 N.T.S.



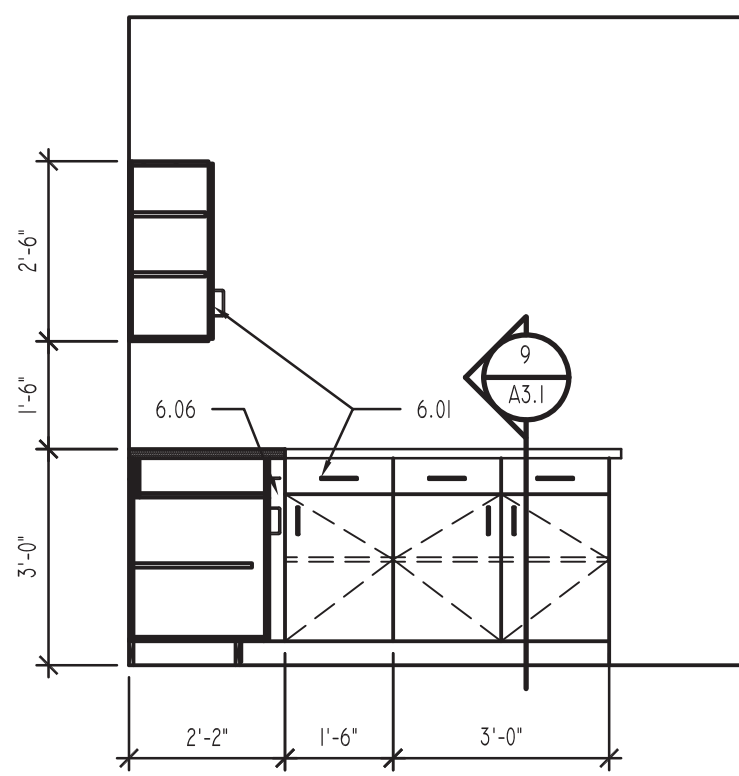
2 CASEWORK ELEVATION
A3.1 N.T.S.



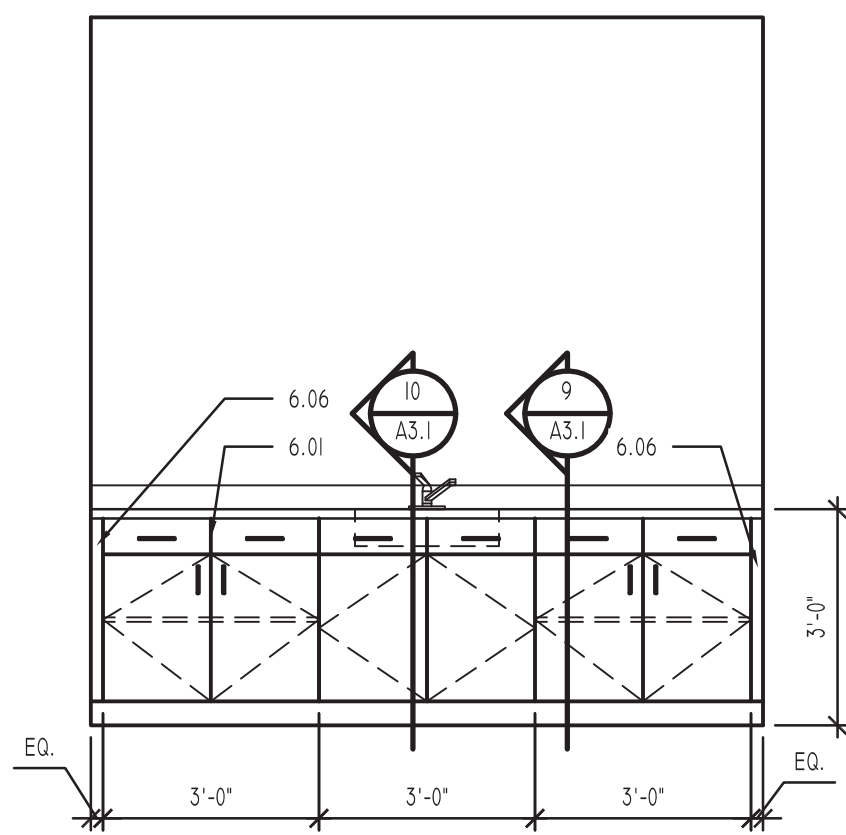
3 CASEWORK ELEVATION
A3.1 N.T.S.



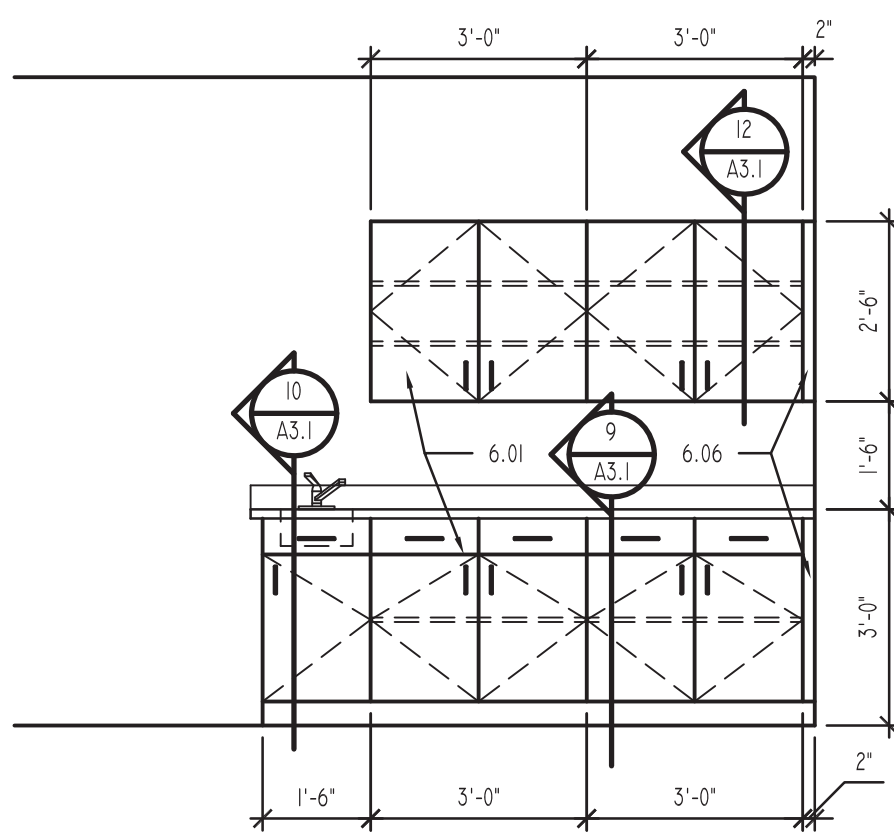
4 CASEWORK ELEVATION
A3.1 N.T.S.



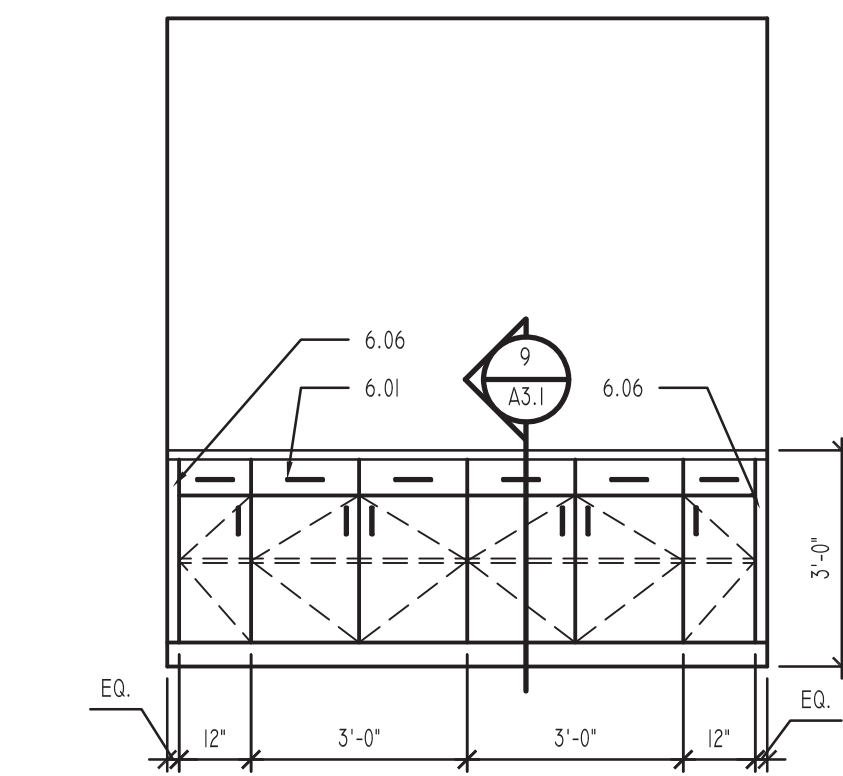
5 CASEWORK ELEVATION
A3.1 N.T.S.



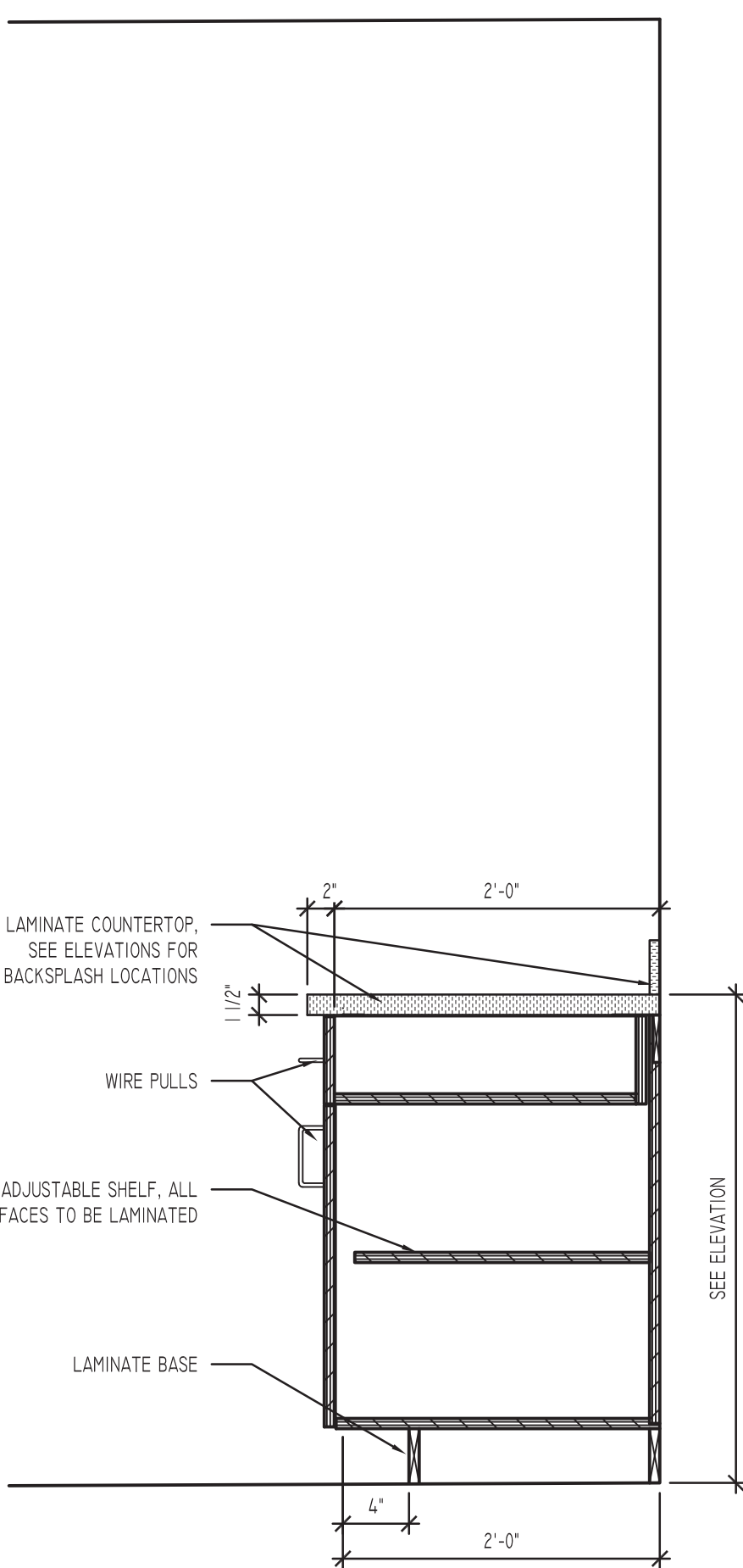
6 CASEWORK ELEVATION
A3.1 N.T.S.



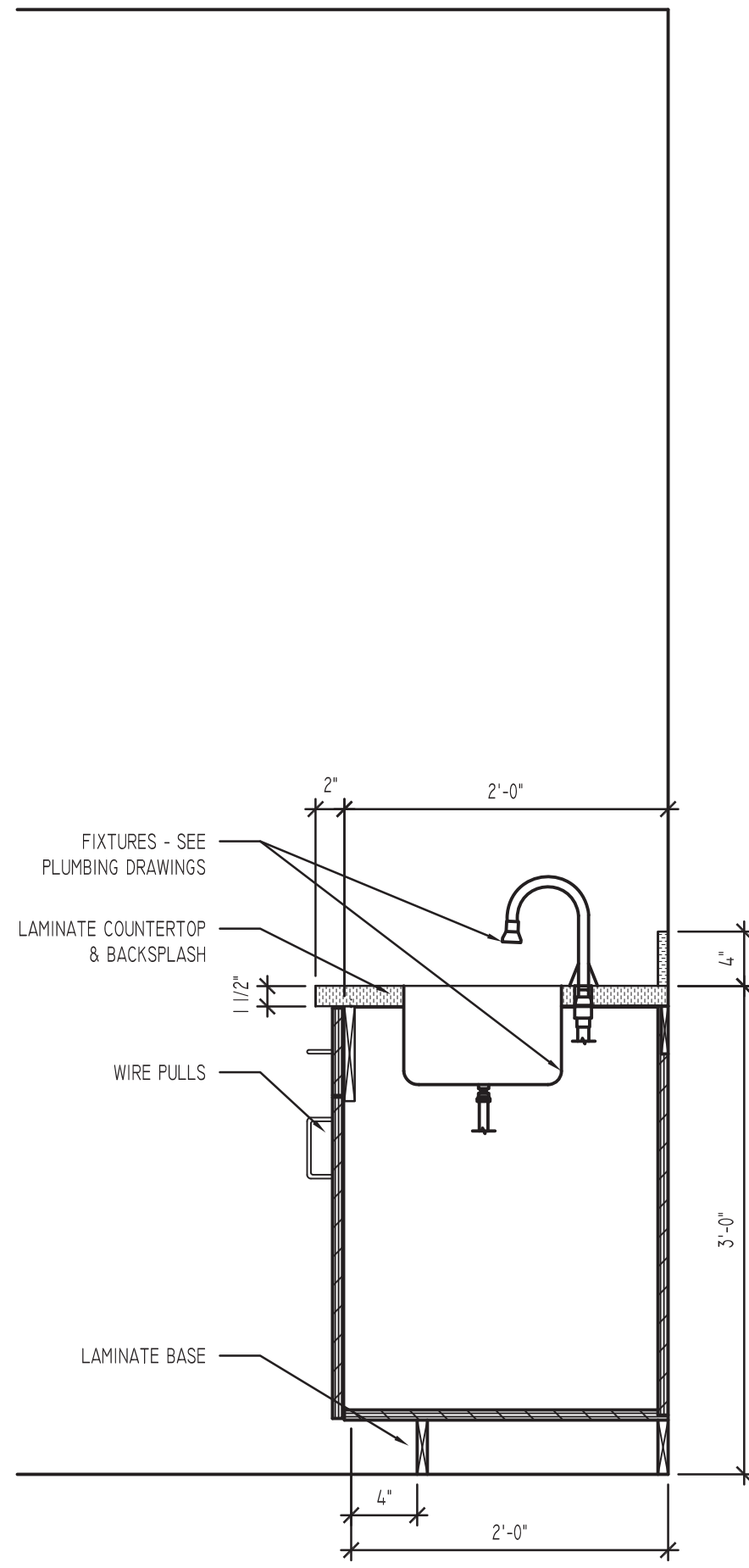
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A3.1 N.T.S.



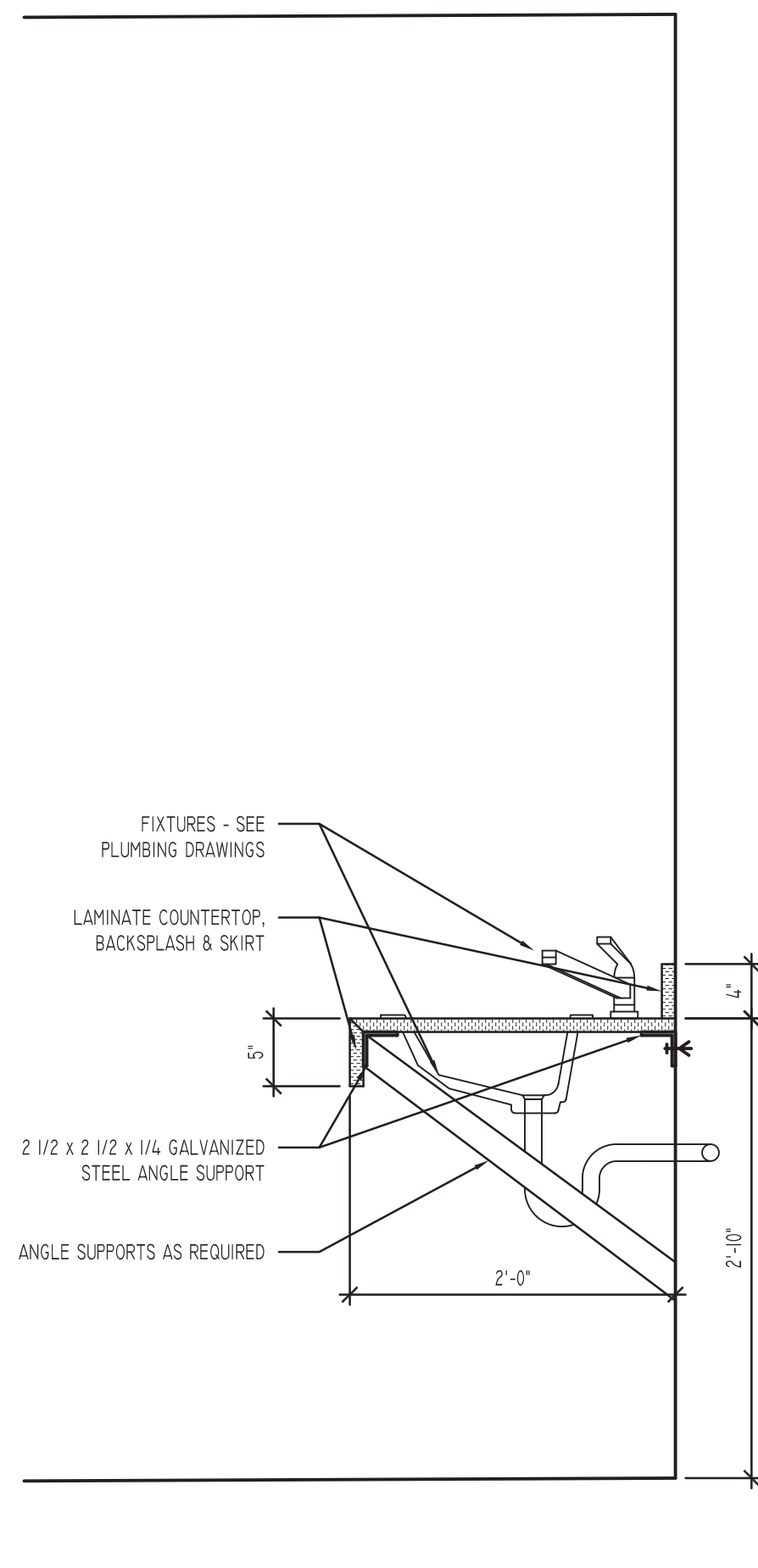
8 CASEWORK ELEVATION
A3.1 N.T.S.



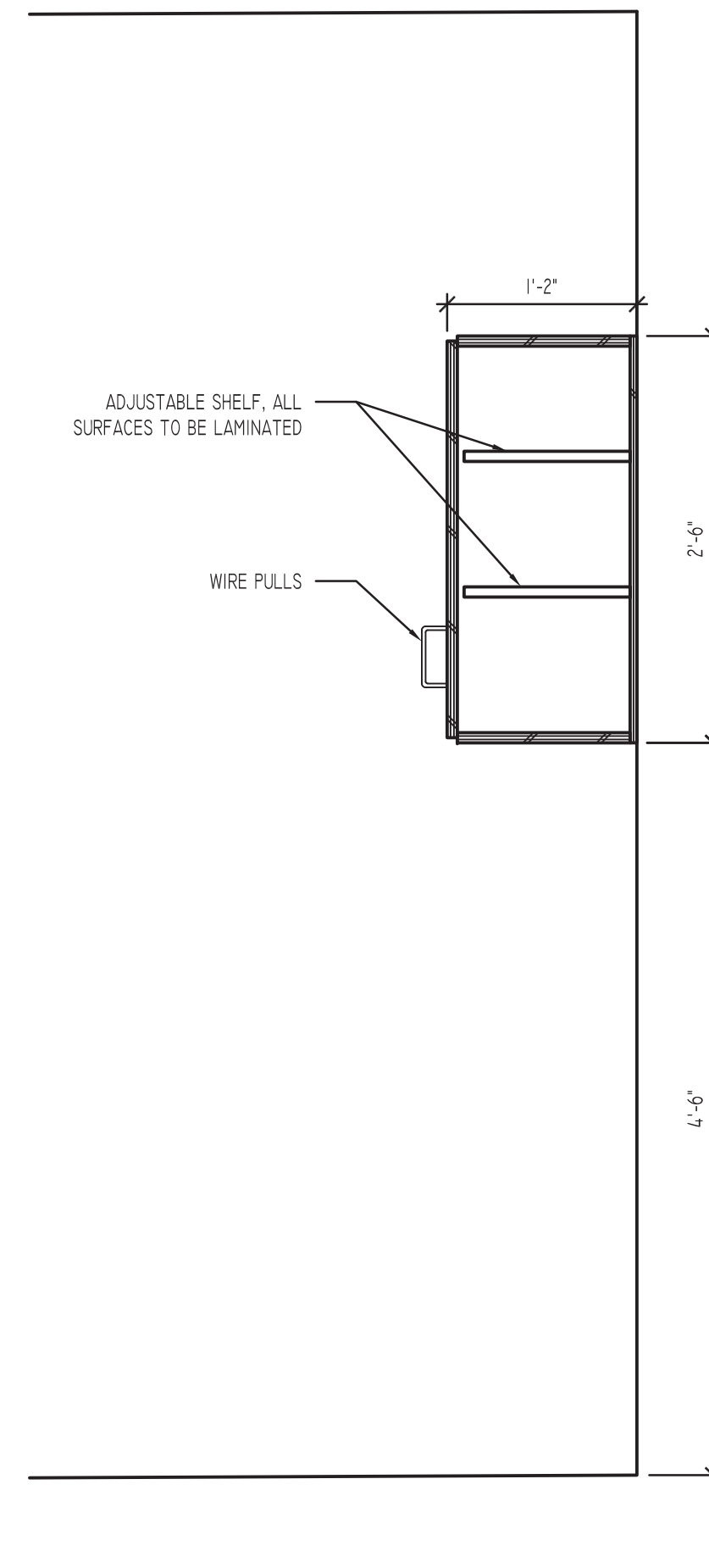
9 CASEWORK DETAIL
A3.1 1" = 1'-0"



10 CASEWORK DETAIL
A3.1 1" = 1'-0"

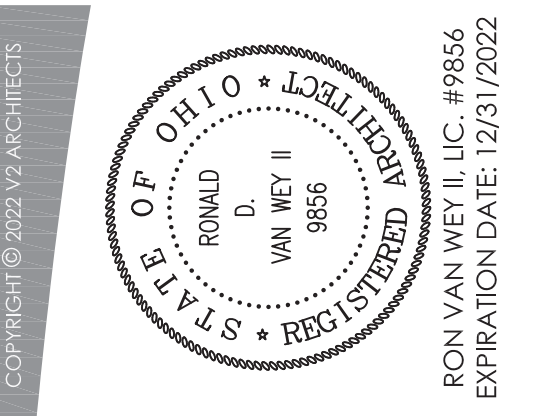


11 CASEWORK DETAIL
A3.1 1" = 1'-0"



12 CASEWORK DETAIL
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| 1.14 | REMOVE & RELOCATE EXISTING AWNING, SEE PLAN & ELEVATION FOR NEW LOCATION |
| 1.15 | REMOVE EXISTING ELECTRICAL BOXES & ASSOCIATED WIRING - SEE ELECTRICAL DRAWINGS |
| 2.00 EXISTING CONDITIONS | |
| 2.01 | EXISTING DOORS TO REMAIN, CLEAN ANY EXISTING RESIDUE |
| 2.02 | EXISTING CEILING TILE, GRID & LIGHTING TO REMAIN, REFER TO FINISH SCHEDULE & REFLECTED CEILING PLAN FOR MORE INFORMATION |
| 2.03 | EXISTING STEEL COLUMN TO REMAIN |
| 2.04 | RELOCATED LOCATION OF EXISTING AWNING |
| 2.05 | PORTION OF EXISTING WALL TO REMAIN |
| 3.00 CONCRETE | |
| 3.01 | 4" CONCRETE INFILL, MATCH EXISTING FINISH FLOOR HEIGHT |
| 3.02 | 4x8 PRECAST LINTEL W/ (1) #4 TOP & BOTTOM |
| 3.03 | GROUT SOLID (2) ADJACENT CELLS AT EACH JAMB OF NEW OPENING |
| 4.00 MASONRY | |
| 4.01 | 8" CMU INFILL |
| 4.02 | TOOTH IN SALVAGED MASONRY AS REQUIRED AT JAMB & HEAD. MORTAR TO MATCH EXISTING |
| 4.03 | REPLACE DAMAGED BRICK W/ SALVAGED BRICK. MORTAR TO MATCH EXISTING |
| 4.04 | BRICK SILL FROM SALVAGED BRICK. MORTAR TO MATCH EXISTING |
| 4.05 | 4" x 8" CAST STONE LINTEL W/ 8" BEARING EACH SIDE OF OPENING |
| 5.00 METALS | |
| 5.01 | METAL FURRING AS REQUIRED TO MATCH EXISTING WALL DEPTH |
| 5.02 | METAL STUD FRAMING - SEE INTERIOR PARTITION SCHEDULE |
| 6.00 WOOD AND PLASTICS | |
| 6.01 | LAMINATE CLAD WOOD CABINETS |
| 6.02 | LAMINATE COUNTERTOP |
| 6.03 | ANGLE SUPPORT AT 24" O.C. |
| 6.04 | ANGLE SUPPORT AT 48" O.C. |
| 6.05 | GROMMET, SEE PLAN FOR LOCATION |
| 6.06 | LAMINATE FILLER PANEL |
| 6.07 | LAMINATE LEDGE, SIMILAR TO WS2/A2.1 |
| 7.00 THERMAL AND MOISTURE PROTECTION | |
| 7.01 | SEALANT |
| 7.02 | SOUND ATTENUATION INSULATION |
| 7.03 | FLASHING |
| 8.00 DOORS & WINDOWS | |
| 8.01 | MAN DOOR - SEE DOOR SCHEDULE |
| 8.02 | WINDOW - SEE WINDOW SCHEDULE |
| 9.00 FINISHES | |
| 9.01 | 5/8" GYPSUM BOARD, ABUSE RESISTANT BELOW 48" |
| 9.02 | PAINT ENTIRE METAL CANOPY & PARAPET CAP. CLEAN SURFACE & REMOVE/REPLACE ANY IMPERFECTIONS PRIOR TO PAINTING |
| 9.03 | PAINT CMU WALL ALONG WITH ALL ASSOCIATED WALL MOUNTED CONDUIT & GAS LINES. CLEAN ALL SURFACES & REMOVE/REPAIR ANY IMPERFECTIONS PRIOR TO PAINTING |
| 9.04 | PAINT EXISTING DOOR & FRAME |
| 10.00 SPECIALTIES | |
| 10.01 | COAT RACK & SHELF |
| 10.02 | FIRE EXTINGUISHER W/ RECESSED CABINET |



V2A
V2 ARCHITECTS
903 Steubenville Ave.
Cambridge, OH 43725

PROJECT
VILLAGE OF NEWCOMERSTOWN
New Administration Building
308 S COLLEGE ST.
NEWCOMERSTOWN, OH 43832

ISSUED:
03/11/2022 Construction Drawings

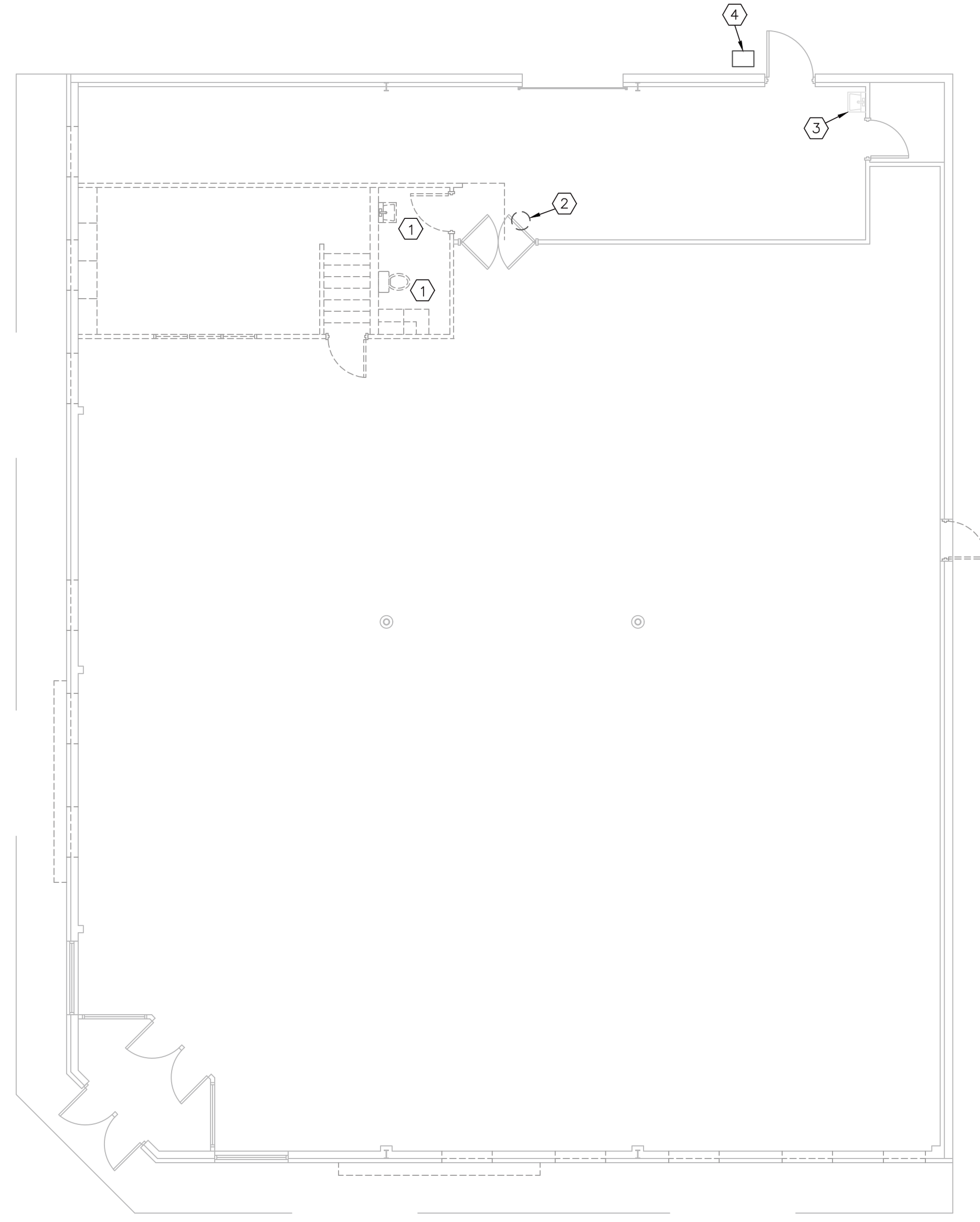
PROJECT NO.
2029

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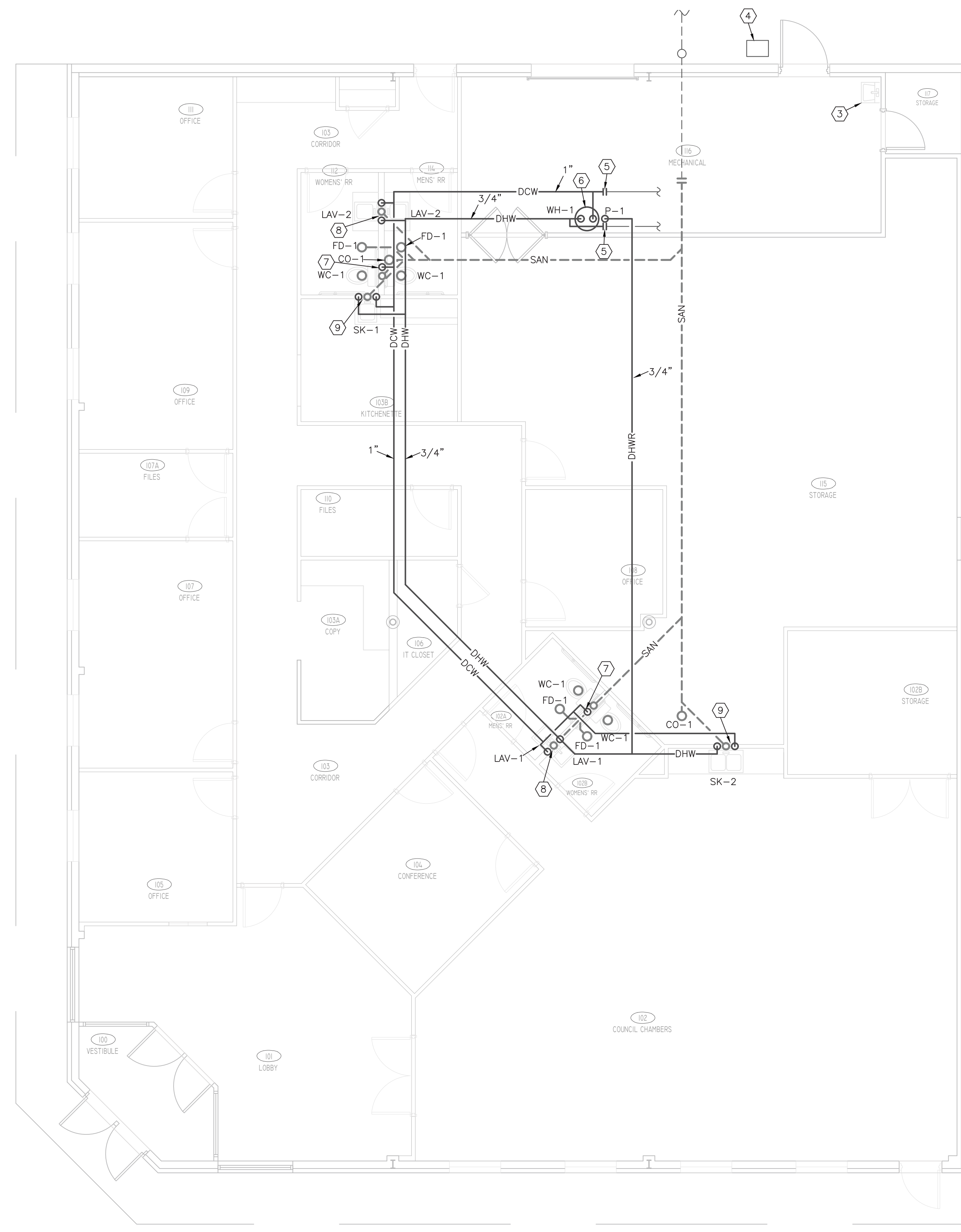
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SHEET NAME
CASEWORK ELEVATIONS
& DETAILS

A3.1



PLUMBING DEMOLITION PLAN
 1/8" = 1'-0"



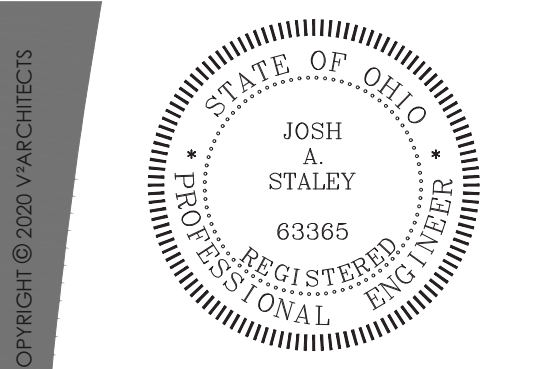
PLUMBING PLAN
 3/16" = 1'-0"

GENERAL NOTES

- 1 SEE ARCHITECTURAL DETAILS FOR EXACT LOCATIONS AND DIMENSIONS OF EQUIPMENT, FIXTURES, OPENINGS AND OUTLETS. COMMUNICATE WITH ARCHITECT ANY DISCREPANCIES.
- 2 THIS CONTRACTOR TO PROVIDE ALL OPENINGS IN STRUCTURE AS REQUIRED FOR NEW WORK INCLUDING FLASHINGS AND REPAIRS FOR ROOF OPENINGS AND CAULKING AND SEALING FOR WALL OPENINGS LEAVING A WEATHER-PROOF CONDITION.
- 3 PROVIDE EXISTING FLOOR, CEILING OR WALL CUTTING AND PATCHING TO MATCH EXISTING CONDITIONS FOR ANY PLUMBING WORK AS REQUIRED.
- 4 REMOVE EXISTING PIPING AS REQUIRED AND CAP BEHIND WALLS, ABOVE CEILING OR BELOW FLOOR AS CLOSE TO MAIN AS POSSIBLE. LEAVE NO PIPING EXPOSED IF NOT REUSED.
- 5 COORDINATE ALL INSTALLATIONS OF MATERIAL AND EQUIPMENT WHICH IS EXPOSED TO VIEW INSIDE AND OUTSIDE OF STRUCTURE WITH OWNER AND ARCHITECT BEFORE PURCHASE. ALL MUST BE REVIEWED AND APPROVED BEFOREHAND.

CODED NOTES

- 1 REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING. CAP ANY UNUSED SANITARY AND WATER LINES AS REQUIRED. REFER TO NEW PLAN FOR ADDITIONAL WORK.
- 2 REMOVE EXISTING WATER HEATER LOCATED ON SHELF AND ASSOCIATED PIPING. CAP ANY UNUSED SANITARY AND WATER LINES AS REQUIRED. REFER TO NEW PLAN FOR ADDITIONAL WORK.
- 3 EXISTING SERVICE SINK.
- 4 EXISTING GAS METER.
- 5 CONNECT NEW WATER LINE TO EXISTING LINE.
- 6 INSTALL NEW WATER HEATER IN DRAIN PAN ON FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 7 1/2" DCW TO WATER CLOSET.
- 8 1/2" DCW AND DWH TO LAVATORY.
- 9 1/2" DCW AND DWH TO SINK.



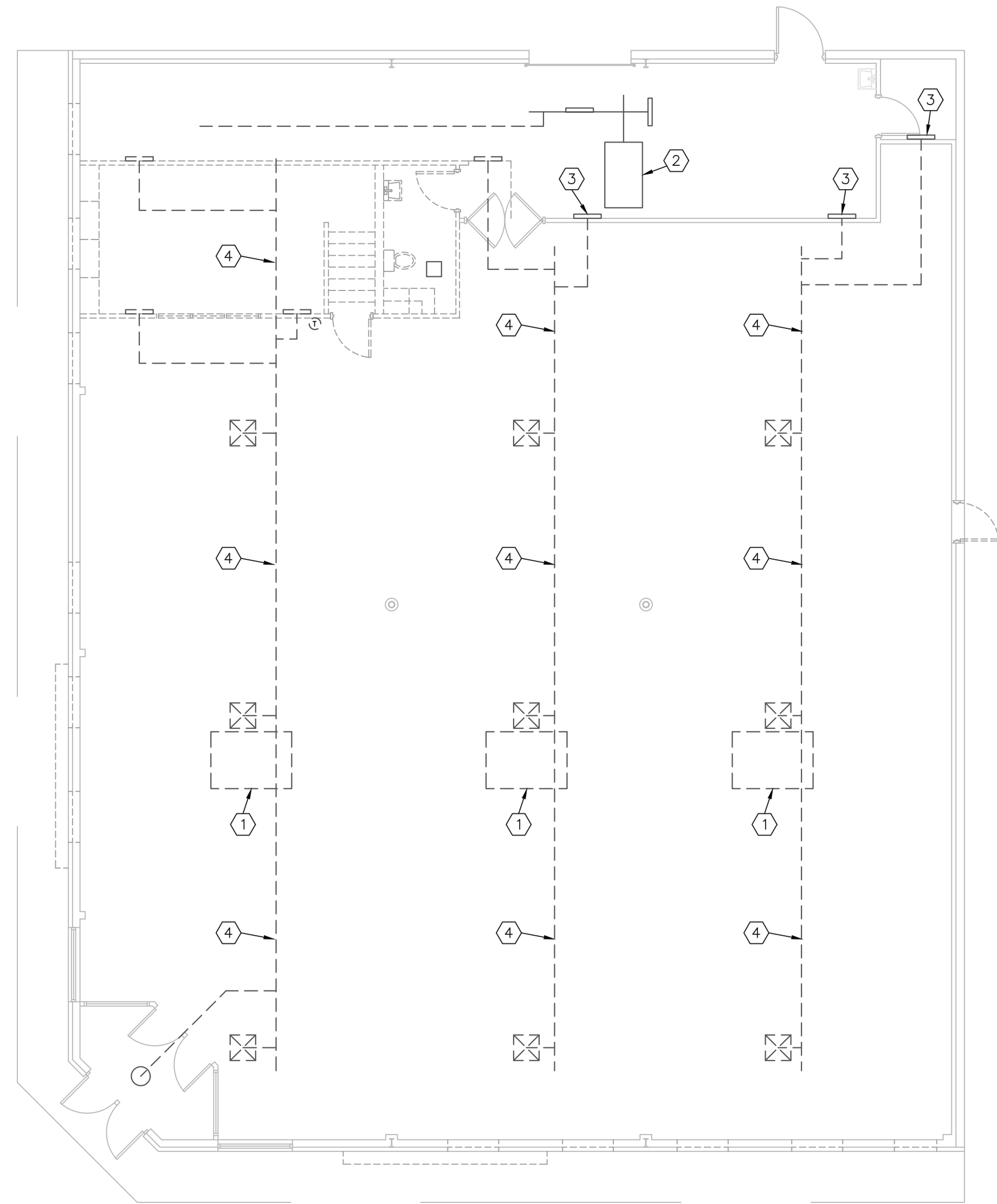
V2A
V 2 ARCHITECTS
 903 Streuberville Ave.
 Cambridge, OH 43725

PROJECT
VILLAGE OF NEWCOMERTOWN
New Administration Building
 308 S COLLEGE ST.
 NEWCOMERTOWN, OH 43832

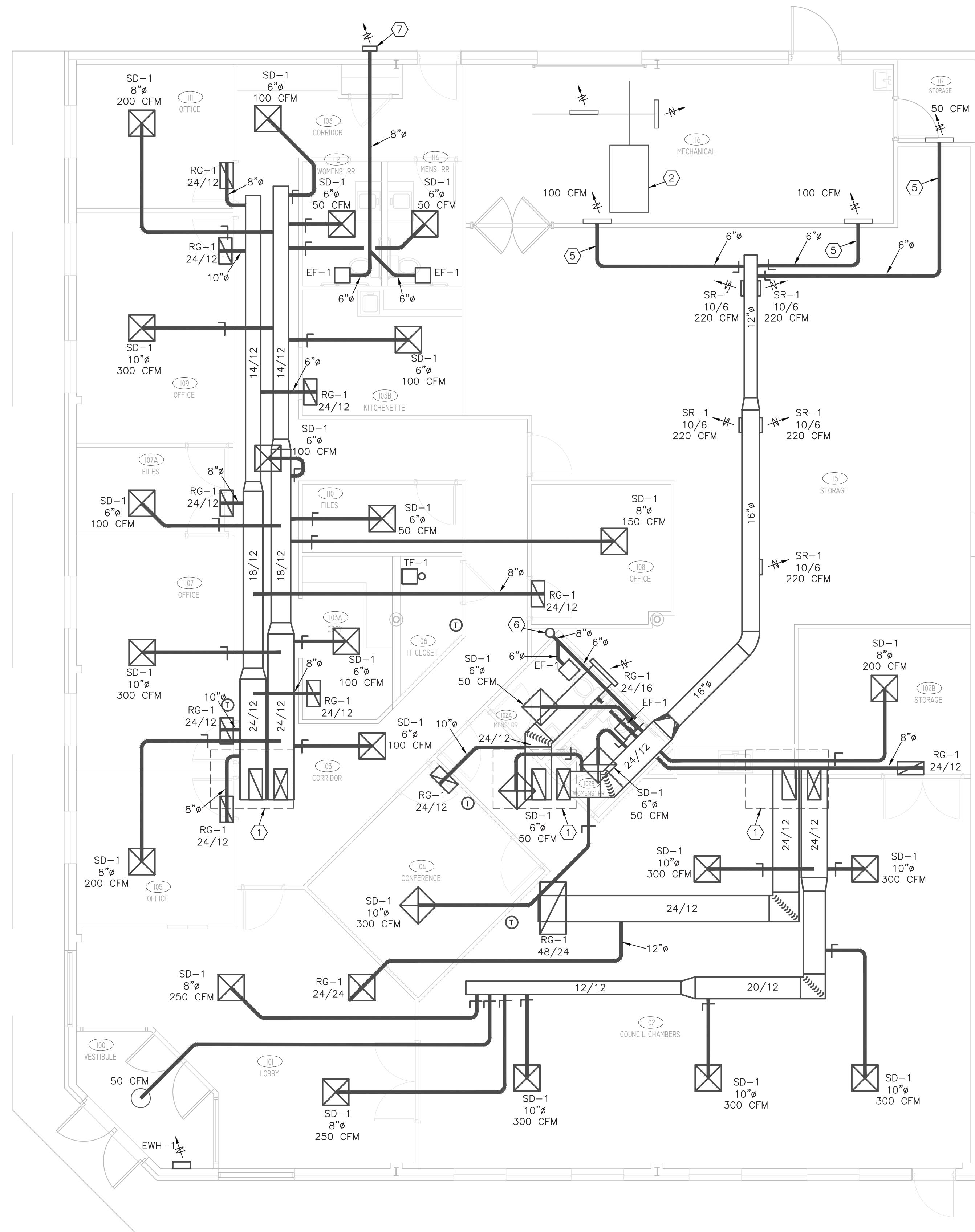
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CHECKED:

SHEET NAME
 PLUMBING PLAN



HVAC DEMOLITION PLAN
1/8" = 1'-0"



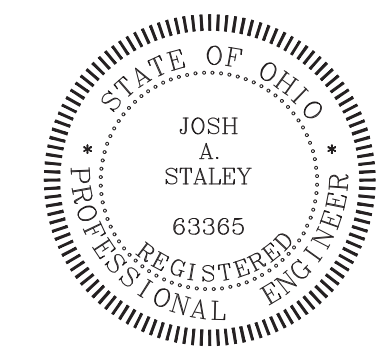
HVAC PLAN
3/16" = 1'-0"

GENERAL NOTES

- 1 SEE ARCHITECTURAL DETAILS FOR EXACT LOCATIONS AND DIMENSIONS OF EQUIPMENT, FIXTURES, OPENINGS AND OUTLETS. COMMUNICATE WITH ARCHITECT ANY DISCREPANCIES.
- 2 THIS CONTRACTOR TO PROVIDE ALL OPENINGS IN STRUCTURE AS REQUIRED FOR NEW WORK INCLUDING FLASHINGS FOR ROOF OPENINGS AND CAULKING AND SEALING FOR WALL OPENINGS LEAVING A WEATHER-PROOF CONDITION.
- 3 COORDINATE ALL INSTALLATIONS OF MATERIAL AND EQUIPMENT WHICH IS EXPOSED TO VIEW INSIDE AND OUTSIDE OF STRUCTURE WITH OWNER AND ARCHITECT BEFORE PURCHASE. ALL MUST BE REVIEWED AND APPROVED BEFOREHAND.
- 4 THIS CONTRACTOR IS TO COORDINATE ELECTRICAL CHARACTERISTICS OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING ANY EQUIPMENT.

CODED NOTES

- 1 EXISTING ROOFTOP UNIT. VERIFY PROPER UNIT OPERATION AND CHANGE EXISTING FILTERS.
- 2 EXISTING FURNACE. VERIFY PROPER UNIT OPERATION AND CHANGE EXISTING FILTERS.
- 3 EXISTING AIR DEVICE TO REMAIN.
- 4 REMOVE EXISTING DUCTWORK AND ASSOCIATED AIR DEVICES INDICATED DASHED.
- 5 CONNECT NEW DUCT TO EXISTING AIR DEVICE. PROVIDE PLENUM OVER ENTIRE FACE OF GRILLE.
- 6 8" EXHAUST DUCT THROUGH EXISTING ROOF TO WEATHER PROOF CAP. PROVIDE ROOF OPENING AND WEATHER PROOF FLASHING.
- 7 8" EXHAUST DUCT THROUGH EXISTING WALL TO WEATHER PROOF CAP. PROVIDE WALL OPENING AND WEATHER PROOF FLASHING.



JAS
V2 ARCHITECTS
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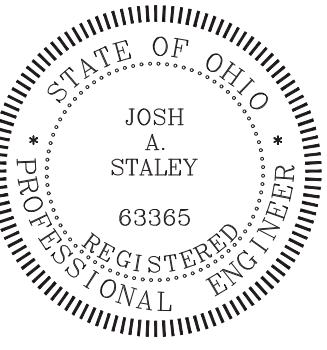
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DRAWN:
JAS

CHECKED:
JAS

SHEET NAME
HVAC PLAN



V2A
V 2 ARCHITECTS
 903 Steubenville Ave.
 Cambridge, OH 43725

GENERAL CONDITIONS:

ALL WORK PERFORMED TO BE IN ACCORDANCE WITH THE STATE OF OHIO MECHANICAL CODE AND OTHER APPLICABLE REQUIREMENTS PER THE AUTHORITY HAVING JURISDICTION.

ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS.

ALL MATERIALS AND EQUIPMENT PROVIDED TO BE WARRANTED FOR ONE YEAR FROM DATE OF OWNER ACCEPTANCE.

ALL MATERIALS INSTALLED TO BE NEW AND FREE OF DEFECTS.

ALL INSTALLATIONS TO BE COORDINATED WITH THE ARCHITECTURAL CONSTRAINTS AND OTHER TRADES INVOLVED LEAVING ACCESS FOR REPAIRS AND MAINTENANCE.

PROVIDE ACCESS PANELS FOR REPAIRABLE ITEMS INSTALLED IN INACCESSIBLE LOCATIONS.

PROVIDE SUBMITTALS FOR APPROVAL BY OWNER BEFORE PURCHASING ANY EQUIPMENT.

ALL EQUIPMENT AND SYSTEMS INDICATED ON SCHEDULE AND PLANS IS BASIS OF DESIGN. ANY DEVIATIONS OR SUBSTITUTIONS TO BE APPROVED BY ENGINEER AND OWNER.

INCLUDE COSTS FOR ALL PERMITS AND INSPECTIONS.

SHEET METAL SYSTEMS:

ALL DUCTWORK TO BE G-60 COATED GALVANIZED STEEL OF LOCKFORMING GRADE CONFORMING TO ASTM STANDARDS A653 AND A924. CONSTRUCTION TO BE PER SMACNA STANDARDS OF TABLE 1-1 FOR PRESSURE CLASSIFICATION AS LISTED ON DRAWINGS BY EITHER TOTAL FAN STATIC PRESSURE OR AS LISTED BY SYMBOLS AT SECTIONS OF DUCT (WHICH EVER IS GREATER). PROVIDE PAINT GRIP SURFACE ON ALL EXPOSED DUCT WITHIN FINISHED SPACES.

DUCTS SHALL BE SEALED PER REQUIREMENTS BY APPLICABLE STATIC PRESSURE CONSTRUCTION CLASS PER TABLE 1-2 OF SMACNA STANDARDS.

PROVIDE CANVAS FLEX CONNECTORS AT ALL DUCTWORK CONNECTED TO FANS.

FLEXIBLE AIR DUCTWORK AND CONNECTORS SHALL BE LISTED AND LABELED TO THE REQUIREMENTS OF UL 181 FOR CLASS 0 OR CLASS 1 FLEXIBLE AIR DUCTS LABELED AS SUCH AND SHALL BE LIMITED IN LENGTH TO 5 FEET. NO FLEXIBLE AIR DUCT SHALL PASS THROUGH WALLS, FLOORS OR CEILINGS.

PROVIDE SLEEVES FOR ALL PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS. INSTALL UL LISTED FIRESTOPPING SYSTEMS AT ALL RATED PENETRATIONS EQUAL TO THE "F" AND "T" RATING OF FLOOR WALL OR CEILING.

PROVIDE RETURN AIR TRANSFER AIR OPENINGS IN WALLS THAT EXTEND TO STRUCTURE LOCATED ABOVE CEILINGS UTILIZED AS A RETURN AIR PLENUM AS REQUIRED TO MAINTAIN AIR FLOW IN RETURN AIR PLENUM. INCLUDE FIRE OR SMOKE DAMPERS IN RATED WALLS.

INSULATION SYSTEMS:

INSULATE ALL SUPPLY AIR DUCTWORK WITH 1-1/2" FIBERGLASS FOIL FACE DUCT WRAP. SEAL ALL JOINTS LEAVING VAPOR TIGHT BARRIER.

INSULATE ALL SUPPLY, RETURN, EXHAUST, COMBUSTION AIR, AND OUTSIDE AIR DUCTWORK LOCATED OUTSIDE OF CONDITIONED SPACE INSIDE THE BUILDING WITH 3" FIBERGLASS FOIL FACE DUCT WRAP. SEAL ALL JOINTS LEAVING VAPOR TIGHT BARRIER.

ANY INSULATION EXPOSED WITHIN AN AIR PLENUM TO BE LABELED BY MANUFACTURER TO HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE SPREAD RATING OF NOT MORE THAN 50.

CONTROL SYSTEMS:

ALL TEMPERATURE CONTROLS TO BE PROVIDED BY HVAC CONTRACTOR, INCLUDING LINE VOLTAGE WIRING FOR DAMPERS AND OTHER ACCESSORIES AS REQUIRED. ALL LINE VOLTAGE AND EXPOSED LOW VOLTAGE WIRING TO BE INSTALLED IN METAL CONDUIT. INSTALL PER THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE.

ALL AIR SYSTEMS UTILIZED FOR VENTILATION ARE TO HAVE THEIR FANS RUN CONTINUOUSLY DURING HOURS OF BUILDING OCCUPATION. NO THERMOSTATS OR CONTROLS WITH FAN CYCLING WILL BE PERMITTED.

SYSTEM BALANCE AND COMMISSIONING:

ALL HVAC SYSTEMS TO BE AIR BALANCED TO VALUES INDICATED ON DRAWINGS OR SCHEDULES TO WITHIN +/- 3%. AFTER COMPLETION OF BALANCING, ENTIRE HVAC SYSTEMS TO BE COMMISSIONED FOR PROPER OPERATION VERIFYING ALL SAFETY AND COMFORT CONTROLS. PROVIDE COMPLETE REPORT TO OWNER AND ENGINEER FOR REVIEW.

CONDUCT OWNER TRAINING FOR ALL EQUIPMENT. PROVIDE 3-COPIES OF OPERATION AND MAINTENANCE MANUALS, 2 COPIES FOR OWNER, 1-COPY FOR ENGINEER.

CODE COMPLIANCE CALCULATIONS:

OUTSIDE AIR REQUIREMENTS: (CALCULATIONS BASED ON OMC CHAPTER 4)

EXISTING ROOFTOP UNIT, COUNCIL CHAMBERS: 345 CFM
 1570 SQ. FT.: 50 PEOPLE @ 5 CFM/PERSON + 0.06 CFM/SQ. FT. = 345 CFM

EXISTING ROOFTOP UNIT, OFFICE: 260 CFM
 2250 SQ. FT.: 25 PEOPLE @ 5 CFM/PERSON + 0.06 CFM/SQ. FT. = 260 CFM

EXISTING ROOFTOP UNIT, STORAGE: 110 CFM
 1800 SQ. FT.: 0.06 CFM/SQ. FT. = 110 CFM

| FAN SCHEDULE | | |
|-----------------------------|----------|-----------|
| MARK | EF-1 | TF-1 |
| SERVICE | EXHAUST | EXHAUST |
| FAN TYPE | CEILING | CEILING |
| CAPACITY (CFM) | 75 | 150 |
| STATIC PRESSURE (" WC) | 0.30 | 0.30 |
| DRIVE | DIRECT | DIRECT |
| BHP | - | - |
| MOTOR HP | 50 WATTS | 135 WATTS |
| APPROXIMATE RPM | - | - |
| ELECTRICAL DATA (VOLT./PH.) | 115/1 | 115/1 |
| OPERATING WEIGHT (LBS.) | 16 | 16 |
| MANUFACTURER | COOK | COOK |
| MODEL NUMBER | GC 122 | GC 320 |
| REMARKS | ①② | ③ |

① BACK DRAFT DAMPER. ② WEATHER PROOF WALL CAP WITH INSECT SCREEN
 ③ THERMOSTAT FOR TEMPERATURE CONTROL.

| GRILLE AND DIFFUSER SCHEDULE | | | |
|------------------------------|---------|-------------------|-------------------|
| MARK | SD-1 | SR-1 | RG-1 |
| MANUFACTURER | TITUS | TITUS | TITUS |
| MODEL NUMBER | TMS | S300FL | 355RL |
| TYPE | CEILING | DUCT | WALL/CEILING |
| FRAME OR BORDER TYPE | LAY-IN | CURVED DUCT MOUNT | SURF. MTD. LAY-IN |
| MODULE SIZE | 24x24 | AS NOTED | AS NOTED |
| PATTERN | 4-WAY | DOUBLE DEFLECTION | NA |
| FINISH | WHITE | WHITE | WHITE |
| MATERIAL | STEEL | ALUMINUM | STEEL |
| REMARKS | ①② | ①② | ②③ |

① REFER TO DRAWING FOR NECK SIZE. ② OPPOSED BLADE DAMPER.
 ③ REFER TO DRAWING FOR SIZE.

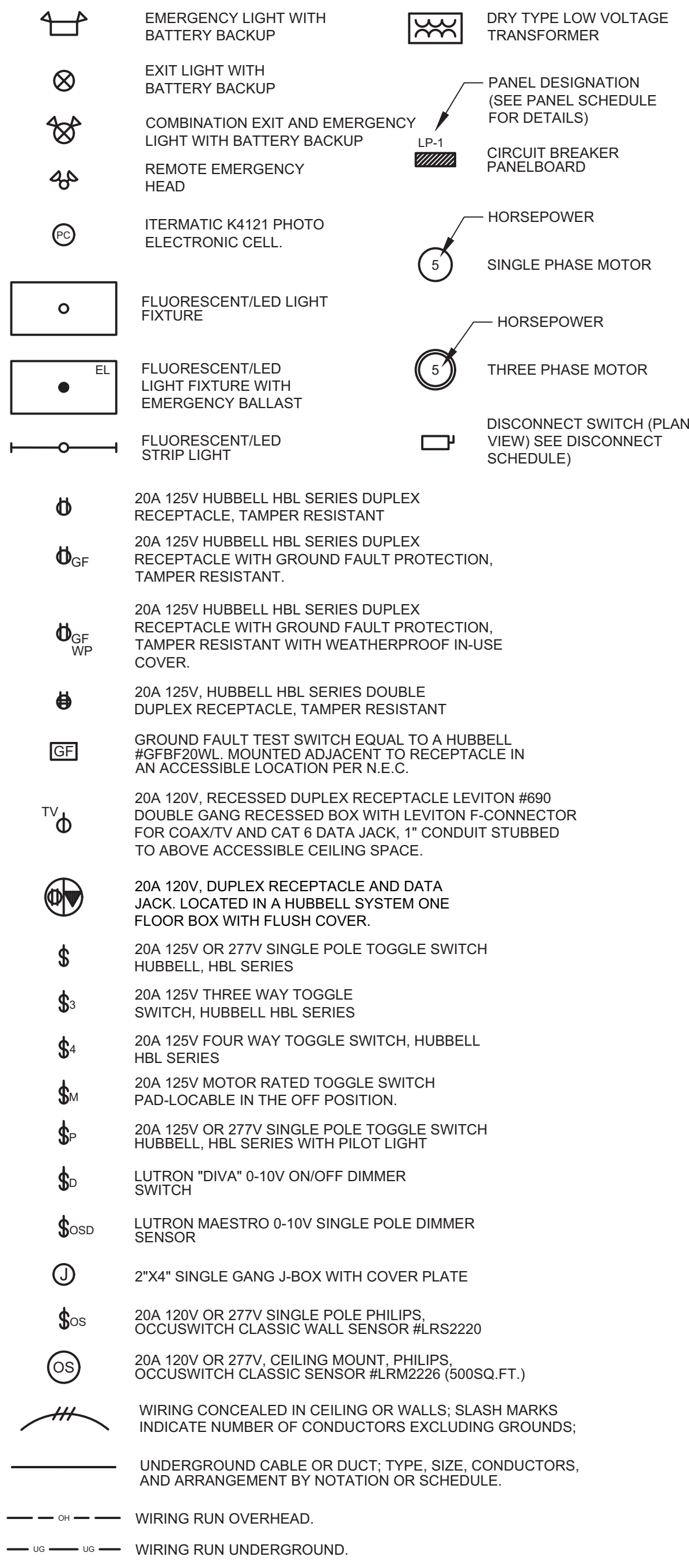
PROJECT
VILLAGE OF NEWCOMERSTOWN
New Administration Building
 308 S COLLEGE ST.
 NEWCOMERSTOWN, OH 43832

ISSUED:
 3/11/22 Construction Set

PROJECT NO.
 2029
DRAWN: JAS
CHECKED: JAS

SHEET NAME
 HVAC SPECIFICATIONS

ELECTRICAL LEGEND



ELECTRICAL NOTES

- ALL BRANCH CIRCUIT CONDUITS, INTERIOR, SHALL BE 3/4" MINIMUM.
- MC CABLE SHALL BE ACCEPTABLE FOR FIXTURE WHIPS (6" MAXIMUM LENGTH) AND CIRCUITS UNDER 30AMP (240V MAX) CONCEALED IN WALLS OR ABOVE CEILING. MC TYPE CABLE MAY ONLY BE INSTALLED ON BRANCH CIRCUITS 30AMPS OR LESS WHERE CIRCUIT IS IN WALLS OR CONCEALED CEILING SPACES. E.C. MUST INSTALL ALL HOMERUNS IN EMT CONDUIT. MC CABLE IS UNACCEPTABLE IN ALL OPEN SPACES EXCEPT FOR FIXTURE WHIPS (6" MAXIMUM LENGTH). ENTIRE INSTALLATION SHALL BE IN COMPLIANCE WITH N.E.C. 2020 AND ALL FEDERAL, STATE, AND LOCAL CODES.
- ALL ELECTRICAL PANELS SHALL HAVE COPPER BUSSING.
- ALL CONDUCTORS SHALL BE DELIVERED TO THE JOB SITE IN NEW PACKAGES AND SHALL BE COPPER UNLESS INDICATED OTHERWISE THROUGHOUT THIS PLAN.
- ALL GROUNDING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, 2020 EDITION AND SHALL MEET ALL GROUNDING REQUIREMENTS AS INDICATED HEREIN AND PER ELECTRICAL SPECIFICATIONS AND ELECTRICAL GROUNDING DETAILS. ALL BRANCH CIRCUITS AND FEEDERS MUST INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR, USING METAL CONDUIT AS THE ONLY GROUNDING PATH IS NOT ACCEPTABLE. PER THIS ENGINEER.
- ALL BRANCH CIRCUIT BREAKERS FEEDING HVAC EQUIPMENT SHALL BE HACR RATED.
- E.C. SHALL VERIFY ALL BREAKER AND BRANCH CIRCUIT REQUIREMENTS WITH HVAC MANUFACTURER'S SHOP DRAWINGS PRIOR TO INSTALLATION. IF A DISCREPANCY IS DISCOVERED, E.C. SHALL NOTIFY THIS DESIGN ENGINEER FOR FURTHER DIRECTION. SHARING OF NEUTRAL CONDUCTORS IS UNACCEPTABLE. EACH 120V OR 277V BRANCH CIRCUIT SHALL INCLUDE A DEDICATED NEUTRAL CONDUCTOR OF THE SAME GAUGE AS THE DESIGNATED PHASE CONDUCTORS.
- ALL WORK SHALL BE DONE IN COMPLIANCE WITH N.E.C. 2020 AND ALL FEDERAL, STATE AND LOCAL CODES.
- E.C. SHALL PROVIDE A DETAILED, TYPED, PANEL SCHEDULE FOR EACH PANEL. PANEL SCHEDULE SHALL DETAIL BRANCH CIRCUIT LOADS BEING FED ALONG WITH A BRIEF DESCRIPTION OF THE LOAD LOCATION.
- ALL RECEPTACLES WITHIN 6'-0" OF A SINK BASIN SHALL BE GROUND FAULT PROTECTED, WHETHER OR NOT SHOWN ON PLAN VIEW.
- EQUIPMENT SPECIFIED ON THESE PLANS AND IN THE SPECIFICATIONS IS PROVIDED AS THE "BASIS OF DESIGN" AND IS PROVIDED FOR CODE COMPLIANCE AS WELL AS BIDDING PURPOSES. THE E.C. SHALL BE RESPONSIBLE FOR VERIFYING THEIR PRODUCT AND EQUIPMENT SUPPLIED MEETS THE SPECIFICATION INTENT AS INDICATED HEREIN. THIS ENGINEER WILL TAKE NO RESPONSIBILITY FOR THE EQUIPMENT SUPPLIED BY THE E.C. OR OWNER AND WILL NOT GUARANTEE IT MEETS THE INTENT OF THE DESIGN DOCUMENTS WITHOUT BEING CONTRACTED TO PROVIDE COMPLETE CONSTRUCTION ADMINISTRATION SERVICES INCLUDING THE FOLLOWING:
 - A. SITE INSPECTIONS DURING CONSTRUCTION TO VERIFY INSTALLATION PRACTICES.
 - B. SHOP DRAWING REVIEW OF ALL MAJOR EQUIPMENT.
 - C. FINAL INSPECTION AND PUNCH LIST.
- E.C. SHALL INSTALL ALL DATA BOXES AND CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING SPACE (WITH PULL STRING). ALL CABLING AND TERMINATIONS ARE TO BE BY OWNERS VENDOR.
- E.C. SHALL VERIFY ALL DATA/V. LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.

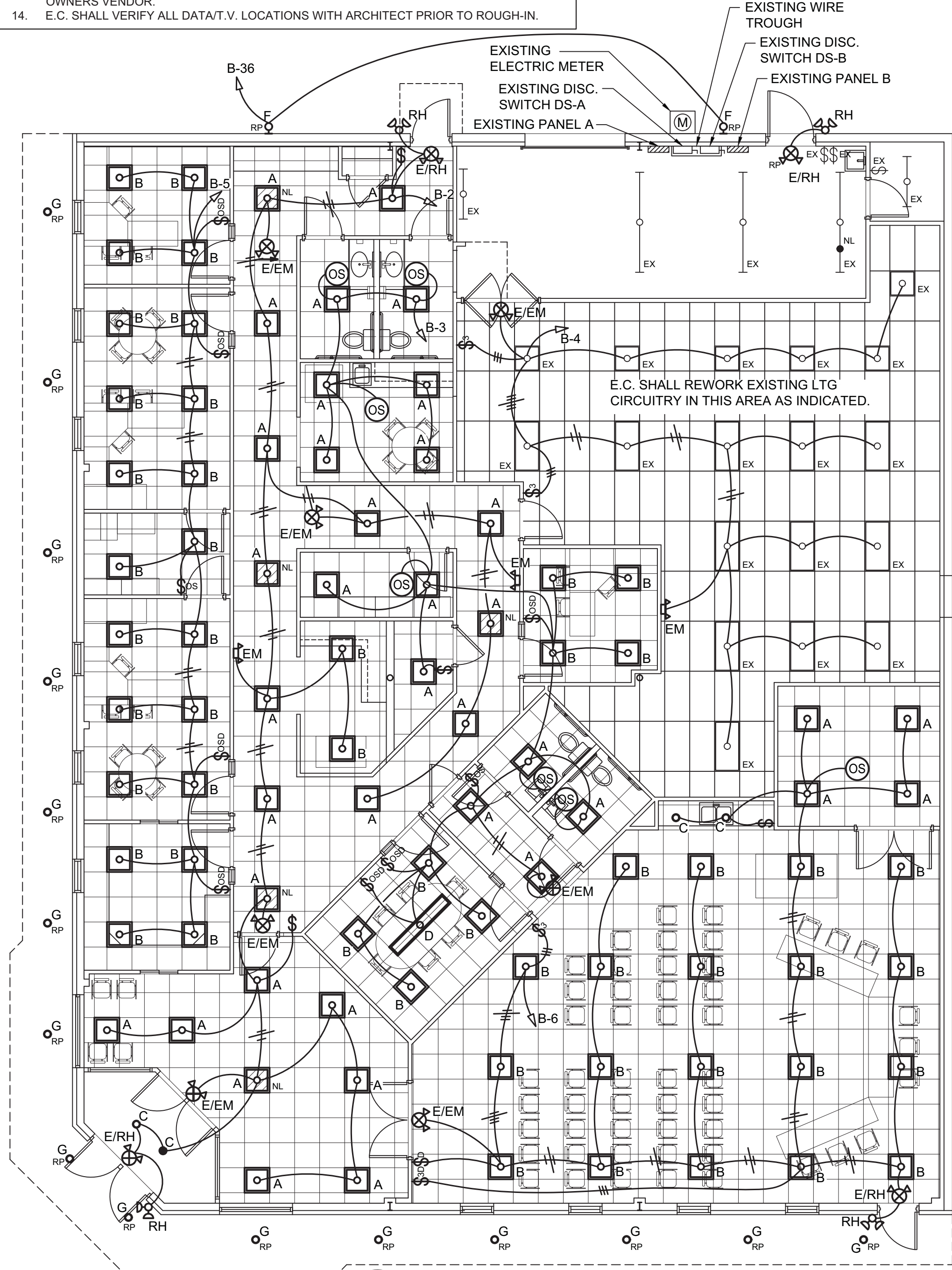
LUMINAIRE SCHEDULE

| SYMBOL | MANUFACTURER | CATALOG NUMBER | DESCRIPTION | LAMPS | COLOR TEMPERATURE | WATTS | LUMEN OUTPUT | REMARKS |
|--------|--------------|--|---|--------------|-------------------|-------|--------------|-----------------|
| A | COLUMBIA | CBT22-LSCS | 2x2 LED BACK-LIT TROFFER WITH SWITCHABLE LUMEN TECHNOLOGY AND SWITCHABLE CCT | INTEGRAL LED | 4000K | 28 | 3,583 | CEILING-GRID |
| B | COLUMBIA | CBT22-LSCS | 2x2 LED BACK-LIT TROFFER WITH SWITCHABLE LUMEN TECHNOLOGY AND SWITCHABLE CCT | INTEGRAL LED | 4000K | 38 | 4702 | CEILING-GRID |
| C | PRESCOLITE | LBSES-6RD-CS9-WH | 6" DIA LED WITH SWITCHABLE CCT | INTEGRAL LED | 4000K | 20 | 1100 | CEILING-SURFACE |
| D | LITECONTROL | SAE106-P-LPA-8-8-SOF-C1-4000K-8D-D01-1C-UNV-FA1-L1 | 8' LED LINEAR PENDANT INDIRECT/DIRECT | INTEGRAL LED | 4000K | 54 | 6400 | CEILING-PENDANT |
| EM | DUAL LITE | LZ15-03L | 2-HEAD, BATTERY BACK-UP DESIGNER EMERGENCY LIGHT | INTEGRAL | | | | MH @ 7'-6" AFF |
| E/EM | DUAL LITE | EVCURWDI | COMBO EXIT WITH 2 UNIT MOUNTED HEADS, BATTERY BACK-UP, UNIVERSAL MOUNTING SINGLE OR DOUBLE FACE, SELF DIAGNOSTICS | INTEGRAL | | | | MH @ 7'-6" AFF |
| E/RH | DUAL LITE | EVCURWD4I | COMBO EXIT WITH 2 UNIT MOUNTED HEADS, BATTERY BACK-UP, 12 WATT OF REMOTE CAPACITY, UNIVERSAL MOUNTING SINGLE OR DOUBLE FACE, SELF DIAGNOSTICS | INTEGRAL | | | | MH @ 7'-6" AFF |
| RH | DUAL LITE | EVODW | OUTDOOR RATED TWIN LAMPED EMERGENCY EGRESS HEADS, MOUNTS TO A 3-1/2" OCTAGONAL OR SINGLE GANG OUTLET BOX, UNIVERSAL MOUNTING. | INTEGRAL | | | | MH @ 7'-6" AFF |
| G | PRESCOLITE | LFR-6RDS-M-15L-50K-WD-DM1 | 6" DIA LED DOWNLIGHT | INTEGRAL LED | 5000K | 13 | 1384 | SOFFIT-RECESSED |
| F | HUBBELL | TRP2-24L-70-5K7-4-UNV | LED TRAPEZOID SERIES 2 WALL PACK | INTEGRAL LED | 5000K | 71 | 6942 | WALL-SURFACE |

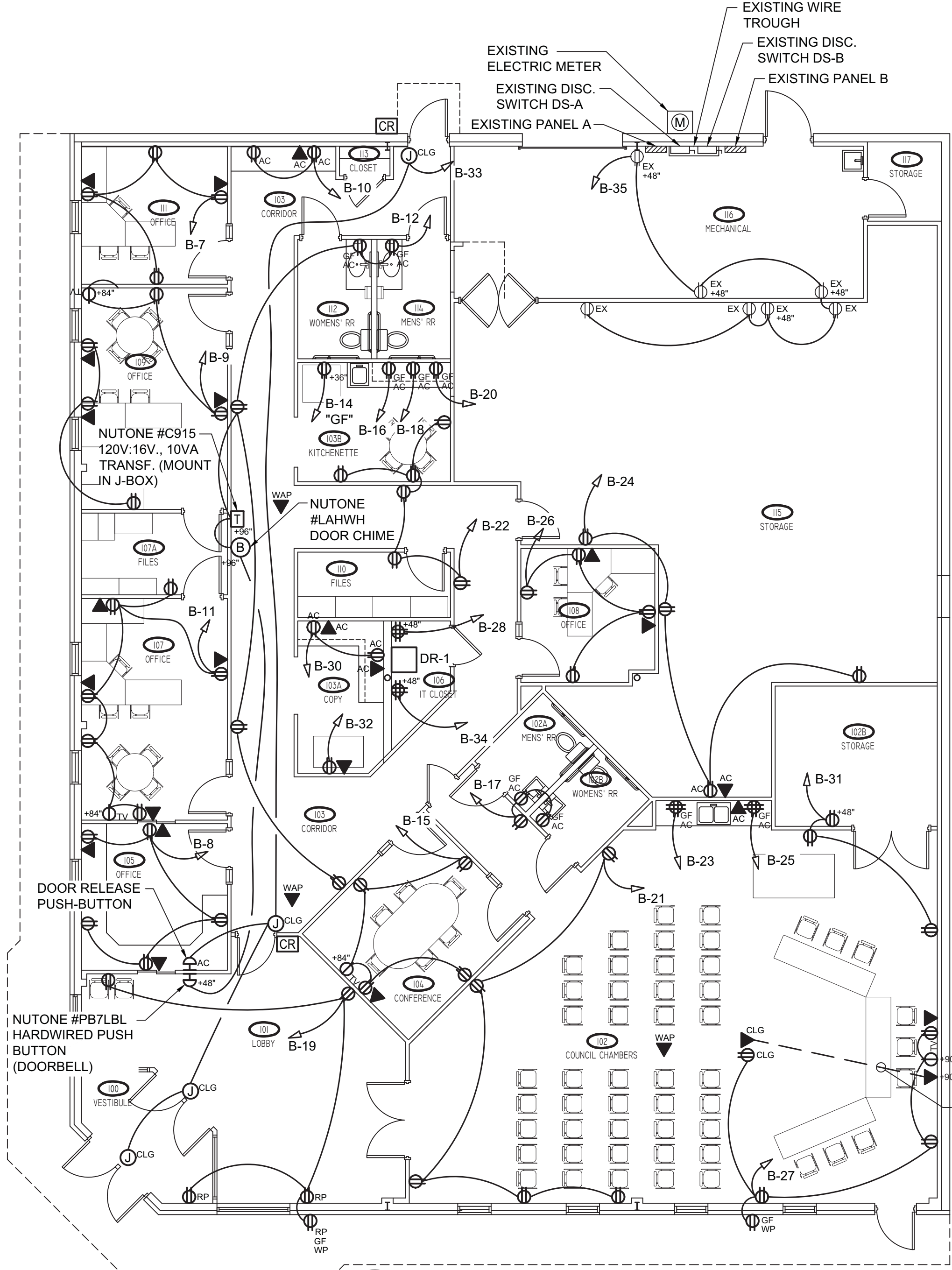
NOTES: 1) EQUALS: substitutions by Lithonia, Cooper, Philips. Equal submissions must be provided with a complete lumen package showing photometric layouts. Package shall also include lighting submittals sheets with lumen packages highlighted. Fixture sizes, shapes, and lumen package must match fixtures specified. Substitution to be submitted to owner for their review.

ELECTRICAL ABBREVIATIONS

| | |
|------|--|
| AC | ABOVE COUNTER |
| AFF | ABOVE FINISHED FLOOR |
| CB | CIRCUIT BREAKER |
| ET | ELECTRONIC TRIP |
| EX | EXISTING DEVICE TO REMAIN |
| GF | GROUND FAULT CIRCUIT INTERRUPTER |
| GND | GROUND |
| GRC | GALVANIZED RIGID CONDUIT |
| HP | HORSEPOWER |
| LSI | LONG, SHORT & INSTANTANEOUS |
| MCB | MAIN CIRCUIT BREAKER |
| NEC | NATIONAL ELECTRICAL CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| NL | NIGHT LIGHT, CONNECTED AHEAD OF SWITCHING (24HR OPERATION) |
| PC | PHOTO CELL |
| RL | EXISTING DEVICE TO BE RELOCATED |
| RM | EXISTING DEVICE TO BE REMOVED |
| RP | EXISTING DEVICE TO BE REPLACED WITH NEW |
| SPD | SURGE PROTECTIVE DEVICE |
| SSBJ | SUPPLY SIDE BONDING JUMPER (NEC 250.30) |
| STP | SHIELDED TWISTED PAIR |
| TM | THERMAL MAGNETIC CIRCUIT BREAKER |
| UC | BELOW COUNTER |
| UG | UNDERGROUND |
| WP | WEATHER PROOF |



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



POWER PLAN
1/8" = 1'-0"

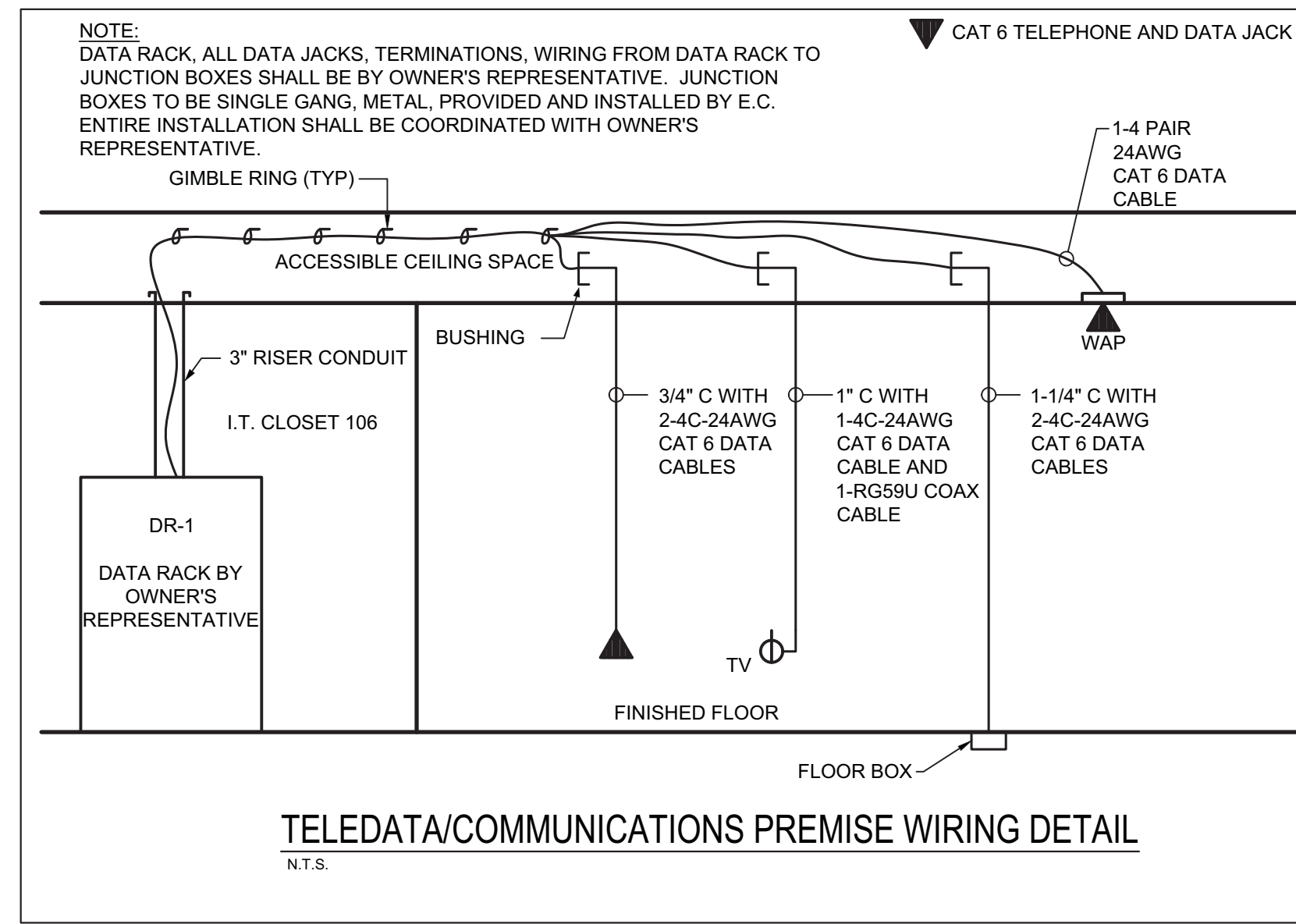
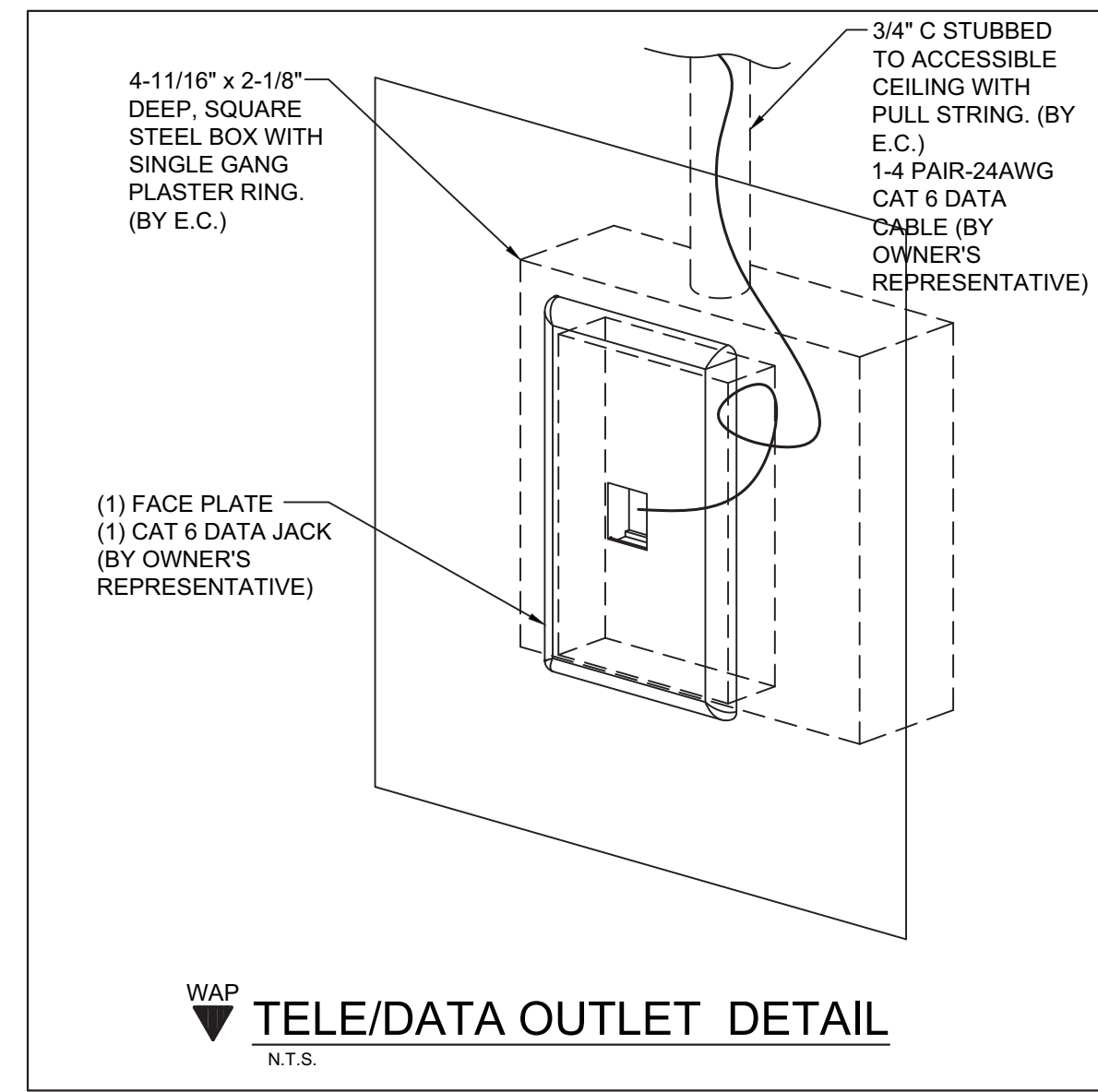
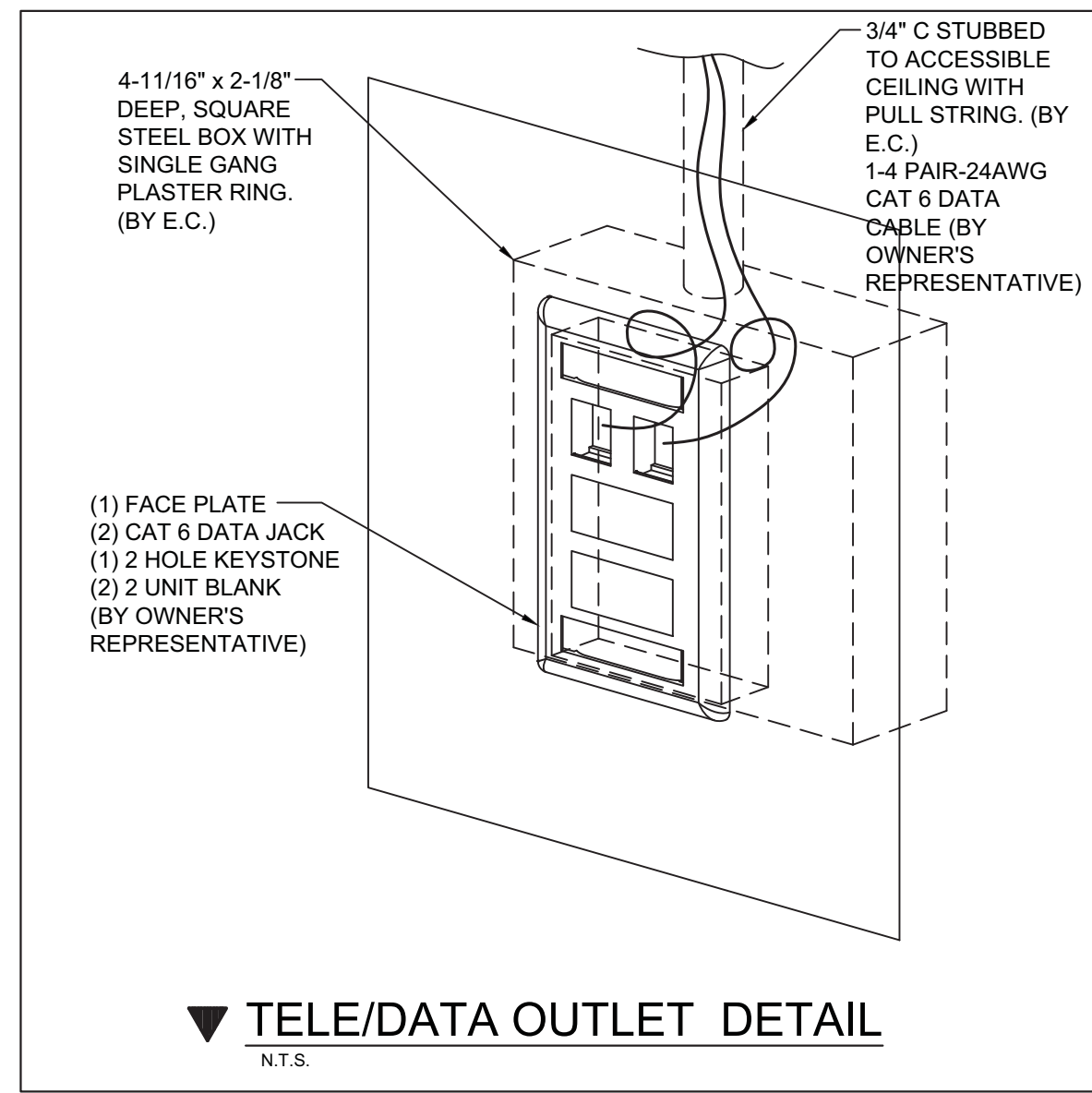


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308 S COLLEGE ST.
NEWCOMERTOWN, OH 43832

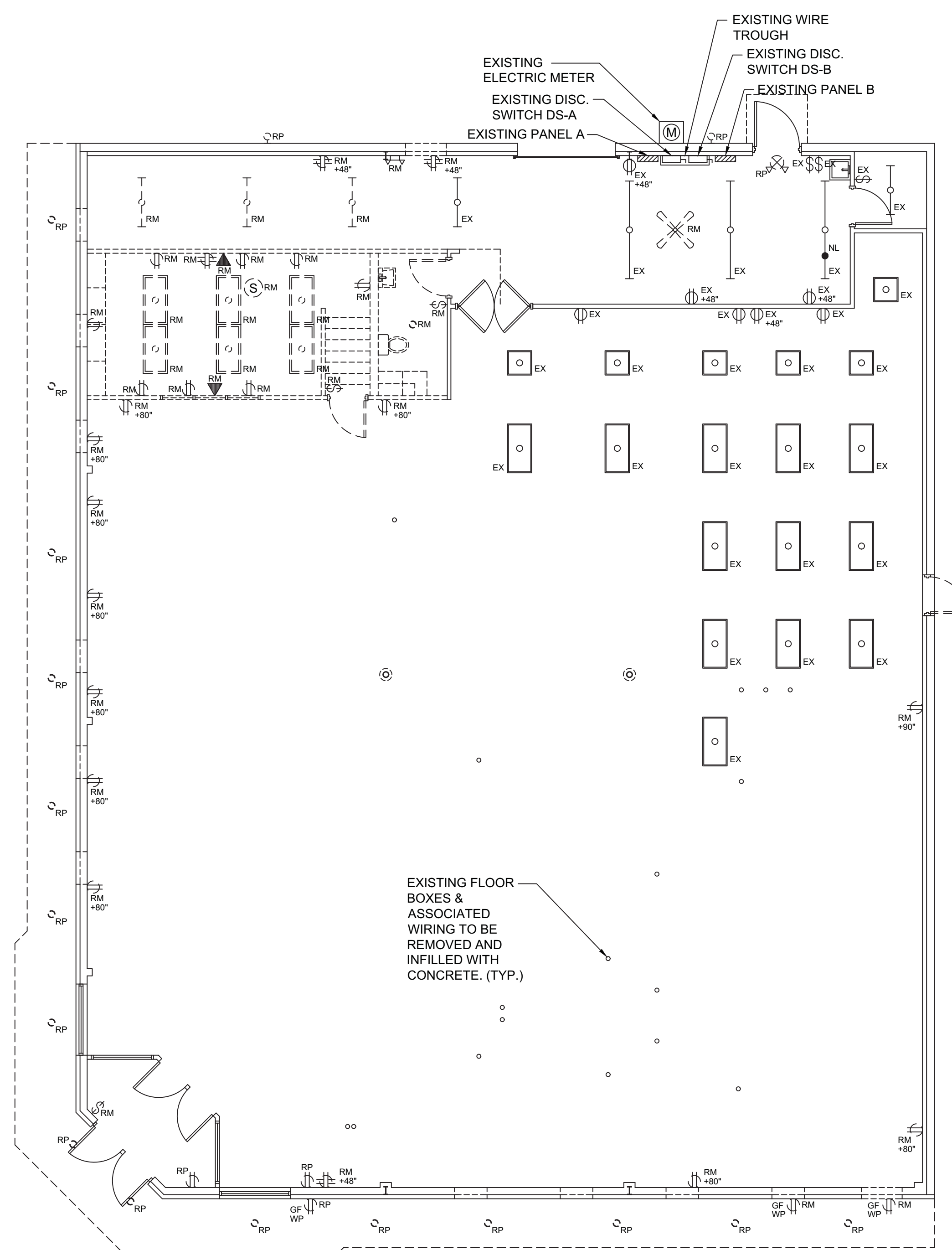
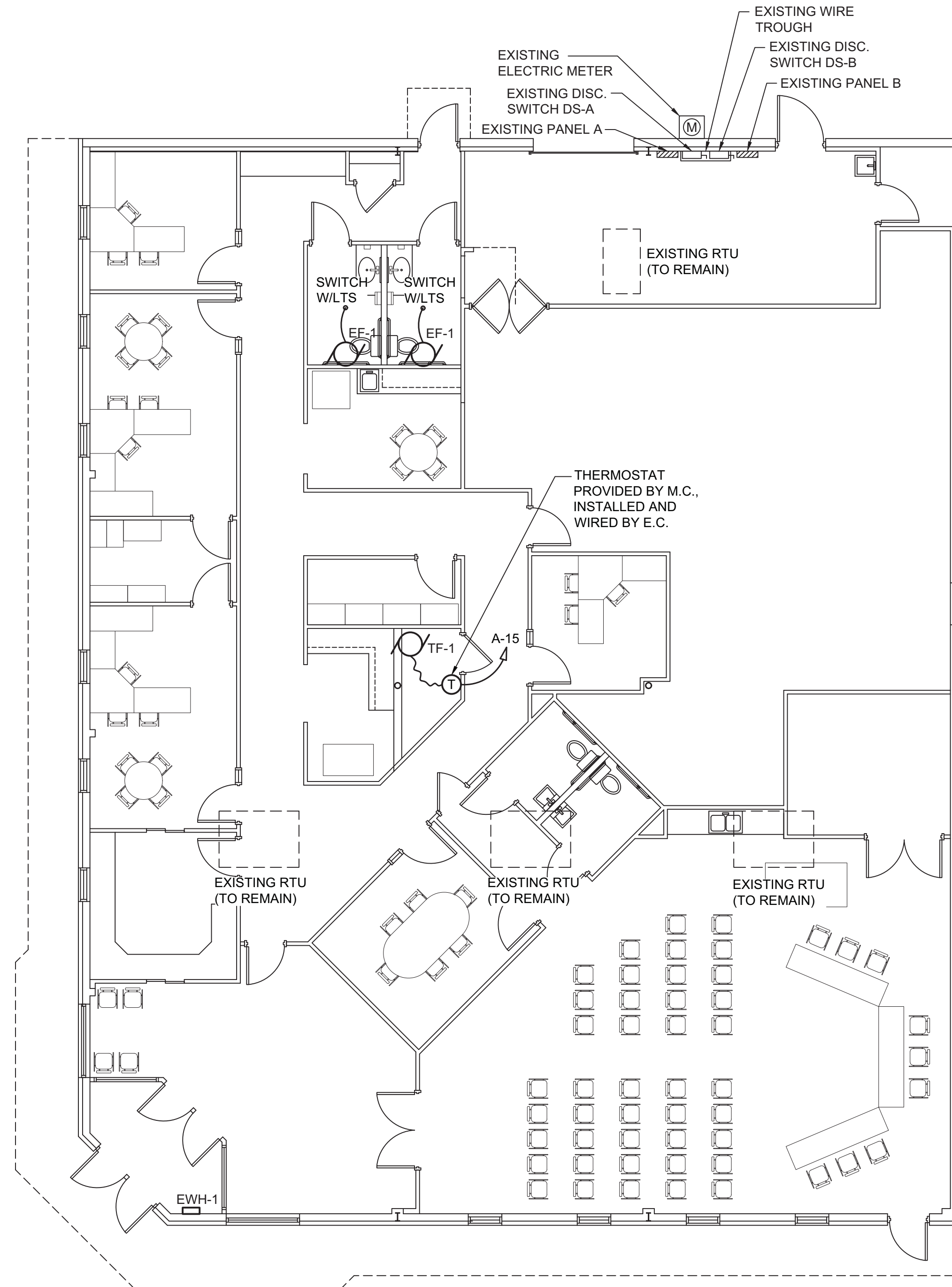
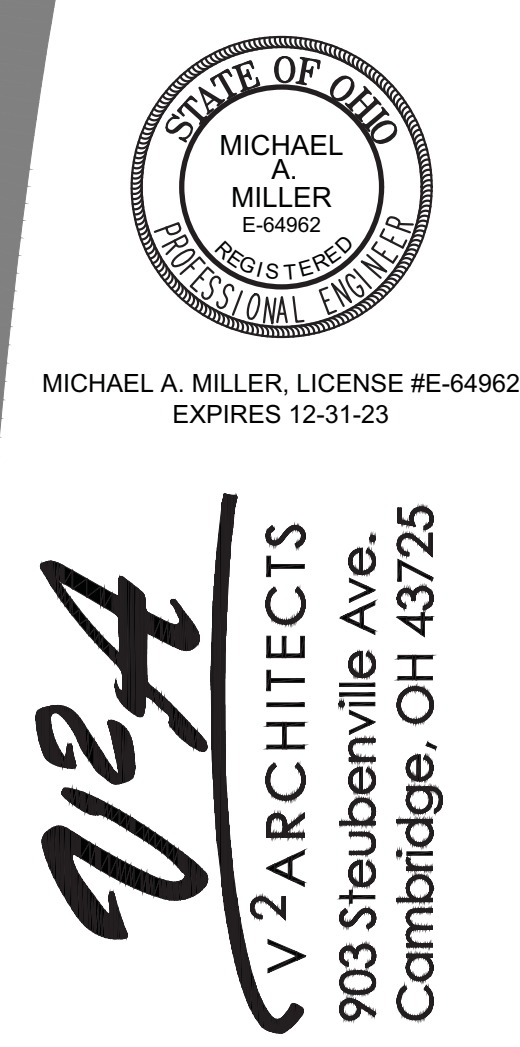
ISSUED: 05/07/2022 CONSTRUCTION DOCUMENTS
PROJECT NO.: 2029
DRAWN: CW
CHECKED: MM

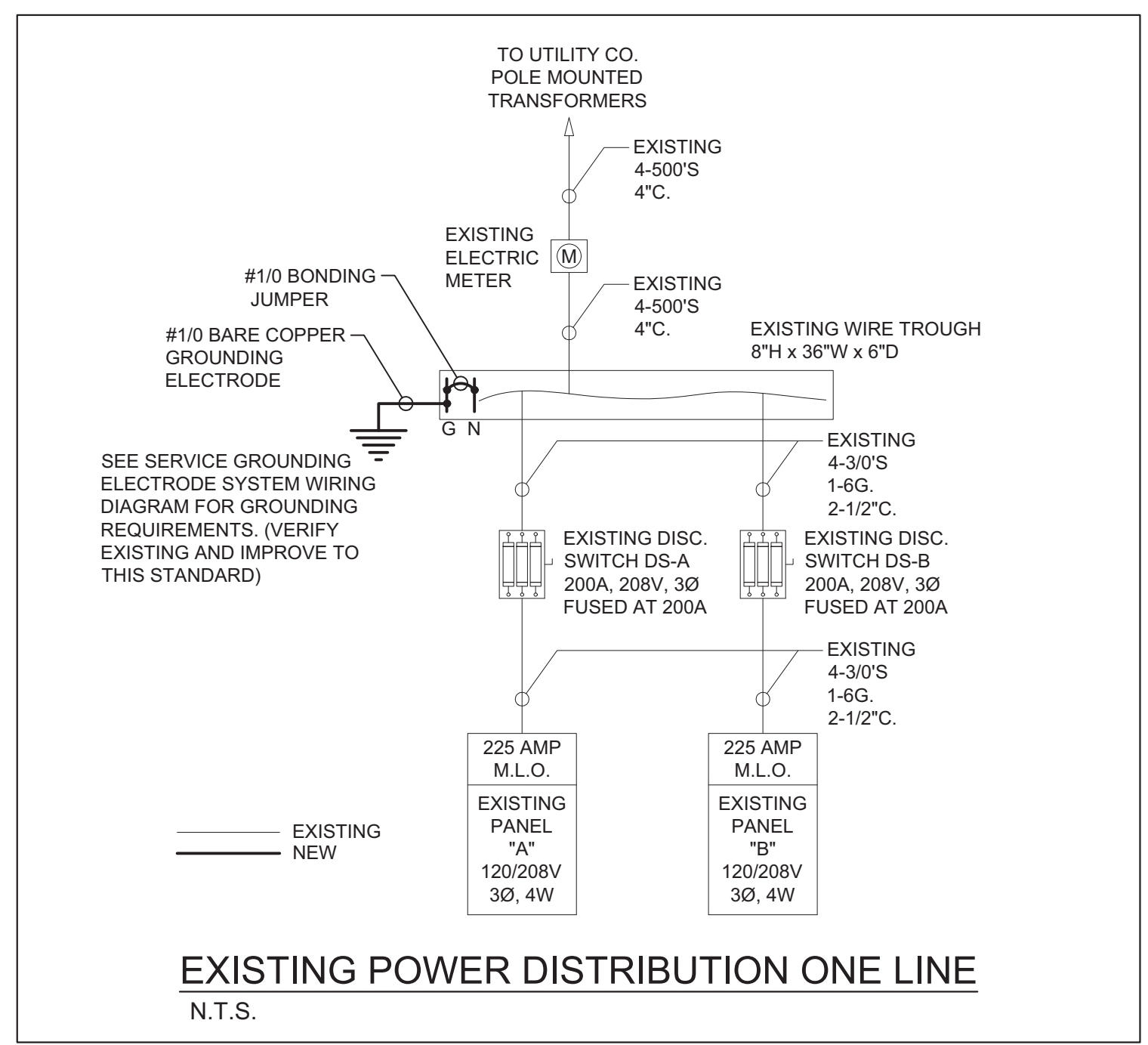
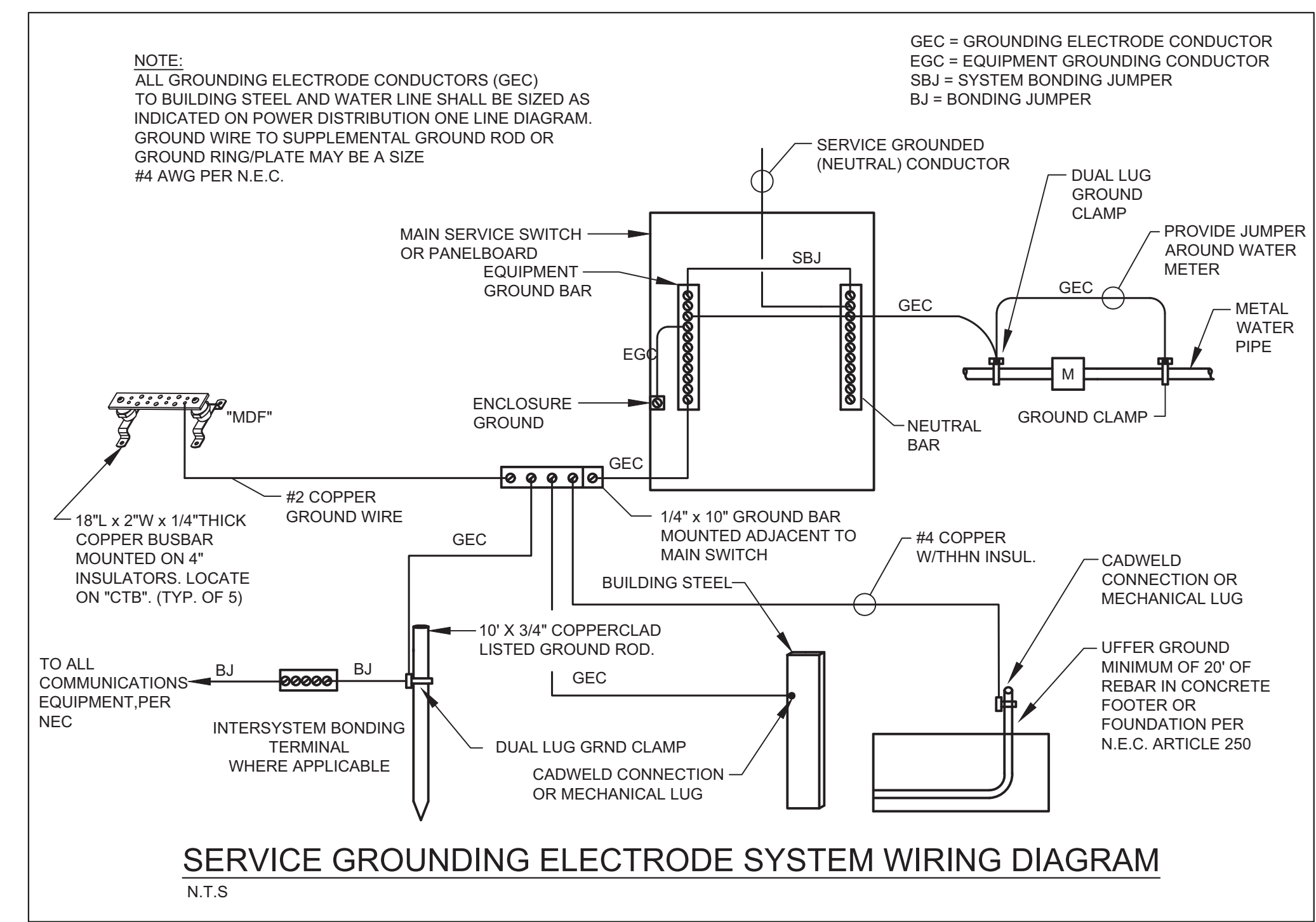
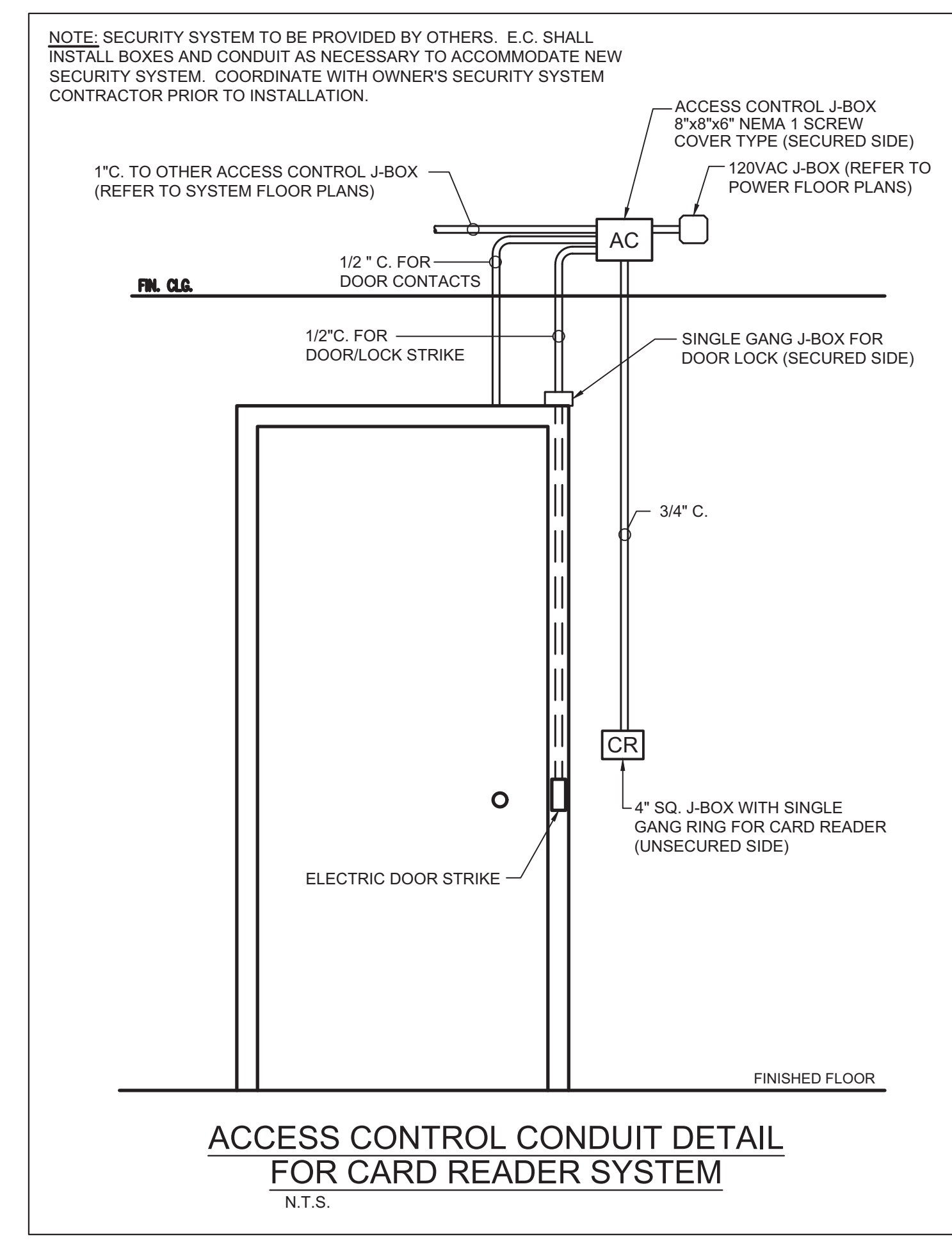
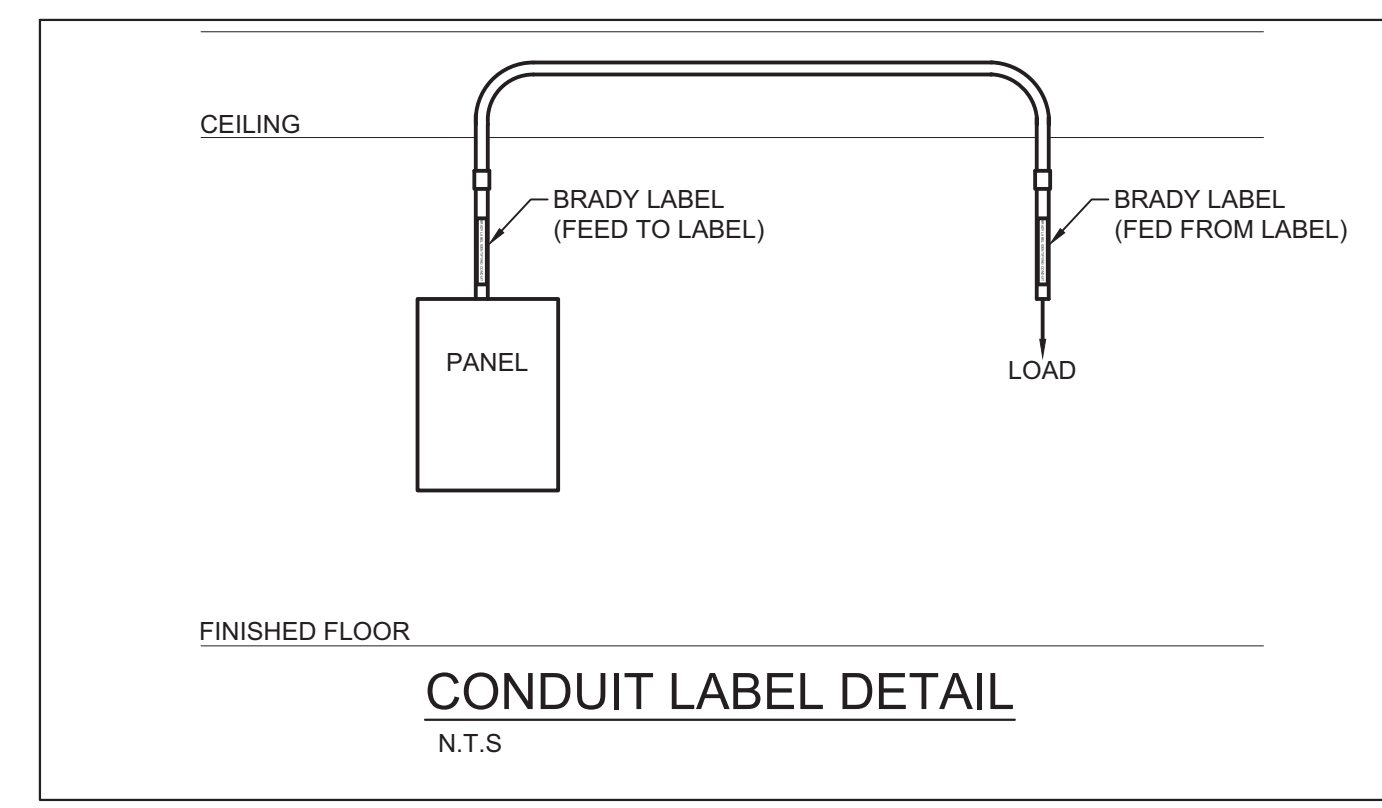
SHEET NAME
LIGHTING & POWER
PLANS

E1.0



- DEMOLITION NOTES:
- E.C. SHALL REMOVE ALL ELECTRICAL WIRE, CONDUIT, MOUNTING STRAPS, AND DEVICES FOR EQUIPMENT SHOWN ON DEMOLITION PLAN BACK TO SOURCE OF SUPPLY.
 - DEMOLITION PLAN SHOWS EQUIPMENT TO BE REMOVED IN ITS ENTIRETY ONLY. ALL DEVICES, EQUIPMENT OR FIXTURES TO BE REPLACED ARE INDICATED ON THE RESPECTIVE LIGHTING AND POWER PLANS.
 - E.C. SHALL BE RESPONSIBLE FOR PROPER DISPOSAL, OFF SITE, OF ALL ELECTRICAL EQUIPMENT TO BE REMOVED UNLESS SPECIFICALLY DIRECTED OTHERWISE BY OWNER OR ARCHITECT. OWNER RESERVES THE RIGHT TO KEEP EXISTING DEVICES, FIXTURES OR EQUIPMENT FOR FUTURE USE OR FOR RECYCLING PURPOSES. E.C. SHALL COORDINATE WITH OWNER DURING CONSTRUCTION.
 - WHERE REMOVAL OF ANY ELECTRICAL DEVICE, FIXTURE, OR EQUIPMENT CAUSES INTERRUPTION OF POWER TO A DEVICE, FIXTURE OR EQUIPMENT TO REMAIN, E.C. SHALL EXTEND CIRCUITRY AS NECESSARY FOR PROPER OPERATION.
 - DEMOLITION PLANS ARE SHOWN ON THESE DRAWINGS TO ASSIST THE E.C. WITH PROVIDING A BID ONLY. THE E.C. SHALL VISIT THE SITE, REVIEW THE ARCHITECTURAL DEMOLITION PLANS, AND INCLUDE ALL REQUIRED DEMOLITION IN HIS BID FOR A COMPLETE AND OPERABLE SYSTEM AS DESIGNED HEREIN.
 - WHERE NEW FINISHES ARE NOT BEING PROVIDED BY G.C., E.C. SHALL PATCH ALL HOLES THROUGH WALLS, CEILINGS, OR FLOORS RESULTING FROM THE DEMOLITION/REMOVAL OF ANY GIVEN FIXTURE, DEVICE, OR CONDUIT. PAINT PATCHED AREA TO MATCH EXISTING.
 - ALL EXISTING, UNUSED WIRING SHALL BE REMOVED IN ITS ENTIRETY UNLESS SPECIFICALLY DESIGNATED AND TAGGED FOR FUTURE USE.





PANEL A (EXISTING PANEL) PANEL TYPE ITE CDP LOCATION MECH. 116
SURFACE MOUNTED 120/208 VOLT 3 PHASE 4 WIRE
MAINS RATING 225 AMP NEMA 1
A.I.C. RATING 10,000 AMPS

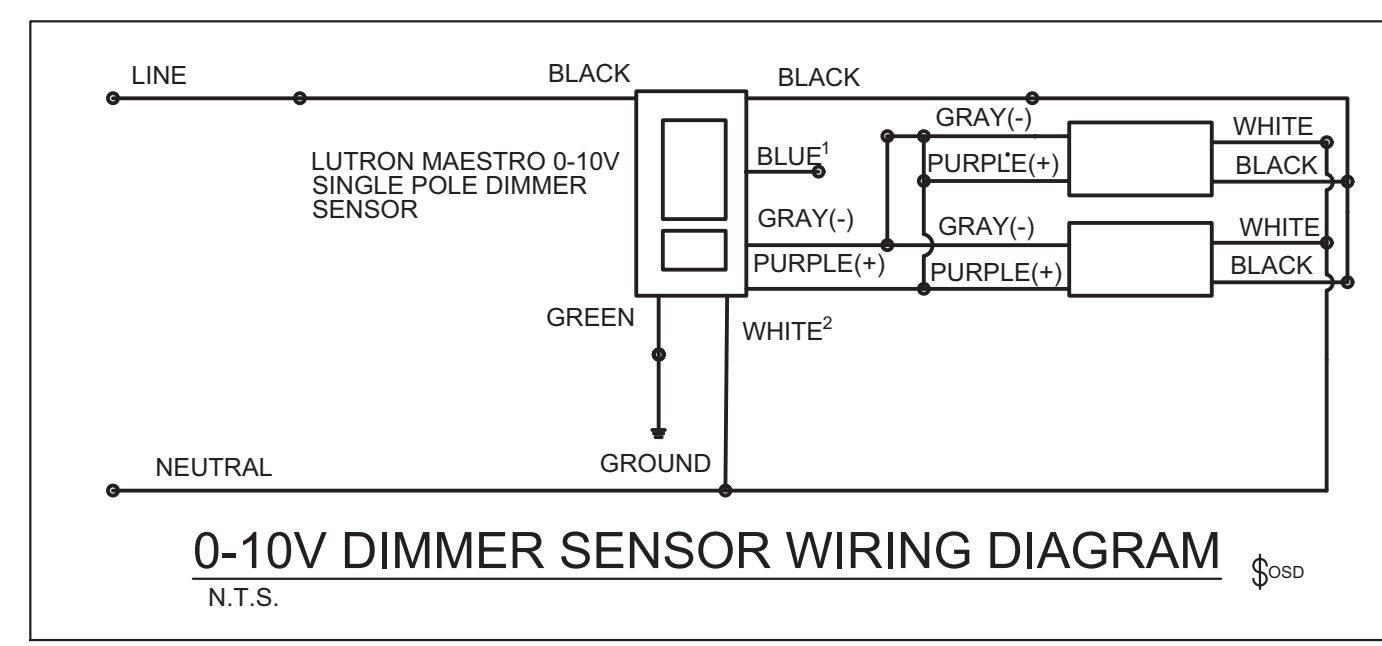
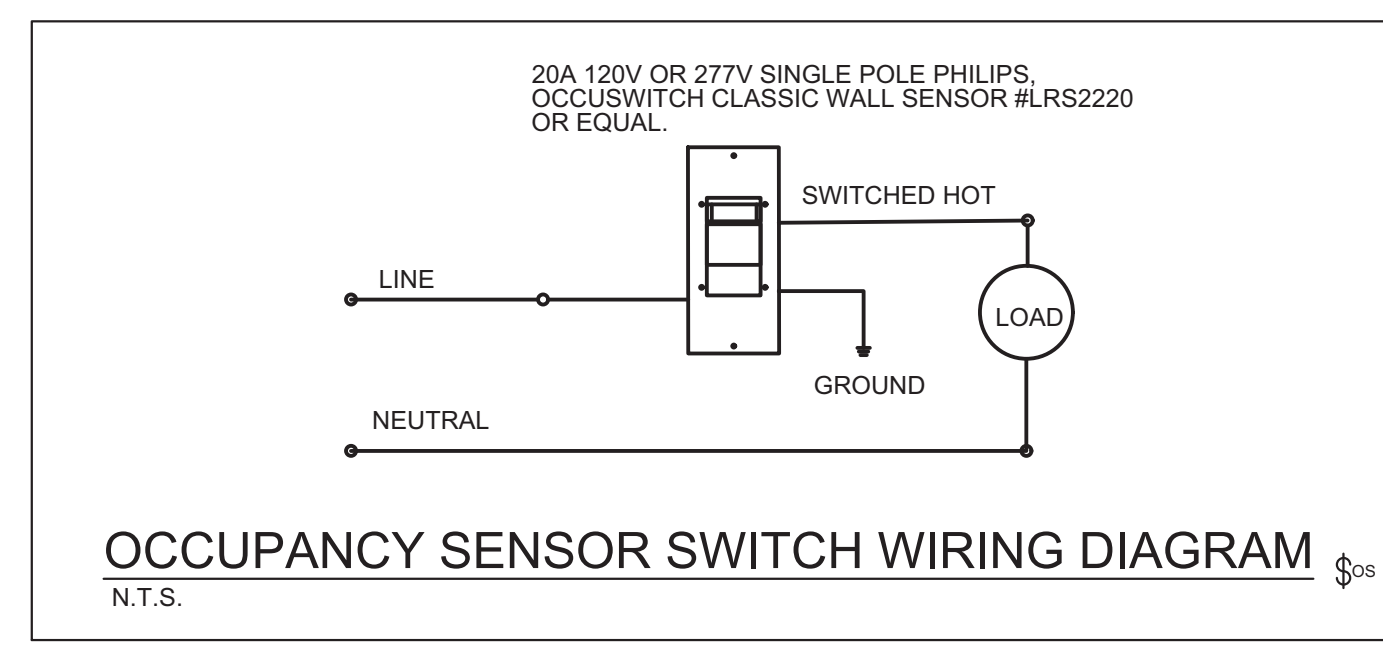
| CIRCUIT | WIRE AWG | TRIP | ASSIGNMENT | LOAD (VA) | | | ASSIGNMENT | TRIP | WIRE AWG | CIRCUIT | |
|--------------------------|----------|------|---------------------------|-----------|-----|---|---------------------------|------|----------|---------|--|
| | | | | A | B | C | | | | | |
| 1 | 20/1 | | EXISTING DRIVER/BLOWER R. | - | - | - | EXISTING POP MACHINE RECP | 20/1 | 2 | | |
| 3 | 20/1 | | EXISTING DRIVER/BLOWER R. | - | - | - | EXISTING POP MACHINE RECP | 20/1 | 4 | | |
| 5 | 20/1 | | EXISTING DRIVER/BLOWER R. | - | - | - | EXISTING POP MACHINE RECP | 20/1 | 6 | | |
| 7 | 20/1 | | - | - | - | - | EXISTING POP MACHINE RECP | 20/1 | 8 | | |
| 9 | 20/1 | | - | - | - | - | - | 20/1 | 10 | | |
| 11 | 20/1 | | EXISTING MICROWAVE RECP | - | - | - | - | 20/1 | 12 | | |
| 13 | 20/1 | | - | - | - | - | EXISTING MED UPS | 20/1 | 14 | | |
| 15 | 12 | 20/1 | ** TF-1 | 3/4 | 135 | - | EXISTING BATH HEATERS | 20/2 | 16 | | |
| 17 | 20/1 | | EXISTING CIRC. PUMP | - | - | - | - | - | 18 | | |
| 19 | 30/2 | | EXISTING WATER HEATER | - | - | - | - | - | 20 | | |
| 21 | 12 | 20/1 | - | - | - | - | EXISTING ROOFTOP UNIT | 50/3 | 22 | | |
| 23 | 12 | 20/1 | - | - | - | - | - | - | 24 | | |
| 25 | 50/3 | | EXISTING ROOFTOP UNIT | - | - | - | EXISTING ROOFTOP UNIT | 50/3 | 26 | | |
| 27 | 12 | 20/1 | - | - | - | - | - | - | 28 | | |
| 29 | | | SPACE | - | - | - | - | - | 30 | | |
| | | | | A | B | C | A | B | C | | |
| CONNECTED LOAD PER PHASE | | | | - | - | - | TOTAL CONNECTED LOAD | | - | WATTS | |

REMARKS: 1) "GF" = GROUND FAULT CIRCUIT BREAKER. 2) "HLO" = HANDLE LOCK ON. 3) "ST" = SHUNT TRIP CIRCUIT BREAKER. 4) * = NEW LOAD AND CIRCUIT BREAKER IN AVAILABLE SPACE. 5) ** = NEW LOAD ON EXISTING SPARE CIRCUIT BREAKER.

PANEL B (EXISTING PANEL) PANEL TYPE ITE CDP LOCATION MECH. 116
SURFACE MOUNTED 120/208 VOLT 3 PHASE 4 WIRE
MAINS RATING 225 AMP NEMA 1
A.I.C. RATING 10,000 AMPS

| CIRCUIT | WIRE AWG | TRIP | ASSIGNMENT | LOAD (VA) | | | ASSIGNMENT | TRIP | WIRE AWG | CIRCUIT | |
|--------------------------|----------|------|-------------------------|-----------|------|------|------------------------|------|----------|---------|--|
| | | | | A | B | C | | | | | |
| 1 | 12 | 20/1 | ** SPARE | - | - | - | ** LIGHTING | 20/1 | 12 | 2 | |
| 3 | 12 | 20/1 | ** LIGHTING | 3/4 | 1095 | 1260 | ** LIGHTING | 20/1 | 12 | 4 | |
| 5 | 12 | 20/1 | ** LIGHTING | 3/4 | 990 | 1075 | ** LIGHTING | 20/1 | 12 | 6 | |
| 7 | 12 | 20/1 | ** RECEPTACLES | 3/4 | 720 | 720 | ** RECEPTACLES | 20/1 | 12 | 8 | |
| 9 | 12 | 20/1 | ** RECEPTACLES | 3/4 | 1080 | 360 | ** RECEPTACLES | 20/1 | 12 | 10 | |
| 11 | 12 | 20/1 | ** RECEPTACLES | 3/4 | 1260 | 900 | ** RECEPTACLES | 20/1 | 12 | 12 | |
| 13 | 20/1 | | EXISTING LIGHTING TIMER | - | - | - | ** REFRIGERATOR "GF" | 20/1 | 12 | 14 | |
| 15 | 12 | 20/1 | ** RECEPTACLES | 3/4 | 1080 | 180 | ** RECEPTACLES | 20/1 | 12 | 16 | |
| 17 | 12 | 20/1 | ** RECEPTACLES | 3/4 | 540 | 180 | ** RECEPTACLES | 20/1 | 12 | 18 | |
| 19 | 12 | 20/1 | ** RECEPTACLES | 3/4 | 900 | 180 | ** RECEPTACLES | 20/1 | 12 | 20 | |
| 21 | 12 | 20/1 | ** RECEPTACLES | 3/4 | 900 | 1080 | ** RECEPTACLES | 20/1 | 12 | 22 | |
| 23 | 12 | 20/1 | ** RECEPTACLES | 3/4 | 360 | 720 | ** RECEPTACLES | 20/1 | 12 | 24 | |
| 25 | 12 | 20/1 | ** RECEPTACLES | 3/4 | 360 | 720 | ** RECEPTACLES | 20/1 | 12 | 26 | |
| 27 | 12 | 20/1 | ** RECEPTACLES | 3/4 | 1080 | 360 | ** RECEPTACLES | 20/1 | 12 | 28 | |
| 29 | 15/1 | | EXISTING COMPUTER RECP | - | - | - | ** RECEPTACLES | 20/1 | 12 | 30 | |
| 31 | 12 | 20/1 | ** RECEPTACLES | 3/4 | 1080 | 1500 | ** COPIER | 20/1 | 12 | 32 | |
| 33 | 12 | 20/1 | ** DOOR SECURITY | 3/4 | 720 | 360 | ** RECEPTACLES | 20/1 | 12 | 34 | |
| 35 | 12 | 20/1 | ** RECEPTACLES | 3/4 | 1260 | 110 | ** EXTERIOR LIGHTING | 20/1 | 12 | 36 | |
| 37 | 20/1 | | EXISTING FURNACE RM | - | - | - | EXISTING PROD. STATION | 20/1 | 38 | | |
| 39 | 20/1 | | EXISTING SOUTH SIGN | - | - | - | EXISTING EAST SIGN | 20/1 | 40 | | |
| 41 | 20/1 | | EXISTING EAST CANOPY | - | - | - | EXISTING SOUTH CANOPY | 20/1 | 42 | | |
| | | | | A | B | C | A | B | C | | |
| CONNECTED LOAD PER PHASE | | | | - | - | - | TOTAL CONNECTED LOAD | | - | WATTS | |

REMARKS: 1) "GF" = GROUND FAULT CIRCUIT BREAKER. 2) "HLO" = HANDLE LOCK ON. 3) "ST" = SHUNT TRIP CIRCUIT BREAKER. 4) * = NEW LOAD AND CIRCUIT BREAKER IN AVAILABLE SPACE. 5) ** = NEW LOAD ON EXISTING SPARE CIRCUIT BREAKER.



ELECTRICAL SPECIFICATIONS

General Requirements

- 1.0 General
- A. The architectural, civil, structural, mechanical, security and any equipment and specifications are hereby incorporated into and become a part of the electrical contract documents. The contractor shall examine all such drawings and specifications and become familiar with provisions contained therein.
 - B. It is the purpose of the electrical drawings to indicate the approximate locations of all equipment, outlets, fixtures, etc. Ascertain exact locations and arrange work accordingly. The final locations are subject to reasonable change by the Architect or Owner prior to rough-in at no additional cost. Dimensions given on the plans shall be verified in the field. Drawings shall not be scaled to obtain exact dimensions.
 - C. The drawings show diagrammatically the locations of the various electrical devices, equipment, fixtures, and the method of connecting and controlling them; they are not intended to show every connection in detail, nor all fittings required for a complete system. Material or labor which is not shown on the drawings or included in these specifications but is necessary to complete the work, shall be provided.
 - D. The drawings, as prepared, are diagrammatic in nature, but shall be followed as closely as actual operation of building and work of other trades will permit. All changes from these drawings, necessary to make the work conform to the building as constructed, and to fit the work of other trades or to conform to the rules and regulations of the state, federal and local authorities having jurisdiction, shall be made by this contractor, at his own expense.
 - E. All bidders are required to visit the site of the work and become familiar with the conditions affecting installation. Submission of a proposal shall presuppose knowledge of such conditions and no additional compensation will be allowed where extra labor or materials are required because of ignorance of these conditions.
- 1.1 Work Included
- A. All labor, materials and equipment required for a complete and operating electrical installation.
 - B. All permits and inspections required for electrical work.
 - C. Concrete where required for electrical work.
 - D. Trenching and backfill required for electrical work.
 - E. Cutting, patching and fireproofing where required for electrical work.
 - F. Distribution equipment, switchboards, panelboards dry type transformers and combination starters.
 - G. Feeder and branch circuit wiring.
 - H. Low-voltage lighting control systems
 - I. Grounding system
 - J. Lighting fixtures and lamps.
 - K. All lighting fixtures, hangers, supports, lamps and control devices installed and connected in complete working order.
 - L. Emergency lighting system and exit signs.
 - M. Receptacle outlets, disconnect switches and equipment connections.
 - N. Outlet boxes, empty conduits and plywood backboards for mounting telephone and data cabling.

- O. Demolition of existing electrical work affected by the new work shown and/or as indicated on the drawings.
- 1.2 Material not provided by this contractor, but subject to wiring and installation
- A. Motors, and motor controls where specified by others.
 - B. Unless otherwise indicated on the drawings, the mechanical contractor shall provide all low-voltage temperature control components for HVAC systems including conduit and wire.
- 1.3 Requirements of regulatory agencies
- A. All work shall be furnished and installed in accordance with the provisions of all applicable federal, state, and local codes, rules, regulations, and standards, including the latest edition of the National Electrical code as interpreted by the Authority Having Jurisdiction.
 - B. Secure and pay for all permits and inspections required for electrical work and give the proper authorities notices as required by law. Comply with regulations regarding temporary enclosures, obstructions, excavations and pay for all legal fees involved.
 - C. All conditions and requirements of the occupational safety and health act (OSHA) shall be followed throughout the construction of this project.
- 1.4 Submittals
- A. Submit electronic PDF's of drawings, catalog sheets and/or wiring diagrams for the following equipment and systems in division #1.
 - a. Lighting fixtures
 - b. Panelboards and Switchgear
 - c. Disconnect switches and fuses
 - d. Wiring devices and cover plates
 - e. Data communication structure cabling system.
 - B. The submittals will be reviewed by this engineer for general compliance with contract documents only, and not for dimensions, quantities, etc.
 - C. The submittals returned as "reviewed" or "reviewed as noted" shall be used for procurement; however, the responsibility for correct procurements remains solely with the contractor. All submittals marked "revise and resubmit" or "rejected" shall be resubmitted for approval prior to procuring said equipment.
 - D. Disposition of submittals shall not relieve the contractor from the responsibility for deviations from drawings or specifications, unless he has submitted in writing a letter itemizing or calling attention to such deviations at the time of submission and secured written approval from the Architect, nor shall such disposition of submittals relieve the contractor from the responsibility for errors in submittals.
- 1.5 Substitutions
- A. These specifications shall establish the quality and standard for materials and equipment to be furnished. Items specified by the manufacturer, trade name, or catalog number shall be furnished as specified.
 - B. Where more than one manufacturer is specified for an item or system, the contractor may furnish any item or system specified.
 - C. Where the equipment of one manufacturer is specified and other manufacturers are listed as "alternate manufacturers", the contractor may furnish the equipment of the specified manufacturer or any of the listed alternate manufacturers. However, the drawings are based on the equipment of the specified manufacturer only. If the contractor elects to furnish equipment of an alternate manufacturer, any changes to the work shown on the drawings requiring accommodating variations of the alternate equipment in dimensions, characteristics, requiring accommodating variations of the alternate equipment in dimensions, characteristics,

- access, etc. from the specified equipment including work of other contractors shall be in the contractors bid.
- 1.6 As-built drawings
- A. The electrical contractor shall keep two sets of as-built drawings on site with detailed red-line mark-ups of all work varying from construction documents. Both sets of drawings shall be provided to the Architect for further implementation into the final as-built drawings.
- 1.7 Temporary lighting and wiring
- A. Provide temporary electrical service, convenience outlets, lighting and power as required for use of all trades during construction.
- 1.8 Guarantee
- A. Guarantee all workmanship and materials furnished under the contract for one year after acceptance of work by owner. Repair or replace any defect during the guarantee period, without any cost to the owner.
- 1.9 Materials and equipment
- A. All equipment and material shall be new, of current manufacturer and meet or exceed standards specified by UL, NEMA, ANSI, and IEEE wherever such standards have been established and shall bear the Underwriter's Laboratories label. All materials supplied of one type or of one system shall be by the same manufacturer.
 - B. Equipment and material shall be protected by and be the responsibility of the contractor until formally accepted by the owner and final completion of the project.
- 1.10 Supporting device
- A. Provide all hardware, supports, hangers, angle iron, channels, rods, clamps, etc., for installation of electrical equipment and light fixtures as required to suit conditions and application. All supporting devices shall be galvanized or cadmium plated steel or other suitably corrosion-resistant material.
- 1.11 Workmanship
- A. Electrical work shall be supervised by a state certified electrician. Workmanship shall be in accordance with the best practices of the electrical trade, N.E.C. (2020), and all state, federal and local codes.
- 1.12 Equipment Connections
- A. Serve and connect electrical equipment furnished by others as scheduled on drawings. Coordinate all outlet locations and connection requirements with the contractor furnishing the equipment and with all architectural casework. Prior to connecting equipment, check the nameplate rating against all information given herein or shown on drawings and contact this engineer if any discrepancy arises. E.C. shall carefully review all equipment manufacturer's installation diagrams and drawings prior to equipment installation.
- 1.13 Cutting and Patching
- A. Avoid cutting and patching of new construction by using sleeves, inserts and chases as required. Openings for the passage of ducts and conduits through walls and floors, chases, etc. in new construction will be provided by the general contractor. This contractor shall give the general contractor complete information as to the exact size and location of such openings and shall coordinate accordingly.
 - B. E.C. shall provide all cutting and patching required for installation of electrical work in existing construction. Structural members shall not be cut unless approved by the Architect and structural engineer.

Basic Methods and Materials

- 2.0 Conduits
- A. Conduits shall be:
 - a. Rigid or intermediate grade galvanized steel conduit in wet locations, concrete, and exposed locations subject to damage.
 - b. Galvanized steel electrical metallic tubing in dry locations, interior partitions, and ceiling space.
 - c. Flexible metal conduit for final connections to transformers, motors, and equipment. Liquid tight flexible metal conduit in wet and damp locations.
 - d. Flexible metallic tubing from outlet box to recessed light fixtures in suspended ceilings – six foot maximum length.
 - e. Schedule 40 PVC rigid non-metallic conduit where buried below ground floor slab.
 - f. Schedule 80PVC where exposed outdoors if specifically indicated on drawings. Otherwise, all exposed exterior conduit shall be galvanized rigid steel type.
 - B. Raceways shall be sized in accordance with the N.E.C. tables and as noted on the drawings. Minimum conduit size shall be 3/4" unless specified otherwise on drawings.
 - C. Conduit fittings for rigid conduit shall be threaded cast ferrous alloy with gaskets and covers where required. Conduit fittings for EMT shall be set screw or compression type. Locknuts shall be of the bonding type that bites into the metal of the terminating enclosure.
 - D. Metal conduits shall be coupled and secured to all boxes in a manner that provides an electrically continuous ground path from the point of service to all outlets. However this conduit ground path shall not be relied upon for the equipment grounding conductor. A separate "green" equipment grounding conductor sized per NEC Table 250.122 shall be installed in all conduit runs. See drawings for specific sizing requirements.
 - E. Nylon pull line shall be installed in all empty conduits for future use.
 - F. Conduit routing indicated on drawings is diagrammatic only and is not necessarily the intended actual conduit run. Contractor shall check and be responsible for the actual installation with regard to available space and shall cooperate with other trades.
 - G. All conduits shall be sized and installed so that the required number of conductors may be pulled in without injury or strain.
 - H. Conduit runs shall be located to avoid equipment and access to equipment of other trades.
 - I. Conduits in finished areas shall be run concealed in walls and above finished ceilings. Conduits may be run exposed only in open spaces.
 - J. Exposed conduits, where permitted shall be run with all runs parallel to or at right angles to building structural members.
 - K. Conduit supports shall be attached to building structural members only, and not to any building sub-systems such as suspended ceilings, mechanical ducts or pipes.
 - L. Ends of each conduit shall be capped with an approved cap or disc to prevent the entrance of foreign material during construction.
 - M. Conduits that pass through fire or smoke rated walls, ceilings, or decks shall be installed so as to maintain the fire or smoke rating.
 - N. Expansion fittings shall be installed at all points where conduits cross building expansion joints.
 - O. Conduit entries into building shall be made watertight. All underground joints shall be sealed and shall only be provided where specifically indicated on plans. Otherwise, underground splicing is strictly prohibited and will result in immediate removal of wiring for re-installation.
 - P. Exterior underground conduits shall be installed 36" minimum below finished grade.
- 2.1 Feeder and branch circuit conductors (600volt)
- A. Feeder and branch circuit conductors shall be U.L. labeled, 98% conductivity copper stamped at 2' intervals with conductor size and insulation type.

- B. Feeder conductors shall be type THHN/THWN or XHHW-2, 600Volt, stranded copper. See power distribution one line for exact conductor requirements.
 - C. Branch circuit conductors shall be type THHN/THWN, 600V, copper. Wire sizes #8AWG and larger shall be stranded type. Minimum wire size shall be #12AWG or larger as required to limit voltage drop at furthest load to 3%VD.
- D. Color code branch circuit and feeder conductors shall be as follows:
- | |
|---------------------------|
| 120/208V, 3-phase, 4-wire |
| Phase A- Black |
| Phase B- Red |
| Phase C- Blue |
| Neutral – White |
| Ground – Green |
- E. Color coding shall be continuous on insulation for #8AWG or smaller conductors and continuous or marked with colored tape at all connections for conductors larger than #8 AWG.
 - F. All mechanical wire and cable termination shall be tightened with torque wrench or screwdriver to manufacturer's recommended torque values.
 - G. Joints in #10AWG or smaller wire shall be made with 3m "Scotch Locke" or equivalent.
 - H. Joints in #8AWG and larger wire shall be made with pressure type mechanical connectors and insulated with electrical tape or heat shrink insulation to 250% of the insulating value of the conductor insulation.
 - I. Electrical contractor shall be responsible to balance all 1-phase loads in the respective 3-phase panel for even loading on all phases.
- 2.2 Metal clad cable (MC) shall be construct in strict accordance with U.L. standard for metal clad cables. The cable shall bear the U.L. label and the manufacturer's "E" number. In addition metal clad cable installation must meet the requirements of NFPA70. MC may only be installed on branch circuits 30amps or less where circuit is being installed in walls or open ceiling spaces. E.C. must install all home runs in EMTconduit. MC cable is unacceptable in all open spaces except for fixture whips (6' maximum length).
- 2.3 Conduit boxes
- A. Outlet boxes shall be galvanized steel construction of proper size meeting N.E.C. requirements and suitable for the location installed.
 - B. Pull and junction boxes shall be installed at all points required by code whether indicated on drawings or not. Minimum dimensions shall not be less than N.E.C. requirements or as specified on drawings. Pull and junction boxes indoors shall be constructed of code gauge galvanized steel and shall be provided with flat plain covers.
 - C. All conduit boxes shall be rigidly mounted to the building structure independent of conduit system per N.E.C.
 - D. Light switch boxes shall be installed on the latch side of the door. E.C. shall verify all door swing directions with architectural drawings prior to installation. Coordinate any discrepancies with this engineer prior to installation.
 - E. Outlet boxes shall not be installed directly "back-to-back" in 4"walls Offset outlets shown on drawings as "back-to-back" by the width of the box (minimum).
- 2.4 Wiring devices

- A. Wiring devices shall be as specified in the symbol legend on the drawings. All wiring devices shall be the product of a single manufacturer except where specifically stated otherwise. Colors and finish shall be as selected by Architect.
 - B. Switches and receptacles shall be manufactured by Hubbell, Pass&Seymour or Leviton.
 - C. Cover plates shall be nylon with color to match device in office and commercial spaces.
 - D. Stainless steel in unfinished spaces.
 - E. The inside cover of all receptacle and light switch plates shall be permanently marked to indicate the panel and circuit number of the outlet or light circuit.
- 2.5 Grounding system
- A. This contractor shall provide, install and connect a complete system of grounding for all equipment. A good mechanical and electrical connection shall be made with approved grounding connectors by Erico or equal. Connection to building steel, water line, and ground rods shall be by exothermic, CadWeld type connections.
 - B. Electrical system grounding and equipment bonding grounds shall comply with all local, state and federal codes. Bonding jumpers shall be installed at all location required by the National Electrical Code and per these documents.
 - C. Main grounding electrode conductor shall be sized in accordance with table 250.66 (section 250) of the N.E.C. and as indicated on these drawings.
 - D. Driven ground rods shall be copper clad type. Connection to buried ground rods shall be exothermic/CADWELD type. Tops of all buried ground rods shall be a minimum of 6" below grade. Where rock is encountered, grounding plates may be used in lieu of grounding rods. Grounding plates shall be copper type and sized as directed by this engineer. Ground enhancing material "GEM" should be used on ground plate installations and all ground rod installations.
 - E. All exposed connections shall be made by means of approved grounding clamps. Exposed connections between different metals shall be sealed with grade "A" no-oxide paint. All buried and inaccessible installations shall have a CadWeld type connections.
- Service and Distribution**
- 3.0 Electrical service
- A. The existing electrical service system is 120/208V, 3ø, 4-wire derived from pole mounted transformers with underground cables to main service switchboard.
- 3.1 Distribution panelboards
- A. Distribution panelboard is dead front circuit breaker type, with voltage, amperage, and main lugs as noted on drawings.
 - B. Branch circuits and fuses shall be of quantity and amperage as shown on drawings.
 - C. Distribution panelboards shall be Square "D", Siemens or Eaton/Cutler Hammer.
 - D. Circuit breakers shall be thermal magnetic, molded case, bolt-on type with quantity, amperage, and poles as noted on the panel schedules. Short circuit interrupting capacity shall be as indicated on panel schedules and as necessary to exceed the available fault current ad defined by the serving power utility company.
 - E. Panelboard enclosures shall be general purpose, surface or flush mounted as shown on plans, with galvanized backbox and painted front with lockable "door in door" type construction.
 - F. A glazed directory frame shall be provided inside door and shall be of sufficient size to give descriptive indications of each circuit load.
 - G. Two keys shall be provided with each panel and all branch circuit type panels shall be as manufactured by Square "D", Siemens or Eaton/Cutler Hammer.

- 3.2 Disconnect Switches
- A. This contractor shall provide a properly rated and sized disconnect switch for all equipment as specified on the drawings.
 - B. Disconnect switches shall all be heavy duty type and fused as indicated on disconnect schedule.
 - C. All exterior switches shall be NEMA 3R type unless indicated as type 4X, stainless steel.
 - D. Switches shall be provided with quick-make, quick-break operating mechanics, full cover interlock and indicator handle with provisions for padlocking in the off position.
 - E. U.L. class RK1 fuse clips.
 - F. Disconnect switches shall be Square D, Siemens or Eaton/Cutler Hammer.
- 3.3 Fuses
- A. A complete set of fuses, shall be installed for all fusible equipment in the project.
 - B. All fuses shall be of the same manufacturer and shall be delivered to the job site in new sealed packaging.
 - C. Fuses shall be U.L. listed, current limiting and have an interrupting rating of 200,000 RMS, Amperes symmetrical.
 - D. Fuses rated 601 to 6000 amperes shall be time delay, current limiting, NEMA class "L" unless indicated otherwise on drawings.
 - E. Fuses rated 600amperes and less shall be dual-element, current limiting, NEMA class RK-1 (NEMA CLASS RK5 is unacceptable).
 - F. Spare fuses amounting to 20% (minimum three) of each type and rating shall be supplied by this contractor and shall be document with owner at final completion of project.
 - G. A fuse identification label shall be placed inside each switch door. The label shall indicated fuse type, ampere rating, voltage class and interrupting rating.
 - H. Furnish spare fuse cabinet in main electrical room.
- 3.4 Equipment identification
- A. Provide new nameplates with black face and white letters (minimum height of 1/8" high) on all electrical distribution and control equipment. Lettering shall be as follows:
 - a. Line 1: equipment name
 - b. Line 2: amperage and voltage rating
 - c. Line 3: identification of upstream overcurrent protection device.
- Lighting**
- 4.0 Light fixtures
- A. Light fixtures shall be provided as specified in luminaire schedule.
 - B. Light fixtures installed in wet or damp locations shall be U.L. labeled as suitable for such location.
 - C. All lighting fixtures shall be securely supported from building structural members with approved hangers. Recessed grid troffers shall be fastened to ceiling t-bars with approved hurricane clips. Fixtures shall also be supported with wire hangers at four corners of fixtures to structural ceiling.
- 4.1 Lamps
- A. Fixtures shall typically be specified with led type lamping. All led color temperature shall be 4,000°C unless specified otherwise on luminaire schedule.
- 4.2 Drivers
- A. All LED drivers shall be equipped with a 0-10V dimming capability where dimming switches are indicated on plans.
- 4.3 Installation

- A. Furnish and install all necessary hangers, supports, framing, fittings, etc. to support fixtures and fixture outlets. All fixture supports shall be securely anchored to ceiling and/or building construction and shall be capable of supporting the fixture in question with 100% redundancy.
 - B. Where installing chain mounted fixtures, the contractor shall provide additional supporting channels as required.
 - C. Provide thermal protection on recessed fixtures where required. All fixtures in insulated ceiling shall be I.C. rated.
- 4.4 Emergency lighting
- A. Egress emergency lighting and exit signs shall be provided with self-contained battery operated, unitary equipment. Battery units shall contain a long-life, self-charging nickel-cadmium battery. Units shall include unit mounted lighting heads where indicated, remote heads for wall or ceiling recessed mounting. Units shall be 120/277 Volt, 60HZ. All exit and egress emergency lighting shall provide a minimum of 90 minutes of operation on power failure. Locate as shown on plans. All lighting shall be circuited ahead of any switches, occupancy sensors or controllers.
 - B. Egress lighting shall be circuited to the branch circuit feeding the covered area per the National Electrical Code.
- Communication Systems**
- 5.0 Telephone & data cabling system
- A. Provide all conduit, boxes, sleeves and wire required for the installation of communications cabling systems as indicated on drawings. Data rack, data jacks, cabling and final terminations by owner representative.
- End of Electrical Specifications.