

**Building Code Data**

2021 IBC, 2021 IFG, 2021 IMC, 2021 IFGG, 2016 IECC, 2021 IEBC, 2023 NEC, 2021 IFG, ICC A117.1-2017

Type Of Construction: Type I-A Sprinkled

Fire Ratings:  
Structural Frame: 3 Hours  
Roof Construction: 2 Hours  
Floor Construction: 2 Hours  
Shafts: 2 Hours

No Change In Square Footage or Building Footprint.

Occupancy Classification: I-3, B, A-2, A-3, B, S-1, S-2

Occupancy In Area of Work: B (No Change)

Current Occupancy Numbers In Area of Work:  
Office: 5,242 S.F. / 150 = 23  
Assembly: 827 S.F. / 15 = 56

Occupancy Decrease: No Change

Travel Distance: No Change  
Plumbing Fixtures: No Change

**Code Plan Legend**

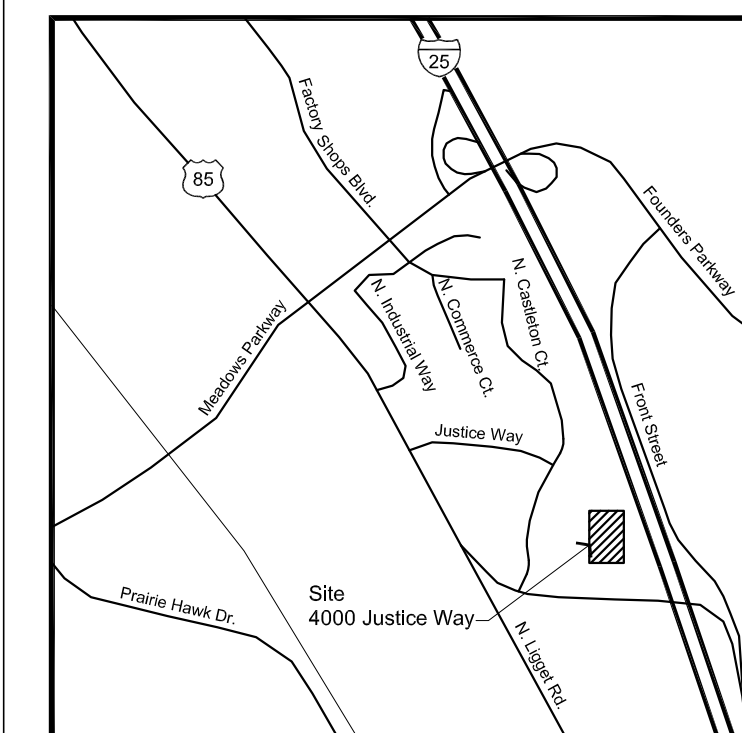
- Exit Travel Distance
- Occupancy Type-Incidental Use
- Exit Emergency Exit
- Occupants
- Exit Sign
- Fire Extinguisher Location.
- Fire Extinguisher 15' Coverage Extent.

**General Notes**

1. Contractor Shall Verify And Assume Responsibility For All Dimensions And Site Conditions. Any Discrepancies Shall Be Brought To The Attention Of The Architect For Final Determination. Information On The Drawings Has Been Ascertained From On Site Documentation And Nondestructive Field Observations. This Information Is As Accurate As Conditions Would Allow. It Is The Responsibility Of The Contractor To Visit The Site, Prior To Bid, And Familiarize Himself/Herself With The Extent Of Site Work Required. No Extras Will Be Allowed For Alterations Of A Foreseeable Nature Required To Achieve The End Result As Indicated By The Contract Documents.
2. All Phases Of This Work Shall Conform To The Minimum Standards Of The International Building Code, Latest Edition Adopted By The Douglas County Building Department And All Federal State And Local Regulation And Ordinances.
3. Dimensions Are Shown To The Face Of Studs And Center Of Columns Unless Otherwise Indicated. All Dimensions Must Be Verified. Grid Lines Denote Center Of Columns. Adjust Dimensions As Required To Maintain Column Coverage With Wall Construction And To Locate Walls Below Beams As Indicated. Notify Architect Of Any Discrepancy.
4. All Metal Studs Are 3-5/8" Wide Unless Otherwise Noted.
5. All Angles Are 90 Degrees or 45 Degrees Unless Otherwise Noted.
6. All Lumber/Wood/Plywood Used For Solid Blocking, Shall Be Fire Retardant Treated.

**100% CONSTRUCTION DOCUMENTS  
DOUGLAS COUNTY JUSTICE CENTER  
HORSESHOE/RECEPTION REMODEL  
CASTLE ROCK, CO 80109**

Contractor Staging Provide Temporary Fencing



Vicinity Map

**Sheet Index**

- Architectural:**
- Title Code Plan, Vicinity Map Directory
  - D1.0 Demolition Floor Plan
  - D1.1 Demolition Reflected Ceiling Plan
  - A1.0 Floor Plan
  - A1.1 Reflected Ceiling Plan
  - A2.0 Interior Elevations
  - A2.1 Sections, Details, and Schedules
- Mechanical:**
- M0.1 Mechanical Legends, Schedules, Notes & Details
  - M1.0 Mechanical Demolition Floor Plan
  - M2.0 Mechanical Floor Plan
- Electrical:**
- E1 Demo Power Plan
  - E2 Demo Lighting Plan
  - E3 New Power Plan
  - E4 New Lighting Plan

**Project Directory**

**Owner:**  
Douglas County  
4000 Justice Way  
Castle Rock, CO 80109  
Contact: Walter Schmidt  
PH: 303-663-1201

**Architect:**  
DLH Architecture, LLC  
200 Front Street  
Castle Rock, CO 80104  
Contact: Nathan Albers  
PH: 303-668-5273  
Email: nalbers@dlharchitecture.com

**Mechanical Engineer:**  
Envision Mechanical Engineers, Inc.  
4177 Pyramid Court, Suite 120  
Englewood, CO 80122  
Contact: Alton Schuchman  
PH: 303-668-0223  
Email: ans@envisionengrs.com

**Electrical Engineer:**  
JSH and Associates  
10242 S. Progress Way  
Parker, CO 80134  
Contact: Scott Hass  
PH: 303-841-3240  
Email: jshandassociates@msn.com

**Site Data**

**Location:**  
4000 Justice Way  
Castle Rock, Colorado

**County:**  
Douglas County

**Fire District:**  
Castle Rock Fire Department

**Contractor Storage**

Contractor Shall Coordinate With Douglas County Government Staff For A Storage Lot Location On The North Side Of The Building Provide Temporary Fencing For This Storage Lot If Required.

**Fire Sprinkler Notes:**

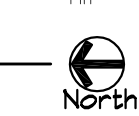
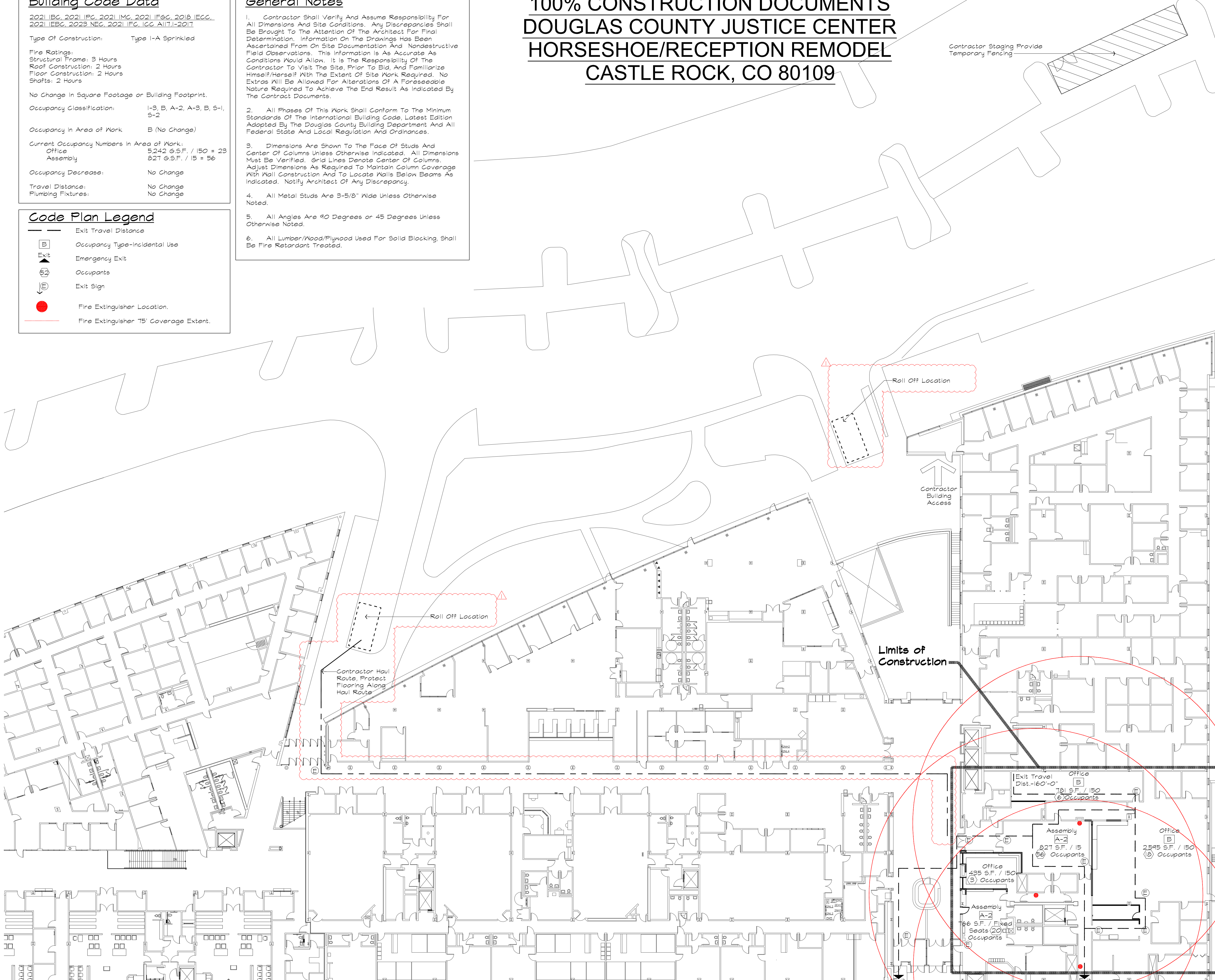
Existing Sprinkler System Is In Place  
Adjust The Heads Of The Existing Fire Sprinkler System To Maintain Coverage.

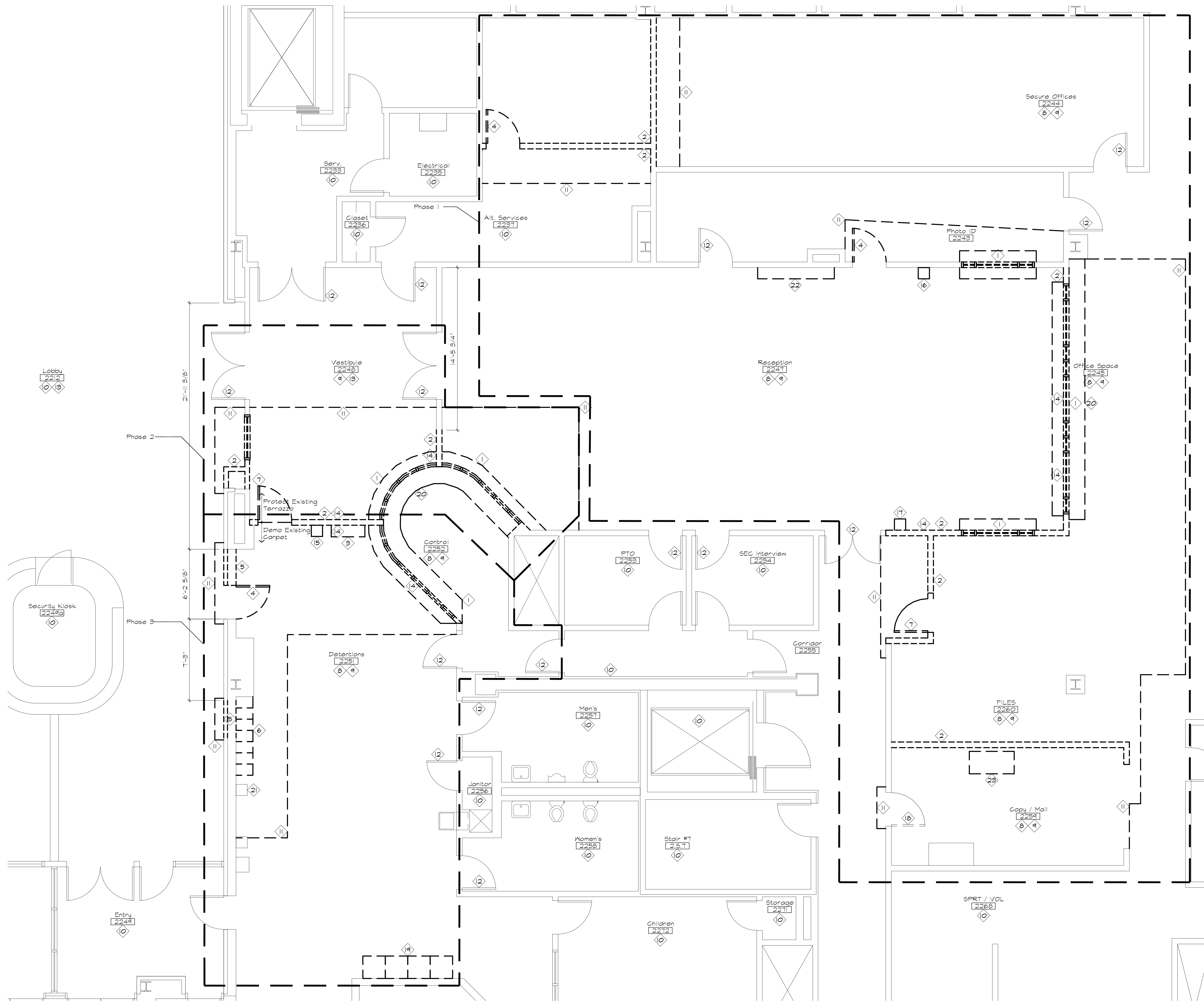
**DLH Architecture**  
Planning, Architecture, Consulting and Construction Phone (303) 668-5273  
200 Front Street, Castle Rock, CO 80104  
DLH Architecture is a Limited Liability Corporation Established in 1992

**Douglas County Government  
Justice Center - Horseshoe/Reception Remodel**  
4000 Justice Way, Castle Rock, CO.  
Castle Rock, Colorado 80109

Project #: 1910  
Date: 8/1/24  
Drawn By: RGB  
Checked By: DLH  
Scale: as noted  
Revisions:

Sheet:  
**TITLE**

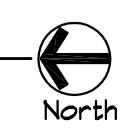


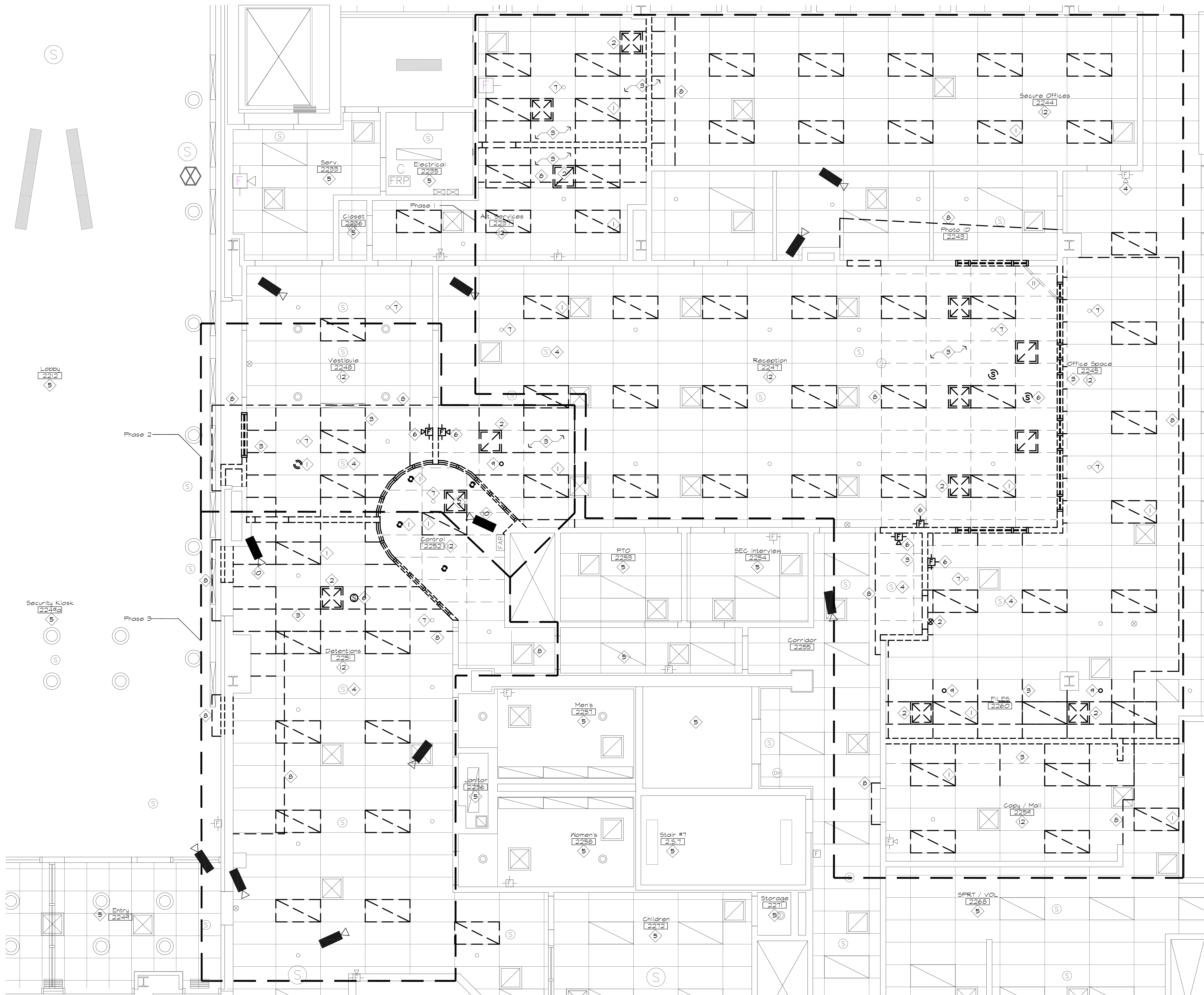


- ### Demo Floor Plan Key Notes
- To Be Demolished.
  - 1 Demo Existing Cabinet, Windows Above Cabinet, & Partition Wall.
  - 2 Demo Existing Partition Wall.
  - 3 Remove Existing Shelving Protect For Reinstallation.
  - 4 Demo Existing Door Protect Frame for Reuse
  - 5 Demo Existing Masonry Wall. Sawcut Masonry at Mortar Joints.
  - 6 Remove Existing Lockers Protect for Reinstallation.
  - 7 Remove Existing Door/Frame & Protect for Reinstallation.
  - 8 Demo Existing Flooring. Prepare Slab For New Flooring.
  - 9 Patch Existing Walls at All Walls in Room Where Damaged. Match Existing Texture at Patches. Patch Prep Should Include Removing Tape & Staples. Patch or Fill All Holes, Tears, & Cracks in Walls.
  - 10 No Work This Area.
  - 11 Provide Protection Partitions and Dust Containment During Construction.
  - 12 Protect Existing Door To Remain.
  - 13 Protect Terrazzo to Remain.
  - 14 Remove Existing Signage Protect For Reinstallation.
  - 15 Remove Existing Ball Bands Machine Protect For Reinstallation.
  - 16 Remove Existing Check In Machine Protect For Reinstallation.
  - 17 Remove Pay Phone Protect for Reinstallation.
  - 18 Remove Existing Door. Frame to Remain.
  - 19 Remove Existing Chairs, Chair Rail, Outlet Strip, and Signage for Locker Move. Coordinate With Owner or New Signage Location.
  - 20 Remove Panic Buttons Under Counter. See Electrical Drawings.
  - 21 Protect Existing Pay Phone to Remain.
  - 22 Coordinate With Owner Regarding Moving Display Cases and Wall Mounted Decorations to New Location.
  - 23 Remove Copier and Protect for Reinstallation.



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- ### Demo RCP Key Notes
- To Be Demolished.
  - 1 Remove Existing Lighting Fixture. Coordinate With County if Fixture Will Be Reused or Disposed. See All And Electrical Drawings.
  - 2 Remove Existing Mechanical Device. See Mechanical Drawings.
  - 3 Demo Existing Grid And Tile For New Construction.
  - 4 Protect Existing Low Voltage Fire Alarm or Speaker.
  - 5 No Work This Area. Protect SCS to Remain.
  - 6 Remove Existing Low Voltage Fire Alarm or Speaker. See Electrical Drawings.
  - 7 Protect Sprinkler Head to Remain.
  - 8 Provide Protection Partitions and Dust Containment During Construction.
  - 9 Relocate Sprinkler Head.
  - 10 Remove Existing Camera Return to Owner for Reinstallation.
  - 11 Remove TV Protect For Reinstallation See Electrical.
  - 12 See Electrical Plans For Remove All Lighting and Changing Lights to Dimmable LED in Office Areas and Standard LED Lights in Waiting Areas.

### Demo RCP Legend

Existing to Remain	Existing to Removed	Item
		Light Fixture
		Mechanical Diffuser
		Mechanical Return
		Fire Emergency Alarms
		Sprinkler Head
		Low Voltage
		Exit Sign

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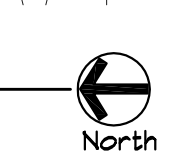
**NATHAN ALBERS**  
 401388  
 8.28.2024  
 LICENSED ARCHITECT

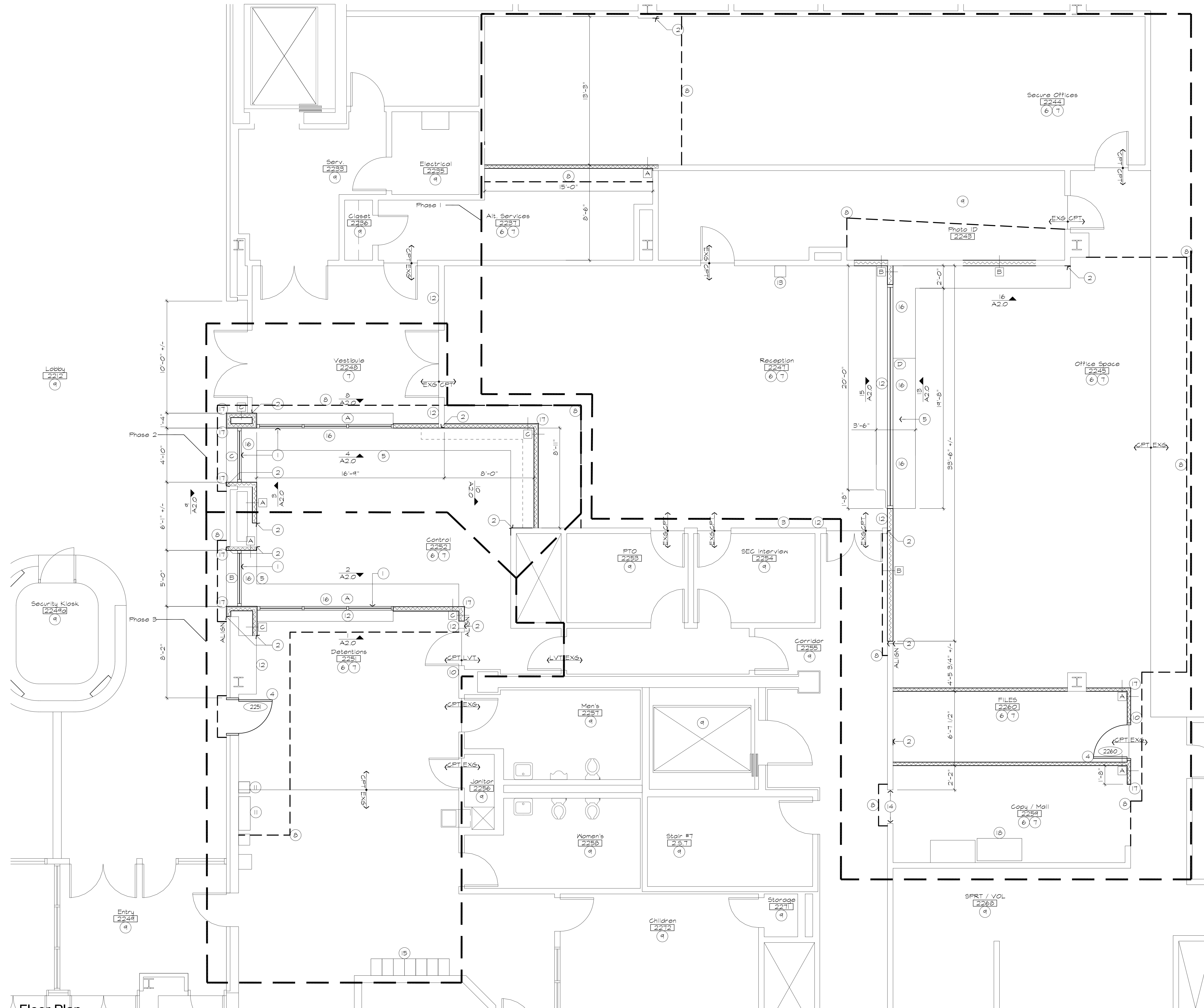
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**D1.1**

29 Demolition Reflected Ceiling Plan  
 1/4" = 1'-0"





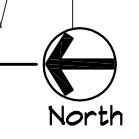
- ### Floor Plan Key Notes
- (1) Wall Continue Above Grid
  - (1) Provide New Cabinet & Countertop, With Bullet Resistant Windows Above Cabinet, & Bullet Resistant Partition Wall Below Countertop.
  - (2) Patch Existing Drywall Where Existing Wall Was Removed. Match Existing Wall Texture.
  - (3) Re-install Pay Phone in This Location Refeed Low-voltage Line.
  - (4) Reuse Existing Door & Hardware. Modify Door Frames and Doors.
  - (5) Provide New Cabinet & Countertop, With Windows Above Cabinet, & Partition Wall Below Countertop.
  - (6) Provide New Flooring and Base See Room Finish Schedule.
  - (7) Provide 3 Coats of Paint, 1 Coat of Primer & 2 Coats of Finish. Paint Entire Room Base Color See Schedule, Paint Corner to Corner & Bottom to Top. Provide Paint at Door Frames. Paint All Four Walls When Applicable.
  - (8) Provide Protection Partitions and Dust Containment During Construction.
  - (9) No Work This Area Protect During All Phases of Construction.
  - (10) New Room Signage. Match Existing Signs in Space.
  - (11) Reinstall Shelving & Ball Bonds Machine.
  - (12) Reinstall Signage Coordinate With Owner.
  - (13) Reinstall Existing Sign-in Machine.
  - (14) Fill Holes & Paint Door Frame.
  - (15) Relocate Lockers to This Location, Patch & Paint Wall.
  - (16) Provide Panic Button Under Counter at This Location See Electrical Drawings.
  - (17) Provide Corner Guard This Location.
  - (18) New Copier Location.
- Note: G.C. Shall Coordinate All Room Changes On The Buildings Overall Fire Map As Required By CRFD.

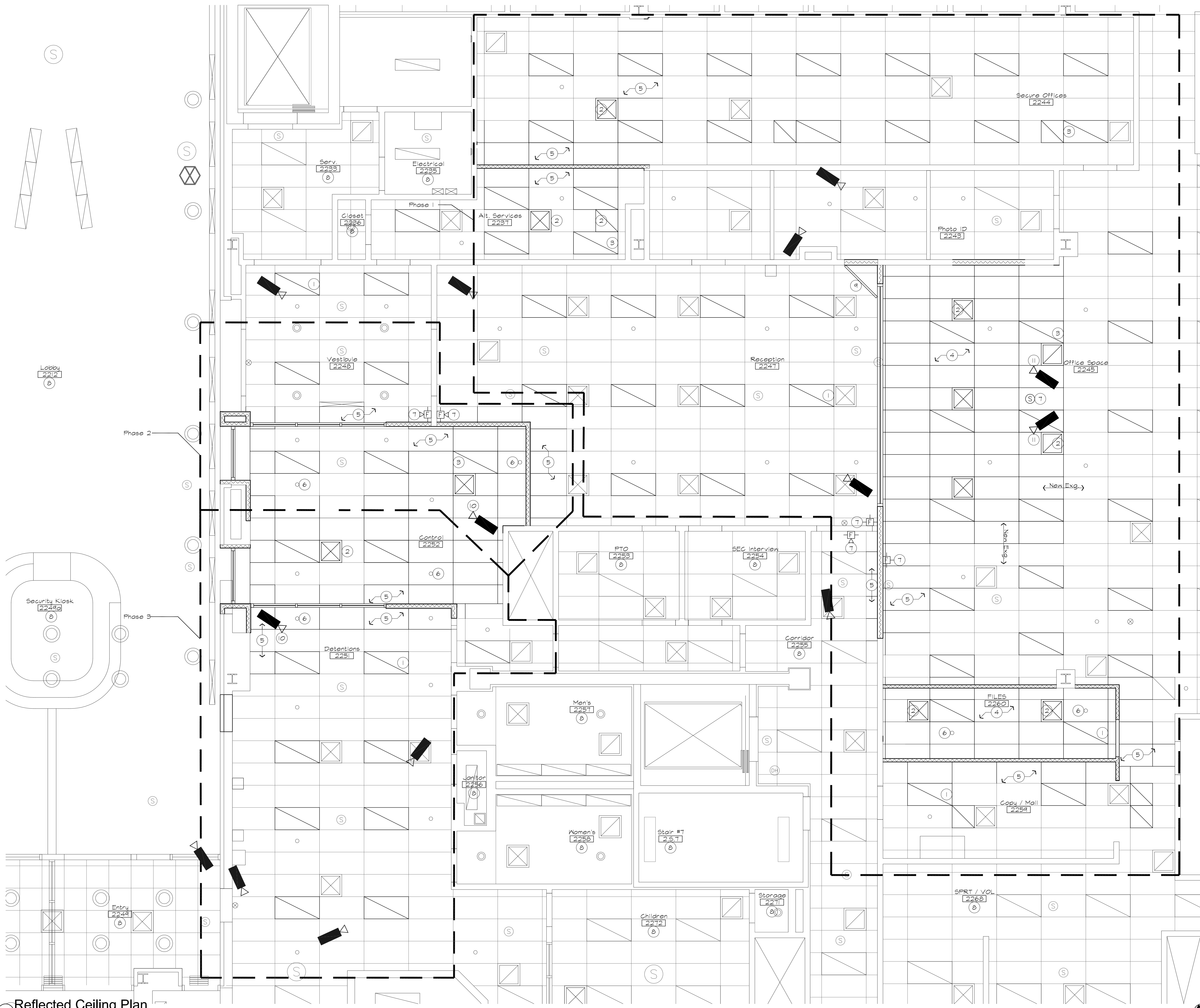


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**RCP Key Notes**

- ① New Light Fixture. Reference Electrical Drawings.
- ② Provide Mechanical Element. Reference Mechanical Drawings.
- ③ New Dimmable Light Fixture Entire Space. Reference Electrical Drawings.
- ④ Provide New Suspended Acoustical Ceiling Tile System, This Space.
- ⑤ Repair Grid & Ceiling Tile To Match Existing At All New Wall Construction.
- ⑥ Provide Fire Sprinkler Heads By Fire Sprinkler Contractor.
- ⑦ Provide Low Voltage Fire Alarm or Speaker. See Electrical Drawings.
- ⑧ No Mark This Area Protect During All Phases of Construction.
- ⑨ Reinstall Existing TV.
- ⑩ Camera Reinstalled By Owner.
- ⑪ New Camera By Owner.

**RCP Legend**

- New Wall Construction
- Light Fixtures, See Electrical Drawings.
- Mechanical Diffuser See Mechanical Drawings.
- Mechanical Return See Mechanical Drawings.
- Existing Fire Emergency Alarms.
- New or Moved Fire Emergency Alarm See Electrical Drawings.
- New Sprinkler Head
- New Low Voltage Equipment, See Electrical Drawings.

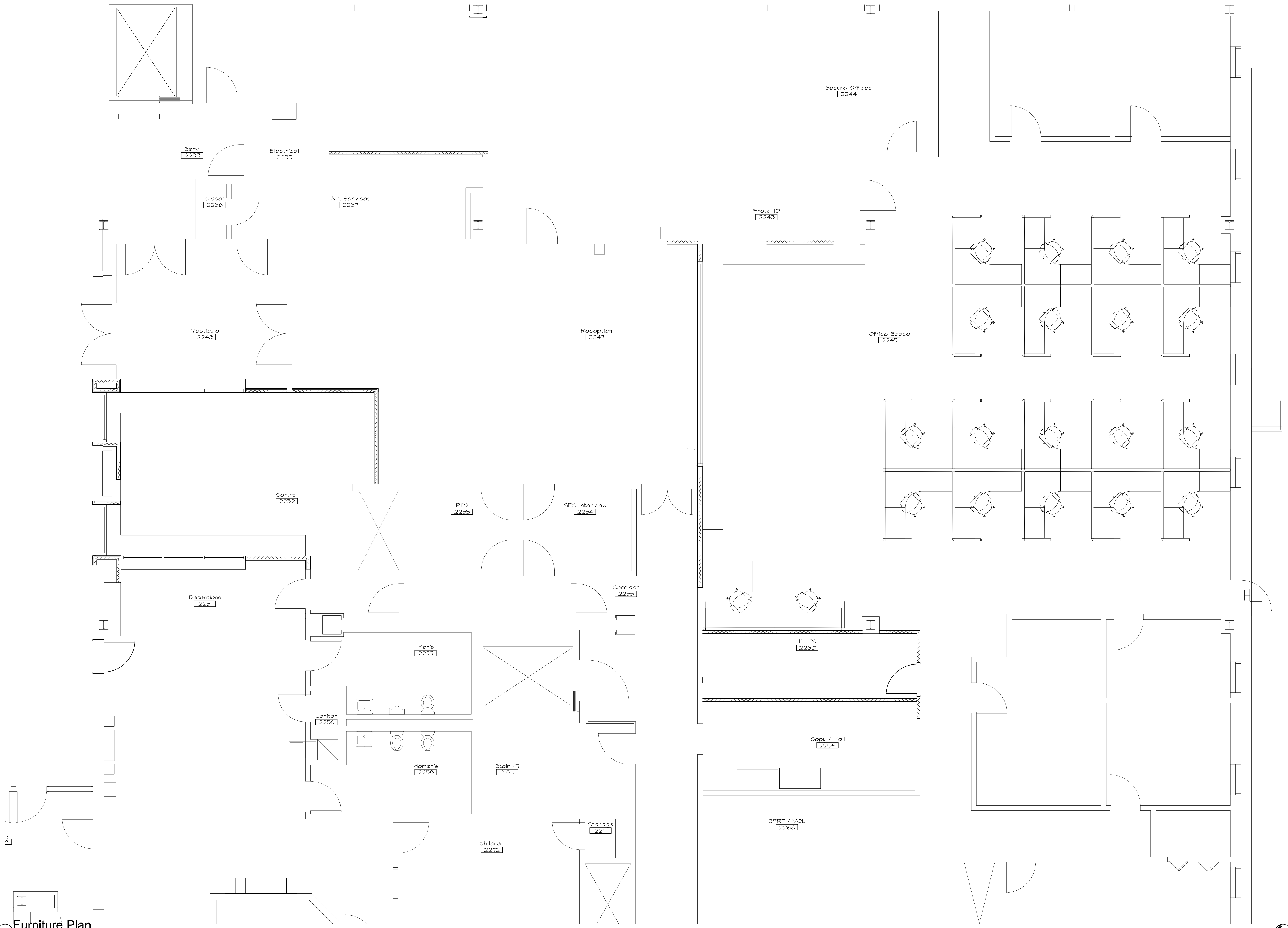
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 NATHAN ALBERS  
 481588  
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 LICENSED ARCHITECT

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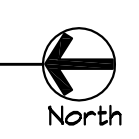
29 Furniture Plan  
1/4" = 1' - 0"

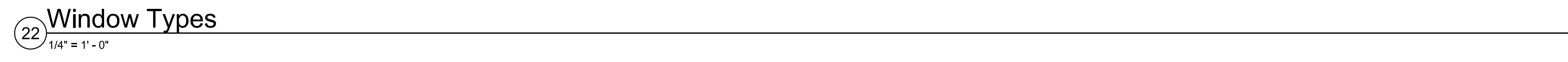
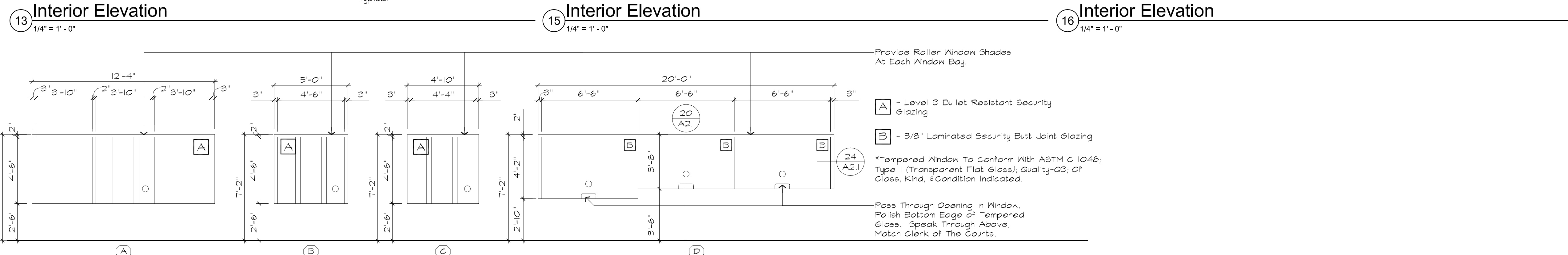
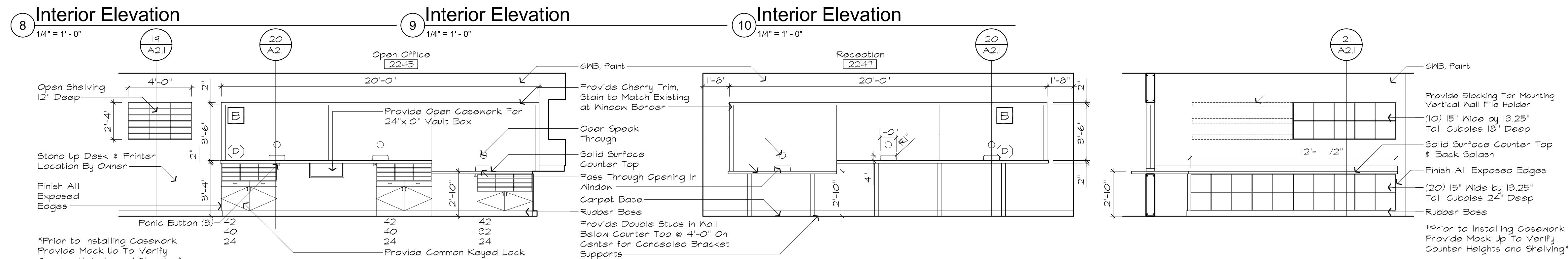
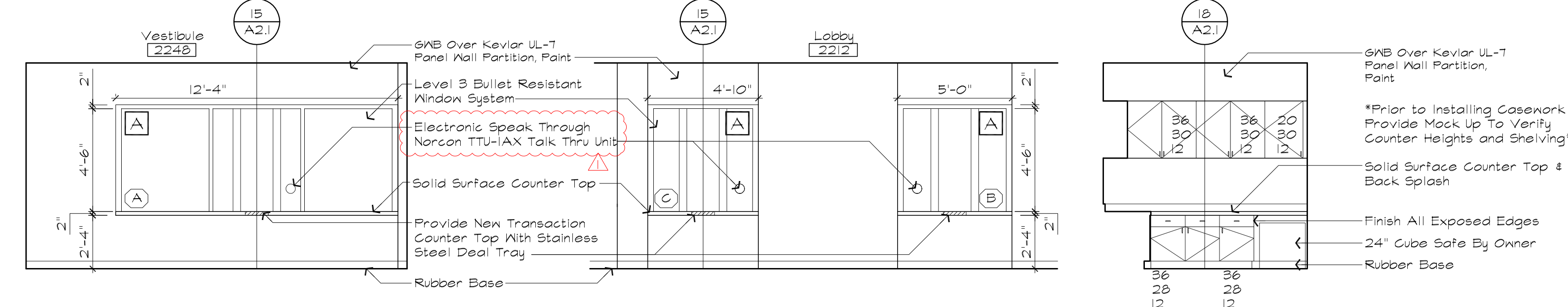
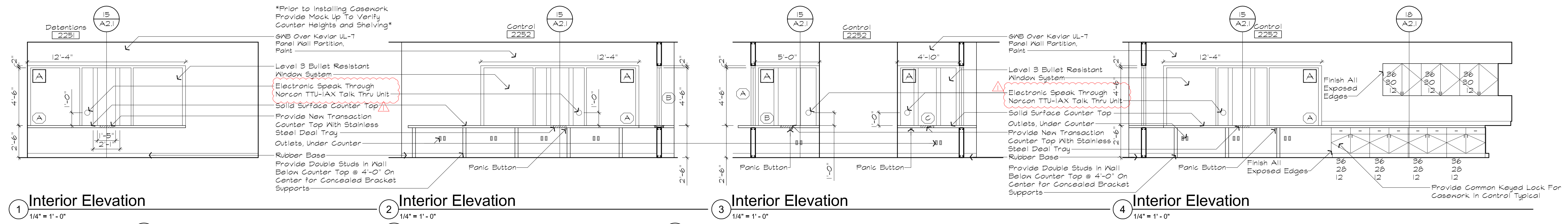


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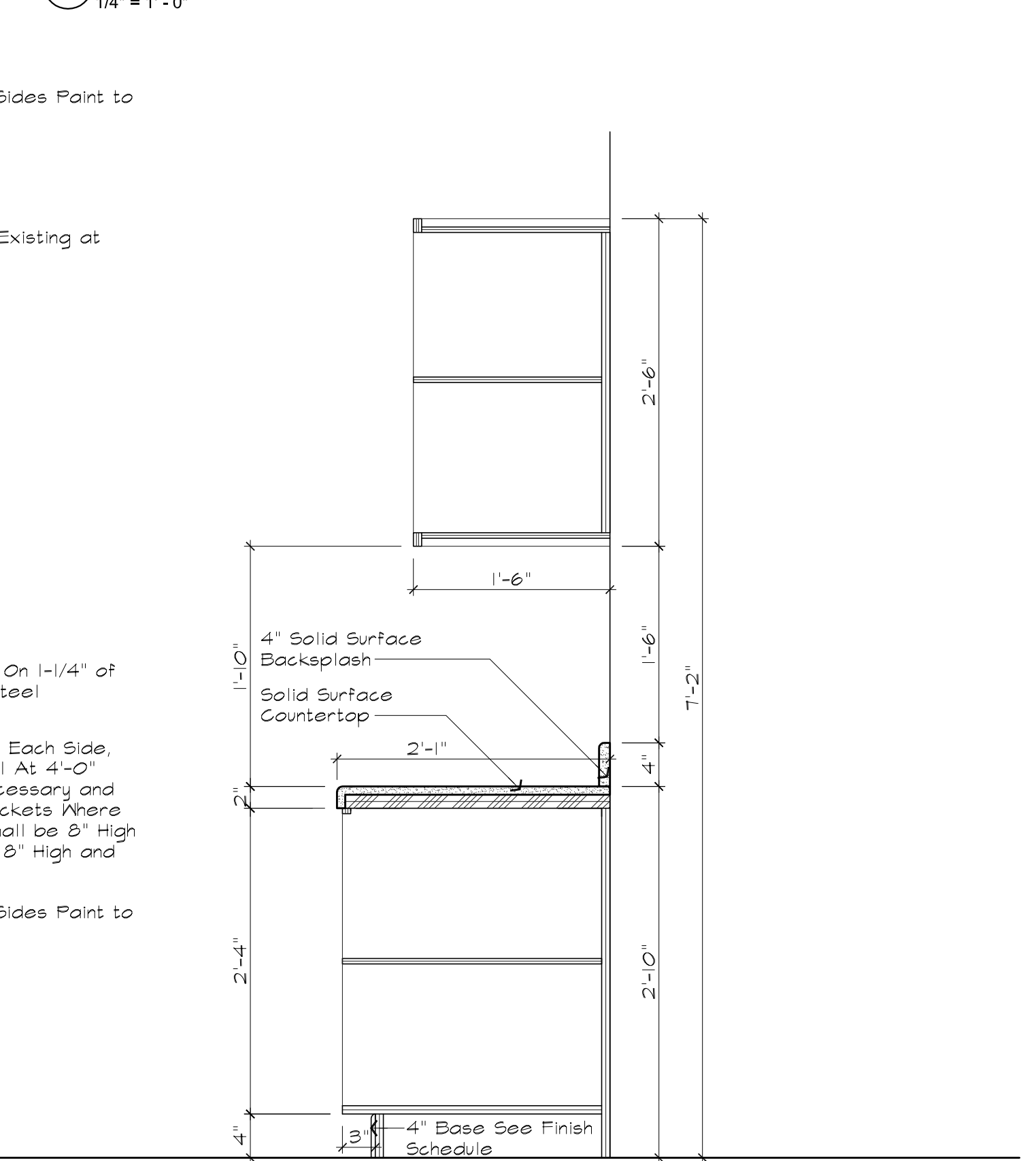
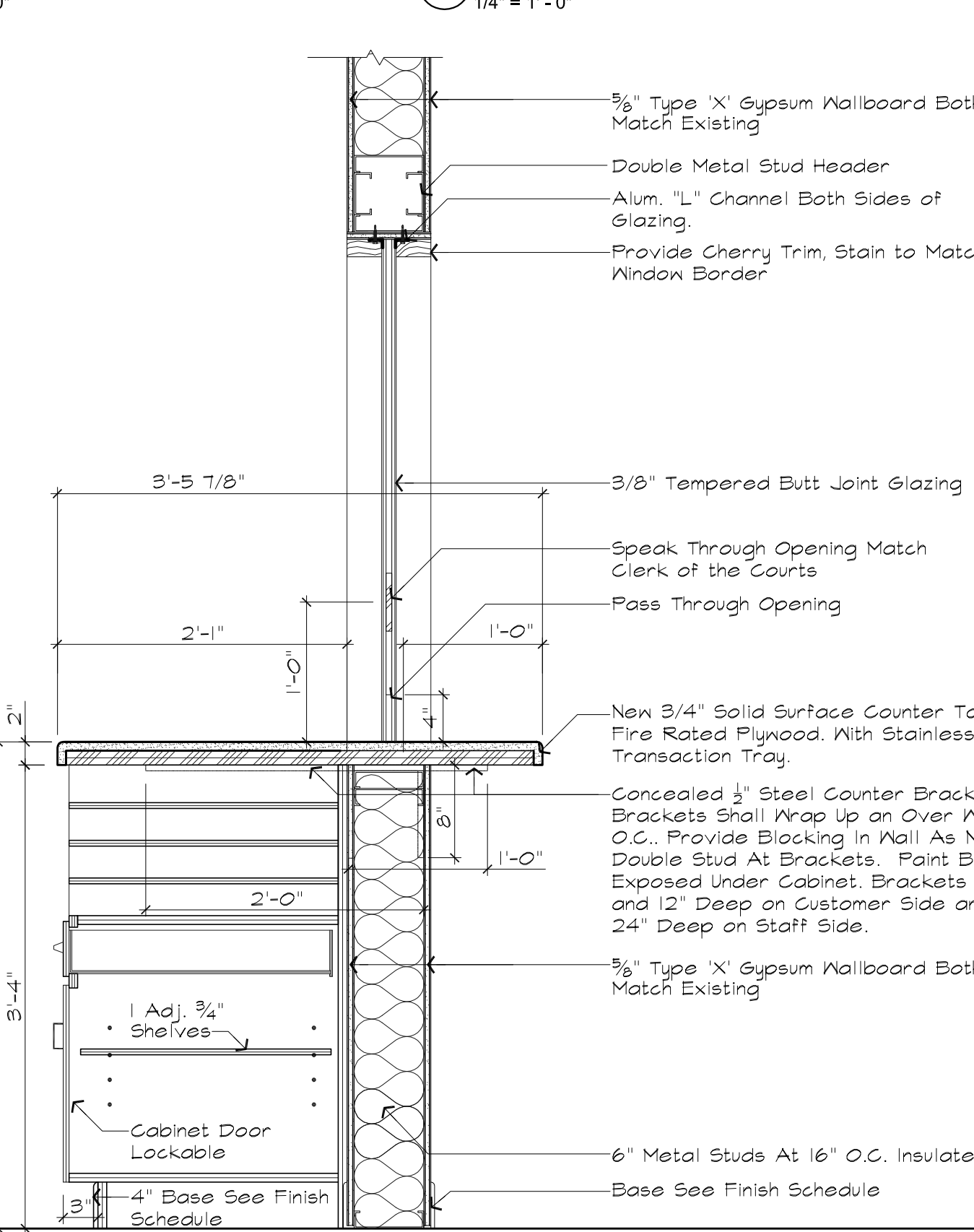
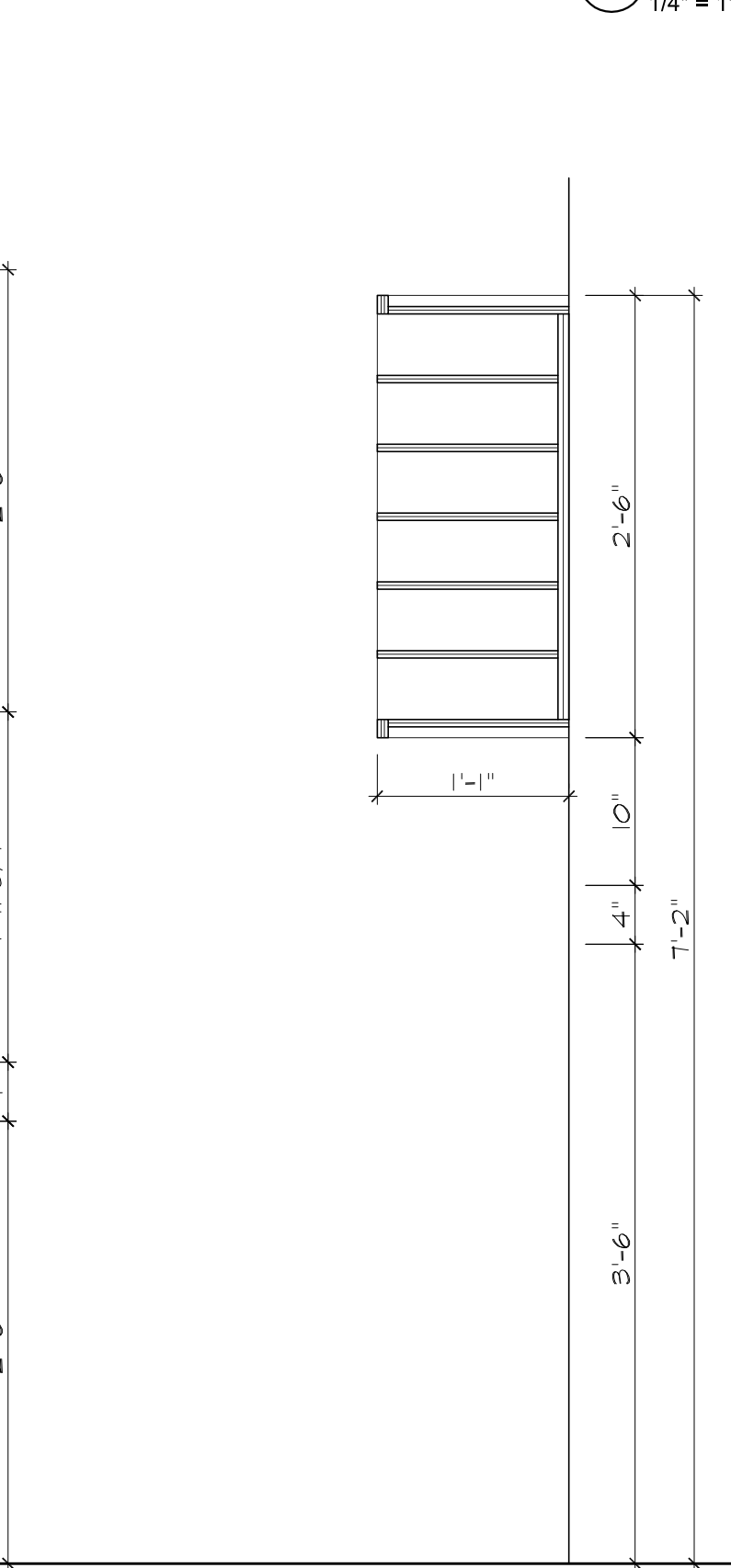
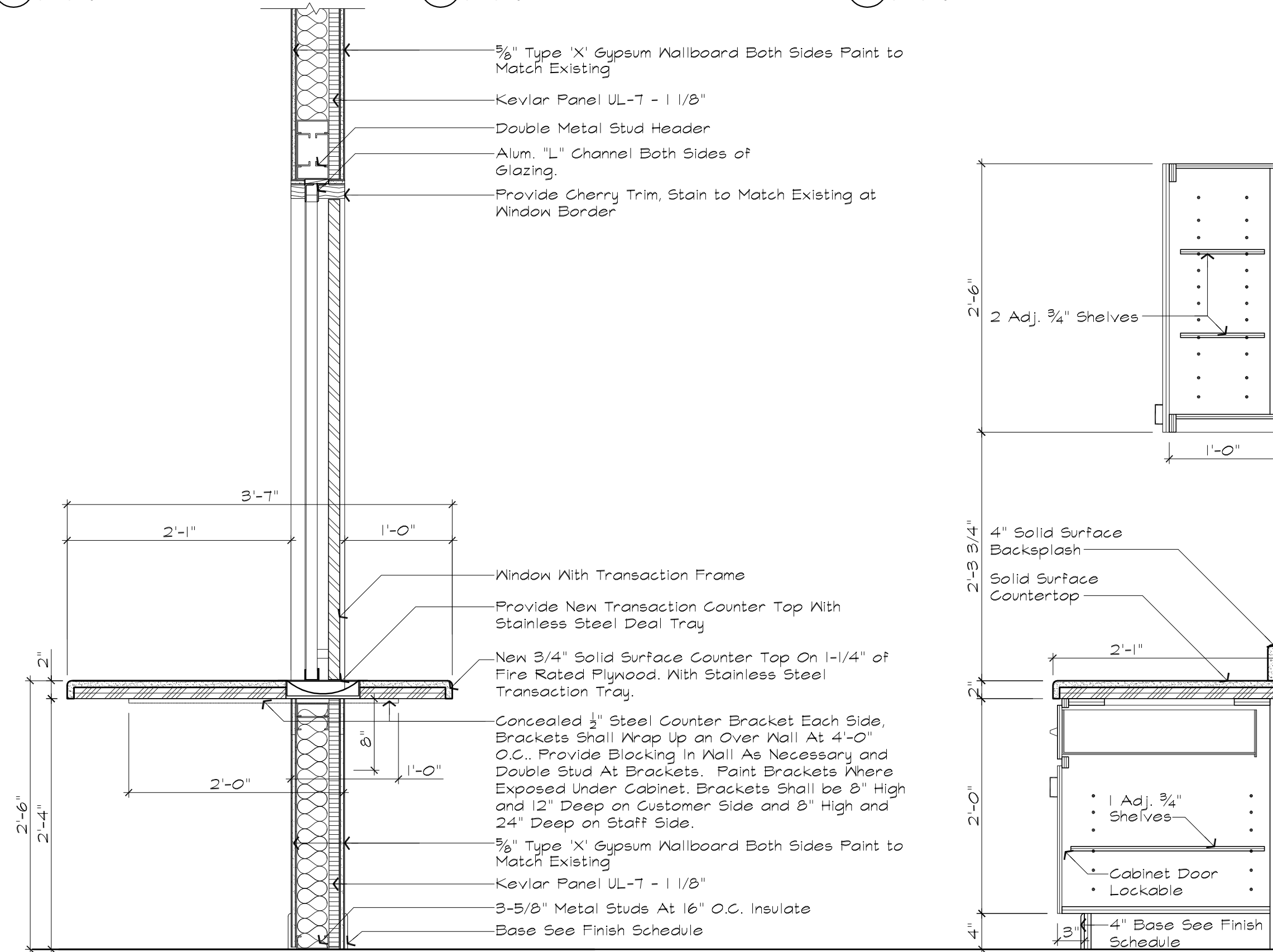
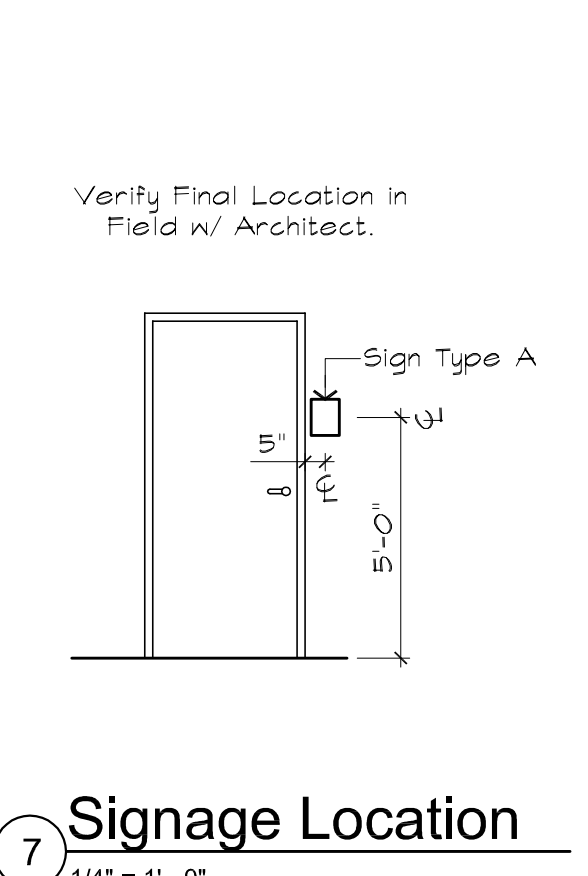
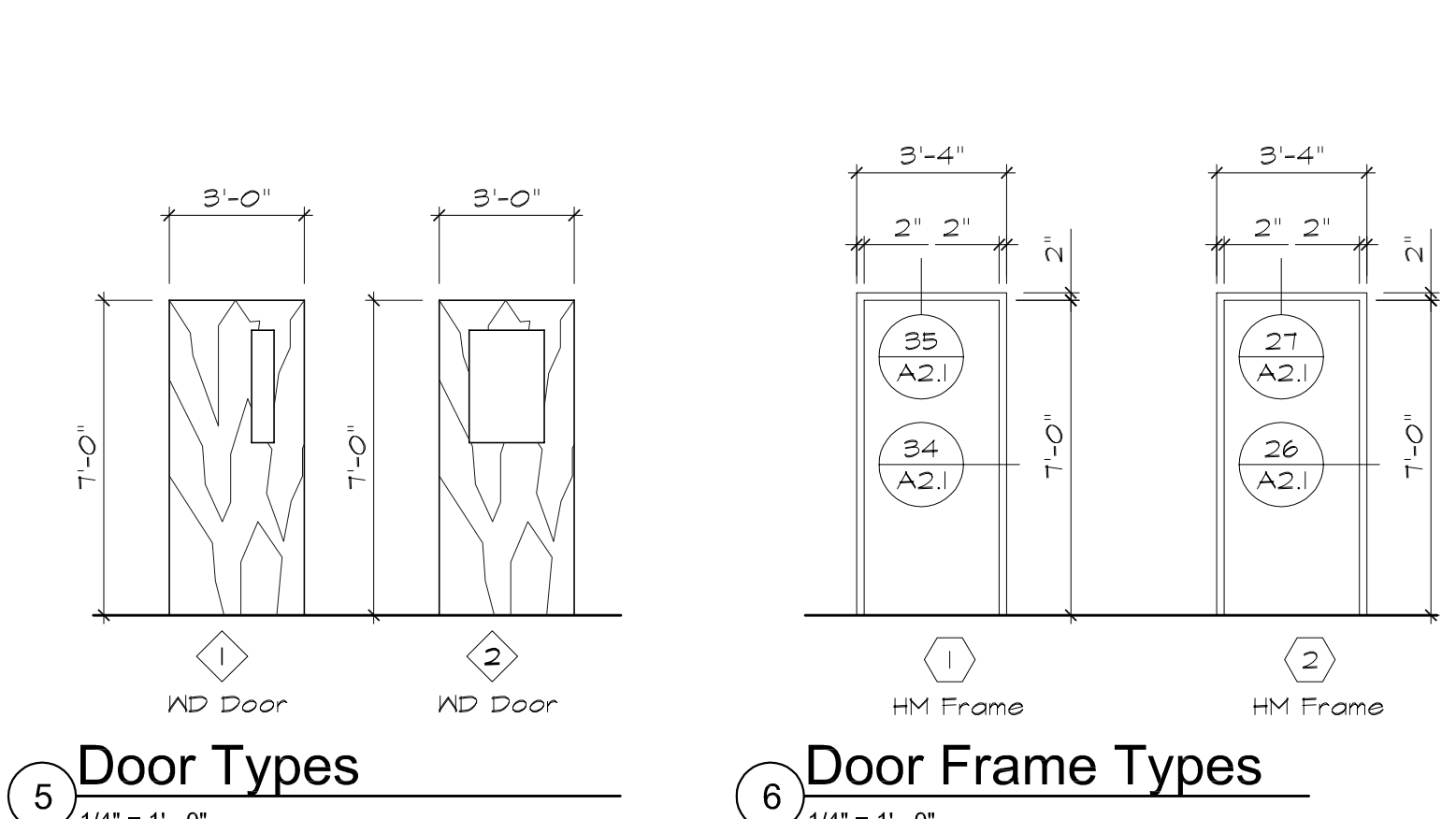
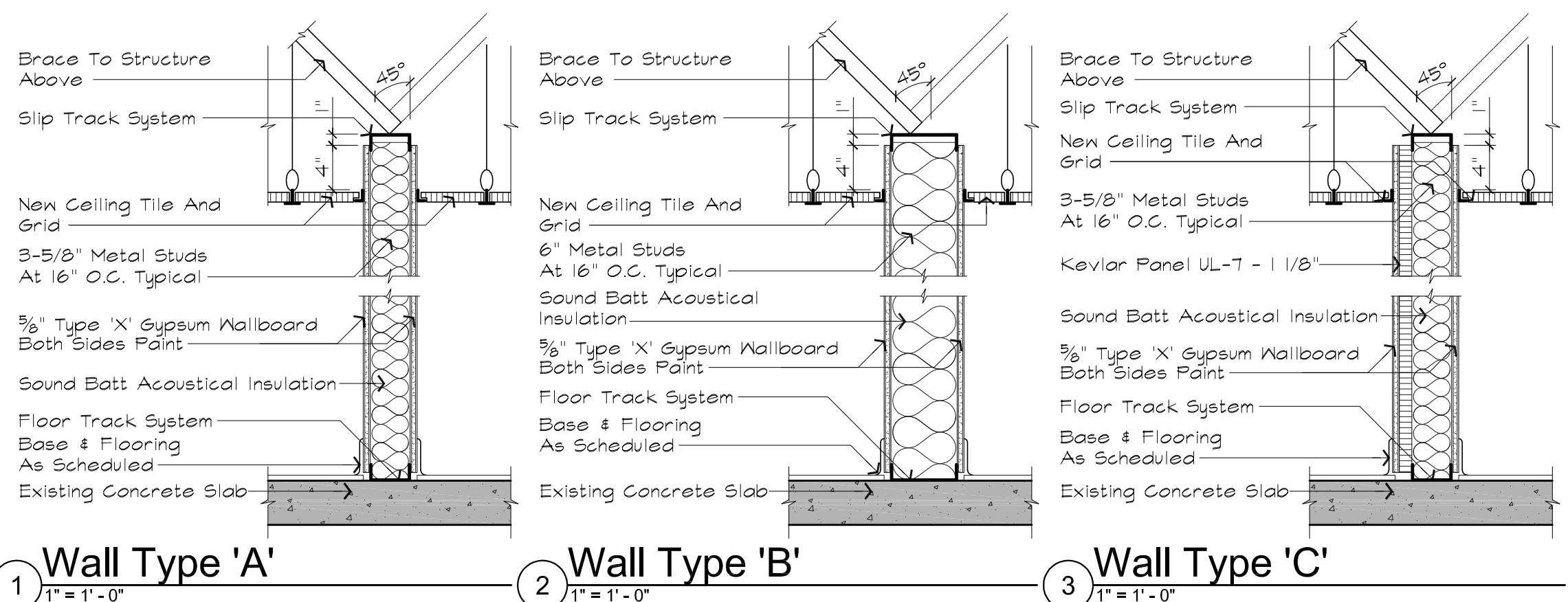




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**Door Schedule**

Door No.	Door Location	Door Size	Door			Frame			HDWR Group	Details			Notes	
			Type	Mat'l	Finish	Type	Mat'l	Finish		Rating	Type	Head		Jamb
225i	Detentions	3'-0" x 7'-0" x 1 3/4"	REUSE (2)	ND	FAC	REUSE (2)	HM	PT	NR	I	27/A2.1	26/A2.1	33/A2.1	1,2
226o	Files	3'-0" x 7'-0" x 1 3/4"	REUSE (1)	ND	FAC	REUSE (1)	HM	PT	NR	I	35/A2.1	34/A2.1	33/A2.1	1,2

**Legend**

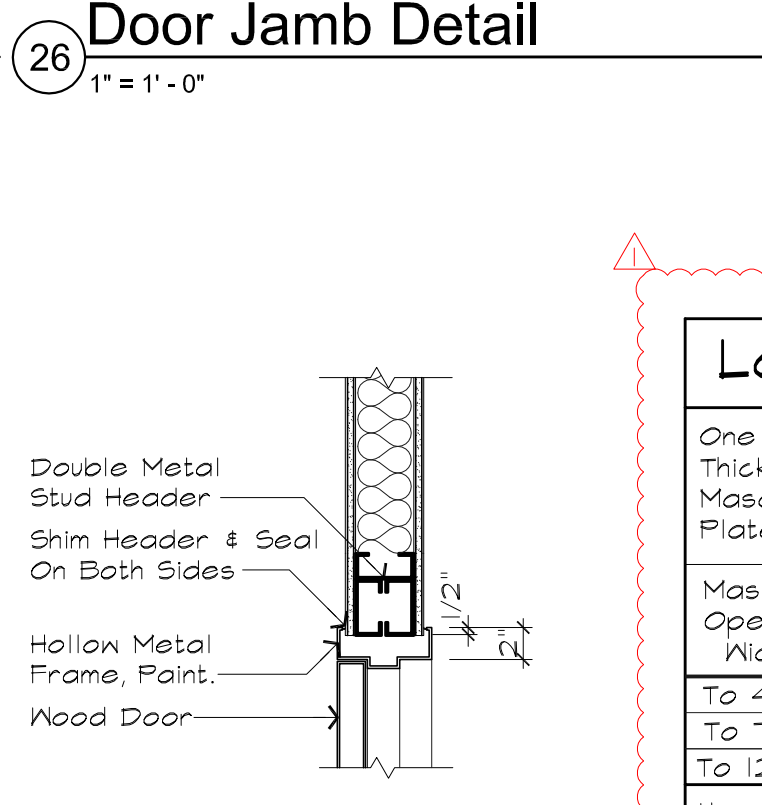
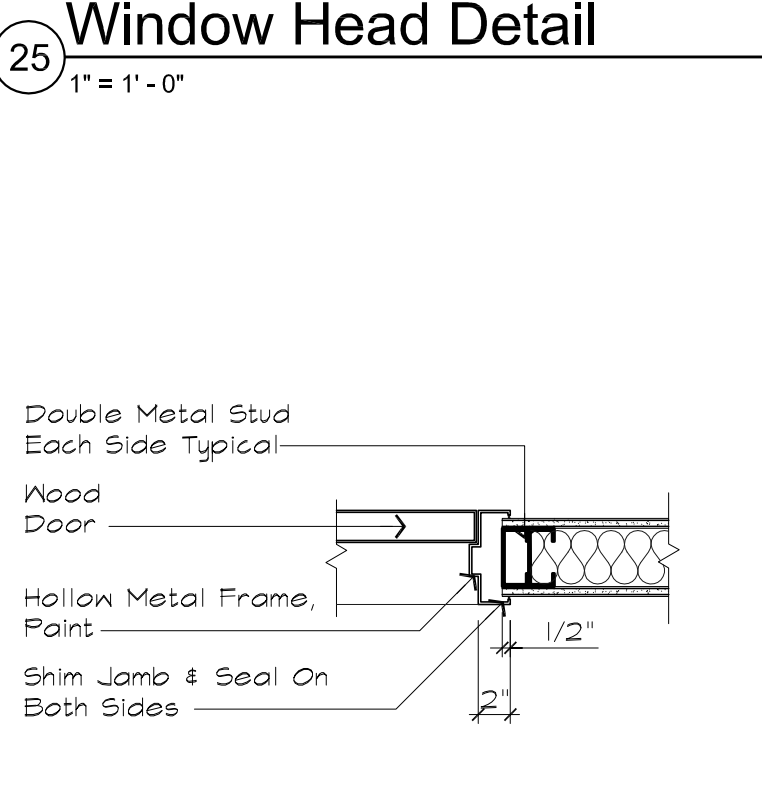
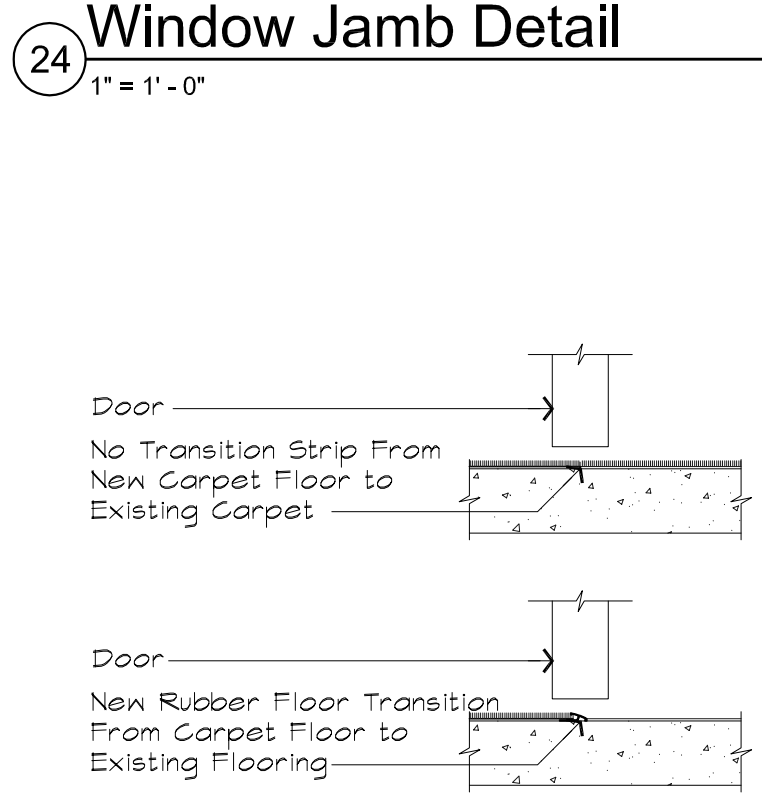
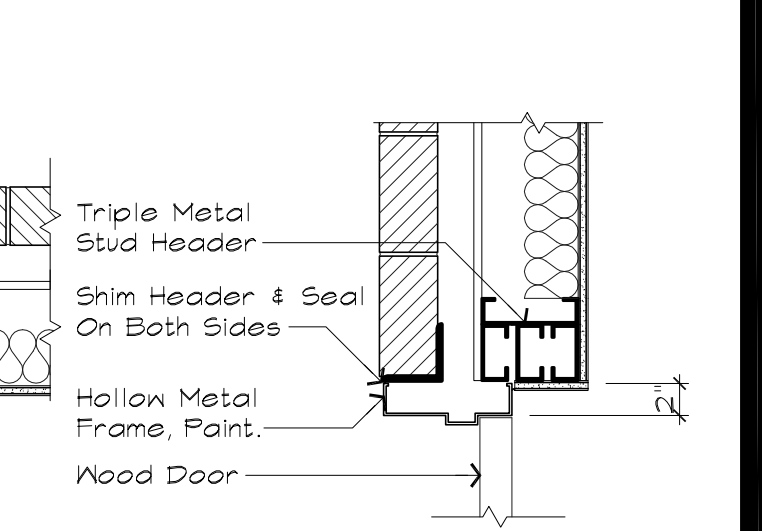
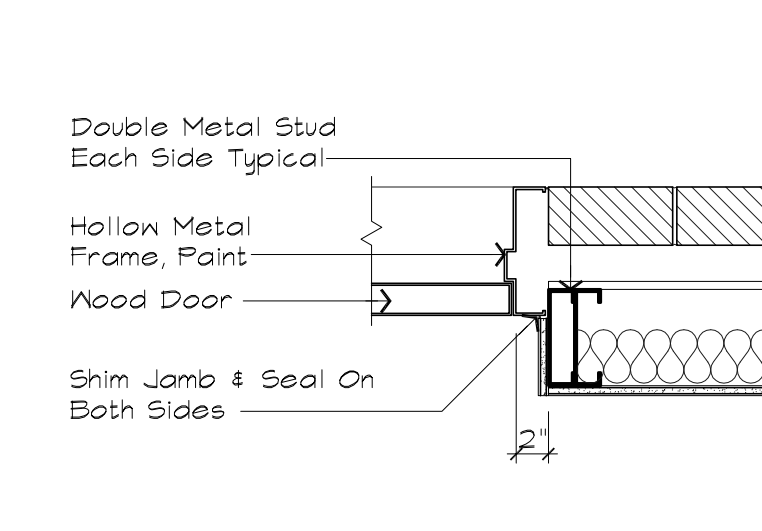
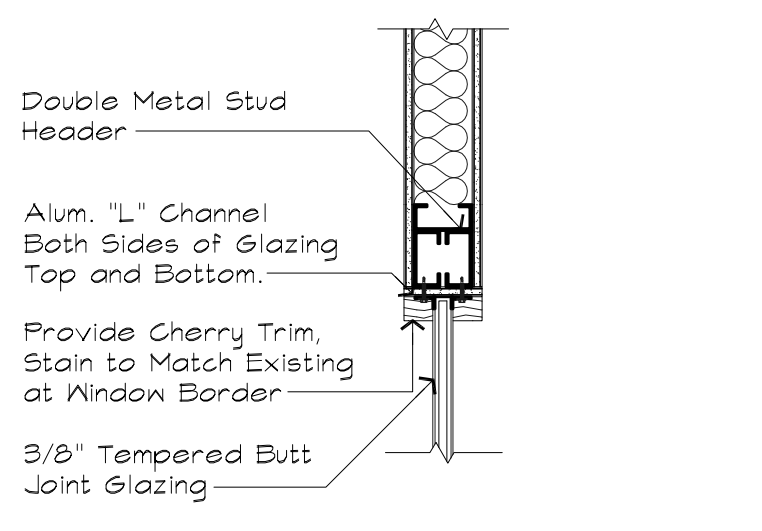
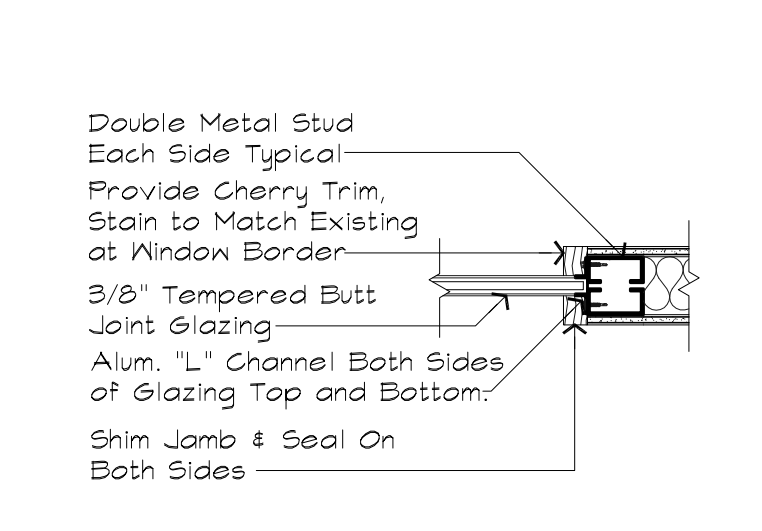
HM: Hollow Metal  
PT: Paint  
FAC: Factory Finish  
ND: Wood  
NR: Not Rated

**Room Finish Schedule**

Room No.	Room Name	Walls												Notes			
		Floor	Base	North	East	South	West	Ceiling	Height								
		Material	Finish	Material	Finish	Material	Finish	Material	Finish	Material	Finish	Material	Finish	Material	Finish	Material	Finish
2212	Lobby	-	-	RB	FAC	-	-	EXG/GNB	PT	-	-	-	-	-	-	-	-
2243	Photo ID	-	-	-	-	-	-	EXG/GNB	PT	-	-	-	-	-	-	-	-
2244	Secure Offices	CPT	FAC	RB	FAC	EXG	PT	EXG	PT	EXG/GNB	PT	EXG	PT	SCS	FAC	Match	Exg
2245	Office Space	CPT	FAC	RB	FAC	EXG/GNB	PT	-	-	GNB	PT	GNB	PT	SCS	FAC	Match	Exg
2247	Reception	CPT	FAC	CB	FAC	EXG/GNB	PT	GNB	PT	EXG/GNB	PT	EXG/GNB	PT	SCS	FAC	Match	Exg
2248	Vestibule	-	-	RB	FAC	EXG	PT	EXG	PT	GNB	PT	EXG	PT	SCS	FAC	Match	Exg
2251	Detentions	CPT	FAC	RB	FAC	GNB	PT	EXG	PT	EXG	PT	EXG	PT	SCS	FAC	Match	Exg
2252	Control	LVT	FAC	RB	FAC	GNB	PT	EXG/GNB	PT	GNB	PT	EXG/GNB	PT	SCS	FAC	Match	Exg
2255	Corridor	-	-	-	-	-	-	EXG/GNB	PT	-	-	-	-	-	-	-	-
2259	Copy/Mail	CPT	FAC	RB	FAC	GNB	PT	EXG/GNB	PT	EXG	PT	EXG	PT	SCS	FAC	Match	Exg
226o	Files	CPT	FAC	RB	FAC	GNB	PT	GNB	PT	GNB	PT	GNB	PT	SCS	FAC	Match	Exg

**Legend**

CPTT: Carpet Tile  
GNB: Gypsum Wall Board  
ST: Stain  
SCS: Suspended Ceiling System  
FAC: Factory Finish  
RB: Rubber Base  
WB: Cherry Wood Base Match Stain  
CB: Carpet Base (Match CPTT)  
PT: Paint

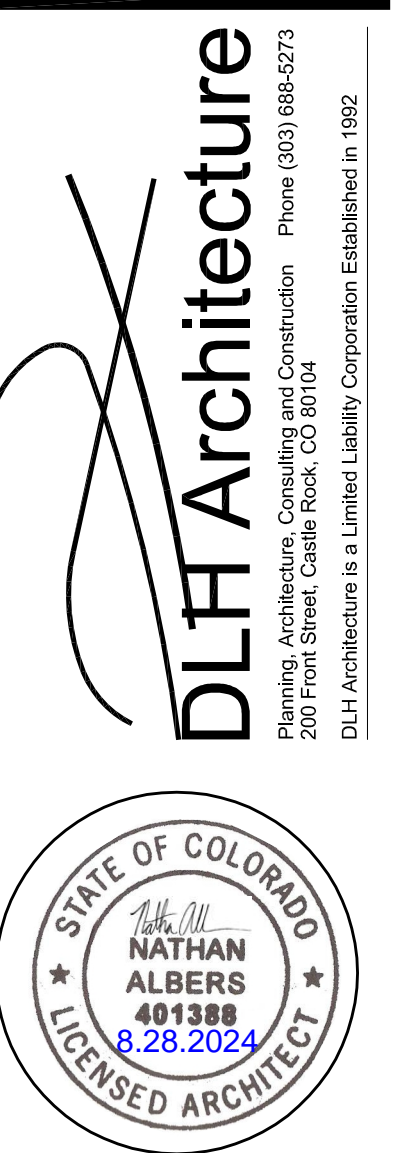


**Loose Lintel Schedule**

One Angle Required for Each 4" of Masonry Thickness. Horizontal Legs Shall be 2-1/2" at 6" Masonry Walls. Provide Cut Angles or Bent Plates.

Masonry Opening Width	Angle Size	Minimum Bearing Each End
To 4'-6"	4"x4"x1/2"	4"
To 7'-6"	6"x4"x3/8" (LLV)	6"
To 12'-0"	1"x4"x3/8" (LLV)	7"

Use Above Angle Sizes at All Masonry Opening and Niches.

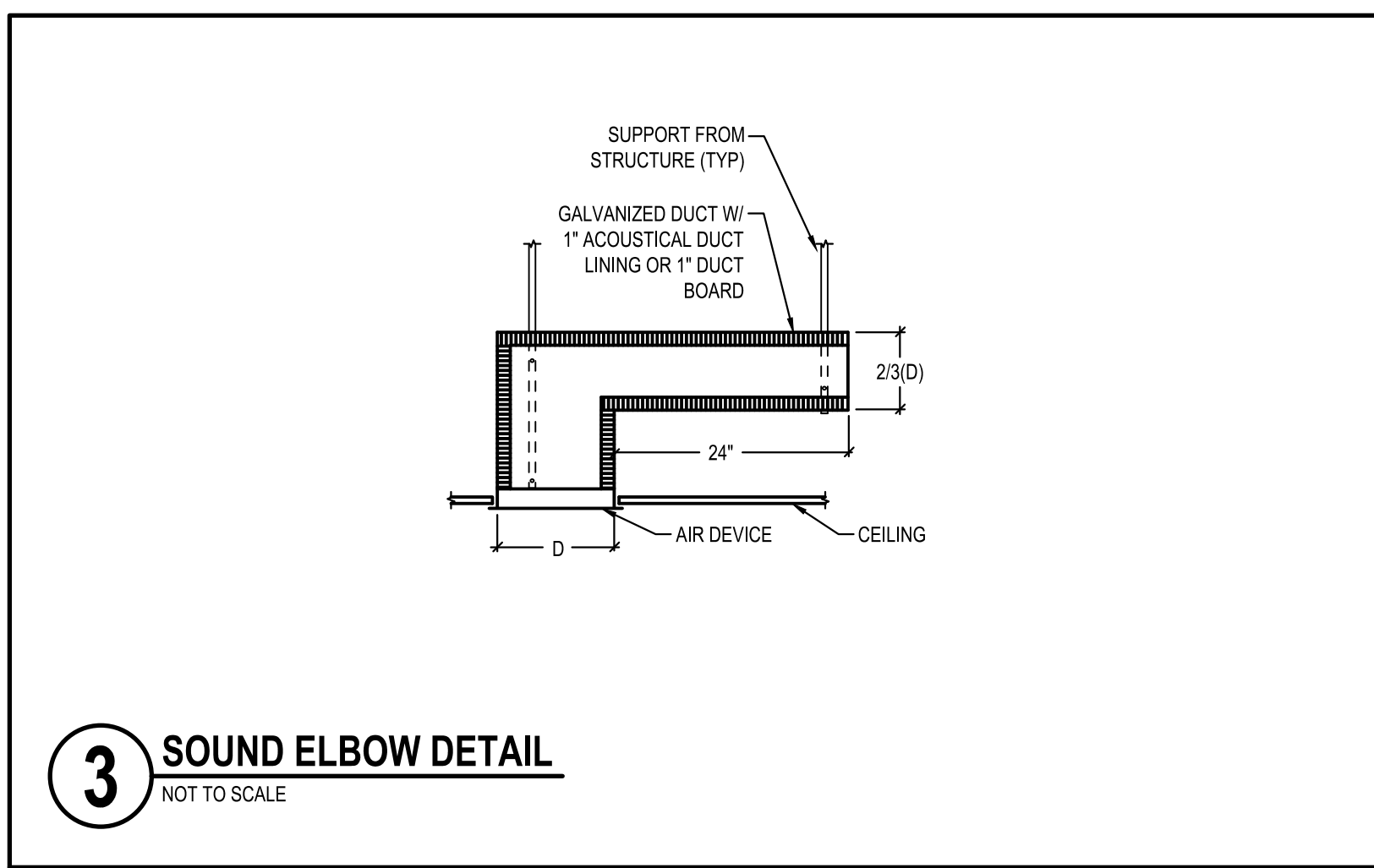
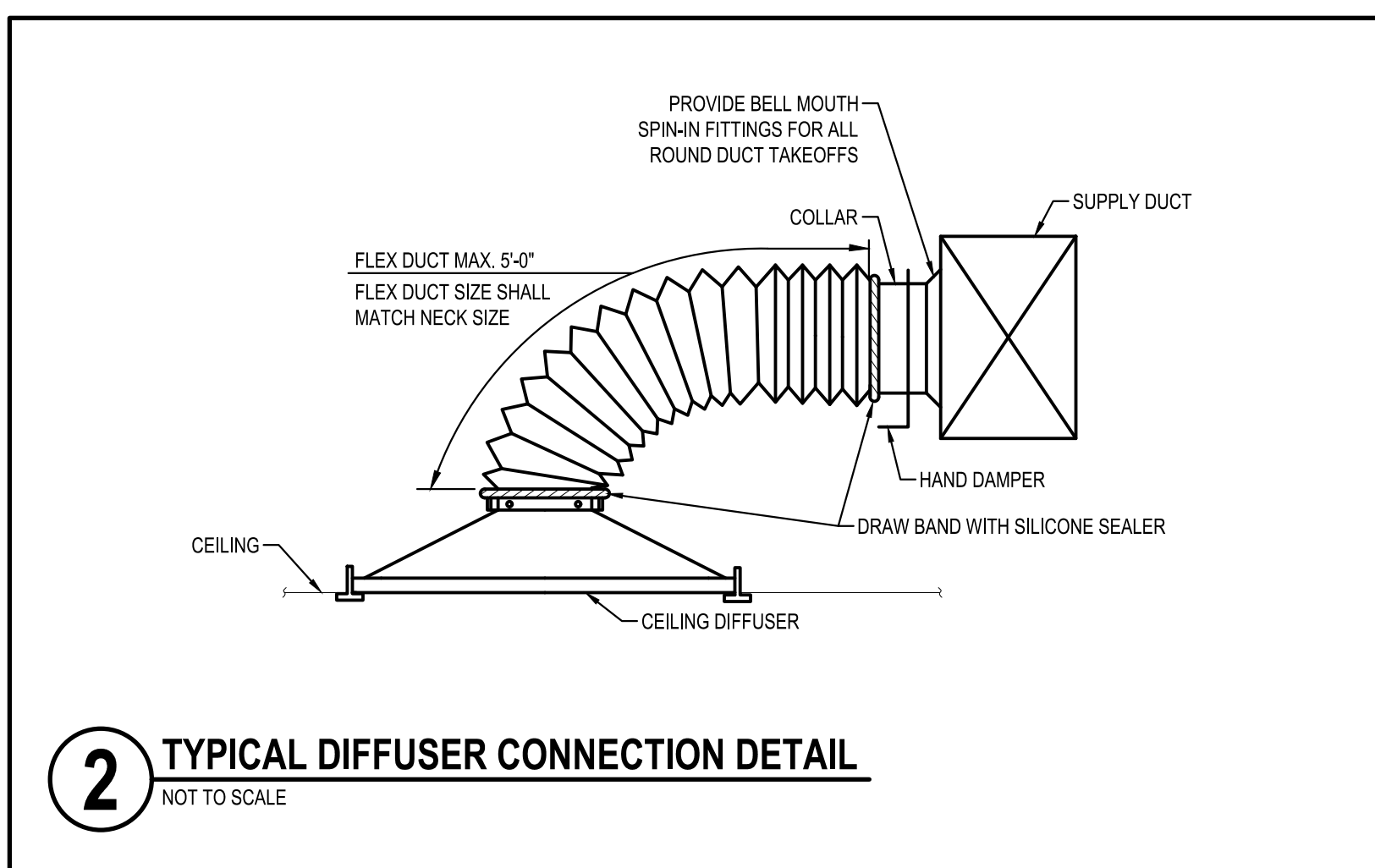
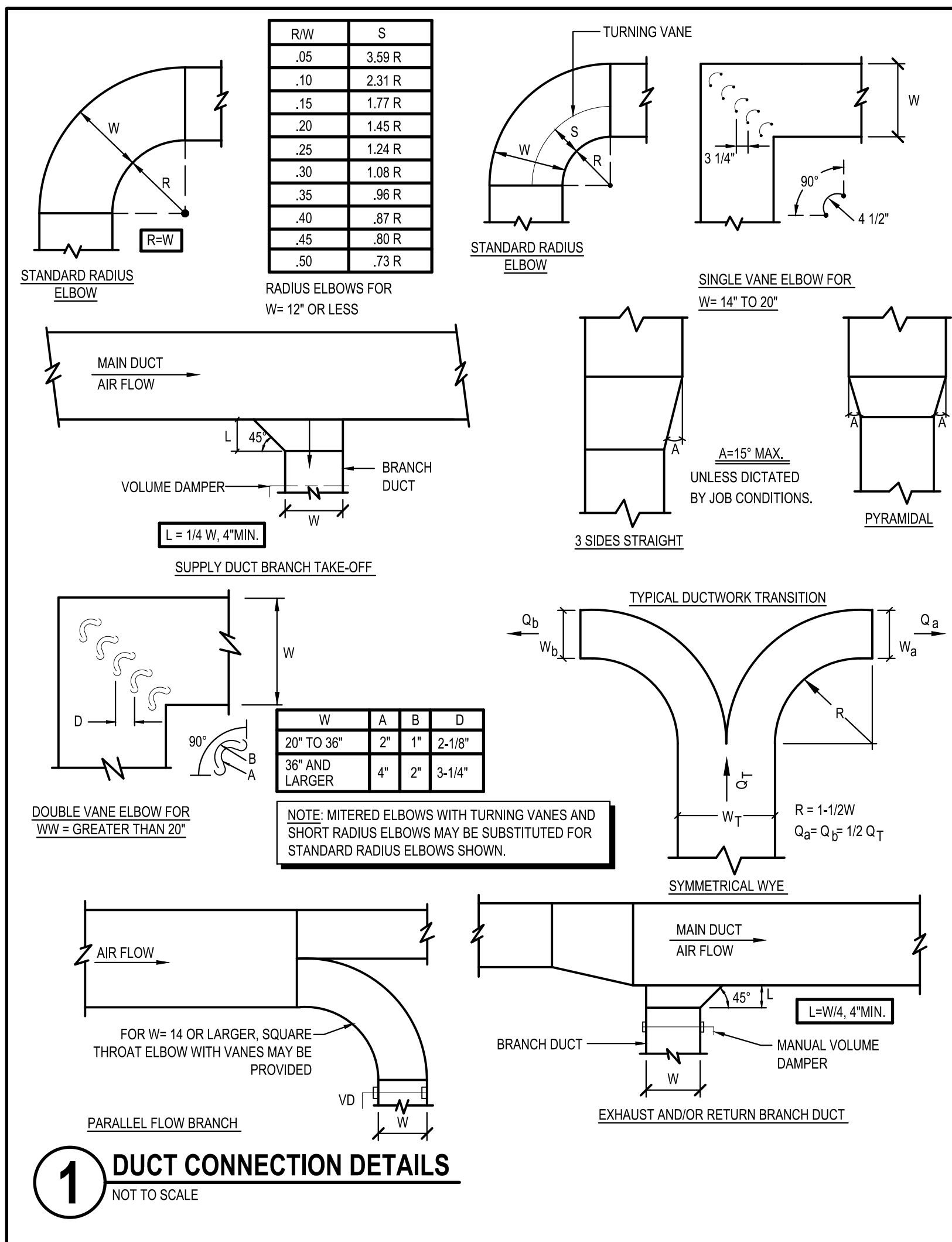


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### DUCT INSULATION SCHEDULE (CLIMATE ZONES 5 THRU 8)

SERVICE	SIZE	LOCATION	INSULATION MATERIAL	INSULATION THICKNESS	REMARKS
ROUND SUPPLY & RETURN	ALL	INDOOR CONCEALED	GLASS FIBER DUCT WRAP	R-6 MIN. INSTALLED	-

NOTES:  
 1. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.  
 2. DUCT INSULATION SHALL BE INSTALLED IN MULTIPLE LAYERS, OR OF THICKNESS SUFFICIENT TO PROVIDE LISTED R-VALUES PER 2021 IECC C403.2.9

### SYSTEM VENTILATION SCHEDULE 2021 INTERNATIONAL MECHANICAL CODE

SYSTEM	MODE	$\sum V_{R2}$ (CFM)	$P_5$ (PEOPLE)	$\sum P_2$ (PEOPLE)	$D$ (PEOPLE)	$P_5 / \sum P_2$	$V_{O2}$ (CFM)	$V_{S2}$ (CFM)	$X_6$	$E_V$	$V_{O2}$ (CFM)	REMARKS
(E)RTU	Cooling	15,317	112	118	0.95	1,381	9,466	0.146	0.577	2,392		
	Heating	4,595	112	118	0.95	1,381	4,595	0.301	0.732	1,886		

REMARKS:  
1. -

### VENTILATION SCHEDULE 2021 INTERNATIONAL MECHANICAL CODE

SYSTEM ZONE/ROOM	OCCUPANCY CATEGORY	$R_6$ (CFM/PT)	$P_5$ (PEOPLE)	$R_1$ (CFM/PT)	$A_2$ (FT <sup>2</sup> )	$V_{O2}$ (CFM)	COOLING		HEATING	
							$E_2$	$V_{O2}$ (CFM)	$E_2$	$V_{O2}$ (CFM)
2247 - Reception	Lobby	5	30	0.06	829	200	1	200	1	200
2251 - Detentions	Office	5	10	0.06	357	71	1	71	1	71
2252 - Control	Office	5	3	0.06	471	43	1	43	1	43
2253 - PTO	Office	5	0.43	0.06	86	7	1	7	1	7
2254 - SEC Interview	Office	5	0.43	0.06	85	7	1	7	1	7
2255 - Corridor	Corridor	0	0.07	0.06	75	4	1	4	1	4
2259 - Copy/Mail	Office	5	20	0.06	1,189	171	1	171	1	171

- ### FIRE SPRINKLER GENERAL NOTES
- FIELD VERIFY BUILDING CONDITIONS PRIOR TO COMMENCING DESIGN RELATED WORK.
  - COORDINATE FIRE SPRINKLER SYSTEM INSTALLATION WITH OTHER TRADES AND BUILDING COMPONENTS PRIOR TO COMMENCING FABRICATION. RELOCATE SPRINKLER SYSTEM COMPONENTS FOUND TO BE IN CONFLICT WITH OTHER BUILDING SYSTEMS.
  - INSTALL SPRINKLER SYSTEM COMPONENTS AND PIPING TO ALLOW FOR ACCESS TO CEILING CAVITY AND TO OTHER SYSTEMS EQUIPMENT MOUNTED ABOVE CEILING.
  - PROVIDE SIGNAGE, LABELING AND ADDITIONAL IDENTIFICATION AS REQUIRED BY NFPA AND LOCAL JURISDICTIONAL AUTHORITY.
  - DESIGN AND INSTALLATION OF THE FIRE SPRINKLER SYSTEM SHALL COMPLY WITH ALL APPLICABLE NFPA AND LOCAL JURISDICTIONAL REQUIREMENTS. REVISE SPRINKLER SYSTEM INSTALLATION FOR FULL COMPLIANCE AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
  - DRAIN AND TEST OUTLET CONNECTIONS SHALL BE DISCHARGED TO THE BUILDING EXTERIOR OR TO A PROPERLY SIZED RECEPTOR WITHIN THE BUILDING. DRAIN AND TEST OUTLET LOCATIONS SHALL BE IDENTIFIED ON SHOP DRAWINGS FOR REVIEW AND APPROVAL.
  - COORDINATE ALL ELECTRICAL AND FIRE ALARM CONNECTIONS WITH EC PRIOR TO INSTALLATION.
  - REFER TO PROJECT MANUAL FOR SPRINKLER TYPES AND INSTALLATION REQUIREMENTS.
  - THE FIRE SPRINKLER SYSTEM INFORMATION CONTAINED ON THESE PLANS IS PROVIDED AS A GUIDE FOR THE FIRE SPRINKLER SYSTEM INSTALLER AND IS NOT INTENDED TO SHOW ALL REQUIRED SYSTEM COMPONENTS. IT SHALL BE THE FIRE SPRINKLER SYSTEM INSTALLER'S RESPONSIBILITY TO PROVIDE A COMPLETE, APPROVED AND OPERATIONAL FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA AND THE LOCAL JURISDICTIONAL REQUIREMENTS.
  - COORDINATE INSTALLATION LOCATION OF ALL EXPOSED SPRINKLER SYSTEM PIPING WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO INSTALLATION.
  - ALL WORK SHALL COMPLY WITH THE CURRENTLY ADOPTED VERSION OF NFPA 13.

- ### 2021 CODE NOTES
- CODE NOTES  
 ABBREVIATIONS USED WITHIN INCLUDE:  
 YEAR ABBREV. CODE TYPE
- 2021 IBC INTERNATIONAL BUILDING CODE
  - 2021 IEBC INTERNATIONAL EXISTING BUILDING CODE
  - 2021 IMC INTERNATIONAL MECHANICAL CODE
  - 2021 IECC INTERNATIONAL ENERGY CONSERVATION CODE
  - 2021 CPC COLORADO PLUMBING CODE
  - 2018 IFC INTERNATIONAL FIRE CODE
  - 2021 IFGC INTERNATIONAL FUEL GAS CODE
  - 2021 CFGC COLORADO FUEL GAS CODE
  - 2023 NEC NATIONAL ELECTRICAL CODE
  - 2017 ICC INTERNATIONAL CODE COUNCIL (A117.1)
  - 2017 ANSI AMERICAN NATIONAL STANDARD INSTITUTE
  - 2021 NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- ALL WORK SHALL COMPLY WITH APPLICABLE CODES AS NOTED ABOVE.
  - AN AIR BALANCE REPORT SHALL BE PROVIDED TO THE BUILDING INSPECTOR TO ASSURE THAT PROPER AIRFLOWS AND SYSTEM BALANCE IS ACHIEVED AT TIME OF FINAL INSPECTIONS.
  - ALL MATERIALS INSTALLED WITHIN A PLENUM SHALL MEET THE FLAME/SMOKE LISTED INDEX OF 25/50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723, OR BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF SECTION 703.3 OF THE IBC.
  - MECHANICAL VENTILATION SHALL BE IN COMPLIANCE WITH IMC CHAPTER 4, SECTION 403 FOR MECHANICAL VENTILATION.
  - ALL DUCTWORK SHALL BE CONSTRUCTED, INSTALLED, AND SEALED PER IMC SECTION 603.
  - DUCT AND TRANSFER OPENINGS SHALL BE INSTALLED IN ACCORDANCE WITH IMC SECTION 607. FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE INSTALLED WHERE REQUIRED IN IBC SECTIONS 714.2 THROUGH 714.4.

- ### HVAC GENERAL NOTES
- ALL INFORMATION SHOWN ON THESE DRAWINGS INCLUDING LOCATION AND SIZES ARE BASED ON THE BEST INFORMATION AVAILABLE. INFORMATION SHOWN IS TO INDICATE THE INTENT OF THE MECHANICAL SYSTEM WORK BUT MAY NOT REFLECT THE EXACT ROUTING AND LOCATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING EQUIPMENT PIPING, DUCTWORK, STRUCTURE, ELECTRICAL, LIGHTING AND ARCHITECTURAL INFLUENCES PRIOR TO INSTALLATION OF THE NEW WORK TO AVOID ANY CONFLICTS WITH SYSTEMS REQUIRING MODIFICATIONS. NOTIFY ENGINEER OF ANY CONFLICTS, PRIOR TO PERFORMING WORK.
  - PROVIDE NEW EQUIPMENT, DUCTWORK, AIR DEVICES, PIPING, CONTROLS, ETC. AS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS. THE INTENT OF THE DRAWINGS IS TO PROVIDE A COMPLETE WORKING MECHANICAL SYSTEM FOR THE BUILDING. INCLUDE ALL ITEMS REQUIRED TO PROVIDE COMPLETE WORKING MECHANICAL SYSTEMS.
  - ALL AIR DEVICE NECK SIZES SHALL BE SAME AS RUNOUT SIZE UNLESS NOTED OTHERWISE.
  - ALL DUCTWORK SIZES SHOWN ARE INSIDE DIMENSIONS. FOR DUCT INSULATION AND LINER REQUIREMENTS SEE SPECIFICATIONS.
  - PROVIDE BELL MOUTH SPIN-IN FITTINGS FOR ALL ROUND DUCT TAKEOFFS UNLESS ROUND RUN OUT SIZE IS WITHIN 2" OF MAIN DUCT HEIGHT THEN PROVIDE STRAIGHT SPIN-IN FITTINGS.
  - SEE DETAILS AND SPECIFICATIONS FOR MORE INSTALLATION INFORMATION AND REQUIREMENTS.
  - INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AND INSTALLATION INSTRUCTIONS. PROVIDE ACCESS DOORS AS REQUIRED TO PROVIDE SERVICE AND MAINTENANCE FOR ALL EQUIPMENT.
  - REVIEW THE DETAILS ON THIS SHEET PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS. NOT ALL DETAILS ARE CALLED OUT BY DRAWING NOTES.
  - PROVIDE TRIM RING OR TRIM FRAME WHERE ROUND OR RECTANGULAR DUCT PENETRATES A WALL AND IS EXPOSED TO VIEW, COORDINATE FINISH OF TRIM WITH ARCHITECT.
  - PROVIDE TURNING VANES AT ALL DUCT SUPPLY AND RETURN 90° ELBOWS.
  - DESIGN AND LAYOUT OF EQUIPMENT BASED ON MANUFACTURER SPECIFIED IN SCHEDULES. ANY MODIFICATIONS OR ALTERATIONS REQUIRED FOR INSTALLATION OF AN APPROVED SUBSTITUTION TO THAT SPECIFIED IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.
  - MOUNT ALL THERMOSTATS, TEMPERATURE SENSORS, CO2 SENSORS, WALL SWITCHES, AND TIMERS AT 48" A.F.F.

### GENERAL

SYMBOL	DESCRIPTION
	CONNECT NEW TO EXISTING
	REFERENCE BUBBLE * SECTION NUMBER # SHEET NUMBER
	REVISION NUMBER
	SECTION OR ELEVATION BUBBLE * SECTION OR ELEVATION LETTER # REFERENCE DRAWING NUMBER
	ISOMETRIC OR ELEVATION BUBBLE * ISOMETRIC OR ELEVATION LETTER # REFERENCE DRAWING NUMBER
	DRAWING NOTE
	DEMOLITION NOTE
	DEMOLITION NOTE, ALTERNATE DRAWING NOTE, ALTERNATE

### HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION
ABV	ABOVE
AC	AIR CONDITIONER / CONDITIONING
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ALT	ALTITUDE
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE, APPROXIMATELY
ARCH	ARCHITECT, ARCHITECTURAL
BLW	BELOW
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
ΔT °F	CHANGE IN TEMPERATURE DEGREES FAHRENHEIT
CONC	CONCRETE
CONT	CONTINUE
CONST	CONSTRUCT, CONSTRUCTION
COORD	COORDINATE
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EAC	EACH
ELEC	ELECTRICAL CONTRACTOR
(E)	ELECTRIC, ELECTRICAL
EXIST	EXISTING
ESP	EXTERNAL STATIC PRESSURE
°F	DEGREES FAHRENHEIT
FT	FEET
FLR	FLOOR
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HZ	HERTZ
HORIZ	HORIZONTAL
HP	HORSEPOWER
IN	INCHES
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1,000 BTUH
MFG	MANUFACTURER
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MTD	MOUNTED
(N)	NEW
NC	NORMALLY CLOSED, NOISE CRITERIA
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
PSIG	POUNDS PER SQUARE INCH GAUGE
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
(R)	RELOCATED
RA	RETURN AIR
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RPM	REVOLUTIONS PER MINUTE
∅	ROUND, PHASE
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATING
SL	SEA LEVEL
SS	STAINLESS STEEL
TCC	TEMPERATURE CONTROL CONTRACTOR
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
V	VOLTS
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
WT	WEIGHT

### FIRE PROTECTION LEGEND

ALL SYMBOLS MAY NOT BE USED

SYMBOL	DESCRIPTION
	FIRE PROTECTION WATER SUPPLY
	FIRE DEPARTMENT CONNECTION
	SPRINKLER SYSTEM PIPING
	STAND PIPE SYSTEM PIPING
	COMBINATION SPRINKLER/STANDPIPE PIPING
	DRAIN PIPING
	EXISTING FIRE SPRINKLER
	NEW FIRE SPRINKLER
	NEW FIRE SPRINKLER RELOCATED TO NEW LOCATION
	FIRE SPRINKLER TO BE REMOVED AND REPLACED IN THE SAME LOCATION
	HORN AND STROBE

### HVAC LEGEND

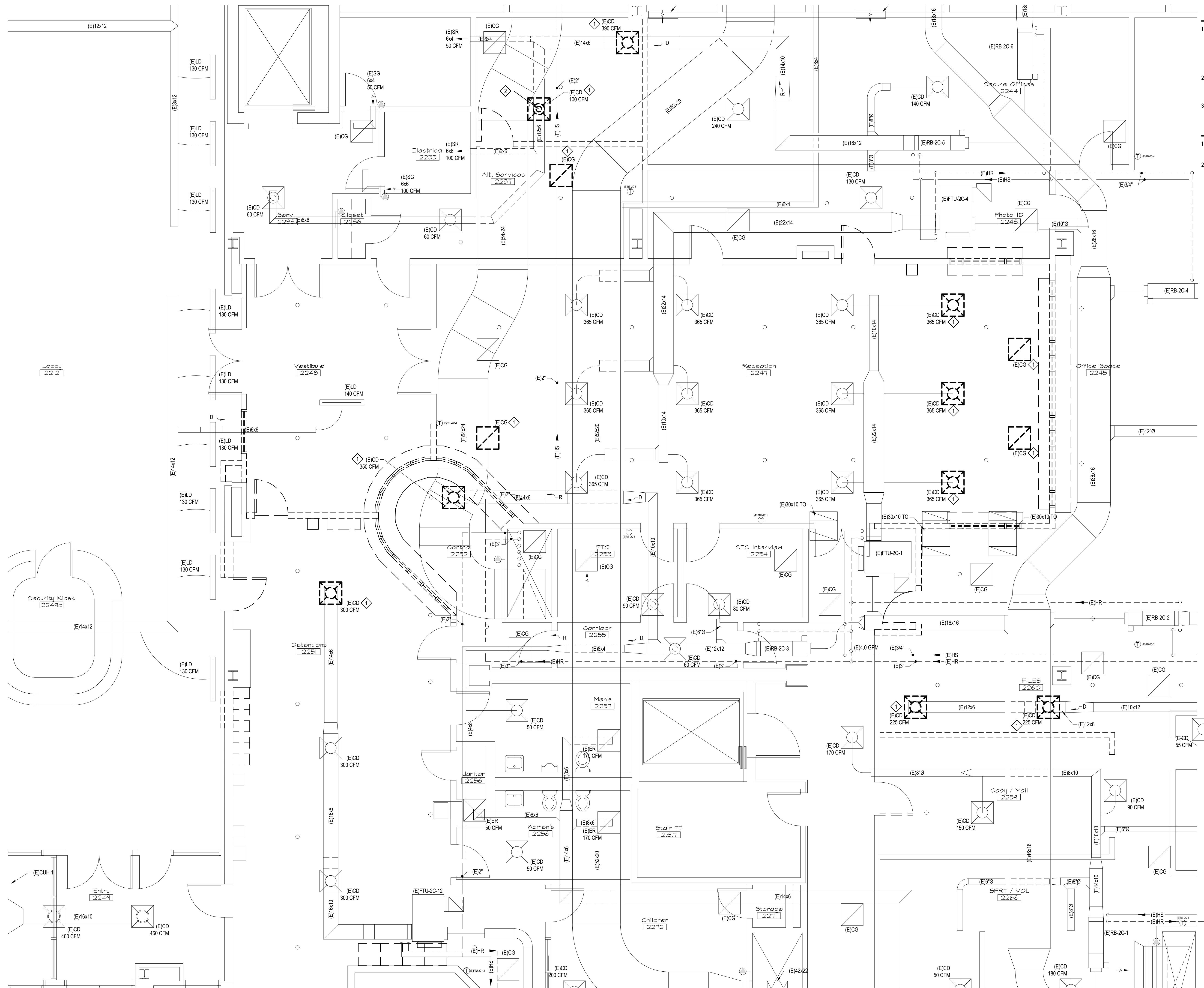
ALL SYMBOLS MAY NOT BE USED

SYMBOL	DESCRIPTION
	HOT WATER SUPPLY
	HOT WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	PUMPED CONDENSATE
	EQUIPMENT DRAIN
	GAS, LOW-PRESSURE
	GAS, MEDIUM-PRESSURE
	GAS VENT
	WALL MOUNTED THERMOSTAT
	WALL MOUNTED TEMPERATURE SENSOR
	WALL MOUNTED CO2 SENSOR
	CO SENSOR
	UNIT MOUNTED THERMOSTAT
	SWITCH
	FIRE DAMPER
	COMBINATION FIRE / SMOKE DAMPER
	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT
	MOTORIZED DAMPER
	DIRECTION OF FLOW
	INDICATES PIPE SLOPE DOWN
	PIPING CAP
	PIPING UP
	PIPING DOWN
	BOTTOM OF PIPE CONNECTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	EXPANSION JOINT
	FLEXIBLE CONNECTOR
	PIPE ANCHOR
	PIPE GUIDE
	FLOW MEASURING DEVICE
	PLUG VALVE
	COMBINATION FLOW MEASURING DEVICE AND BALANCING VALVE
	AUTOMATIC 2-WAY TEMPERATURE CONTROL VALVE
	AUTOMATIC 3-WAY TEMPERATURE CONTROL VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	PRESSURE/TEMPERATURE PORT
	FLOW SWITCH
	SHUTOFF VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BALL VALVE
	HOSE END DRAIN VALVE
	STRAINER WITH BLOW-OFF VALVE
	STRAINER
	UNION
	PRESSURE GAUGE
	THERMOMETER
	SAFETY RELIEF VALVE
	IN-LINE PUMP
	MANUAL AIR VENT
	RECTANGULAR SUPPLY AIR DUCT UP
	RECTANGULAR SUPPLY AIR DUCT DOWN
	RECTANGULAR RETURN / EXHAUST AIR DUCT UP
	RECTANGULAR RETURN / EXHAUST AIR DUCT DOWN
	ROUND DUCT UP
	ROUND DUCT DOWN
	BRANCH DUCT 45° TAKE-OFF
	RECTANGULAR DUCT ELBOW WITH TURNING VANES
	RADIUS ELBOW RECTANGULAR / ROUND DUCT
	DUCT TRANSITION
	FLEX CONNECTION
	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT
	RIGID DUCTWORK WITH FLEXIBLE DUCT TAKE-OFF
	24x24 CEILING RETURN GRILLE
	24x12 CEILING RETURN GRILLE
	24x24 CEILING RETURN GRILLE WITH SOUND BOOT
	24x12 CEILING RETURN GRILLE WITH SOUND BOOT
	CEILING DIFFUSER
	LINEAR SLOT DIFFUSER
	CONICAL SPIN-IN FITTING WITH DAMPER
	FLEXIBLE DUCT
	INDICATES ITEMS TO BE REMOVED



Douglas County Government  
 Justice Center - Horseshoe/Reception Remodel  
 4000 Justice Way, Castle Rock, CO.  
 Castle Rock, Colorado 80109

Project #: 1910  
 Date: 8/1/24  
 Drawn By: JPS  
 Checked By: JKB  
 Scale: as noted  
 Revisions:



**GENERAL NOTES**

1. PRIOR TO MODIFICATION OF EQUIPMENT, PRE-BALANCE READINGS SHALL BE NOTED FOR AIR DEVICES. INFORMATION SHALL BE LOGGED AND SUBMITTED TO THE OWNER. THESE READINGS WILL BE USED FOR VERIFICATION AFTER THE SYSTEMS ARE MODIFIED. MEASURE AND RECORD VALUES FOR AIRFLOW AT THE DEVICE. IF VALUE IS >15% FROM NOTED VALUE, CONFIRM AIRFLOW WITH ENGINEER PRIOR TO THE MODIFICATION OF THE SYSTEM.
2. EXISTING BRANCHLINE PIPING TO REMAIN (TYPICAL). MODIFY SPRINKLER CONNECTIONS AS REQUIRED TO OBTAIN REQUIRED SPRINKLER COVERAGE THROUGHOUT ALL AREAS OF TENANT SPACE PROPOSED.
3. MATCH EXISTING FIRE SPRINKLER PIPING MATERIAL WHEN A HEAD IS RELOCATED OR EXTENDED TO NEW SPACE.

**DEMOLITION NOTES**

1. REMOVE EXISTING AIR DEVICE INCLUDING ALL ASSOCIATED HANGERS, AND SUPPORTS, CLEAN AND RETAIN FOR INSTALLATION IN NEW LOCATION.
2. REMOVE EXISTING 6"Ø SUPPLY DUCT FROM AIR DEVICE CONNECTION TO THE MAIN AND PATCH MAIN AT THIS LOCATION.

**ENVISION**  
 MECHANICAL ENGINEERS, INC.  
 9777 Promid Court, Suite 240  
 Englewood, CO 80112  
 Tel: 303/686-0223  
 Project # 024-014

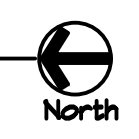


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Sheet  
**M1.0**

1 Mechanical Demolition Floor Plan  
 1/4" = 1' - 0"



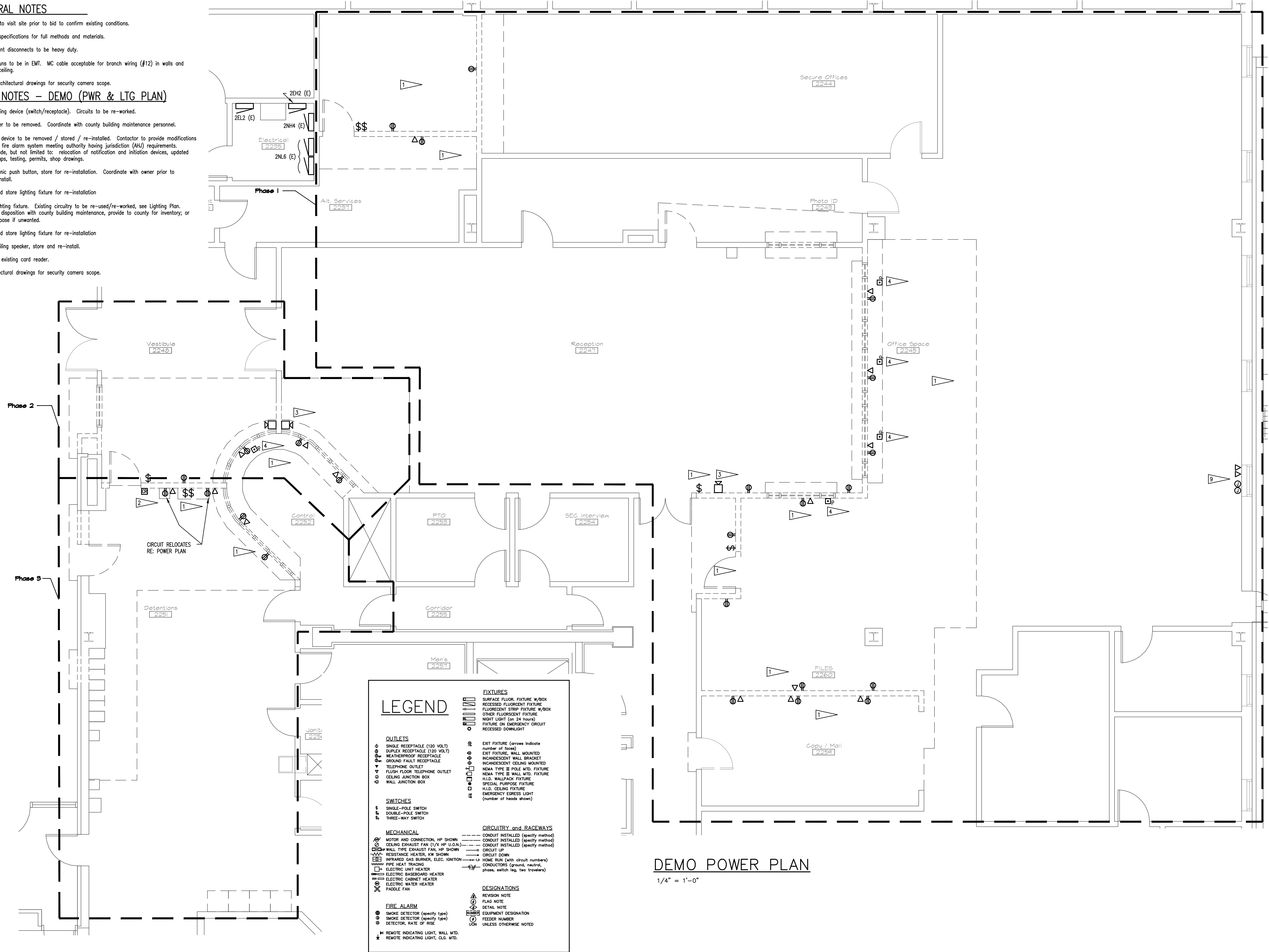


**GENERAL NOTES**

1. Contractor to visit site prior to bid to confirm existing conditions.
2. Reference specifications for full methods and materials.
3. All equipment disconnects to be heavy duty.
4. All home runs to be in EMT. MC cable acceptable for branch wiring (#12) in walls and accessible ceiling.
5. Refer to Architectural drawings for security camera scope.

**FLAG NOTES – DEMO (PWR & LTG PLAN)**

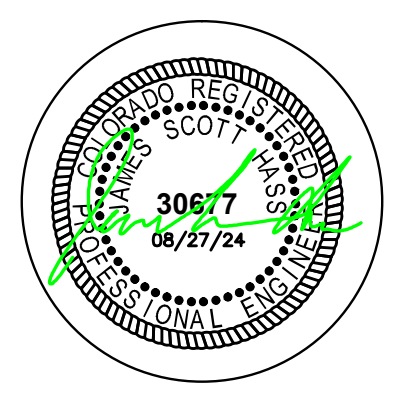
- 1 Demo existing device (switch/receptacle). Circuits to be re-worked.
- 2 Card Reader to be removed. Coordinate with county building maintenance personnel.
- 3 Fire alarm device to be removed / stored / re-installed. Contractor to provide modifications to existing fire alarm system meeting authority having jurisdiction (AHJ) requirements. These include, but not limited to: relocation of notification and initiation devices, updated graphic maps, testing, permits, shop drawings.
- 4 Remove panic push button, store for re-installation. Coordinate with owner prior to demo/re-install.
- 5 Remove and store lighting fixture for re-installation.
- 6 Remove lighting fixture. Existing circuitry to be re-used/re-worked, see Lighting Plan. Coordinate disposition with county building maintenance, provide to county for inventory, or recycle/dispose if unwanted.
- 7 Remove and store lighting fixture for re-installation.
- 8 Remove ceiling speaker, store and re-install.
- 9 Disconnect existing card reader.
- 9a See Architectural drawings for security camera scope.



**LEGEND**

<b>OUTLETS</b>	<b>FIXTURES</b>
○ SINGLE RECEPTACLE (120 VOLT)	□ SURFACE FLUOR. FIXTURE W/BOX
⊕ DUPLEX RECEPTACLE (120 VOLT)	□ RECESSED FLUORESCENT FIXTURE
⊕ WEATHERPROOF RECEPTACLE	□ FLUORESCENT STRIP FIXTURE W/BOX
⊕ GROUND FAULT RECEPTACLE	□ OTHER FLUORESCENT FIXTURE
⊕ TELEPHONE OUTLET	□ NIGHT LIGHT (on 24 hours)
▽ FLUSH FLOOR TELEPHONE OUTLET	□ FIXTURE ON EMERGENCY CIRCUIT
⊕ CEILING JUNCTION BOX	□ RECESSED DOWNLIGHT
⊕ WALL JUNCTION BOX	
<b>SWITCHES</b>	<b>EXIT FIXTURES</b>
⊕ SINGLE-POLE SWITCH	⊕ EXIT FIXTURE (arrows indicate number of faces)
⊕ DOUBLE-POLE SWITCH	⊕ EXIT FIXTURE, WALL MOUNTED
⊕ THREE-WAY SWITCH	⊕ INCANDESCENT WALL BRACKET
<b>MECHANICAL</b>	⊕ INCANDESCENT CEILING MOUNTED
⊕ MOTOR AND CONNECTION, HP SHOWN	⊕ NEMA TYPE III POLE MTD. FIXTURE
⊕ CEILING EXHAUST FAN (1/2 HP U.S.A.)	⊕ NEMA TYPE III WALL MTD. FIXTURE
⊕ WALL TYPE EXHAUST FAN, HP SHOWN	⊕ H.L.D. WALLPACK FIXTURE
⊕ RESISTANCE HEATER, KW SHOWN	⊕ SPECIAL PURPOSE FIXTURE
⊕ INFRARED GAS BURNER, ELEC. IGNITION	⊕ H.L.D. CEILING FIXTURE
⊕ PIPE HEAT TRACING	⊕ EMERGENCY EGRESS LIGHT (number of heads shown)
⊕ ELECTRIC UNIT HEATER	
⊕ ELECTRIC BASEBOARD HEATER	<b>CIRCUITRY and RACEWAYS</b>
⊕ ELECTRIC CABINET HEATER	--- CONDUIT INSTALLED (specify method)
⊕ ELECTRIC WATER HEATER	--- CONDUIT INSTALLED (specify method)
⊕ PADDLE FAN	--- CONDUIT INSTALLED (specify method)
<b>FIRE ALARM</b>	--- CIRCUIT UP
⊕ SMOKE DETECTOR (specify type)	--- CIRCUIT DOWN
⊕ SMOKE DETECTOR (specify type)	--- HOME RUN (with circuit numbers)
⊕ DETECTOR, RATE OF RISE	--- CONDUCTORS (ground, neutral, phase, switch leg, two travelers)
⊕ REMOTE INDICATING LIGHT, WALL MTD.	<b>DESIGNATIONS</b>
⊕ REMOTE INDICATING LIGHT, CEG. MTD.	⊕ REVISION NOTE
	⊕ FLAG NOTE
	⊕ DETAIL NOTE
	⊕ EQUIPMENT DESIGNATION
	⊕ FEEDER NUMBER
	⊕ UNLESS OTHERWISE NOTED

**DEMO POWER PLAN**  
1/4" = 1'-0"

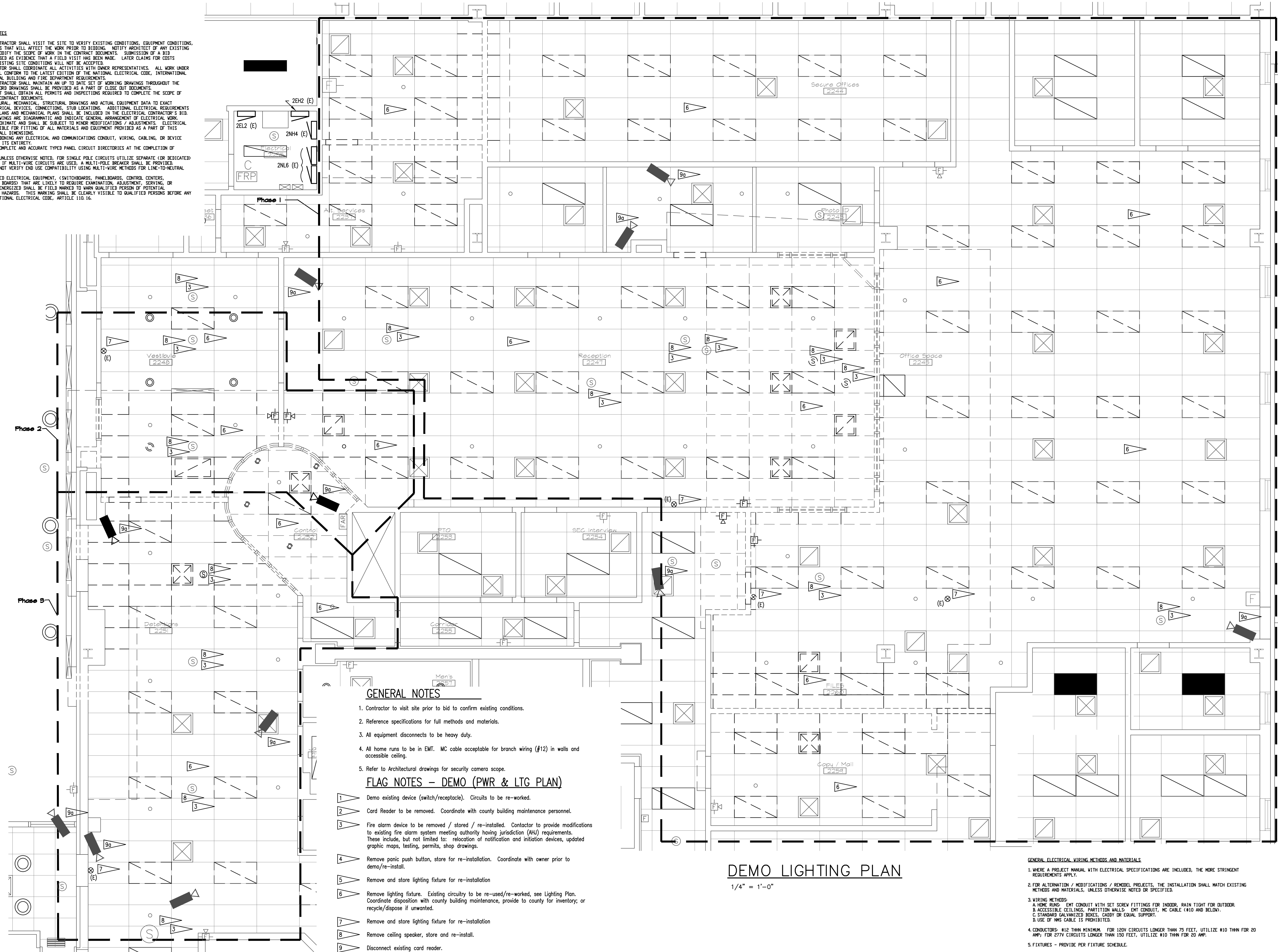


**Douglas County Government  
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4000 Justice Way, Castle Rock, CO.  
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Project #: 2023-16  
Date: 8/01/24  
Drawn By: ICN  
Checked By: JSH  
Scale: as noted  
Revisions:

**ELECTRICAL GENERAL NOTES**

1. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS, EQUIPMENT CONDITIONS, LAYOUT DIFFICULTIES THAT WILL AFFECT THE WORK PRIOR TO BIDDING. NOTIFY ARCHITECT OF ANY EXISTING CONDITIONS WHICH MODIFY THE SCOPE OF WORK IN THE CONTRACT DOCUMENTS. SUBMISSION OF A BID PROPOSAL WILL BE USED AS EVIDENCE THAT A FIELD VISIT HAS BEEN MADE. LATER CLAIMS FOR COSTS ASSOCIATED WITH EXISTING SITE CONDITIONS WILL NOT BE ACCEPTED.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH OWNER REPRESENTATIVES. ALL WORK UNDER THIS CONTRACT SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, LOCAL BUILDING AND FIRE DEPARTMENT REQUIREMENTS.
3. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF WORKING DRAWINGS THROUGHOUT THE JOB. AS-BUILT RECORD DRAWINGS SHALL BE PROVIDED AS A PART OF CLOSE OUT DOCUMENTS.
4. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTING REQUIRED TO COMPLETE THE SCOPE OF WORK SHOWN ON THE CONTRACT DOCUMENTS.
5. REFER TO ARCHITECTURAL, MECHANICAL, STRUCTURAL DRAWINGS AND ACTUAL EQUIPMENT DATA TO EXACT LOCATIONS OF ELECTRICAL DEVICES, CONNECTIONS, STUB LOCATIONS. ADDITIONAL ELECTRICAL REQUIREMENTS ON ARCHITECTURAL PLANS AND MECHANICAL PLANS SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S BID.
6. THE ELECTRICAL DRAWINGS ARE DIAGNOSTIC AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SHALL BE SUBJECT TO MINOR MODIFICATIONS / ADJUSTMENTS. ELECTRICAL CONTRACTOR RESPONSIBLE FOR FITTING OF ALL MATERIALS AND EQUIPMENT PROVIDED AS A PART OF THIS CONTRACT. VERIFY ALL DIMENSIONS.
7. DEMOLITION OR ABANDONING ANY ELECTRICAL AND COMMUNICATIONS CONDUIT, WIRING, CABLEING, OR DEVICE MEANS TO REMOVE IN ITS ENTIRETY.
8. PROVIDE UPDATED, COMPLETE AND ACCURATE TYPED PANEL CIRCUIT DIRECTORIES AT THE COMPLETION OF WORK.
9. THE DESIGN BASIS, UNLESS OTHERWISE NOTED, FOR SINGLE POLE CIRCUITS UTILIZE SEPARATE (OR DEDICATED) NEUTRAL. WHERE OR IF MULTI-WIRE CIRCUITS ARE USED, A MULTI-POLE BREAKER SHALL BE PROVIDED. DESIGN BASIS DOES NOT VERIFY END USE COMPATIBILITY USING MULTI-WIRE METHODS FOR LINE-TO-NEUTRAL LOADS.
10. ALL NEW AND MODIFIED ELECTRICAL EQUIPMENT, SWITCHBOARDS, PANELBOARDS, CONTROL CENTERS, DISTRIBUTION POWER BOARDS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THIS MARKING SHALL BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE ANY MAINTENANCE PER NATIONAL ELECTRICAL CODE, ARTICLE 110.16.



**GENERAL NOTES**

1. Contractor to visit site prior to bid to confirm existing conditions.
2. Reference specifications for full methods and materials.
3. All equipment disconnects to be heavy duty.
4. All home runs to be in EMT. MC cable acceptable for branch wiring (#12) in walls and accessible ceiling.
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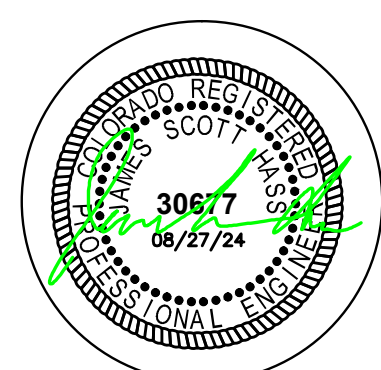
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- 3 Fire alarm device to be removed / stored / re-installed. Contractor to provide modifications to existing fire alarm system meeting authority having jurisdiction (AHJ) requirements. These include, but not limited to: relocation of notification and initiation devices, updated graphic maps, testing, permits, shop drawings.
- 4 Remove panic push button, store for re-installation. Coordinate with owner prior to demo/re-install.
- 5 Remove and store lighting fixture for re-installation
- 6 Remove lighting fixture. Existing circuitry to be re-used/re-worked, see Lighting Plan. Coordinate disposition with county building maintenance, provide to county for inventory, or recycle/dispose if unwanted.
- 7 Remove and store lighting fixture for re-installation
- 8 Remove ceiling speaker, store and re-install.
- 9 Disconnect existing card reader.
- 9a See Architectural drawings for security camera scope.

**DEMO LIGHTING PLAN**

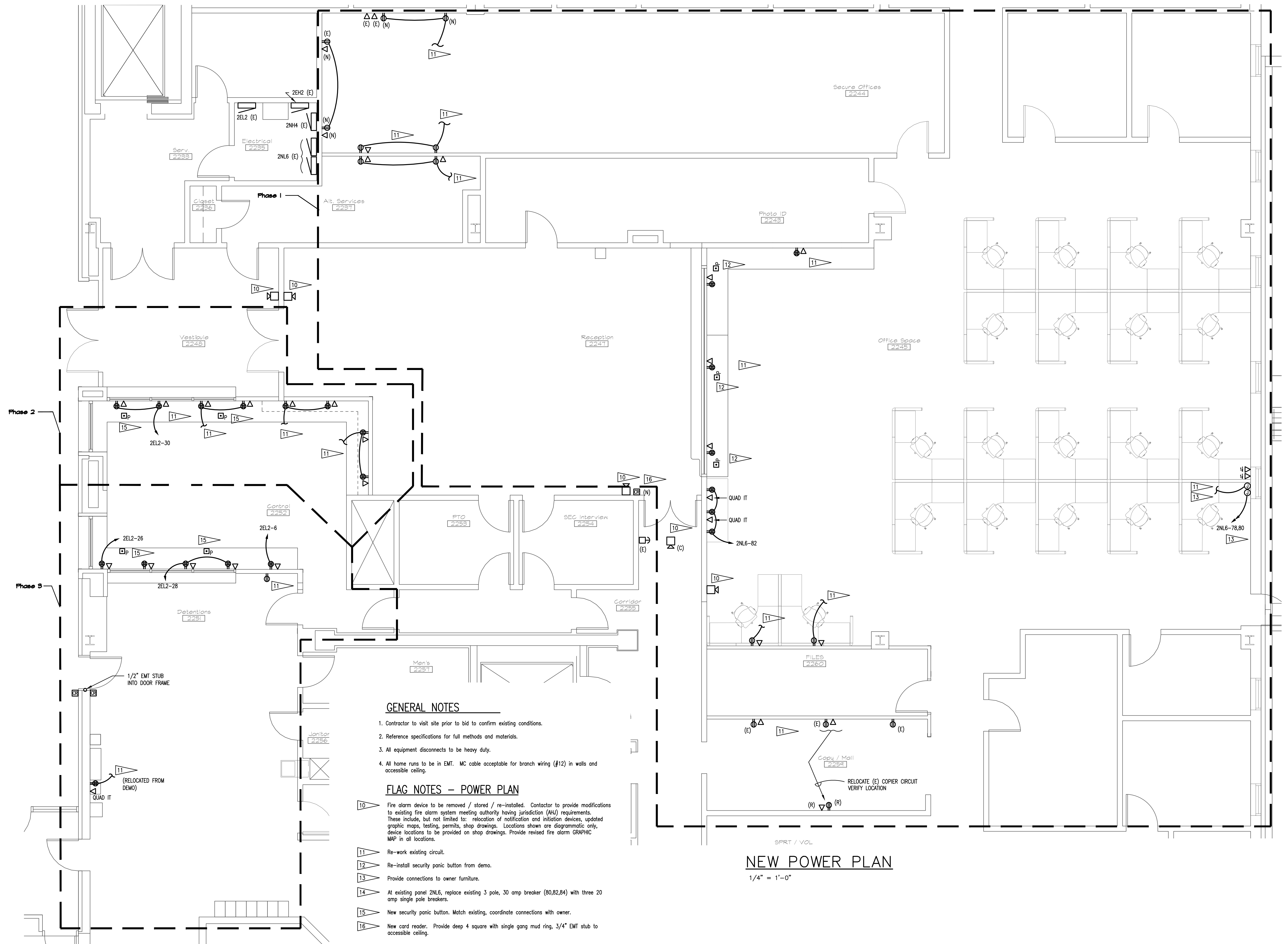
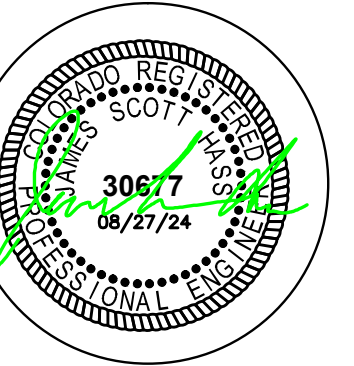
1/4" = 1'-0"

**GENERAL ELECTRICAL WIRING METHODS AND MATERIALS**

1. WHERE A PROJECT MANUAL WITH ELECTRICAL SPECIFICATIONS ARE INCLUDED, THE MORE STRINGENT REQUIREMENTS APPLY.
2. FOR ALTERNATION / MODIFICATIONS / REMODEL PROJECTS, THE INSTALLATION SHALL MATCH EXISTING METHODS AND MATERIALS, UNLESS OTHERWISE NOTED OR SPECIFIED.
3. WIRING METHODS:
  - A. HOME RUNS - EMT CONDUIT WITH SET SCREW FITTINGS FOR INDOOR, RAIN TIGHT FOR OUTDOOR.
  - B. ACCESSIBLE CEILING, PARTITION WALLS: EMT CONDUIT, MC CABLE (#10 AND BELOW).
  - C. STANDARD GALVANIZED BOXES, CADDY OR EQUAL SUPPORT.
  - D. USE OF NMS CABLE IS PROHIBITED.
4. CONDUCTORS #12 THIN MINIMUM. FOR 120V CIRCUITS LONGER THAN 75 FEET, UTILIZE #10 THIN FOR 20 AMP; FOR 277V CIRCUITS LONGER THAN 150 FEET, UTILIZE #10 THIN FOR 20 AMP.
5. FIXTURES - PROVIDE PER FIXTURE SCHEDULE.
6. DEVICES - MATCH EXISTING COLOR UNLESS OTHERWISE DIRECTED. MINIMUM RATINGS SHALL BE COMMERCIAL GRADE, 20A.



Project #: 2023-16  
 Date: 8/01/24  
 Drawn By: ICN  
 Checked By: JSH  
 Scale: as noted  
 Revisions:



**GENERAL NOTES**

1. Contractor to visit site prior to bid to confirm existing conditions.
2. Reference specifications for full methods and materials.
3. All equipment disconnects to be heavy duty.
4. All home runs to be in EMT. MC cable acceptable for branch wiring (#12) in walls and accessible ceiling.

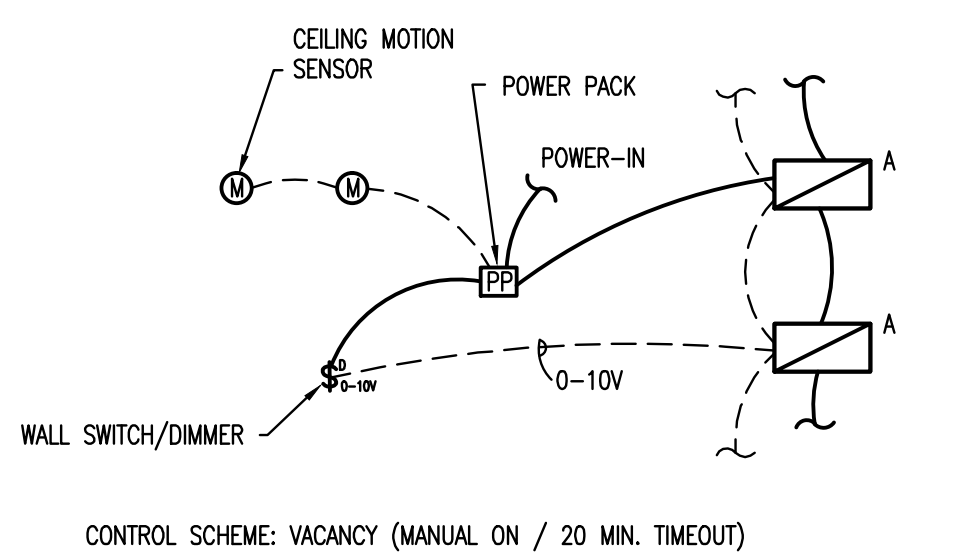
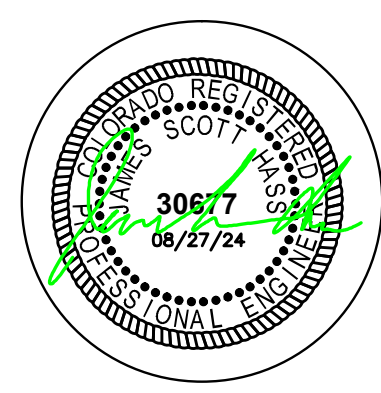
**FLAG NOTES -- POWER PLAN**

- 10 Fire alarm device to be removed / stored / re-installed. Contractor to provide modifications to existing fire alarm system meeting authority having jurisdiction (AHJ) requirements. These include, but not limited to: relocation of notification and initiation devices, updated graphic maps, testing, permits, shop drawings. Locations shown are diagrammatic only, device locations to be provided on shop drawings. Provide revised fire alarm GRAPHIC MAP in all locations.
- 11 Re-work existing circuit.
- 12 Re-install security panic button from demo.
- 13 Provide connections to owner furniture.
- 14 At existing panel 2NL6, replace existing 3 pole, 30 amp breaker (80,82,84) with three 20 amp single pole breakers.
- 15 New security panic button. Match existing, coordinate connections with owner.
- 16 New card reader. Provide deep 4 square with single gang mud ring, 3/4" EMT stub to accessible ceiling.

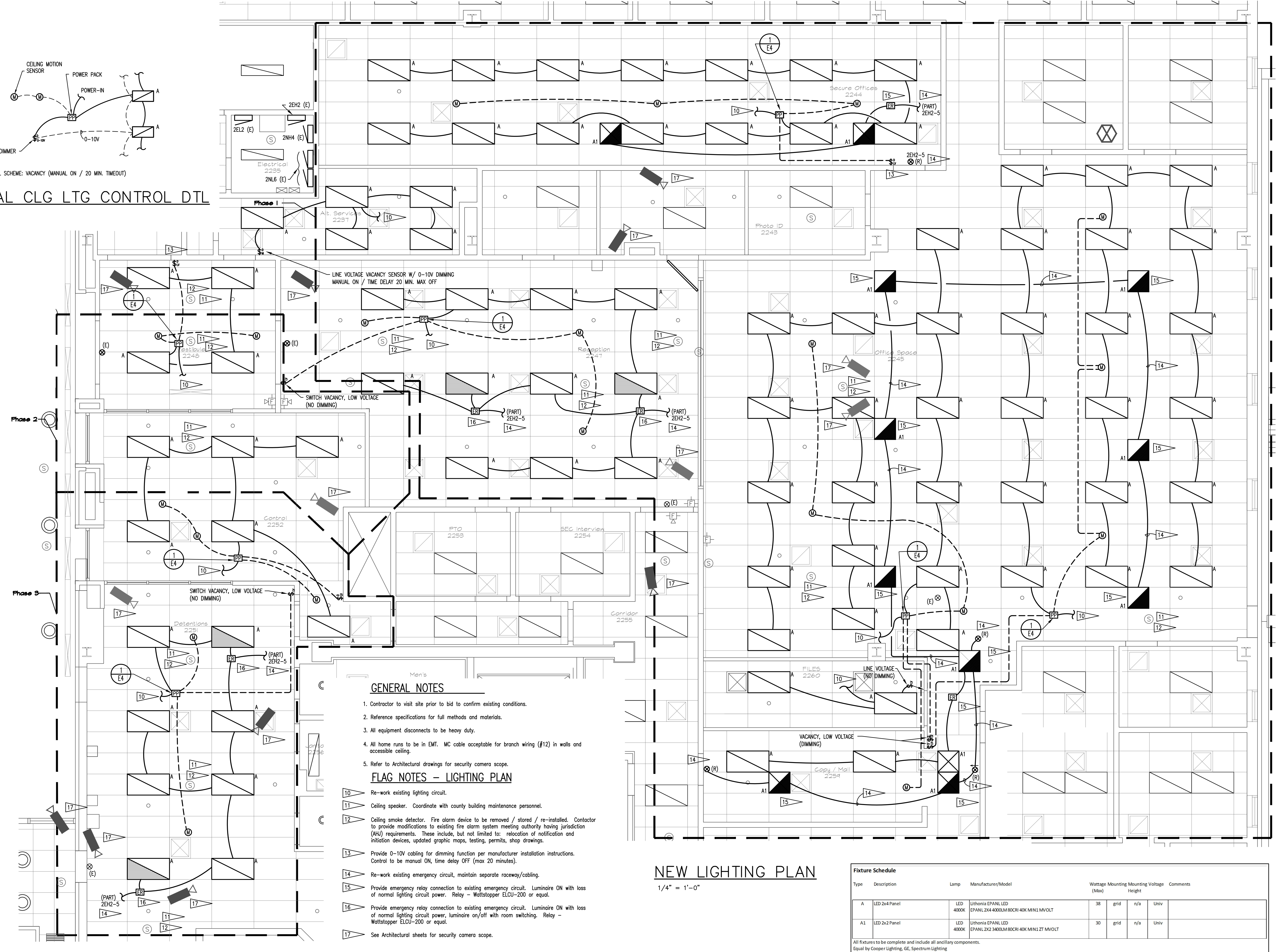
**NEW POWER PLAN**

1/4" = 1'-0"

SPRT / VOL



**LOCAL CLG LTG CONTROL DTL**  
 N.T.S.



**GENERAL NOTES**

- Contractor to visit site prior to bid to confirm existing conditions.
- Reference specifications for full methods and materials.
- All equipment disconnects to be heavy duty.
- All home runs to be in EMT. MC cabling acceptable for branch wiring (#12) in walls and accessible ceiling.
- Refer to Architectural drawings for security camera scope.

**FLAG NOTES - LIGHTING PLAN**

- 10 Re-work existing lighting circuit.
- 11 Ceiling speaker. Coordinate with county building maintenance personnel.
- 12 Ceiling smoke detector. Fire alarm device to be removed / stored / re-installed. Contractor to provide modifications to existing fire alarm system meeting authority having jurisdiction (AHJ) requirements. These include, but not limited to: relocation of notification and initiation devices, updated graphic maps, testing, permits, shop drawings.
- 13 Provide 0-10V cabling for dimming function per manufacturer installation instructions. Control to be manual ON, time delay OFF (max 20 minutes).
- 14 Re-work existing emergency circuit, maintain separate raceway/cabling.
- 15 Provide emergency relay connection to existing emergency circuit. Luminaire ON with loss of normal lighting circuit power. Relay - Wattstopper ELCU-200 or equal.
- 16 Provide emergency relay connection to existing emergency circuit. Luminaire ON with loss of normal lighting circuit power, luminaire on/off with room switching. Relay - Wattstopper ELCU-200 or equal.
- 17 See Architectural sheets for security camera scope.

**NEW LIGHTING PLAN**  
 1/4" = 1'-0"

Fixture Schedule		Lamp	Manufacturer/Model	Wattage (Max)	Mounting	Mounting Voltage	Comments
A	LED 2x4 Panel	LED 4000K	Lithonia EPANL LED EPANL 2X4 4000LM 80CRI 40K MNI 1 MVOLT	38	grid	n/a	Univ
A1	LED 2x2 Panel	LED 4000K	Lithonia EPANL LED EPANL 2X2 3400LM 80CRI 40K MNI 1 ZT MVOLT	30	grid	n/a	Univ

All fixtures to be complete and include all ancillary components. Equal by Cooper Lighting, GE, Spectrum Lighting