



STATE OF TEXAS
ROSS MCFARLAND
108752
LICENSED
PROFESSIONAL ENGINEER
5.30.24



AOS
ENGINEERING

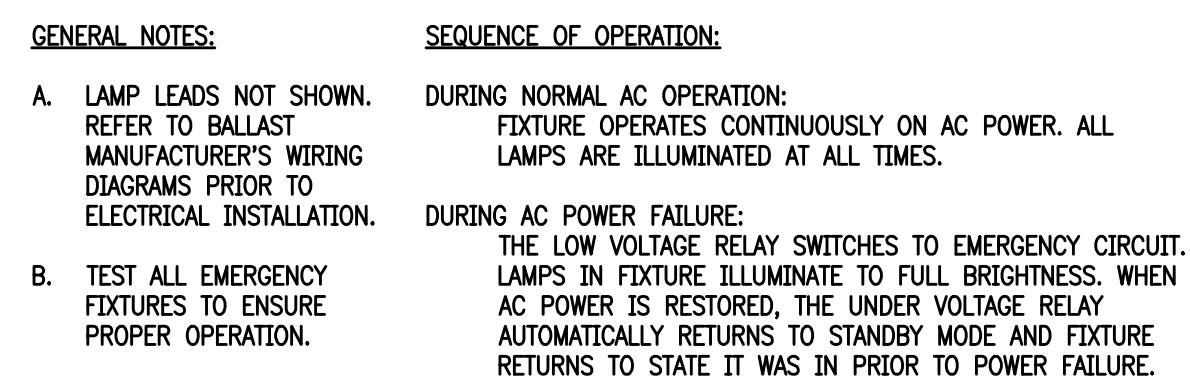
AOS JOB #:1703-031-24

**10th Floor Corr.,
RR, & Elev.
Lobby**



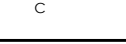


Tenth Level Floor Plan - Lighting

© 2024

EL1.10



<u>GENERAL NOTES:</u>	<u>SEQUENCE OF OPERATION:</u>
A. LAMP LEADS NOT SHOWN. REFER TO BALLAST MANUFACTURER'S WIRING DIAGRAMS PRIOR TO ELECTRICAL INSTALLATION.	DURING NORMAL AC OPERATION: FIXTURE OPERATES AS DIMMED/SWITCHED FIXTURE. NO LAMPS ARE ILLUMINATED WHILE THE SWITCH IS IN THE 'OFF' POSITION. ALL LAMPS ARE ILLUMINATED WHEN THE SWITCH IS IN THE 'ON' POSITION.
B. TEST ALL EMERGENCY FIXTURES TO ENSURE PROPER OPERATION.	DURING AC POWER FAILURE: THE LOW VOLTAGE RELAY SWITCHES TO EMERGENCY CIRCUIT. LAMPS IN FIXTURE ILLUMINATE TO FULL BRIGHTNESS. WHEN AC POWER IS RESTORED, THE LOW VOLTAGE RELAY AUTOMATICALLY RETURNS TO STANDBY MODE AND FIXTURE RETURNS TO STATE IT WAS IN PRIOR TO POWER FAILURE.
C. SENSING LEADS FOR LOW VOLTAGE RELAY MUST BE CONNECTED AFTER ALL LIGHTING CONTROLS (I.E. DIMMERS, RELAYS, SWITCHES, OCCUPANCY SENSORS, ETC.) ON THE NORMAL POWER CIRCUIT.	

LIGHTING LEGEND		
SYMBOL	WATTS*	DESCRIPTION
	36	2x2 LAYIN LED LITHONIA, 2BLT2-40L-ADSM-VOLT-ES1-LP835
	19	4\"
	4.4	COVE LIGHTING COOPER LIGHTING, METALUX, NARROW STAGGERED STRIPLIGHT, SWL-225-UNY-E881
	91	SUSPENDED LIGHTING PENDANT INTRA LIGHTING, VITKA SOS SUSPENDED, BLACK FINISH 16718-5-U-2-1-2, 105 1/4\" x 31 1/2\" W, 120 - 227V, 3000K
	3W	BACKLIT MIRROR LIGHT (RESTROOMS) 3W/FT LED TAPE INSIDE FLAT LENSED EXTRUSION

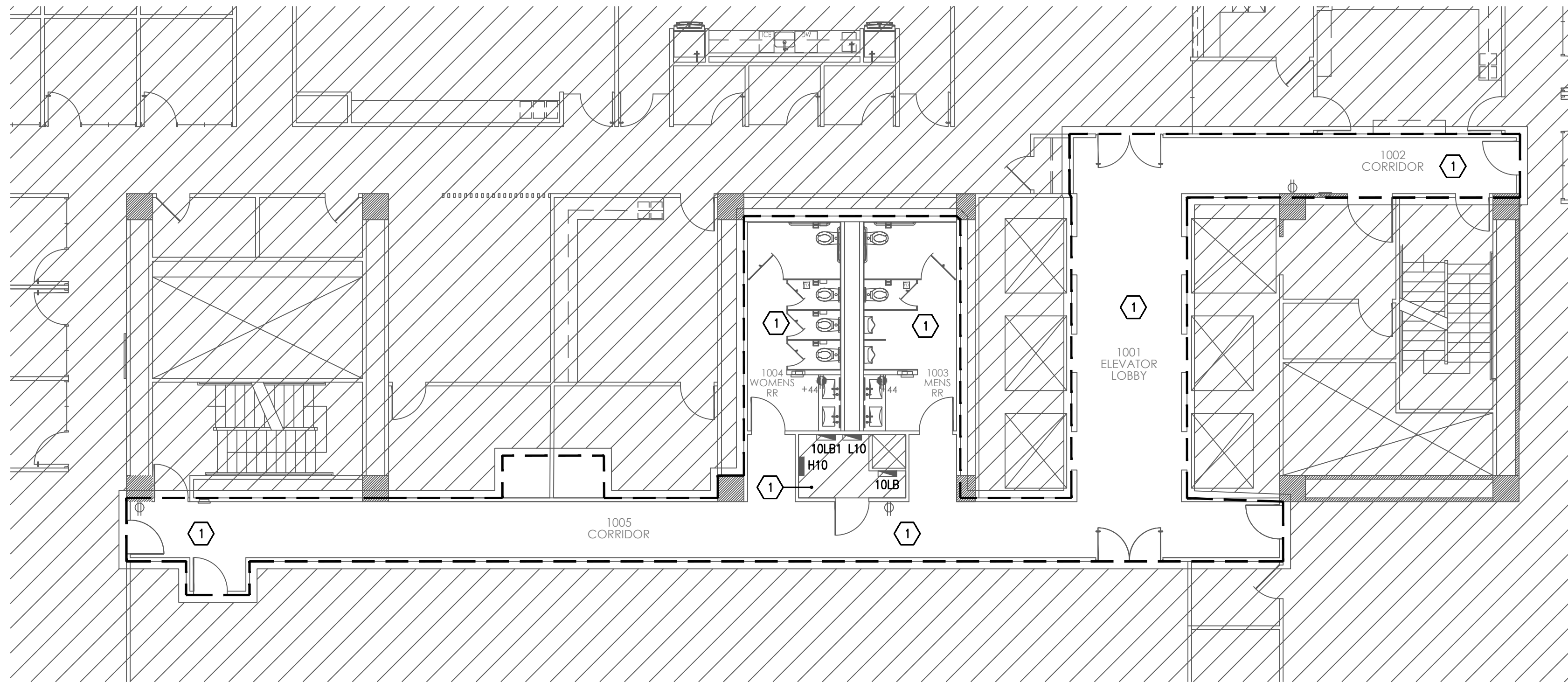
NOTES:

- CONTRACTOR SHALL SUBMIT LIGHTING SELECTIONS TO ARCHITECT AND AOS-ENGINEERING FOR APPROVAL, U.N.O. BY ARCHITECT.
- REFER TO ARCHITECTURAL PLANS FOR NEW FIXTURE SPECIFICATIONS AND SELECTIONS, IF NONE LISTED ABOVE.
- MATCH ALL BUILDING STANDARD LIGHTING MANUFACTURERS AND MODELS. CONTRACTOR TO VERIFY BUILDING STANDARD WITH BUILDING ENGINEER PRIOR TO BID AND CONSTRUCTION.
- ALL LIGHTING SHALL BE 277/120 UNIVERSAL VOLTAGE.
- HATCHED FIXTURES SHALL INDICATE UNSWITCHED FIXTURE ON EMERGENCY CIRCUIT, U.N.O.

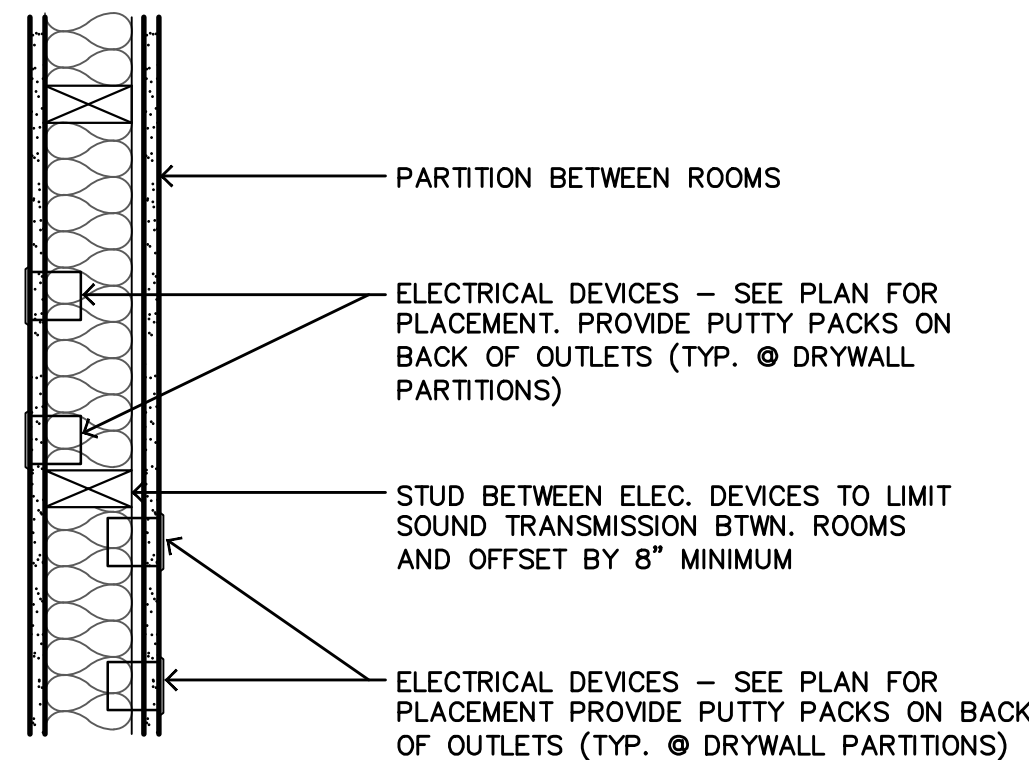
AOS-ENGINEERING APPROVED QUAL MANUFACTURERS: ACUTY BRANDS LIGHTING, COOPER LIGHTING, H.E. WILLIAMS, LEVITON LIGHTING, ASTRALITE.

—SUBMIT ANY ALTERNATES TO ARCHITECT AND AOS-ENGINEERING FOR APPROVAL, U.N.O.

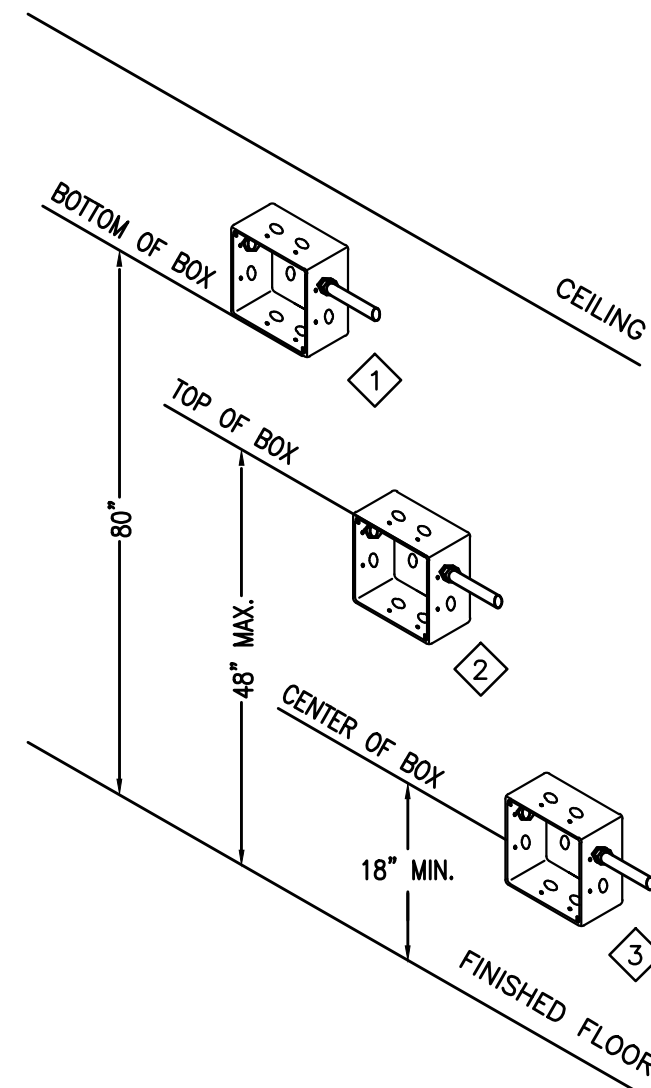
* MAXIMUM FIXTURE WATTAGE NOT TO EXCEED SHOWN.



1 FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

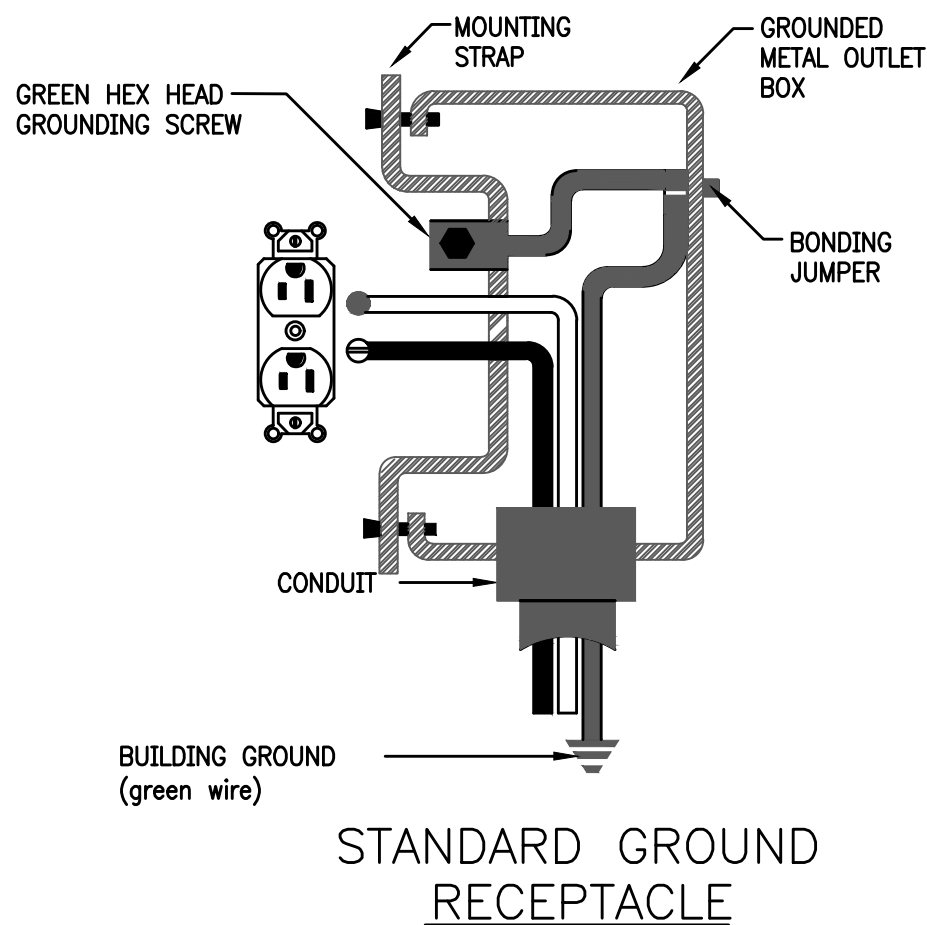


2 ELECTRICAL DEVICE PLACEMENT DETAIL
SCALE: NONE



- 1 MOUNT 80" TO BOTTOM OF JUNCTION BOX FOR FIRE ALARM HORNS, STROBE LIGHTS AND COMBINATION HORN & STROBE.
- 2 MOUNT 48" TO TOP OF JUNCTION BOX FOR SWITCHES, FIRE ALARM PULL STATIONS AND OTHER CONTROLS (THERMOSTATS, ETC.)
- 3 MOUNT 18" TO CENTER OF JUNCTION BOX FOR RECEPTACLES (ALL TYPES EXCEPT COUNTER TOP MOUNTED), COMPUTER OUTLETS AND TELEPHONE OUTLETS.

4 ADA REQUIREMENTS DETAIL
SCALE: NONE



3 RECEPTACLE GROUNDING DETAIL
SCALE: NONE

GENERAL NOTES:

- ALL CIRCUIT NUMBERS SHOWN FOR LOCATION AND QUANTITY ONLY. VERIFY EXACT NUMBERS IN FIELD. UTILIZE ALL CIRCUITS MADE AVAILABLE BY DEMOLITION ALONG WITH ALL AVAILABLE SPARES AND SPACES TO COMPLETE LAYOUT AS SHOWN. VERIFY ADDITIONAL LOAD DOES NOT EXCEED PANEL CAPACITY. CONTACT AOS-ENGINEERING IF DISCREPANCY OCCURS. UPDATE PANEL SCHEDULES WHEN WORK IS COMPLETED.
- MAINTAIN ALL FIRE RATINGS WHERE CONDUIT PENETRATES FIRE RATED WALLS. CONTRACTOR TO VERIFY ALL EXISTING ELECTRICAL PENETRATIONS MEET EXISTING RATING(S) OF PENETRATED ROOMS. IF EXISTING PENETRATIONS DO NOT MEET REQUIREMENTS CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY EQUIPMENT TO MEET EXISTING ROOM RATING(S). FINISHED INSTALLATION SHALL MAINTAIN FIRE PROOF, WATER PROOF, AND STRUCTURAL INTEGRITY OF THE SYSTEM PENETRATED.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL SYMBOL LEGENDS, DEMOLITION, CONSTRUCTION NOTES AND POWER SPECIFICATIONS.
- FIELD VERIFY EXACT LOCATION OF EXISTING PANELBOARDS AND ROUTING OF BRANCH CIRCUITS WITH BUILDING ENGINEER PRIOR TO SUBMITTING BID.
- TURN OFF ALL "SPARE" CIRCUIT BREAKERS AND LABEL.
- COORDINATE ELEVATION AND LOCATION OF ALL RECEPTACLES AND TELE/DATA DEVICES WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, AND EQUIPMENT INSTALLATION DRAWINGS.
- ALL 120-VOLT AND 277-VOLT BRANCH CIRCUITS SHALL BE 3-WIRE (HOT, NEUTRAL AND GROUND). WHERE HOMERUN IS SHOWN TO SERVE A SINGLE DEVICE, THE BRANCH CIRCUIT SHALL HAVE DEDICATED GROUND AND NEUTRAL CONDUCTORS.
- LABEL ALL ELECTRICAL OUTLETS TO SHOW PANEL CIRCUIT DESIGNATION WITH PRINTED LABEL TAPE.
- FROM EACH TELEPHONE, DATA, OR COMMUNICATION OUTLET INDICATED, PROVIDE DEEP SINGLE GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING WITH (1) 2" CONDUIT, NON-SPLIT WIRE LOOM. FOR ALL A/V CONNECTIONS PROVIDE DEEP DOUBLE GANG JUNCTION BOX WITH DOUBLE GANG PLASTER RING WITH (1) 2" CONDUIT, NON-SPLIT WIRE LOOM. RUN CONDUIT TO ABOVE ACCESSIBLE CEILING AND CAP. CONDUIT SHALL INCLUDE 1/4" POLYPROPYLENE PULL WIRE INSTALLED IN EMPTY CONDUIT. VERIFY CONDUIT REQUIREMENTS WITH ARCHITECT PRIOR TO BID.
- ALL LOW VOLTAGE CABLING SHALL BE HUNG AND SECURED VIA J-HOOKS (CABOLFIL CJ OR CJHP) OR CABLE TRAYS (CABOLFIL CF105), OR APPROVED EQUALS. SUSPEND WIRE TO STRUCTURE AS HIGH AS POSSIBLE. COORDINATE EXACT ROUTING PATHWAYS WITH ARCHITECT. COORDINATE MOUNTING EQUIPMENT SELECTIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE CODE MINIMUM FIRE ALARM SYSTEM. INSTALLATION SHALL MEET ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES. VERIFY ALL FIRE ALARM DEVICE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLING BOXES.
- DETERMINE THE EXISTING STRUCTURAL SYSTEM PRIOR TO CUTTING, DRILLING, OR CORING. INCLUDE BID FOR GROUND PENETRATING RADAR (GPR) OR X-RAY TO SLAB IN ORDER TO LOCATE EXISTING UTILITIES IN REINFORCED CONCRETE (POST TENSION CABLES, ELECTRIC CABLES, PLUMBING, FIBER OPTICS), IN CONCRETE REBAR, VOIDS, SLABS THICKNESS, AND CONDUITS EMBEDDED IN CONCRETE (SLABS, WALLS, BALCONIES, AND COLUMNS).
- PROVIDE POWER TO ALL NEW FIRE ALARM, HVAC AND VAV BOXES/DAMPER/ETC. IF EQUIPMENT REQUIRES 120V AC POWER, PROVIDE POWER FROM NEAREST 120V GENERAL PURPOSE RECEPTACLE CIRCUIT OR EXISTING VAV BUILDING CONTROL CIRCUIT. IF EQUIPMENT REQUIRES DC POWER, DUPLICATE POWER CONNECTIONS OF EXISTING VAV'S/DAMPERS IN BUILDING. VERIFY EXACT POWER REQUIREMENTS OF ALL VAV'S/DAMPERS IN FIELD. PERFORM ALL NECESSARY WORK AND PROVIDE ALL NECESSARY MATERIALS FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. VERIFY LOCATIONS/QUANTITIES OF ALL VAV'S/DAMPERS WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR. PROVIDE LOCAL DISCONNECTS AS REQUIRED PER CODE. COORDINATE ANY CONNECTIONS TO BUILDING CONTROL SYSTEMS WITH BUILDING ENGINEER.
- PROVIDE JUNCTION BOX AND 3/4" CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING FROM ALL SECURITY DEVICE LOCATIONS. PROVIDE 120V POWER TO SECURITY DEVICES AND EQUIPMENT PER SECURITY VENDOR. COORDINATE IN FIELD. INSTALL 3/4" CONDUIT IN WALLS FROM ALL MAG LOCK LOCATIONS TO ABOVE CEILING LINE. ALL DOORS WITH MAG LOCKS/CARD READERS TO HAVE ELECTRIC STRIKES AND HARDWARE. COORDINATE REQUIREMENTS WITH SECURITY VENDOR. VERIFY EXACT LOCATIONS OF DEVICES WITH SECURITY VENDOR PRIOR TO INSTALLATION.
- EXISTING TO REMAIN DEVICES SHOWN GRAYED OUT (). VERIFY ALL COMPONENTS ARE IN PROPER WORKING ORDER. RE-CIRCUIT, CLEAN AND REPLACE AS REQUIRED. VERIFY EXACT LOCATION IN FIELD.

KEY NOTES:

- 1 ALL EXISTING ELECTRICAL EQUIPMENT TO REMAIN, UNLESS NOTED OTHERWISE. VERIFY ALL COMPONENTS ARE IN PROPER WORKING ORDER, CLEAN AND REPLACE AS REQUIRED. VERIFY LOCATIONS IN FIELD AND ALL SPECIFICATIONS WITH ARCHITECT.

FIRE ALARM NOTE

THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR DESIGN, DESIGN APPROVAL, INSTALLATION AND FINAL ACCEPTANCE BY THE AUTHORITIES HAVING JURISDICTION. FINAL DEVICE QUANTITIES AND LOCATIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

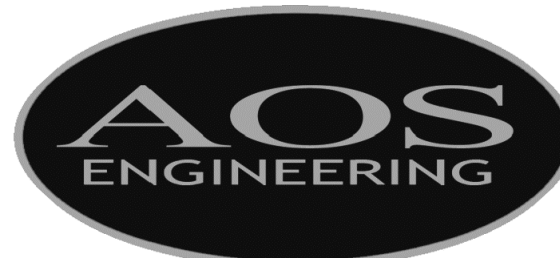


entos
design

5400 LBJ Freeway, Suite 125 Dallas, Texas 75240
P. 972.770.2222 | www.entosdesign.com



CONTRACTOR SHALL COORDINATE
MEP DRAWINGS WITH ALL OTHER
DISCIPLINES



Texas Registered Engineering Firm F-9218
5020 Tennyson Parkway - Plano, TX 75024
Dallas / Fort Worth 214.432.3030
Houston 832.532.2007

AOS JOB #: 1703-031-24

Permit No. Issued 05/30/24 Date

10th Floor Corr.,
RR, & Elev.
Lobby

Energy Square 2
4849 Greenville Ave.
10th Floor
Dallas, Texas 75206

Project ID: 21-1102-L147

Sheet Title

Tenth Level Floor
Plan - Power

Sheet Number

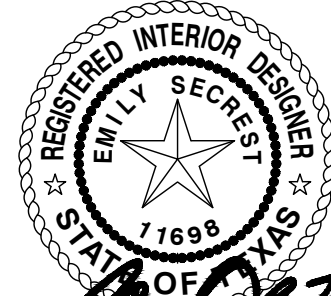
© 2024

EP1.10

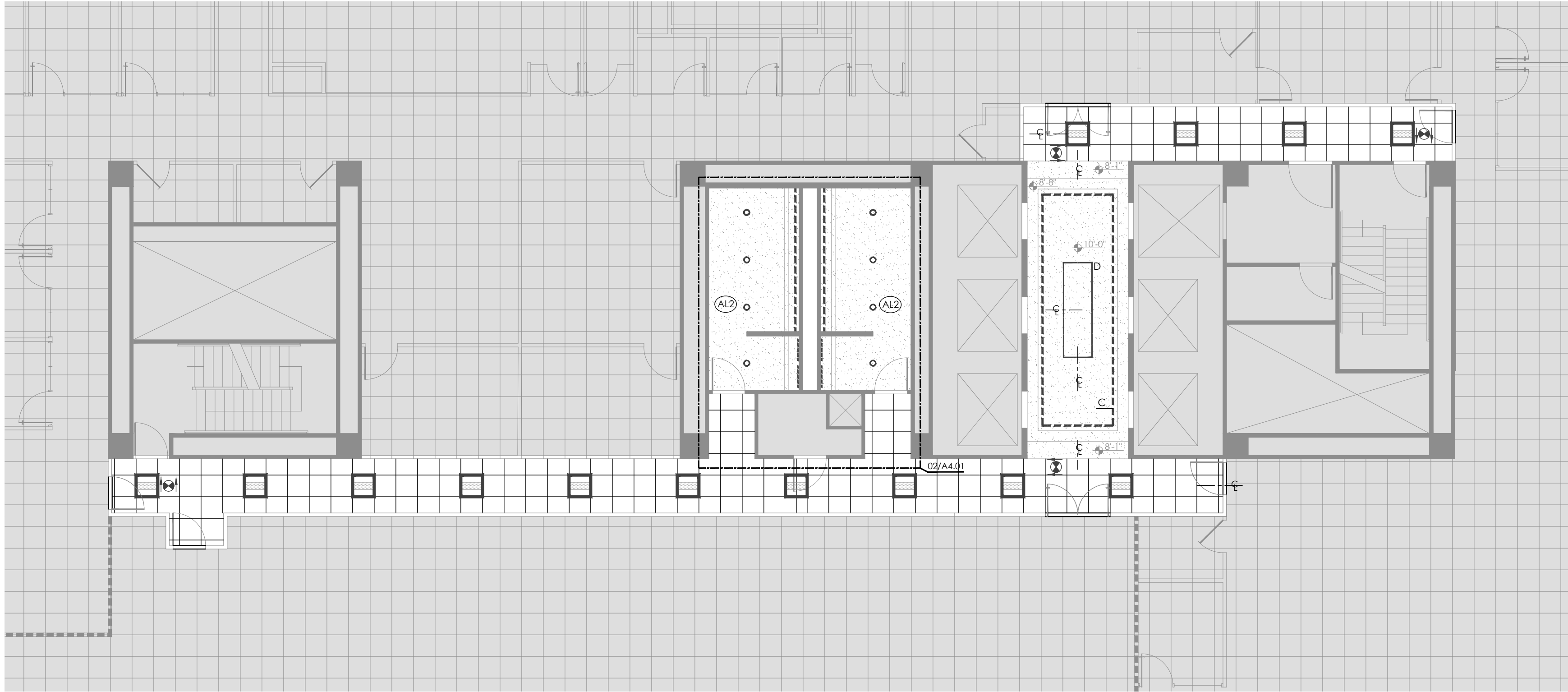


entos
design

5400 LBJ Freeway, Suite 125 Dallas, Texas 75240
P. 972.770.2222 | www.entosdesign.com



07/09/2024



CITY OF DALLAS STAMP REGION
2.5" x 7.5"

01 Reflected Ceiling Plan

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



SCHEDULE

LIGHTING

- ALL LED FIXTURES SHALL BE ON DIMMER SWITCH, U.N.O.
- ALL LIGHTING CONTROLS TO BE ADJUSTABLE. CONTRACTOR TO COORDINATE TRAINING BETWEEN OCCUPANT'S REP AND CONTROLS VENDOR 30 DAYS AFTER MOVE-IN.
- ALL LIKE FIXTURES SHALL HAVE SAME COLOR TEMPERATURE.
- WHEN CHANGES OCCUR TO THE SCHEDULED LIGHTS, ELECTRICIAN SHALL UPDATE THE IECC CALCULATION AND ISSUE TO ENTOS AND THE CONTRACTOR.
- ALL FIXTURES SHALL BE BID AS SPECIFIED. FIXTURES SHALL BE SUPPLIED BY THE APPROPRIATE DISTRIBUTOR. ANY SUBSTITUTION MUST BE APPROVED BY THE ARCHITECT PRIOR TO SUBMISSION OF BID.

- A **2x2 LAYIN LED**
LITHONIA, 2BLT2-40L-ADSM-VOLT-ES1-1P835
THROUGHOUT U.N.O.
- B **4" ROUND RECESSED LED DOWN LIGHT**
LITHONIA, LDN4-AL02-SWW1-L04-AR-LSS-MVOKT-UGZ1, SET TO 3500K, 19W
- C **COVE LIGHTING**
COOPER LIGHTING, METALUX, NARROW STAGGERED STRIPLIGHT, SNL-225-UNV-EB81, CONTRACTOR TO CONFIRM LENGTH OF EACH SECTION TO PROVIDE COMPLETE COVERAGE OF COVE
- D **SUSPENDED RECTANGULAR PENDANT**
INTRA LIGHTING, VITKA SQ SUSPENDED, BLACK FINISH 16718-5-U-2-1-1-2, 105 1/4"L x 31 1/2"W, 120 - 227V, 3000K, 91W
INSTALLATION: MOUNT BOTTOM AT 9'-0" A.F.F. (ELECTRICIAN TO FASHION CUSTOM CORD/STEM IF INCLUDED PART DOESN'T ACCOMMODATE DESIRED MOUNTED HEIGHT)
- F **BACKLIT MIRROR LIGHT (RESTROOMS)**
3W/FT LED TAPE INSIDE FLAT LENSED EXTRUSION, NEW ACRYLITE, CHAS1-M-SV-RB-90-SWS220-3-0-35K-1-LENGTH/DRVW-24-WATTS-10P
- X **EXIT SIGN**
MATCH BUILDING STANDARD, COOPER LIGHTING, SURE LITES, ELX SERIES EDGLIT EXITS, ELX7 GREEN
NOTES: CONTRACTOR TO CONFIRM FACING QUANTITIES

CEILING TYPE

- ACT-1 **ACOUSTICAL CEILING TILE**
ARMSTRONG, 2x2, DUNE, TEGULAR

- CG-1 **CEILING GRID**
ARMSTRONG, 2x2, 15/16", WHITE
INSTALLATION: MOUNT BOTTOM AT 8'-5" A.F.F.

SPECIALTIES

- PN-1 **ACCESS PANEL**
WIND-LOCK, STEALTH ACCESS PANEL-AP-DR1818, 18" x 18", ROUGH OPENING 24" x 24", PAINT TO MATCH ADJACENT CEILING
- DF-1 **SUPPLY DIFFUSER**
TITUS, OMNI, STEEL PLAQUE FACE DIFFUSER, 24" x 24", WHITE
- GR-1 **RETURN GRILLE**
PERFORATED STYLE, MATCH BUILDING STANDARD, 24" x 24", WHITE
- SD-1 **LINEAR SLOT DIFFUSER** (@ GYP. BD. CEILINGS)
MUD-IN FLANGE, REFER MEP DRAWINGS

NOTES

PLAN NOTES

- ALL NEW CONSTRUCTION UNDER NOT-IN-CONTRACT HATCH TO BE PROVIDED UNDER SEPARATE SCOPE OF WORK.
- NEW/EXISTING PARTITIONS CONSTRUCTED TO DECK SHALL RECEIVE RETURN AIR BOOTS APPROPRIATELY SIZED FOR PROPER OPERATION OF HVAC SYSTEM.
- EXISTING FIRE RATED PARTITIONS SHALL HAVE FIRE/SMOKE DAMPERS OF THE APPROPRIATE SIZE AND RATING.
- PROVIDE NEW CEILINGS GRID AND TILE WHERE SHOWN ON PLAN. REFER SCHEDULE FOR SPECIFICATIONS.
- EXISTING GYP. BOARD CEILING SHALL REMAIN, U.N.O.
- PROVIDE NEW LIGHT FIXTURES/EXIT SIGNS AS SHOWN ON PLAN. REFER SCHEDULE FOR SPECIFICATIONS.
- PROVIDE EMERGENCY LIGHT FIXTURES PER CODE. UTILIZE SPECIFIED LIGHT FIXTURES WHERE POSSIBLE. DO NOT USE WALL-MOUNTED "BUG-EYE" STYLE FIXTURES.
- WALL-MOUNTED LIGHT SWITCHES SHALL NOT BE LOCATED BEHIND DOORS, RELOCATE EXISTING IF NEEDED.
- REPLACE EXISTING THERMOSTATS WITH NEW TO BE WHITE IN COLOR. THERMOSTATS SHALL NOT BE LOCATED BEHIND DOORS, RELOCATE EXISTING IF NEEDED.
- EXISTING FIRE SPRINKLER HEADS SHALL REMAIN, U.N.O. RELOCATE AS NEEDED PER NEW PLAN. COORDINATE WITH VENDOR/SUB-CONTRACTOR FOR LAYOUT.
- PATCH ALL ABANDONED TAPS, HOLES OR LEAKING JOINTS IN DUCTWORK.
- IF EXISTING, MODIFY FIRE ALARM SYSTEM PER CODE.
- EMERGENCY LIGHTING AND EXIT SIGNAGE SHALL BE PROVIDED BY LIFE SAFETY GENERATOR/BATTERY PACK.
- REFERENCE MEP DRAWING IN CONJUNCTION WITH ARCHITECTURAL PLANS AND COORDINATE WORK TO INCLUDE REQUIREMENTS OF BOTH DISCIPLINES. NOTIFY ARCHITECT OF ANY CONFLICTS OR CONTRADICTIONS PRIOR TO INSTALLATION. ANY WORK DONE PRIOR TO CLARIFICATION THAT RESULTS IN THE NEED FOR MODIFICATION WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT.

KEY NOTES

- R1. NOT USED.

LEGEND

[ALL SYMBOLS MAY NOT APPLY]
*EXISTING ITEMS ARE SCREENED (GRAYED OUT). ALL OTHERS ARE NEW/RELOCATED

GENERAL

- NOT IN CONTRACT
- DEMISING PARTITION AND/OR NEW PARTITION/HEADER TO DECK WITH SOUND INSULATION
- NEW PARTITION/HEADER TO DECK
- REVISION MARK
REVISION CLOUD

REFLECTED CEILING

- CEILING GRID
DARK - MAIN TEE
- OPEN CEILING
- GYP. CEILING
- PROJECTION SCREEN
- LIGHT FIXTURE TYPE SWITCHING MARK
- DAYLIGHT ZONE
- EMERGENCY LIGHT
OR
- EXIT SIGN, SINGLE/DOUBLE FACE (ARROWS INDICATE DIRECTION OF EXIT)
- CEILING HEIGHT
X' - X"
- ALIGN NEW AND EXISTING CEILINGS
ALIGN

CEILING ELECTRICAL

- J-BOX IN CEILING
- CEILING MOUNTED DUPLEX
- CEILING MOUNTED TV OUTLET
- OCCUPANCY SENSOR
- LOW VOLTAGE
- 3-WAY OCCUPANT SENSOR
- PROJECTION SCREEN
- DIMMER W/ SLIDE
- STANDARD SWITCH
- CEILING MOUNTED DAYLIGHT SENSOR
- CEILING MOUNTED OCCUPANT SENSOR

PREPARED BY: VF PM: ES CHECKED BY: ES