

IFE SAFETY SITE PLAN

30,770 SQ. FT. TOTAL BUILDING

# Upfit For: Clemson Vape Shop

1376 Tiger Boulevard Suite 116, Clemson SC, 29621

	IN	DEX	OF DRAWINGS
REVISION NUMBER	ISSUE DATE	SHEET NUMBER	SHEET DESCRIPTION
GENERAL			
0	06/25/25	COVER	COVER SHEET
0	06/25/25	NIOO	CODE REVIEW
0	06/25/25	NIOI	UL FIRE RATED ASSEMBLIES
0	06/25/25	NI02	UL FIRE RATED ASSEMBLIES
0	06/25/25	NIO3	UL FIRE RATED ASSEMBLIES
0	06/25/25	LS100	LIFE SAFETY PLAN
0	06/25/25	D100	DEMOLITION PLAN
ARCHITEC	TURAL		
0	06/25/25	A100	FLOOR PLAN & DOOR SCHEDULE
0	06/25/25	Allo	REFLECTED CEILING PLAN
0	06/25/25	A300	BUILDING SECTIONS
0	06/25/25	A400	WALL SECTIONS
0	06/25/25	A500	ENLARGED TOILET PLANS & INTERIOR ELEVATIONS
ELECTRIC	AL		
0	06/05/25	O	ELECTRICAL SCHEDULES & NOTES
0	06/05/25	Ī	ELECTRICAL COMPLIANCE CERTIFICATE
0	06/05/25	E2	ELECTRICAL PLANS

### GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY PERMITS, INSPECTIONS, AND FEES AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR SHALL THROUGHOUT CONSTRUCTION OPERATIONS COMPLY WITH APPLICABLE BUILDING CODES AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: INTERNATIONAL BUILDING CODE 2021 EDITION, OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION TITLE 29, CODE OF FEDERAL REGULATIONS PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION NFPA IOI LIFE SAFETY CODE
- PROTECT EXISTING FACILITIES THAT ARE TO REMAIN IN PLACE THAT ARE TO BE RE-USED, OR THAT REMAIN THE PROPERTY OF THE OWNER USING TEMPORARY COVERS, SHORING, BRACING AND SUPPORTS. REPAIR TO ORIGINAL CONDITION OR REPLACE WITH NEW THOSE ITEMS DESIGNATED TO REMAIN OR TO BE RE-USED THAT ARE DAMAGED DURING THE PERFORMANCE OF THE WORK. PROVIDE NEW SUPPORTS, BRACES, OR REINFORCEMENT FOR FACILITIES WEAKENED DURING REMOVAL WORK.
- . WHEN REMOVAL OR ABANDONMENT WORK REQUIRES THE DISRUPTION OR INTERRUPTION OF SERVICE OR DISCONNECTION OF A SERVICE CONNECTION, COORDINATE SUCH WORK WITH THE OWNERS DESIGNATED REPRESENTATIVE TO ENSURE THAT PROPER MEASURES ARE TAKEN TO PROTECT THE UTILITY FROM DAMAGE.
- REMOVE FROM THE PROJECT SITE MATERIALS, RUBBISH AND OTHER DEBRIS RESULTING FROM THE REQUIREMENTS REGARDING HAULING AND DISPOSAL. BURNING DEBRIS AND RUBBISH ON OWNER'S PROPERTY WILL NOT BE PERMITTED. THE BURNING OR INCINERATION OF RUBBISH SUCH AS CONSTRUCTION DEBRIS, BRUSH, OR TREES IS PROHIBITED. THE USE OF THE PROPERTY OWNER'S DUMPSTERS IS PROHIBITED FOR CONSTRUCTION DEBRIS. COORDINATE WITH OWNERS' REP FOR PLACEMENT OF A ROLLOFF CONTAINER
- 6. DEMOLITION OPERATIONS SHALL BE CONDUCTED TO ENSURE THE SAFE PASSAGE OF THE PERSONS TO AND FROM FACILITIES OCCUPIED AND USED BY THE OTHER TENANTS AND TO PREVENT DAMAGE TO ADJACENT BUILDINGS, STRUCTURES AND OTHER FACILITIES. DEMOLITION OPERATIONS SHALL BE IN ACCORDANCE WITH LOCAL ORDINANCES.
- ALL UNOBSTRUCTED MEANS OF EGRESS IN ACCORDANCE WITH NFPA IOI, @LIFE SAFETY CODE SHALL BE MAINTAINED AT ALL TIMES FOR USE BY CONSTRUCTION WORKERS.
- 8. THE SUITABILITY, DISTRIBUTION AND MAINTENANCE OF PORTABLE FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH LOCAL CODE OFFICIAL.
- 9. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS WHICH AFFECT NEW WORK AND NOTIFY THE ARCHITECT IF CONDITIONS ARE DISCOVERED THAT WILL IMPACT THE INSTALLATION AS SHOWN ON DRAWINGS.
- 10. WORKMANSHIP CONTEMPLATED UNDER THIS WORK SHALL BE FIRST CLASS IN EVERY RESPECT. SURFACES, MEMBERS, FRAMES AND UNITS SHALL BE TRUE, EVEN AND IN ALIGNMENT. FINISHES SHALL BE FREE FROM CHIPS DENTS OR OTHER IMPERFECTIONS.
- II. CONTRACTOR TO COORDINATE ALL WORK WITH OTHER DISCIPLINE DRAWINGS.

### DESCRIPTION OF WORK

- LEVEL 3 ALTERATION:
- CHANGE OF OCCUPANCY (BUSINESS "B" TO MERCANTILE "M")
- NEW 2-HR RATED FIRE BARRIER AT TENANT SPACE
- NEW 2-HR RATED FIRE WALLS & CEILING ASSEMBLY SELECTIVE DEMOLITION
- NEW INTERIOR FINISHES
- NEW & RE-WORK OF EXISTING POWER (EXISTING ELECTRICAL SERVICE)
- NEW LIGHTING

OCCUPANCY GROUP

NEW EMERGENCY LIGHTING NEW PLUMBING FIXTURE ON EXISTING PLUMBING LINE

REWORK OF EXISTING MECHANICAL DIFFUSERS (EXISTING HVAC UNITS TO REMAIN)

MERCANTILE "M" CHANGE OF USE FROM BUSINESS "B" TO MERCANTILE "M".

SEE LSIOO FOR ADDITIONAL INFORMATION

### CODE EDITIONS

☐ Addition

Alteration

SOUTH CAROLINA FUEL GAS CODE 2021

SOUTH CAROLINA FIRE CODE 2021

REGULATION 19-400 AS ESTABLISHED BY SC LAW SECTION 10-5-210

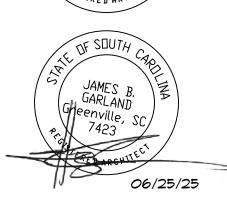
INTERNATIONAL ENERGY CONSERVATION CODE 2009 W/ ASHRAE / IES 90.1 - 2007

SPARTANBURG, SC 2 9 3 0 3 8 6 4 . 5 8 5 . 4 0 1 4 PSI-DESIGNBUILD.COM



PROPERTY OF PSi DESIGN AND ITS ASSIGNS AND MAY NOT BE EXPRESSED CONSENT OF THE ARCHITECT. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO CONVEY DESIGN INTENT ONLY. ACTUAL FIELD CONDITIONS MAY VARY. ARCHITECT SHALL BE NOTIFIED OF DISCREPANCIES.





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DATE • 06/25/25

SCALE AS NOTED

JOB NO. **■ 25 - 1526** DRAWN AMS

CHECK • JBG REVISIONS NO. O DATE 06/25/25

ISSUED FOR CONSTR.

**COVER SHEET** 

NORTH

YEAR EDITION OF CODE: 2021 International Existing Building Code - SOUTH CAROLINA EDITION

New Construction

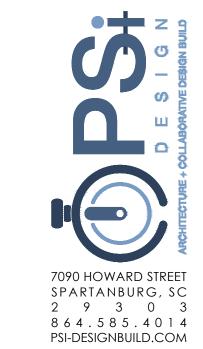
SOUTH CAROLINA EXISTING BUILDING CODE 2021 EDITION SOUTH CAROLINA INTERNATIONAL BUILDING CODE 2021 EDITION SOUTH CAROLINA PLUMBING CODE & INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE 2021 SOUTH CAROLINA MECHANICAL CODE 2021

NATIONAL ELECTRICAL CODE, NFPA 20 2020 NATIONAL ELECTRICAL CODE ICC/ANSI AIIT.I 2017 SC BARRIER FREE BUILDING DESIGN STANDARD

			CODE REVIE	:M	
Address: Proposed Use:	CLEMSON VAPE SHOP  1376 TIGER BOULEVARD, C  MERCANTILE TENANT SPAC  zed Agent: BRYAN TYSON	Œ			Phone # <u>864.940.40</u> 15
Code Enforcemen	nt Jurisdiction:	□City/Cou	nty ■City _	CLEMSON	□ County
LEAD DESIGN PRODESIGNER Architectural:	OFESSIONAL: James B. Go FIRM PSI DESIGN	irland, AIA NCARB	NAME James B. Garland	LICENSE # 7423	TELEPHONE # (864) 423-9003
Civil: Electrical: Fire Protect:	BIRCH CONSULTING S	SERVICES _	Randall K. Birch	18298	(864) 576-0339
Plumbing: Mechanical: Sprinkler-Standpip	pe:				
Structural: Retaining Walls >5' High: Other:					
YEAR EDITION OF  New Constru Alteration Addition		-	Level 3		
BUILDING DATA Construction Type	:	☐ I-B ☐ V-A ction:	<ul><li> II-A</li><li> V-B</li><li> No</li></ul>	-B     ■ Yes	-A 🔲 III-B
Sprinklers: Standpipes: Fire District: Building Height: Mezzanine:	<ul> <li>No</li></ul>	□ NFP. Class □ I  Numb		□ Types □ Wet □ NFPA 13D  Dry □ Unlimited per	
High Rise:	■ No Yes	Cen	tral Reference Sheet # (if pi	rovided) <u>LSIOO</u>	
GROSS BUILI BUILDING TENANT A	AREA		30,770 SQ. 1 1,955 SQ. FT.		
LIFE SAFETY SYS	STEM REQUIREMENTS				
Emergency Lightin Exit Signs: Fire Alarm: Smoke Detection	g: [ [	NO	ES MANUAL FIRE ALARM NO BOTH "B" & "M" (500 0)		BUSINESS), 907.2.7 (MERCANTILE)
Panic Hardware:	-	NOYE			

2. Not libed 3. Minimum width of exit passagency (Section 1020.2) 4. Minimum width of exit passagency (Section 1024.2) 5. Minimum abor width (Section 1020.11) 6. The loss of nor means of agrees shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.5) 7. See Section 10094 for Assembly Occupancies  BUILDING AND TENANT OCCUPANCY  Primary Occupancy Assembly A-I A-2 A-3 A-4 A-5 Besiness Balacational Pactory-Industrial III F-2 Besiness Balacational Pactory-Industrial III F-2 Institutional III III III III III III III III III I		NUMBER	EXIT RI R AND AR	EQUIREMI RANGEM		EXITS			
SECTION IOSE  ON PLANS	•	,		TRAVI	EL DISTANCE <sup>28</sup>	3			ANS OF
				ACCESS TR	AVEL CE C	TRAVEL DISTANCE SHOWN ON	DISTANCE BETWEEN EXIT DOORS		DISTANCE SHOWN ON
2. See Table (2062) for Spaces Hith foil (one Ethi Access Doorway Common Path Of Travel Distance Requirements 4. See Section (2011) for Ethi Access Doorway Configuration Requirements 4. See Section (2011) for Ethi Access Doorway Configuration Requirements 4. See Section (2011) for Ethi Access Doorway Configuration Requirements  INEL SECUP.  (A) (B) (C) EXT MIDTH (N) 3-455.75  AREA I ESSESS HIDTH SECURED MIDTH MIDTH SECURED MIDTH SECURED MIDTH SECURED MIDTH SECURED MIDTH SECURED MIDTH SEC	·	2   200'-0"   *SEE LSIOO   *SEE							SEE LSIOO
ASPACE   AREA   AREA   SACE   PERSONNELL MIDTH	<ol> <li>See Table 1006.2.1 for S</li> <li>See Table 1017.2 for Alla</li> <li>See Section 1007.1 for E</li> </ol>	paces With Only One Exit Acc pwable Exit Access Travel Di xit Access Doorway Configur	ess Doorway Comr stances ation Requirements	mon Path Of Trav	el Distance Rec	quirements	EXIT WIDTH (in)	3,4,5	56.78
### DILLDING*   30,772   19EE 19100   - 02	OR SPACE	'	PER OCCUPANT	PER (SEC	R OCCUPANT	(SECT	ION 1005.3)		
ENANT				STAIR		STAIR	LEVEL	STAIR	LEVEL
2. Not lived 3. Minimum multith of exitin (2002) 4. Minimum width of exitin passageway (Section (2012) 5. Minimum abore width (Section (2011)) 6. The lose of nor means of agrees shall not reduce the available capacity to less than 50 percent of the total required (Section (2035)) 7. See Section (2024 for Assembly Coupanales  BUILDING AND TENANT OCCUPANCY  Primary Occupancy:    Assembly   A-I   A-2   A-3   A-4   A-5     Business   Educational   Footony-Industrial   F-I   F-2     Business   Educational   Footony-Industrial   F-I   F-2     Institutional   I-I   I-2   I-3   I-4     I-3 like Condition   I-2   I-3   I-4     I-3 like Condition   I-2   I-3   I-4     Skorage   S-I   S-2   I-4   R-2   R-3   R-4     Skorage   S-I   S-2   I-4   R-2   R-3   R-4     Skorage   S-I   S-2   I-4   R-2   R-3   R-4     Skorage   Section 420 (Group R-2)     Mixed Occupancy:   Sec				-		-	-	-	<u>-</u>
Business   Educational   Factory-Industrial   F-I   F-2   H-4   H-5   High-Hazard   H-I   H-2   H-3   H-4   H-5   H-5   H-5   H-4   H-5	7. See Section 1005.6 for co	egress shall not reduce the onverging exits.	available capacity	to less than 50 p	percent of the t	otal required	(Section 1005.5)		
High-Hazard	7. See Section 1005.6 for col 8. See Section 1029 for Asse	egress shall not reduce the anverging exits. Embly Occupancies BUIL	DING AND T	ENANT OC					<b>7</b> 4. E
Institutional   I-I   I-2   I-3   I-4   I-5   I-5   I-4   I-5	7. See Section 1005.6 for col 8. See Section 1029 for Asse Primary Occupancy:	egress shall not reduce the onverging exits. embly Occupancies  BUIL  Assembly	DING AND T	ENANT OC		A-3	☐ A-4		<u>_</u> A-5
I-3 Use Condition	7. See Section 1005.6 for con 8. See Section 1029 for Asse Primary Occupancy:	egress shall not reduce the anverging exits.  Embly Occupancies  BUIL  Assembly  Educational	DING AND T □ A-1 □ Factory-Industr	ENANT OCI —A-2  ial		A-3 F-I	☐ A-4 ☐ F-2		_A-5
Mercantile   Residential   R-I   R-2   R-3   R-4     Storage   S-I   S-2   High-piled   Repair     Utility and Miscellaneous   Parking Garage   Open   Enclosed     Secondary Occupancy:   TB' & S-I'     Special Occupancy:   Section 420 (Group R-2)     Mixed Occupancy:   No   Yes   Separation: 2-HOUR   Exception:     Non-Separated Mixed Occupancy (508.3)     The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.     Separated Mixed Occupancy (508.4) See Life Safety Plan & Code Summary for Calculations Related Separate Occupancy Types     For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable     Floor area for each use shall not exceed I. (508.4.2)	7. See Section 1005.6 for con 8. See Section 1029 for Asse Primary Occupancy:  Business  High-Hazard	egress shall not reduce the anverging exits.  Embly Occupancies  BUIL  Assembly  Educational  H-1	DING AND T □ A-1 □ Factory-Industr □ H-2	ENANT OCI —A-2 ial — H-3		☐ A-3 ☐ F-I ☐ H-4	☐ A-4 ☐ F-2		_A-5
Utility and Miscellaneous   Parking Garage   Open   Enclosed	7. See Section 1005.6 for con B. See Section 1029 for Asse Primary Occupancy:  Business  High-Hazard	egress shall not reduce the anverging exits.  Embly Occupancies  BUIL  Assembly  Educational  H-I  I-I	DING AND T  A-1  Factory-Industr  H-2  1-2	ENANT <i>OCI</i> —A-2  ial  — H-3  — 1-3	CUPANCY	A-3   F-1   H-4    -4	☐ A-4 ☐ F-2		_A-5
Secondary Occupancy:B" & "S-1"	7. See Section 1005.6 for col 8. See Section 1029 for Asse Primary Occupancy:  Business High-Hazard Institutional	egress shall not reduce the anverging exits.  Embly Occupancies  BUIL  Assembly  Educational  H-I  I-3 Use Condition	DING AND T  A-1  Factory-Industr  H-2  1-2	ENANT OCI	CUPANCY	A-3   F-1   H-4   I-4	☐ A-4 ☐ F-2		_A-5
Special Occupancy: Section 420 (Group R-2)  Mixed Occupancy: No Separation: 2-HOUR Exception:  Non-Separated Mixed Occupancy (508.3)  The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.  Separated Mixed Occupancy (508.4) See Life Safety Plan & Code Summary for Calculations Related Separate Occupancy Types  For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed I. (508.4.2)  PLUMBING FIXTURE REQUIREMENTS (PER TABLE 2402.1)  OCCUPANCY  WATERCLOSETS  LAVATORIES  SHOWERS/  TUBS  REGULAR ACCESSIBLE  I PER 1000  I SERVICE S	7. See Section 1005.6 for con 8. See Section 1029 for Asse Primary Occupancy:  Business High-Hazard Institutional  Mercantile	egress shall not reduce the anverging exits.  Embly Occupancies  BUIL  Assembly  Educational  H-I  I-3 Use Condition  Residential	DING AND T  A-1  Factory-Industr  H-2  1-2  R-1	ENANT OC	CUPANCY	A-3   F-1   H-4   I-4	☐ A-4 ☐ F-2 ☐ H-5		<u></u> A-5
Mixed Occupancy: No Yes Separation: 2-HOUR Exception:  Non-Separated Mixed Occupancy (508.3)  The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.  Separated Mixed Occupancy (508.4) See Life Safety Plan & Code Summary for Calculations Related Separate Occupancy Types  For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed I. (508.4.2)  PLUMBING FIXTURE REQUIREMENTS (PER TABLE 2902.1)  OCCUPANCY  WATERCLOSETS  LAVATORIES  SHOWERS/  TUBS  REGULAR ACCESSIBLE  I PER 500   PER 500   PER 500   PER 750   PER 750   PER 750   PER 750   PER 1000   I   SERVICE S	7. See Section 1005.6 for cons. 8. See Section 1029 for Assemble Primary Occupancy:  Business High-Hazard Institutional  Mercantile Storage Utility and Misce	egress shall not reduce the anverging exits.  Embly Occupancies  BUIL  Assembly  Educational  H-I  I-3 Use Condition  Residential  S-I  ellaneous	DING AND T  A-1  Factory-Industr  H-2  I-2  R-1  R-1	ENANT OCI	CUPANCY	A-3   F-1   H-4   1-4   4   R-4	☐ A-4 ☐ F-2 ☐ H-5		_A-5
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.  Separated Mixed Occupancy (508.4) See Life Safety Plan & Code Summary for Calculations Related Separate Occupancy Types  For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed I. (508.4.2)  PLUMBING FIXTURE REQUIREMENTS (PER TABLE 2402.1)  OCCUPANCY  WATERCLOSETS  LAVATORIES  SHOWERS/  DRINKING FOUNTAINS  SERVICE S  REGULAR ACCESSIBLE  [BASED ON 22 OL)  I PER 500   PER 500   PER 750   PER 750   PER 750   PER 150   PER 150   PER 1000     I SERVICE S	7. See Section 1005.6 for con 8. See Section 1029 for Asses  Primary Occupancy:  Business  High-Hazard  Institutional  Mercantile  Storage  Utility and Misce Secondary Occupancy:	egress shall not reduce the anverging exits.  Embly Occupancies  BUIL  Assembly  Educational  H-I  I-3 Use Condition  Residential  S-I  ellaneous  "B" & "S-I"	DING AND T  A-I  Factory-Industr  H-2  I-2  R-I  S-2  Parking Garage	ENANT OCI	CUPANCY	A-3   F-1   H-4   1-4   4   R-4	☐ A-4 ☐ F-2 ☐ H-5		_A-5
OCCUPANCY  WATERCLOSETS  LAVATORIES  SHOWERS/ TUBS  REGULAR  ACCESSIBLE  I PER 500   PER 500   PER 750   PER 750   PER 750   PER 750   PER 1000   I   SERVICE S	7. See Section 1005.6 for cons. 8. See Section 1029 for Asses. Primary Occupancy: Business High-Hazard Institutional Mercantile Storage Utility and Misce. Secondary Occupancy: Special Occupancy: Mixed Occupancy:	egress shall not reduce the anverging exits.  Embly Occupancies  BUIL  Assembly  Educational  H-I  I-3 Use Condition  Residential  S-I  ellaneous  "B" & "S-I"  Section 420 (Group  No	DING AND T  A-I  Factory-Industr  H-2  I-2  R-I  S-2  Parking Garage  R-2)	ENANT OCI A-2 ial H-3 1-3 2 R-2 High-pi Open	CUPANCY  3  R-3	A-3   F-1   H-4   1-4   4   R-4	☐ A-4 ☐ F-2 ☐ H-5		
MERCANTILE "M"  MALE FEMALE MALE FEMALE  (BASED ON 22 OL)  MALE FEMALE MALE FEMALE  I PER 500   PER 500   PER 750   PER 750   PER 750   PER 1000   I   SERVICE S	7. See Section 1005.6 for cons. See Section 1029 for Asses  Primary Occupancy:  Business High-Hazard Institutional  Mercantile Storage Utility and Misces Secondary Occupancy: Special Occupancy: Mixed Occupancy:  Non-Separated The required ty occupancies to Separated Mixes	egress shall not reduce the anverging exits.  Embly Occupancies  BUIL  Assembly  Educational  H-I  I-3 Use Condition  Residential  S-I  ellaneous  "B" & "S-I"  Section 420 (Group  No  Mixed Occupancy (508.3)  uppe of construction for the building. The most ed Occupancy (508.4) See L.  the area of the occupancy services.	DING AND T  A-I  Factory-Industr  H-2  I-2  R-I  S-2  Parking Garage  R-2)  es Se  wilding shall be deta t restrictive type of the shall be such that the	ENANT OCI  A-2  ial  H-3  1-3  R-2  R-2  High-pi  Open  exparation: 2-HOL  extension applying the construction, so the construction, so the code Summary for	CUPANCY  3  R-3  led  R  or determined, she  Calculations Re	A-3 F-1 H-4 I-4 R-4 Enclose Exception and area limitationall apply to the	A-4  F-2  H-5  Repaired  I:  ions for each of the entire building.  te Occupancy Type	he applical	ble
MERCANTILE "M"  MALE FEMALE MALE FEMALE  (BASED ON 22 OL)  I PER 500   PER 500   PER 750   PER 750   PER 750   PER 1000   I   SERVICE S	7. See Section 1005.6 for cons. See Section 1029 for Asses  Primary Occupancy:  Business High-Hazard Institutional  Mercantile Storage Utility and Misces Secondary Occupancy: Special Occupancy: Mixed Occupancy:  Non-Separated The required ty occupancies to Separated Mixes	egress shall not reduce the anverging exits.  Embly Occupancies  BUIL  Assembly  Educational  H-I  I-3 Use Condition  Residential  S-I  ellaneous  "B" \$ "S-I"  Section 420 (Group  No  Mixed Occupancy (508.3)  upe of construction for the ball the entire building. The most ed Occupancy (508.4) See L.  the area of the occupancy each use shall not exceed I.	DING AND T A-I Factory-Industr H-2 I-2 R-I S-2 Parking Garage R-2) es Se wilding shall be deta to restrictive type of the shall be such that to (508.4.2)	ENANT OCA    A-2   ial   H-3   1-3   2   R-2   High-pi   Open   Open   of construction, so ode Summary for the sum of the rate	CUPANCY  3  R-3  led  R  a determined, sh  Calculations Resions of the actual	A-3  F-1  H-4  A-3  F-1  H-4  A-3  F-1  H-4  A-3  Indexination of the selection of the sele	A-4  F-2  H-5  Repaired  I:  Ions for each of the entire building.  Ite Occupancy Type of each use divide	he applical	ble
	7. See Section 1005.6 for content of the section 1029 for Asset See Section 1029 for Asset See Section 1029 for Asset Secondary Occupancy:  Special Occupancy:  Special Occupancy:  Mixed Occupancy:  Non-Separated The required ty occupancies to Separated Mixed For each story, floor area for	egress shall not reduce the anverging exits.  Embly Occupancies  BUIL  Assembly  Educational  H-I  I-3 Use Condition  Residential  S-I  ellaneous  "B" & "S-I"  Section 420 (Group  No  Mixed Occupancy (508.3)  upe of construction for the ball the entire building. The most ed Occupancy (508.4) See L.  the area of the occupancy each use shall not exceed I.  PLUM  WATERCLOSETS	DING AND T  A-I  Factory-Industr  H-2  I-2  R-I  S-2  Parking Garage  R-2)  es Se  viliding shall be deta t restrictive type of shall be such that to (508.4.2)  BING FIXTUR  LAV	ENANT OCI  A-2  ial  H-3  1-3  2  R-2  High-pi Open  eparation: 2-HOL  ermined by applyi of construction, so ode Summary for he sum of the rat	CUPANCY  3  R-3  led  R  Adetermined, she calculations Resions of the actual showers of the actual showers.	A-3  F-1  H-4  H-4  R-4  Enclose  Exception  and area limitationall apply to the elated Separation and alfoor area  (PER TABLE 29)	A-4  F-2  H-5  Repaired  Repaired  Cocupancy Type of each use divided  RO2.1)  RINKING FOUNTAIN	he applical es ed by the a	ble allowable
	7. See Section 1005.6 for contents. See Section 1029 for Asset Business    High-Hazard   Institutional     Mercantile   Storage   Utility and Miscet Secondary Occupancy: Special Occupancy: Mixed Occupancy:   Non-Separated   The required ty occupancies to   Separated Mixed For each story   floor area for    OCCUPANCY	egress shall not reduce the anverging exits.  BUIL  Assembly  Educational  H-I  I-I  I-3 Use Condition  Residential  S-I  Ellaneous  "B" & "S-I"  Section 420 (Group  No  Mixed Occupancy (508.3)  Appe of construction for the ball the entire building. The most ed Occupancy (508.4) See Land the area of the occupancy seach use shall not exceed I.  WATERCLOSETS  MALE  FEMA	DING AND T  A-I  Factory-Industr  H-2  I-2  R-I  S-2  Parking Garage  R-2)  es Se  Alding shall be deta  the restrictive type of the shall be such that the (508.4.2)  BING FIXTUR  LAV  LE MALE	ENANT OCA    A-2     I-3     I-3     R-2     High-pi     Open     Open	CUPANCY  3  R-3  led  R  Adetermined, she calculations Resions of the actual showers of the actual showers.	A-3  F-1  H-4  1-4  R-4  Enclose  Exception  and area limitationall apply to the elated Separation and floor area  (PER TABLE 20)  REGUI	A-4  F-2  H-5  Repaired  Repaired  Cocupancy Type of each use divided  RINKING FOUNTAIN  ACCES	he applicates es ed by the a	ble allowable SERVICE S
	Primary Occupancy:  Business High-Hazard Institutional  Mercantile Storage Utility and Misce Secondary Occupancy: Special Occupancy: Mixed Occupancy:  Non-Separated The required ty occupancies to Separated Mixe For each story floor area for	egress shall not reduce the anverging exits.  BUIL  Assembly  Educational  H-I  I-I  I-3 Use Condition  Residential  S-I  Ellaneous  "B" & "S-I"  Section 420 (Group  No  Mixed Occupancy (508.3)  Appe of construction for the ball the entire building. The most ed Occupancy (508.4) See Land the area of the occupancy seach use shall not exceed I.  WATERCLOSETS  MALE  FEMA	DING AND T  A-I  Factory-Industr  H-2  I-2  Parking Garage  R-2)  es Se  Alding shall be detected to restrictive type of the such that to (508.4.2)  BING FIXTUR  LAV  LE MALE  500 I PER 750	ENANT OCA    A-2     I-3     I-3     R-2     High-pi     Open     Open	CUPANCY  3  R-3  led  R  Adetermined, she calculations Resions of the actual showers of the actual showers.	A-3  F-1  H-4  1-4  R-4  Enclose  Exception  and area limitationall apply to the elated Separation and floor area  (PER TABLE 20)  REGUI	A-4  F-2  H-5  Repair  ed  I:  Ions for each of the entire building.  Ite Occupancy Type of each use divide  AO2.I)  RINKING FOUNTAIN  LAR ACCES  IOOO I	he applicates es ed by the constitutions	ble allowable SERVICE S

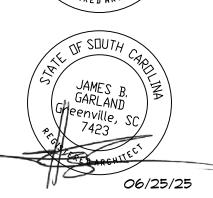
\* DUAL HEIGHT SINGLE UNIT





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OF DISCREPANCIES.





# Upfit For: Clemson Vape Shop 1376 Tiger Boulevard Suite 116 Clemson, SC 29631

DATE • 06/25/25 SCALE • AS NOTED JOB NO. **25 - 1526** DRAWN AMS

CHECK • JBG REVISIONS no. **0** date **06/25/25** 

ISSUED FOR CONSTR. NO. DATE

NO. DATE

NO. DATE

CODE REVIEW



Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
   Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance
- when field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials

Only products which bear UL's Mark are considered Certified.

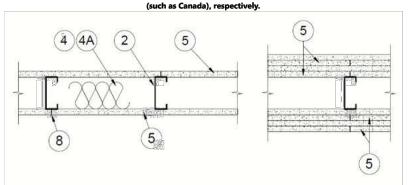
BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U419

February 13, 2025

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J)
\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification



2H. Framing Members\* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal

thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

21. Framing Members\* — Steel Studs —

TELLING INDUSTRIES L L C — TRUE-STUD™

2J. Framing Members\* — Metal Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

EB METAL INC — NITROSTUD

2L. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members\*** — **Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2N. **Framing Members\*— Steel Studs** — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.

2O. **Framing Members\*** — **Steel Studs** — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max. **RONDO BUILDING SERVICES PTY LTD** — Rondo Lipned Wall Stud

2P. Framing Members\* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.

2Q. **Framing Members\*** — **Steel Studs** — Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

2R. Framing Members\* — Steel Studs — (Not Shown — Alternate to Item 2, For use with Item 1P) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1P). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

5J. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. **Gypsum Board\*** — (As an alternate to Item 5 when Foam Plastic insulation (Items 4C or 4D) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Single layer system with Type ULIX: 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in. from in 6 in. from 1/2 in. thick panels, spaced 24 in. OC. Second 1/2 in. thick panels, spaced 24 in. OC. Second 1/2 in. thick panels, spaced 24 in. OC. Second 1/2 in. thick panels, spaced 24 in. OC. Second 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 1/2 in. OC. Second 1/2 in. OC. Second 1/2 in. OC. S

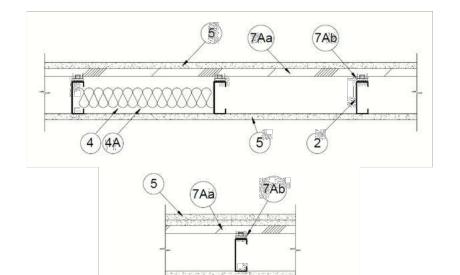
7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Items 5B, 5E, 5H, or 5J.

7A. Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5.B, 5E, 5H, or 5J.

b. **Steel Framing Members\*** — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. **PAC INTERNATIONAL L.L. C.** — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. Framing Members\* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring



1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in.

1A. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CEMCO, LLC — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

1B. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Studs 3-5/8" and 6".

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1C. Framing Members\* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV - Type SUPREME D24/30EQD and Type SUPREME D20

HYPERFRAME INC— Hyperstud

fasteners spaced 24 in. OC max.

25. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1Q, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

2T. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1R, proprietary channel shaped steelstuds, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

IRONLINE METALS LLC — Bantam Stud.

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

Batts and Blankets\* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.
 See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4A. Batts and Blankets\* — (Optional – as an alternate to item 4) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ). **AMERICAN ROCKWOOL MANUFACTURING, LLC** — Type Rockwool Premium Plus

48. Fiber, Sprayed\* — (Optional – as an alternate for items 4 or 4A, for use with Type ULIX) Where insulation is required - Spray

4C. Foamed Plastic\* — (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4D. **Foamed Plastic\*** — (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Walltite® XL, Walltite® MAX, Walltite® LWP, Walltite® Plus and Enertite® Max

5. **Gypsum Board\*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite

channels as described in Item 5. Not for use with Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

b. Steel Framing Members\* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members\*** — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5.8 5F 5H or 51

b. **Steel Framing Members\*** — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. **PLITEQ INC** — Type GENIECLIP

7D. Steel Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

b. **Steel Framing Members\*** — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips **STUDCO BUILDING SYSTEMS** — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. Steel Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized

steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

b. **Steel Framing Members\*** — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. **REGUPOL AMERICA** — Type SonusClip

7F. **Steel Framing Members\*** — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:

a. **Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 6. Not for

b. **Steel Framing Members\*** — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. **KEENE BUILDING PRODUCTS CO INC** — Type RC+ Assurance Clip

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. **Floor and Ceiling Runners** — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. Framing Members\* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. **Framing Members\*** — **Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. **SUPER STUD BUILDING PRODUCTS** — The Edge

1G. Framing Members\* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.

STUDIO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20<sup>TM</sup> Track VT100

11. **Framing Members\*** — **Floor and Ceiling Runners** — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

1J. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall											
Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)								
1	3-1/2	1 layer, 5/8 in. thick	Optional								
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.								
1	1-5/8	1 layer, 3/4 in. thick	Optional								
2	1-5/8	2 layers, 1/2 in. thick	Optional								
2	1-5/8	2 layers, 5/8 in. thick	Optional								
2	3-1/2	1 layer, 3/4 in. thick	3 in.								
3	1-5/8	3 layers, 1/2 in. thick	Optional								
3	1-5/8	2 layers, 3/4 in. thick	Optional								
3	1-5/8	3 layers, 5/8 in. thick	Optional								
4	1-5/8	4 layers, 5/8 in. thick	Optional								
4	1-5/8	4 layers, 1/2 in. thick	Optional								
4	2-1/2	2 layers, 3/4 in. thick	2 in.								

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in.

thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR: 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC

When Item 7B, Steel Framing Members\*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board\*** — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

UNITED STATES GYPSUM CO — Type AS

5B. **Gypsum Board\*** — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A. (not to be used with Item 3) — Nom 5/8 in. or

7G. Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

b. Steel Framing Members\* — Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

7H. Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 58, 5E, 5H, or 5J.

b. **Steel Framing Members\*** —Used to attach furring channels (Item 7Ha) to studs. Clips spaced 48 in. OC. staggered on adjacent furring channels and secured to studs with one No. 8 x 2-1/2 in. screw and washer through the center hole. Furring channels are friction fitted into clips. **ISOTECH INDUSTRIES INC.** — Type ISOSTUD

outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of

9. Saling, Brick or Stucco — (Optional, Not Snown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. Caulking and Sealants\* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for

11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum

11A. **Lead Batten Strips** — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical ioints of lead backed gyosum wallboard and optional at remaining stud locations.

wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

12. **Lead Discs or Tabs** — (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads

shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

11. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel

1L. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

RESCUE METAL FRAMING, L C — AlphaTRAK

1K. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel

1M. Framing Members\* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. Framing Members\* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

OEG BUILDING MATERIALS — OEG Track

10. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.

CEMCO, LLC — Viper X Track

1P. Framing Members\* — Floor and Ceiling Runner — (Not Shown — Alternate to Item 1) — For use with Item 2R, channel shaped runners preequipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.

HYPERFRAME INC - Hypertrack

1Q. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2S, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Tracks 3-5/8" and 6".

1R. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2T, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max

IRONLINE METALS LLC — Bantam Track.

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5,

spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs** — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. Framing Members\* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board\*** — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC — Type SCX, ULIX.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX.

UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

5D. **Gypsum Board\*** — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. **NEW ENGLAND LEAD BURNING CO INC, DBA NELCO** — Nelco

5F. **Gypsum Board\*** — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in. **THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO** — Type SCX

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX, ULIX

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX. SGX

or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs** — (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. **Lead Batten Strips** — (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. Lead Tabs — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.

CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2025-02-13

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CEMCO, LLC — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CEMCO, LLC — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. Framing Members\* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

SUPER STUD BUILDING PRODUCTS — The Edge

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. Framing Members\* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

2F. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

2G. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.

STUDCO BUILDING SYSTEMS — CROCSTUD

5G. **Gypsum Board\*** — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

| No. of Layers | Min Thkns of Insulation | No. of Panel | No. of

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

4 layers, 1/2 in. thick

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or, 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

51. **Gypsum Board\*** — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5. **CGC INC** — Type ULIX, ULX

UNITED STATES GYPSUM CO — Type ULIX, ULX

USG MEXICO S A DE C V — Type ULX

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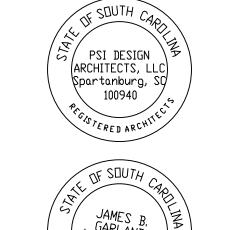
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376 Tiger Boulevard Suite 116 Clemson,

DATE \* 06/25/25

SCALE \* AS NOTED

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DRAWN • AMS

CHECK • JB6

REVISIONS NO. O DATE 06/25/25 ISSUED FOR CONSTR.

NO. DATE

NO. DATE

**V101** 

UL FIRE RATED ASSEMBLIES

2-HOUR INTERIOR WALL SYSTEM

N.T.S. SEE #I/A400 FOR FIRE RATED ENVELOPE ENCLOSURE

DRAWN - AMS CHECK • JBG

REVISIONS NO. O DATE 06/25/25 ISSUED FOR CONSTR.

4B. Gypsum Board\* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) - Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in, long bugle head fine driller) steel screws spaced 8 in, OC at perimeter and 12 in, OC in the field. U.L. DESIGN No. U415 SYSTEM E 2-HOUR NON-BEARING WALL SYSTEM

System F - 2 Hr.

Horizontal Section

System G - 3 Hr.

Horizontal Section

System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the

flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type \$

steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on

adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered

edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer

secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to study with 2-1/4 in. long Type S self-drilling self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to study with 2-1/4 in. long Type S self-drilling self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to study with 2-1/4 in. long Type S self-drilling self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to study with 2-1/4 in. long Type S self-drilling self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to study self-tapping self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to study self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to study self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to study self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to study self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to study self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to study self-tapping self-tapping secured to study self-tapping secured to study secured to study self-tapping secured t

in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long

Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer,

4A. Gypsum Board\* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only)

over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to

studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To

— Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered

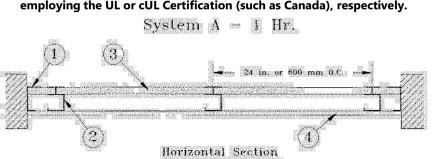
UL Product **iQ**™ BXUV.U415 - Fire-resistance Ratings - ANSI/UL 263 Design/System/Construction/Assembly Usage Disclaimer · Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.

• Authorities Having Jurisdiction should be consulted before construction. • Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field. When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction. Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada ee General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States

Design Criteria and Allowable Variances See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

### Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr Indicates such products shall bear the UL or cUL Certification Mark for jurisdict



Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX.

**USG BORAL DRYWALL SFZ LLC** — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

### System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layer. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizonta Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX,

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

**USG MEXICO S A DE C V** — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

### System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 i long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and i the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep **CGC INC** — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO - Types IP-X3 or ULTRACODE

 ${\bf USG\ BORAL\ DRYWALL\ SFZ\ LLC}-{\bf Type\ ULTRACODE}$ 

**USG MEXICO S A DE C V** — Types IP-X3 or ULTRACODE

### System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

24 in. or 600 mm 0.C. --Horizontal Section System C - 2 Hr. System E - 2 Hr

System B - 2 Hr

in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in, from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

**CGC INC** — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO - Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

**USG MEXICO S A DE C V** — Types IP-X3 or ULTRACODE

RAY-BAR ENGINEERING CORP — Type RB-LBG

be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX. USG BORAL DRYWALL SFZ LLC — Type C

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

### System E — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached t studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX  $\,$ 

 $\textbf{UNITED STATES GYPSUM CO} = 1/2 \text{ in. Types C, IP-X2, IPC-AR; } 5/8 \text{ in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULIX, ULX, USGX, IP-X2, IPC-AR, IP$ 

 $\mbox{\bf USG BORAL DRYWALL SFZ LLC} - 1/2 \mbox{ in. Type C; 5/8 in. Types C, SCX, SGX, USGX}$ 

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

### System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX  $\,$ 

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX,

**USG BORAL DRYWALL SFZ LLC** — 1/2 in. Type C; 5/8 in. Types C, SCX

**USG MEXICO S A DE C V** — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

### System G — 3 Hr

or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. or face layer attached to study with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. crews offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framin Vertical joints centered over studs and staggered 24 in. on adjacent layers. CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

Steel Studs — "C-H" - shaped studs, min 2-1/2 in, deep (min 4 in, deep when System C is used), fabricated from min 25 MSG (min 20 MS when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 2A. Steel Studs — (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs

2B. Furring Channels — (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from mi 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1

in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights

2C. Furring Channels — For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. Steel Framing Members\* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC

furring channels as described in Item 4. b. Steel Framing Members\* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No.  $8 \times 1-1/2$  in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide

perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to

2E. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). lescribed in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized

steel wire.Gypsum board attached to furring channels as described in Item 4. b. **Steel Framing Members\*** — Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. Steel Framing Members\* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to

studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as

b. Steel Framing Members\* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type GENIECLIP

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

PAC INTERNATIONAL L C — Types RSIC-1, RSIC-1 (2.75)

4C. Gypsum Board\* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and

one at the bottom of the strip. MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. Gypsum Board\* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) --- Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over students and square or tapered edges, applied vertically. and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. Joint Tape and Compound — (Not Shown)

### Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted  $when \ gypsum \ boards \ are \ supplied \ with \ square \ edges. \ Exposed \ screw \ heads \ covered \ with \ joint \ compound.$ 6. Batts and Blankets\* —

### Systems A, B, E, F, G, H, I (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m<sup>3</sup>

THERMAFIBER INC — Type SAFB, SAFB FF

 $7. \textbf{ Cementitious Backer Units*} - (System D) - Nom 1/2 \text{ or } 5/8 \text{ in. thick panels, square edge, attached to studs over gypsum wallboard of the students of the studen$ with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a mir of 12 in from the gypsum wallboard joints UNITED STATES GYPSUM CO — Type DCB

8. Laminating Adhesive\* — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies. 9. Lead Batten Strips — (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head

H. Steel Framing Members\* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in, and secured in place with two No. 8 15 x 1/2 in, Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

G. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized

b. Steel Framing Members\* — Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs

with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

steel wire. Gypsum board attached to furring channels as described in Item 4.

REGUPOL AMERICA — Type SonusClip

b. Steel Framing Members\* — Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

21. Steel Framing Members\* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. Steel Framing Members\* — Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. **CLARKDIETRICH BUILDING SYSTEMS** — Type ClarkDietrich Sound Clip

3. Gypsum Board\* — Gypsum liner panels, nom 1 in, thick, 24 in, or 600 mm (for metric spacing) wide, Panels cut 1 in, less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. Gypsum Board\* —

steel screws, one at the top of the strip and one at the bottom of the strip, Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

System A — 1 Hr

9A. Lead Batten Strips — (Not Shown, for use with Item 4C) — Lead batten strips, 2 in, wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".. Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. Lead Discs — (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. Lead Batten Strips — (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in, wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

 $12. \textbf{ Lead Tabs} \ - \text{(Not Shown, For Use With Item 4B)} \ - 2 \text{ in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front leads of 0.142 in.} \\$ face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

### \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

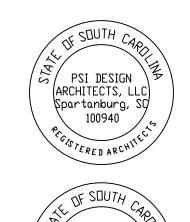
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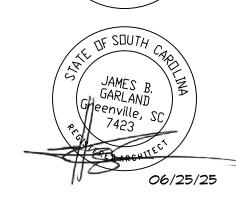
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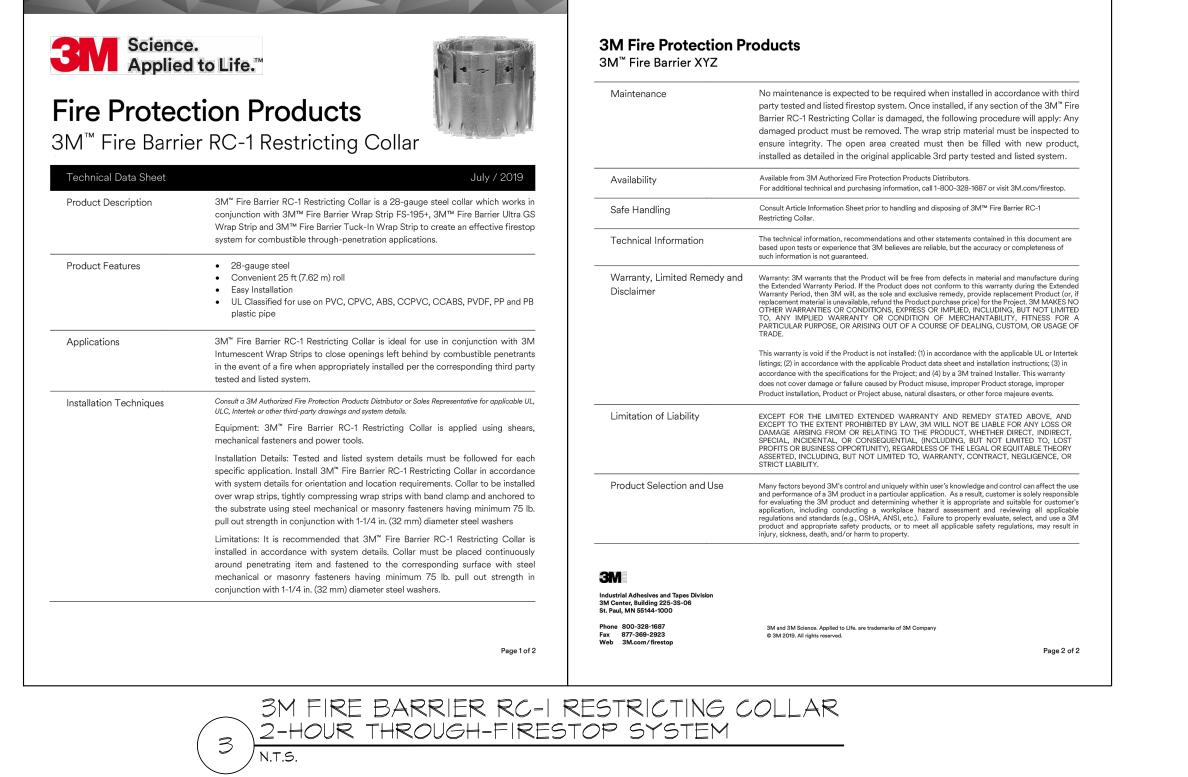
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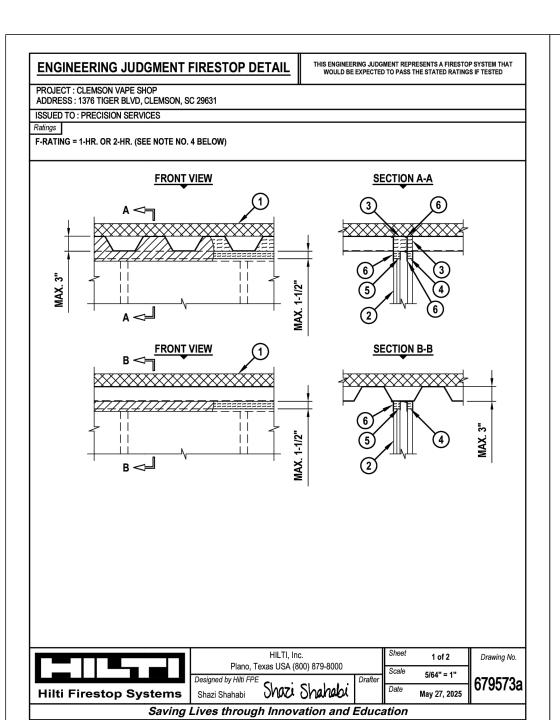
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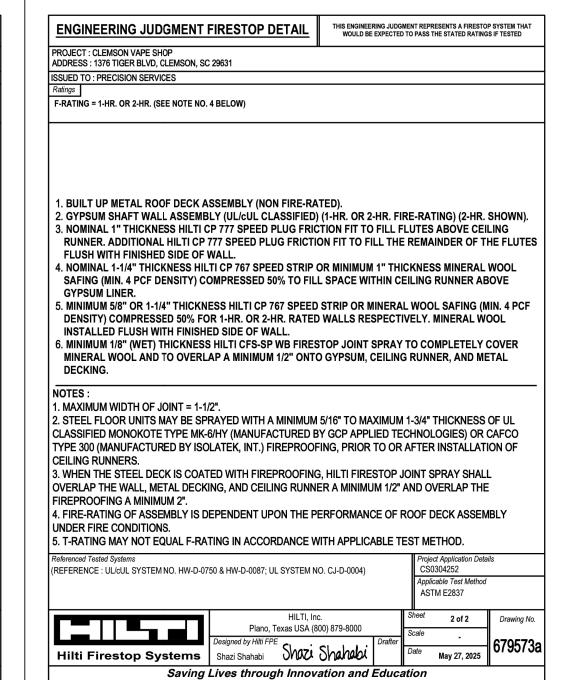
JOB NO. **■ 25 - 1526** DRAWN AMS

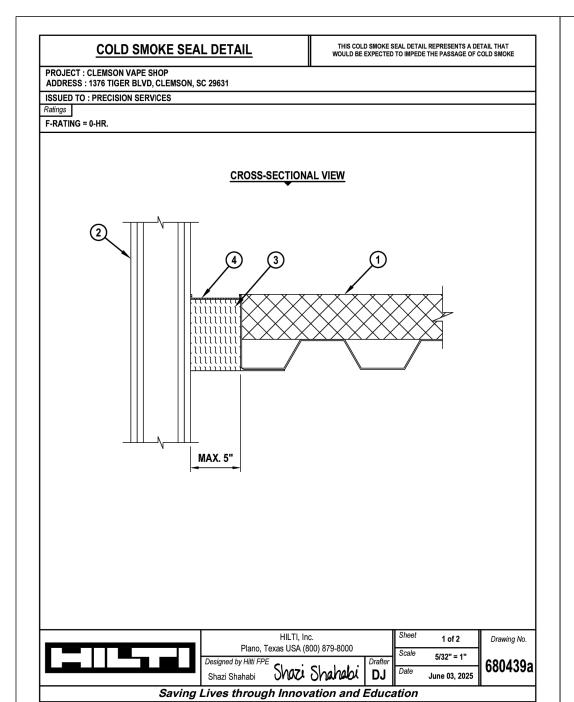
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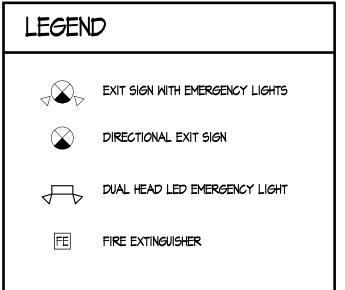


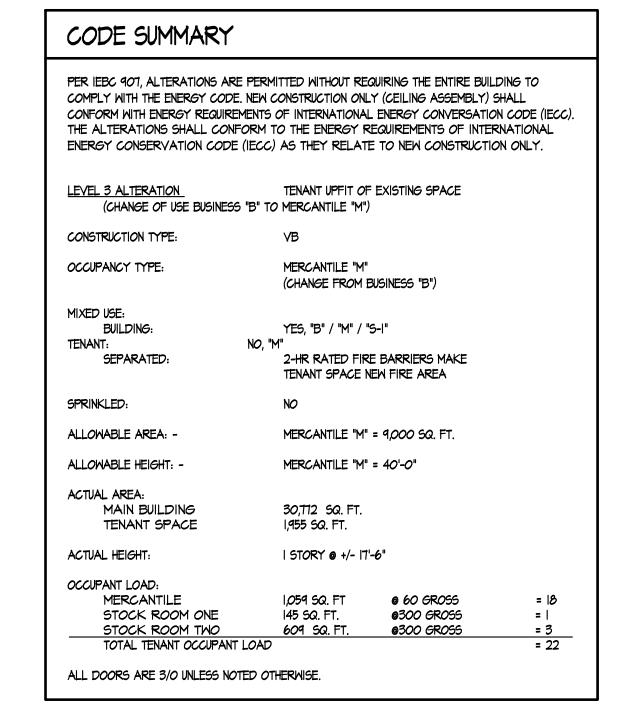






COLD SMOKE SEAL DETAIL	THIS COLD SMOKE SEAL DETAIL REPRESENTS A DETAIL THAT WOULD BE EXPECTED TO IMPEDE THE PASSAGE OF COLD SMOKE	]	COLD SMOKE SEAL DETAIL	THIS COLD SMOKE SEAL DETAIL REPRESENTS A DETAIL THAT WOULD BE EXPECTED TO IMPEDE THE PASSAGE OF COLD SMOKE
PROJECT : CLEMSON VAPE SHOP ADDRESS : 1376 TIGER BLVD, CLEMSON, SC 29631 ISSUED TO : PRECISION SERVICES		]	PROJECT : CLEMSON VAPE SHOP ADDRESS : 1376 TIGER BLVD, CLEMSON, SC 29631 ISSUED TO : PRECISION SERVICES	"
Ratings F-RATING = 0-HR.		1	Ratings  F-RATING = 0-HR.	
CROSS-SECTIONA	L VIEW		1. BUILT UP METAL ROOF DECK ASSEMBLY WITH MIN. 4- FIRE-RATED). 2. GYPSUM WALL ASSEMBLY (UL DESIGN NO. U301) (2-H) 3. MINIMUM 4" THICKNESS MINERAL WOOL SAFING (MIN. BOTTOM SURFACE AND TO BE RECESSED MAXIMUM 1. 4. MINIMUM 1/8" (WET) THICKNESS HILTI CFS-SP WB FIRE MINERAL WOOL, OVERLAPPING MINIMUM 1/2" ONTO AI NOTES: 1. MAXIMUM WIDTH OF JOINT = 5". 2. FIRESTOP SPRAY SHALL NOT COME INTO CONTACT V	R.FIRE-RATING). 4 PCF DENSITY) COMPRESSED 50%, FLUSH WITH 12" FROM TOP SURFACE OF STEEL BENT PLATE. 15STOP JOINT SPRAY TO COMPLETELY COVER 15JACENT SURFACES.
			Referenced Tested Systems (REFERENCE : UL/cUL SYSTEM NO. FW-D-1037 & FW-D-1013)	Project Application Details CS0304255 Applicable Test Method N/A
HILTI, Inc. Plano, Texas USA (80  Designed by Hilli FPE Shazi Shahabi			Plano, Texas USA  Designed by Hilti FPE Shazi Shahabi	Inc. Sheet 2 of 2 Drawing No.
Saving Lives through Innova	tion and Education	]	Saving Lives through Inno	ovation and Education





INTERIOR WALL AND CEILING FINISH MOST RESTRICTIVE "BUSINESS"	SHALL MEET THE FOLLOWING REQ	UIREMENTS PER TABLE 803.13
EXIT ENCLOSURES AND EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
A	В	C

## LIFE SAFETY NOTES PRIMARY EXIT = 34/2 = 170 OCCUPANT LOAD SECONDARY EVIT = 34/3 = 170 OCCUPANT LOAD

SECONDARY EXIT = 34/.2 = ITO OCCUPANT LOAD

2-HOUR RATED WALLS IN AREAS DESIGNATED SHALL BE INSTALLED TO CREATE INDEPENDENT
FIRE AREA FOR NEW MERCANTILE TENANT, SEE NIOI.

5' X 5' MINIMUM CONCRETE PAD AT EXTERIOR DOOR.

PER 1010.2.9, PANIC HARDWARE IS NOT REQUIRED BUT BEING PROVIDED - EXISTING TO REMAIN.

ACCESSIBLE ENTRANCE AND ACCESSIBLE ROUTE.

ACCESSIBLE MEANS OF EGRESS.

PARKING LOT / ACCESSIBLE PARKING - NO CHANGE.

PER TABLE 1017.2 (M) MULTIPLE EXITS REQUIRED, THEREFORE EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED 200'-0".

5'-O" SIDEWALK TO PARKING AREA.

II PER TABLE 1505.I CONSTRUCTION TYPE, ROOF CONSTRUCTION CLASSIFICATION "C".

III MINIMUM 3' CLEAR FLOOR SPACE IN FRONT OF ELECTRICAL PANEL

III PER 1013.4, PROVIDE BRAILLE "EXIT" SIGN AT ALL EXIT DOORS.

III EXIT SIGNS - FINAL LOCATIONS OF DIRECTIONAL SIGNAGE SHALL BE DETERMINED IN FIELD.

PER 1105.1 60% OF PUBLIC ENTRANCES ARE REQUIRED TO BE ACCESSIBLE.
- I/I PUBLIC ENTRANCES ARE ACCESSIBLE, THEREFORE OK.
- LOADING AND SERVICE ENTRANCES THAT ARE NOT THE ONLY ENTRANCE TO A TENANT

SPACE ARE NOT REQUIRED TO BE ACCESSIBLE.

16 PER 1105.1.7 AT LEAST ONE ACCESSIBLE ENTRANCE SHALL BE PROVIDED TO EACH TENANT IN A

FACILITY.

EXISTING BATHROOM TO BE UPDATED TO BE ADA COMPLIANT, SEE A500.

CLEARLY MARKED PATH OF EGRESS THROUGH STOCK ROOM TWO TO BE 44" MINIMUM CLEAR

EGRESS WIDTH.

19 2-HOUR RATED WALLS AND CEILING TO BE INSTALLED TO CREATE FIRE ENVELOPE, SEE NIO2.

20 DELINEATION OF SHARED PARKING IS NOT REQUIRED BY CITY OF CLEMSON.

PER 1020.5 DEAD END CORRIDOR NOT TO EXCEED 20'-0" IN LENGTH.
PER 1010.2.4 PRIMARY ENTRANCE OF BUILDINGS IN OCCUPANCY GROUP "M" PERMITTED TO BE EQUIPPED WITH KEY-OPERATED LOCKING DEVICES FROM EGRESS SIDE PROVIDED THE LOCKING DEVICE IS READILY DISTINGUISHABLE AS LOCKED.

3.2. A READILY VISIBLE DURABLE SIGN IS POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. THE SIGN LETTERS SHALL BE IN LETTERS I INCH (25 MM) HIGH ON A CONTRASTING BACKGROUND.

3.3. THE USE OF THE KEY-OPERATED LOCKING DEVICE IS REVOCABLE BY THE BUILDING OFFICIAL FOR DUE CAUSE.

23 MERCANTILE FIRE AREA DOES NOT EXCEED 12,000 SQ. FT., THEREFORE FIRE SPRINKLER IS NOT

REQUIRED.

24

PER 2902.2 EXCEPTION 3, SEPARATE FACILITIES SHALL NOT BE REQUIRED IN MERCANTILE OCCUPANCIES IN WHICH THE MAXIMUM OCCUPANT LOAD IS 100 OR FEWER.

OCCUPANT LOAD = 22, THEREFORE OK.

2-HOUR FIRE BARRIER SHALL TERMINATE AT LIMITS OF ADJACENT TENANT EXTERIOR WALL.

PROVIDE 2-HOUR RATED BOOT AND REQUIRED FIREPROOFING AT INTERIOR GUTTER SYSTEM

26 PROVIDE 2-HOUR RATED BOOT AND REQUIRED FIREPROOFING AT INTERIOR GUTTER SYSTEM DOWNSPOUT. INSTALL 2-HR THROUGH-FIRESTOP SYSTEM, SEE NIO3.

27 90 MINUTE ACCESS PANEL OVERHEAD AT 2-HOUR RATED ENVELOPE.

28 PER 718.2, FIREBLOCKING SHALL BE INSTALLED AT THE LOCATIONS SPECIFIED IN SECTIONS

718.2.2 THROUGH 718.2.7 WITH MATERIALS IN COMPLIANCE OF 718.2.1.

PER 1010.1.2.1 SIDE-HINGED SWINGING DOORS SHALL SWING IN THE DIRECTION OF EGRESS WHERE SERVING A ROOM OR AREA CONTAINING AN OCCUPANT LOAD OF 50 OR MORE.

OCCUPANT LOAD = 22, THEREFORE SWINGING DOOR NOT REQUIRED TO SWING IN THE DIRECTION OF EGRESS.

FIRE EXTINGUISHER - LOCATE AT EACH EXIT. FINAL PLACEMENT TO BE DETERMINED BY FIRE MARSHAL.

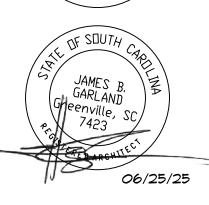


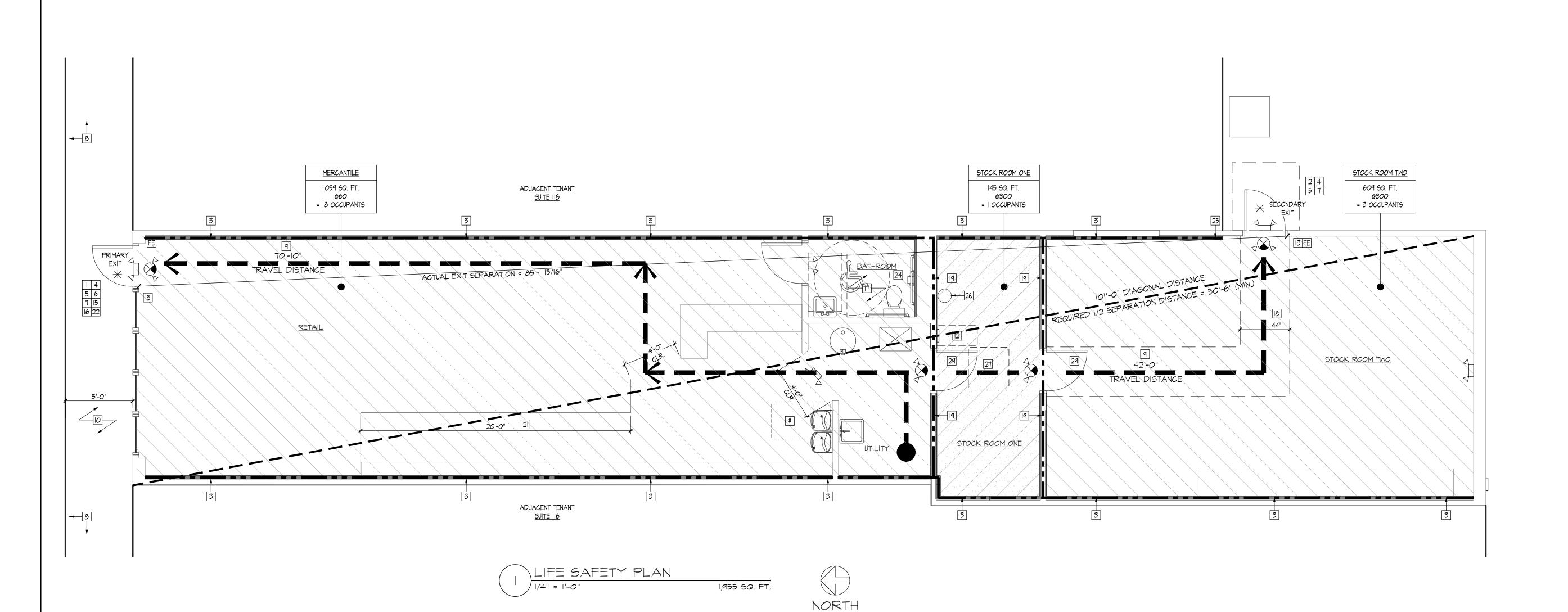
7090 HOWARD STREET SPARTANBURG, SC 2 9 3 0 3 8 6 4 . 5 8 5 . 4 0 1 4 PSI-DESIGNBUILD.COM



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Clemson Vape Shop
1376 Tiger Boulevard Suite 116 Clemson,

DATE \* 06/25/25
SCALE \* AS NOTED

JOB NO. • 25 - 1526

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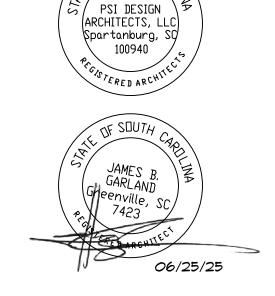
### DEMO PLAN NOTES REMOVE ALL ELECTRICAL & PREPARE FOR NEW ELECTRICAL, SEE ELECTRICAL. REMOVE EXISTING SINK AND PREPARE TO RECEIVE NEW ADA COMPLIANT SINK. 3 REMOVE GRAB BARS WITH INTENT TO REINSTALL. REMOVE PORTION OF EXISTING WALL TO PROVIDE 46" CLEAR OPENING. REMOVE ELECTRICAL PANEL CONNECTIONS OF SUITE 114 TO ENSURE FIRE CODE COMPLIANCE. RELOCATE EXISTING CONDENSING UNIT FOR ADJACENT TENANT TO PROVIDE REQUIRED CLEAR AREA AT EXIT AREA AT EXIT. REMOVE EXISTING CEILING & PREPARE TO RECEIVE FIREPROOFING & NEW CEILING. SELECTIVELY INFILL WALL & PREPARE TO RECEIVE NEW DOOR, SEE FIRE RATING REQUIREMENTS. 9 EXISTING DOOR & FRAME TO BE REMOVED. REMOVE DOOR & INFILL WALL, COORDINATE WITH ALOO FOR FIRE RATINGS. II REMOVE ELECTRICAL SUB-PANEL. 12 REMOVE MECHANICAL UNIT & DUCT. SEAL WALL PENETRATION TO ADJACENT TENANT WITH APPROPRIATE FIRE PROTECTION. REPAIR ANY PENETRATIONS IN ALL DEMISING WALLS, PREPARE TO RECEIVE FIRE PROOFING AND NEW FINISHES. [14] CAREFULLY REMOVE EXISTING CABINETRY WITH INTENT TO REINSTALL.

CARE TO BE TAKEN NOT TO DISTURB ADJACENT WALLS TO WORK BEING DONE.



American Institute of Architects

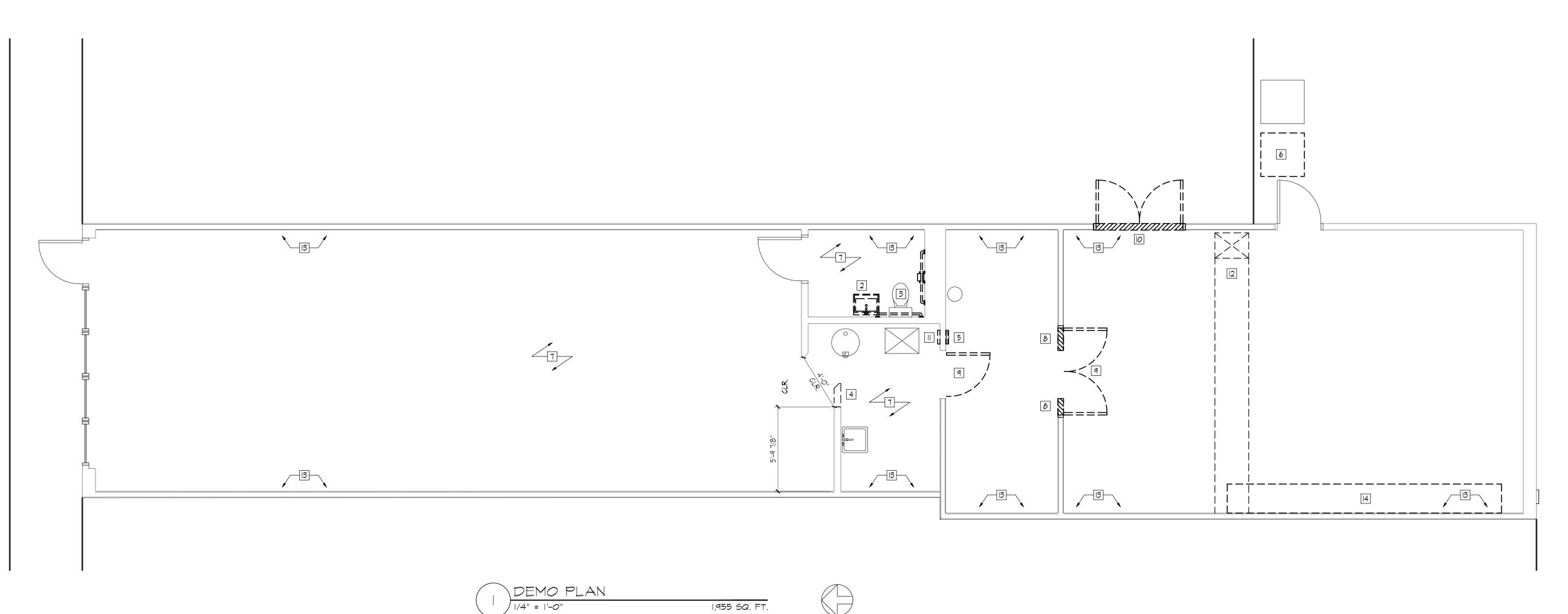
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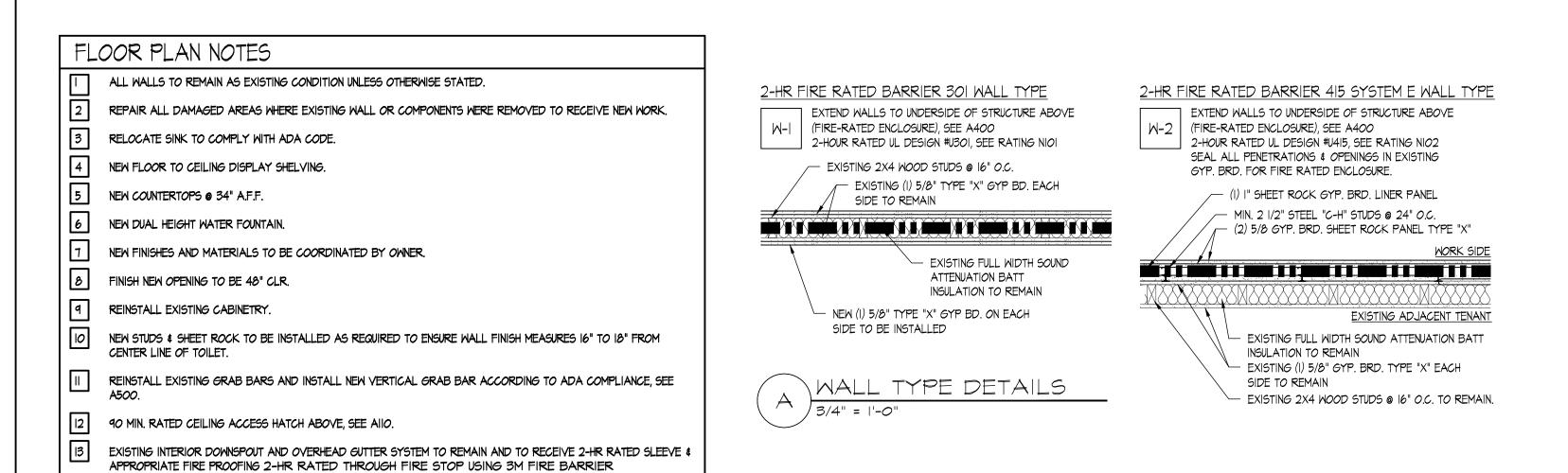
DATE • 06/25/25 SCALE • AS NOTED JOB NO. **■ 25 - 1526** DRAWN AMS REVISIONS no. **0** date **06/25/25** ISSUED FOR CONSTR.

DEMO PLAN



1,955 SQ. FT.

NORTH



				;	DO	0	3 5	50		DU	LE									
	DOOR														F	RAM	Œ			
		SIZE	TYPE	UL	۲	1ATE	RIAL		F	INIS	+		1	MATE	RIAL	-	Ť	FINIS	H	
DOOR NUMBER	ROOM	W. × H.			MOOD	METAL	CLAD	ALUMINUM	STAIN	PAINT	BY MFG	HARDWARE SET	Tn	METAL	CLAD	ALUMINUM	STAIN	PAINT	BY MFG	REMARKS
I	RETAIL	4'-0" x 7'-0" OPG.	В																	GC TO DETERMINE IN FIELD
2	STOCK ROOM ONE	3'-0" × 7'-0"	Α	90 MIN								ı	90							
3	STOCK ROOM TWO	3'-0" x 7'-0"	A	90 MIN								l	90							
EX	EXISTING DOOR TO REMAIN									·										

AS SCHD

AS

### GENERAL DOOR NOTES:

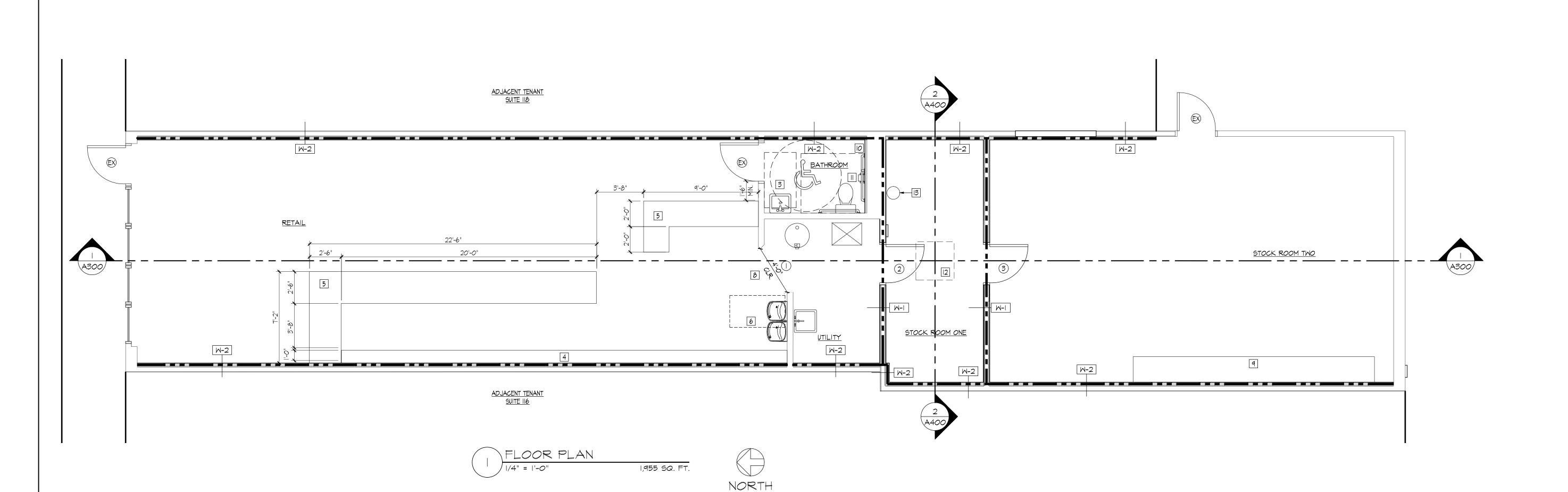
RESTRICTING COLLAR.

I. ALL DOORS TO HAVE LEVER TYPE ADA APPROVED HANDLES UNLESS NOTED OTHERWISE.

### DIAGRAMMATIC HARDWARE SETS:

I - PASSAGE SET
I - LEVER HANDLE SET
I - CLOSER
I - DOOR SWEEP FOR
FIRE RATING

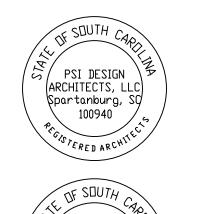
B DOOR ELEVATIONS







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Upfit For:

Clemson Vape Shop

1376 Tiger Boulevard Suite 116 Clemson,

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SHEET

A100

		N TO STRUCTURE ABOVE, REP O LAY IN CEILING @10'-6" A.F			<u>NOTE:</u> LIGHT FIXTURES DEPICTE PROVIDE BLOCKING AS	D BELOW ARE FOR LOCATION REQUIRED.	ON & REFERENCE PURPOSES	5 ONLY.				
3 2x2 A	ACOUSTICAL TILE/GRID	D LAY IN CEILING @8'-0" A.F.	F.		A	) ı	LED CAN LIGHT, DETERMINEI	D BY OWNER				
5 40 MI	IIN. FIRE RATED CEILING RU 810 ULTRA SERIES, I	36"X36", STEEL, 90 MIN. FIRE	'-O", SEE NIO2. DESIGN TO BE "WILLIAMS BR E RATED ACCESS DOOR, PAD ED, SPRING CLOSER" OR SIM	PDLE	В	S	SURFACE MOUNTED IX4 STR RATED JUNCTION BOX	IP LED LIGHT WITH FIRE				
					6	l.	X& PENDANT STYLE SUSPEN	IDED LED LIGHT				
											2 A400	
		TYP.								''	EQ EQ EQ	
		0	0	0		0	0	0		3		
A30												A3C
			2	0		0	0	0	0			
											<u>2</u> A400	

NORTH

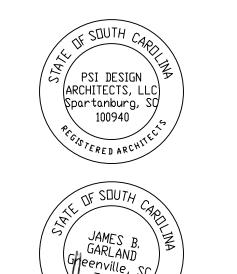
REFLECTED CEILING PLAN NOTES

CEILING LEGEND



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REFLECTED CEILING PLAN

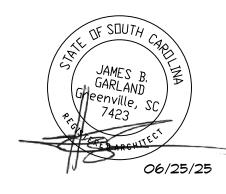
BUILDING SECTION





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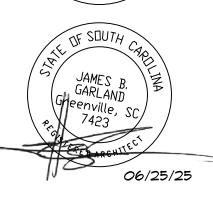
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1376 Tiger Boulevard Suite 116 Clemson,
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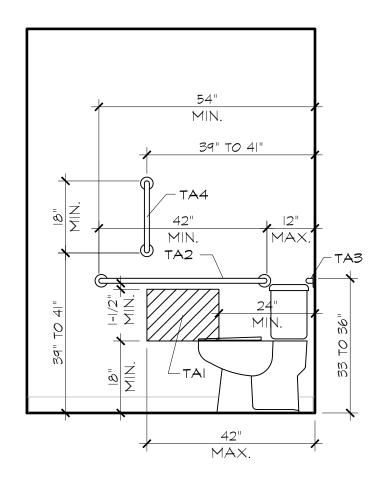
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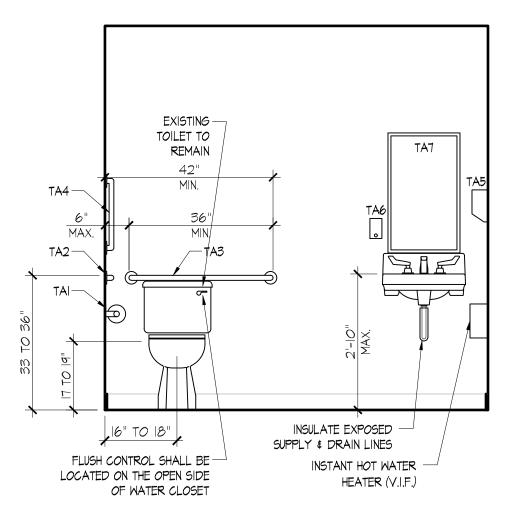
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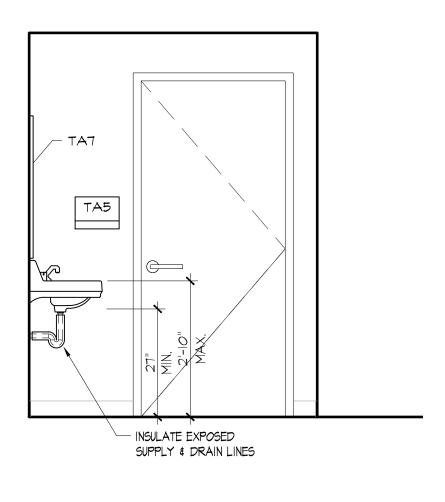
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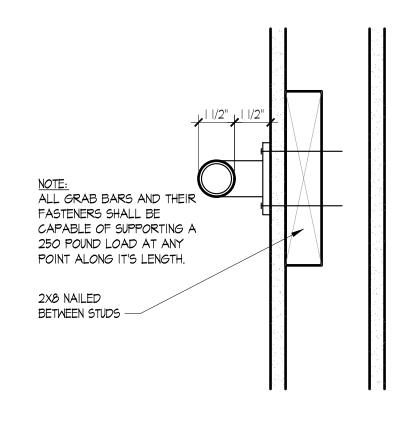
WALL SECTIONS

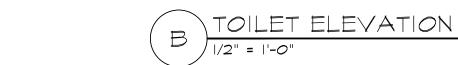


TOILET ELEVATION













INSULATE EXPOSED | ||" | 6" |
SUPPLY & DRAIN | MIN. MAX.

MIRROR -

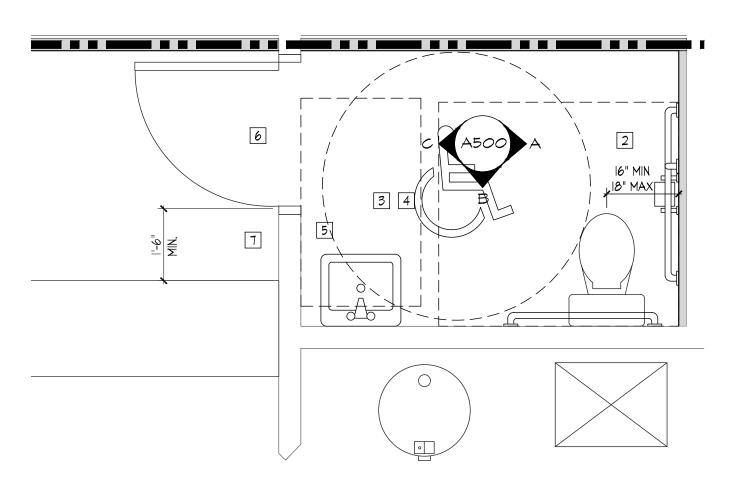
ADA COMPLIANT

BOWL WITH ADA

COMPLIANT WRIST

BLADES AND FAUCET -







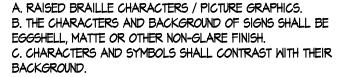
- 30"x48" CLEAR FLOOR SPACE @ LAVATORY FOR FORWARD APPROACH 4 MINIMUM 52" CLEAR WIDTH PERPENDICULAR TO DOORWAY FOR FRONT APPROACH - PUSH SIDE MINIMUM 12" CLEAR WIDTH PARALLEL TO DOORWAY BEYOND LATCH FOR FRONT APPROACH - PUSH SIDE MINIMUM 60" CLEAR WIDTH PERPENDICULAR TO DOORWAY FOR FRONT APPROACH - PULL SIDE
- MINIMUM 18" CLEAR WIDTH PARALLEL TO DOORWAY BEYOND LATCH FOR FRONT APPROACH PULL SIDE 8 30"X48" CLEAR FLOOR SPACE @ DRINKING FOUNTAIN FOR FORWARD APPROACH.

### TOILET ACCESSORY LEGEND:

- TAI TOILET TISSUE DISPENSER SURFACE MOUNTED (NEW)
- TA2 GRAB BAR X 42" (HORIZONTAL) (EXISTING)
- TA3 GRAB BAR X 36" (HORIZONTAL) (EXISTING)
- TA4 GRAB BAR X 18" (VERTICAL) (NEW)
- TA5 PAPER TOWEL DISPENSER SURFACE MOUNTED @ +48" A.F.F. MAX. (NEW)
- TA6 SOAP DISPENSER
- SURFACE MOUNTED @ +44" A.F.F. MAX. (NEW)
- TAT ADA MIRROR MOUNT BOTTOM EDGE OF REFLECTING

SURFACE @ +40" A.F.F. (NEW)

### RESTROOM SIGNAGE: SIGNAGE SHALL COMPLY WITH ADA AND STATE REQUIREMENTS I. SIGNS SHALL INCLUDE THE FOLLOWING REQUIREMENTS:



D. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH TO HEIGHT RATIO BETWEEN I:I AND 3:5 AND STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10. E. SIGN SHALL BE INSTALLED ON THE WALL ADJACENT TO THE

- LATCH SIDE OF THE DOOR AND LOCATED SO THAT A CLEAR FLOOR AREA 18" (MINIMUM) 18" (MINIMUM), CENTERED ON THE RAISED CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. F. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTER OF THE SIGN.
- ALL PLUMBING FIXTURES TO BE ADA COMPLIANT.

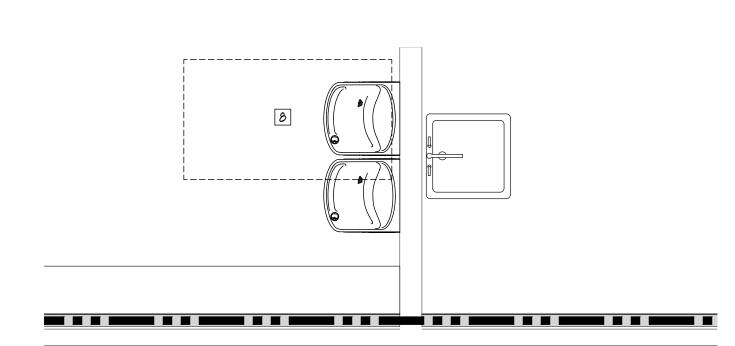
G. MINIMUM SIZE OF SIGN SHALL BE 6" X 6".

2. PROVIDE SIGNS AT THE RESTROOM ENTRANCES.

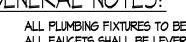
- ALL BATHROOM PAINT SHALL BE (2) COATS SHERWIN-WILLIAMS PRO-INDUSTRIAL PRE CATALYZED
- COORDINATE ALL SINK, FAUCET, WATER CLOSET, AND TOILET ACCESSORY TYPES, MATERIALS, STYLES &

### GENERAL NOTES:

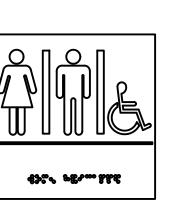
- FINISHES WITH OWNER / INTERIOR DESIGN DRAWINGS.







- ALL FAUCETS SHALL BE LEVER TYPE WRIST BLADES.
- ALL WATER CLOSETS SHALL HAVE ELONGATED BOWL
- WATER BASED EPOXY FINISH.

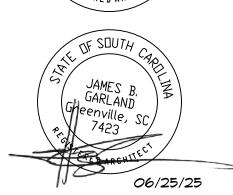






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Shop 116 Clemso Upfit For:
Clemson

DATE • 06/25/25 SCALE • AS NOTED

JOB NO. **■ 25 - 1526** DRAWN AMS

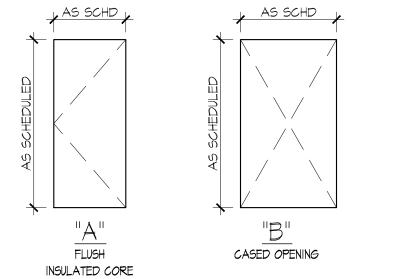
CHECK • JBG REVISIONS NO. **O** DATE **06/25/25** 

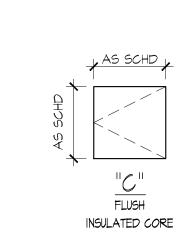
> ISSUED FOR CONSTR. NO. DATE

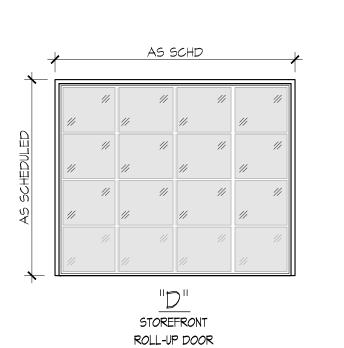
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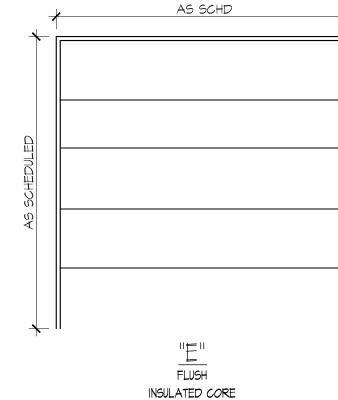
				,	DO	0	35	5C+	<u> </u>	DUL	Ē									
				DOOR											F	RAM	E			
		SIZE	TYPE	UL	٨	1ATE	RIAL		F	INISH				MATE	RIAL	•	F	INIS	Н	
DOOR NUMBER	R00M	<b>И.</b> х Н.			000M	METAL	CLAD	ALUMINUM	STAIN	PAINT	BY MF <i>G</i>	HARDWARE SET	Tn	METAL	CLAD	ALUMINUM	STAIN	PAINT	BY MFG	REMARKS
I	RETAIL	4'-0" x 7'-0" OPG.	В																	GC TO DETERMINE IN FIELD
2	STOCK ROOM ONE	3'-0" × 7'-0"	Α	90 MIN								1	90							
3	STOCK ROOM TWO	3'-0" × 7'-0"	Α	90 MIN								1	90							
EX	EXISTING DOOR TO REMAIN																			

6	COORIDOR	3'-0" × 7'-0"	Α		5		
7	SHIPPING ENT. / EXIT	3'-0" × &'-0"	В		1		
8	GARAGE DOOR	2'-4" ×  2'-2"	E		4		INSULATED / ROLL-UP DOOR
9	GARAGE DOOR	24'-0" × 12'-2"	F		4		INSULATED / ROLL-UP DOOR
10	WAREHOUSE BREAKROOM	3'-0" × 7'-0"	Α		2		
II	DISPLAY AREA BREAKROOM	3'-0" × 7'-0"	Α		2		
12	OFFICE	3'-0" × 7'-0"	Α		5		
13	COORIDOR	3'-0" × 7'-0"	Α		3		
14	OFFICE	3'-0" × 7'-0"	Α		5		
15	OFFICE	3'-0" × 7'-0"	A		5		
16	COORIDOR	3'-0" × 7'-0"	A		5		
17	GARAGE DOOR	24'-0" × 12'-2"	F		4		INSULATED / ROLL-UP DOOR
18	GARAGE DOOR	24'-0" × 12'-2"	F		4		INSULATED / ROLL-UP DOOR
19	WAREHOUSE BACK ENT. / EXIT	3'-0" × 7'-0"	C		1		1









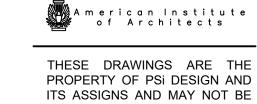
ROLL-UP DOOR

AS SCHD

## " FLUSH

INSULATED CORE

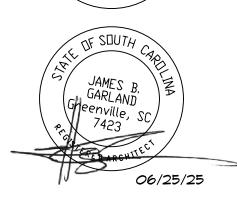
ROLL-UP DOOR



7090 HOWARD STREET SPARTANBURG, SC 2 9 3 0 3 864.585.4014 PSI-DESIGNBUILD.COM

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## DOOR ELEVATIONS

### GENERAL DOOR NOTES:

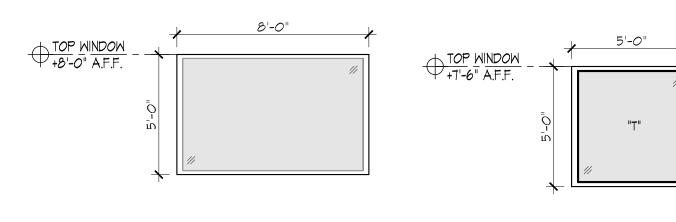
I. ALL DOORS TO HAVE LEVER TYPE ADA APPROVED HANDLES UNLESS NOTED OTHERWISE.

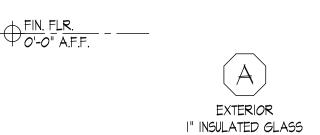
### DIAGRAMMATIC HARDWARE SETS:

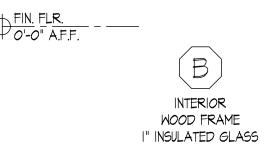
- I. 3 HINGES I PASSAGE SET I - LEVER HANDLE SET
- I CLOSER I DOOR SWEEP FOR FIRE RATING
- 4. I GARAGE DOOR SET 5. 3 HINGES 6. 3 - HINGES I - PRIVACY SET I - LOCK SET

### GENERAL WINDOW NOTES:

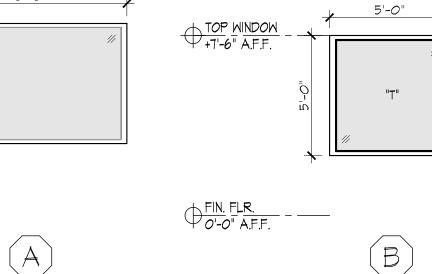
- I. FRAME WIDTHS & DOOR OPENINGS SHOWN ARE "NOMINAL SIZES", COORDINATE EXTERIOR WINDOWS & DOOR FRAME/SIDELIGHT DIMENSIONS (HEIGHT / WIDTH) WITH SELECTED MANUFACTURER -ADJUST DIMENSIONS ACCORDINGLY.
- 2. "T" TEMPERED GLASS AS PER CODE REQUIREMENTS.



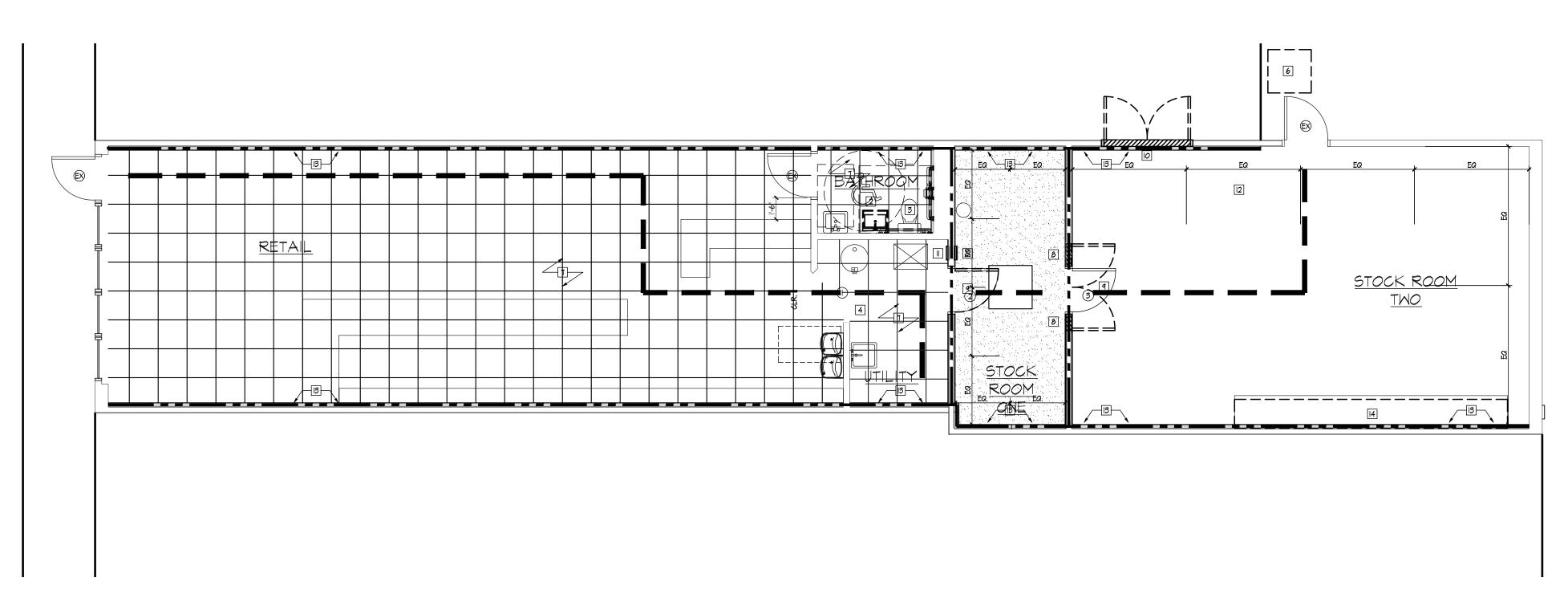




INTERIOR



WINDOW ELEVATIONS



DOOR AND WINDOW REF. PLAN
3/16" = 1'-0"



DATE • 06/25/25 SCALE AS NOTED JOB NO. **■ 25 - 1526** DRAWN AMS CHECK • JBG REVISIONS NO. **O** DATE **06/25/25** 

Upfit For:

Clemson Vape Shop
1376 Tiger Boulevard Suite 116 Clemson
SC 29631

ISSUED FOR CONSTR.

NO. DATE

### GENERAL SPECIFICATIONS

- 1. ALL ELECTRICAL EQUIPMENT AND FEEDERS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE CODES AND WITH THE EDITION OF THE NEC STATED BELOW.
- PROVIDE ADDITIONAL SUPPORT FOR SWITCHES, STARTERS, RACEWAYS AND OTHER ELECTRICAL EQUIPMENT WHEREVER THE BUILDING STRUCTURE IS NOT SUITABLE FOR DIRECT MOUNTING.
- B. DO NOT INSTALL MATERIALS OTHER THAN SPECIFIED EXCEPT FOR ALTERNATES ACCEPTED BY OWNER.
- FIRESTOP, DRAFT STOP AND/OR PROTECT THE ANNULAR SPACE AROUND ALL PIPE, TUBE, CONDUIT, WIRE, CABLE, VENT AND DUCT PENETRATION THROUGH WALLS, PARTITIONS, FLOORS, CEILINGS AND ROOFS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (LATEST EDITION) AND UL LISTING REQUIREMENTS.
- 5. ALL 600V WIRE SHALL BE STRANDED COPPER SINGLE CONDUCT TYPE THWN INSULATION, AMPACITIES BASED ON NEC TABLE 310.15(5)(16), 60°C FOR CONDUCTORS #1 AND SMALLER, 75°C #1/0 AND LARGER. METAL CLAD ARMORED CABLE MAY BE USED IN WALL AND ABOVE CEILING FOR #10 AWG CABLE AND SMALLER.
- . VERIFY CEILING SUSPENSION SYSTEMS IN THE VARIOUS AREAS AND PROVIDE THE PROPER MOUNTING ACCESSORIES, TRIMS, ETC., TO SUIT THE PARTICULAR AREA.
- SYMBOLS IN THE LEGENDS ARE APPLICABLE GENERALLY. FOR EXACT REQUIREMENTS REFER TO THE SCHEDULES, LAYOUTS AND DETAILS.
- 8. CONFIRM POWER REQUIREMENTS FOR END USER EQUIPMENT BEFORE INSTALLATION. MODIFY
- 9. ALL ELECTRICAL DEVICES SHALL BE NEMA 1 INDOORS, NEMA 3R OUTDOORS UNLESS NOTED OTHERWISE.
- 10. ALL CONDUIT EXPOSED TO PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL, ALL OTHER TO BE EMT.
- 11. ALL CONDUIT CONCEALED WITHIN INTERIOR METAL-STUD WALLS OR ABOVE SUSPENDED CEILINGS SHALL BE ELECTRICAL METALLIC TUBING (EMT) AND OF A SIZE NO SMALLER THAN 1/2". CONDUIT FILL SHALL BE PER NEC CHAPTER 9 ARTICLE 358 FOR EMT, 40% FILL COLUMN.
- 12. PHASE IDENTIFICATION FOR INCOMING FEEDERS TO PANELBOARDS SHALL BE ACCOMPLISHED BY COLOR CODE TAPING AS FOLLOWS:

FEEDERS RATED (240V).... PHASE "A" = BLACK

BREAKERS/WIRE SIZE AS REQUIRED BEFORE INSTALLATION.

PHASE "B" = RED NEUTRAL = WHITE GROUND = GREEN

- 13. ALL POWER CIRCUITS SHALL CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR (BARE OR GREEN COLOR INSULATION) ROUTED IN CONDUIT AND SIZED AS INDICATED ON DRAWINGS.
- 14. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE ENERGY CONSERVATION CODES AS STATED BELOW.
- 15. ALL RECESSED FIXTURES SHALL BE TIED OFF TO CEILING STRUCTURE VIA WIRE AT OPPOSITES ENDS TO MEET SEISMIC CRITERIA THIS LOCATION.
- 16. SHARING OF NEUTRAL CONDUCTORS IN BRANCH CIRCUITS IS NOT PERMITTED.
- 17. ALL PANELBOARDS SHALL BE LABELED BY DESCRIPTIVE TYPE DIRECTORY.
- 18. WHERE NOTED, EXHAUST FANS IN TOILETS SHALL BE POWERED VIA LIGHTING CIRCUIT.
- 19. WHERE NOTED ON PLANS, PROVIDE TOGGLE SWITCH FOR UC FIXTURES IF REQUIRED.
- 20. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LABEL-LISTED BY A STATE APPROVED THIRD PARTY LISTING AGENCY.
- 21. WHERE NOTED ON PLANS, PROVIDE TOGGLE SWITCH FOR UC FIXTURES IF REQUIRED.
- 22. EMERGENCY LIGHTING CIRCUITS SHALL BE CONNECTED TO THE LINE SIDE OF THE CIRCUIT AND SWITCH THAT SERVES THAT PARTICULAR AREA.
- 23. ALL RECESSED LUMINAIRES SHALL BE IC RATED AND LABELED AS MEETING ASTM E283. ALL FLUSH OR RECESSED LUMINAIRES SHALL MEET SPECIAL REQUIREMENTS OF NEC 410.110 THRU 410.122.
- 24. A TYPE WRITTEN CIRCUIT DIRECTORY SHALL BE PROVIDED FOR EACH PANELBOARD AS TO CLEARLY IDENITFY ITS SPECIFIC PURPOSE AS REQ'D TO MEET NEC 408.4.
- 25. PROVIDE 4'X4'X3/4" PLYWOOD BACKBOARD; PAINTED WHITE WITH NON-FLAMMABLE PAINT, GROUND TO
- SERVICE; ADJUST REQUIREMENTS PER SYSTEM PROVIDER.
- 26. PROVIDE GFI RECEPTACLE AND PROTECTED LED LIGHT SOCKET WITH LED LAMP AT EACH AC UNIT IN ATTIC. LIGHT SWITCH SHALL BE LOCATED NEAR PULL DOWN STAIR IN ATTIC. CONFIRM LOCATION WITH MECHANICAL DRAWINGS

### **APPLICABLE CODES**

2020 NATIONAL ELECTRICAL CODE

2009 INTERNATIONAL ENERGY CONSERVATION CODE

LUI	MINAIRE SCHEDULE
0	RECESSED CAN LED LUMINAIRE, 120V, 2500 LUMENS MIN, 30W, DIMMABLE
	SURFACE MOUNT 4' STRIP LED LUMINAIRE WITH INTEGRATED OCCUPANCY SENSOR SWITCH, 120V, 7000 LUMENS MIN, 50W, 4000K CCT, DIMMABLE
	PENDANT MOUNT 8' STRIP LED LUMINAIRE WITH INTEGRATED OCCUPANCY SENSOR SWITCH, 120V, 14000 LUMENS MIN, 90W, 4000K CCT, DIMMABLE
	COMBINATION DUAL HEAD LED EMERGENCY AND EXIT LUMINAIRE WITH BATTERY BACK-UP, ARROW INDICATION AS NOTED ON PLANS; MOUNTED AT 8'-0" AFF; UNSWITCHED LEG OF AREA CIRCUIT, 120V, <5W
₹D	DUAL HEAD REMOTE EXTERIOR EMERGENCY LED LUMINAIRE POWERED & CONTROLLED BY INTERIOR EMERGENCY/EXIT LUMINAIRE (ABOVE FIXTURE WITH BATTERY BACK-LIP)

### **ELECTRICAL SYMBOLS**

DUAL HEAD EMERGENCY LED LUMINAIRE WITH BATTERY

BACK-UP, MOUNTED AT 8'-0" AFF; UNSWITCHED LEG OF

TOGGLE SWITCH, 120V, FLUSH MOUNTED

BATTERY BACK-UP)

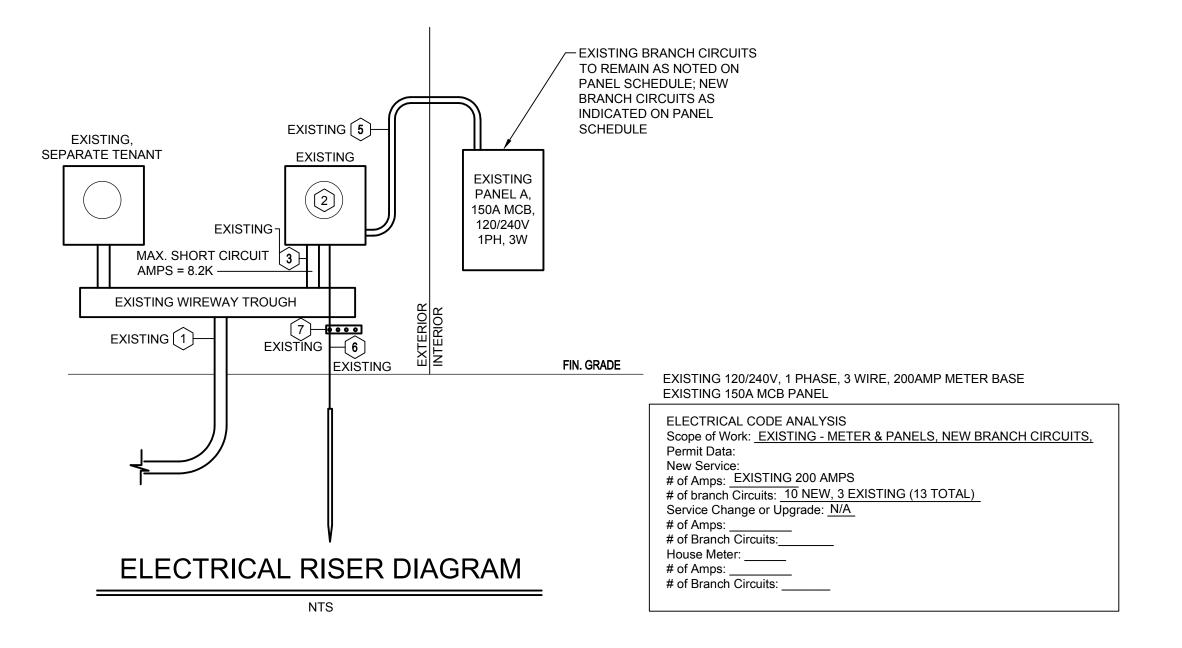
AREA CIRCUIT, 120V, <5W.

- TOGGLE SWITCH, THREE-WAY, 120V
- TOGGLE SWITCH, THREE-WAY, 120V
- \$0S SWITCH, OCCUPANCY SENSOR, MOTOR RATED FOR EF'S, 120V
- DIMMING SWITCH, 120V, 0-10VDC, COMPATIBLE W/FIXTURE; SEPARATE PAIR CABLE FOR CONTROL, LEVITON IP710-LF OR EQUAL
- \$ DOS SAME AS AS ABOVE WITH OCCUPANCY SENSOR, 120V
- \$3D SAME BUT 3 WAY

 $\overline{\Box}$ 

- \$ FWE SWITCH FURNISHED WITH EQUIPMENT
- switch leg Lowercase letter
- F SWITCH CONTROLLING CEILING FAN, 120V
- **\$WP** WEATHERPROOF/RESISTANT COVER, EXTRA DUTY, 120V
- CEILING MOUNTED OCCUPANCY SENSOR SWITCH, 120V
- T) INTERMATIC TIMER WITH 20A CONTACTS, QUANTITY AS REQUIRED
- SAFETY DISCONNECT, RATINGS AS INDICATED ON PLANS
- MOTOR STARTER/SAFETY DISCONNECT, RATINGS AS INDICATED ON PLANS
- 120V NEMA 5/20R RECEPTACLE, TAMPER RESISTANT TYPE
  - G=GROUND CIRCUIT INTERRUPTER
    WP=WEATHERPROOF/RESISTANT COVER, EXTRA DUTY
    Q=QUAD OUTLET
    WF=WATER FOUNTAIN; COORDINATE W/PLUMBING
    C=COUNTER; MOUNT ABOVE COUNTER
  - UC=UNDER COUNTER; MOUNT UNDER COUNTER
    USB=COMBINATION SIMPLEX RECEPT WIHT USB CHARGING PORT
    GCB=FED FROM GFI CIRCUIT BREAKER
    TV=FIELD VERIFY MOUNTIGN HEIGHTS WITH OWNER/ARCHITECT
- SAME AS ABOVE, BUT FLOOR MOUNTED VIA FLOOR BOX, JBOX
- 240V RECEPTACLE, RATINGS AS SPECIFIED ON PLAN
- J JUNCTION BOX
- TELEPHONE/DATA DROP; CAT. 6 CABLE BACK TO TEL. SERVICE; COORDINATE LOCATIONS WITH OWNER, D=DATA, AV
  - SAME AS ABOVE BUT FLOOR MOUNTED; MEDIA CONNECTIONS TO TV IN CONFERENCE ROOMS

					150			.AMP N	AINC.			LUGS DEFAUE	450 AMBC	
					7.001							M BKFWFF	R 150 AMPS.	
			I D			BRAN				15	1 1			
ITEM	WIRE SIZE	AMP RATING	PoLE	CIR. NO.		E LOAI N.		(KVA) B.	CIR. NO.	Pol	AMP RATING	WIRE SIZE	ITEM	
LIGHTING	2#12,#12G	20	1	1	1.2	5.0			2	2	60	EXISTING	BLOWER UNIT	EXISTING CIRCUIT
J-BOX - EXTERIOR SIGN VIA TIMER	2#12,#12G	20	1	3			1.0	5.0	4	<u>]                                    </u>	00	EXISTING	BLOWER UNIT	EXISTING CIRCUIT
RECEPTS	2#12,#12G	20	1	5	1.0	2.3			6	2	30	EXISTING	CONDENSING UNIT	EXISTING CIRCUIT
RECEPTS	2#12,#12G	20	1	7			1.0	2.3	8	<u>]                                    </u>	30	EXISTING	CONDENSING UNIT	EXISTING CIRCUIT
RECEPTS	2#12,#12G	20	1	9	1.0	•			10	1	20		SPARE	
RECEPTS	2#12,#12G	20	1	11			1.0	0.4	12	1	20	EXISTING	WATER HEATER CONTORLS	EXISTING CIRCUIT, VERIFY IF REQUIR
RECEPTS	2#12,#12G	20	1	13	1.0				14	1	20		SPARE	
QUAD RECEPT @ TELEBOARD	2#12,#12G	20	1	15			0.4		16	1	20		SPARE	
SPARE		100	2	17 19	·	2.5		2.5	18 20	2	30	2#10,#10G	WATER HEATER D/S	
SPACE			1	21					22	1			SPACE	
SPACE			1	23			•		24	1			SPACE	
SPACE			1	25					26	1			SPACE	
SPACE			1	27			•		28	1			SPACE	
RECEPT - WATER FOUNTAIN	2#12,#12G	20-G	1	29	•				30	1			SPACE	
				31			•		32					
				33	•				34	1				
				35					36	1				
				37	•				38	1				
				39					40	1				
				41	•				42	1				
'-G" REPRESENTS GROUND FAULT C	IRCUIT BREAKER				4.2	9.8	3.4	10.2						
					14	1.0	13	3.6	TOTA	AL CO	ONN. LOAD	27.6	KVA	



### **ELECTRICAL RISER NOTES**

- EXISTING UTILITY SERVICE; UNDERGROUND FEEDER; NOTE BELOW
- (2) EXISTING 200 AMP METER BASE, 240/120V, 1 PHASE, 3 WIRE
- 3 EXISTING 3#1/0, 1.5"C
- PRIMARY DISCONNECT, 200A, NEMA 3R, SE RATED, FUSED AT 200A, NEUTRAL TO GROUND LUG
- (5) EXISTING 3#1/0, #6GND, 1.5"C
- (6) EXISTING 1#4 TO 2-10' GROUND RODS TO FOUNDATION REBAR, 20' CONT., TO METAL WATER PIPE
- (7) EXISTING INTERSYSTEM BONDING BAR

EXISTING SERVICE RE-CONNECTION SHALL BE COORDINATED WITH THE LOCAL UTILITY; CONFIRM REQUIREMENTS





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## SERVICES, LLC

408 Ashley Oaks Drive, Moore, SC 29369 rkbirch9@gmail.com, Ph. (864) 621-5868

Upfit For:

Clemson Vape Shop
1376 Tiger Boulevard Suite 116 Clems
SC 29631

SCALE • AS NOTED

DATE • 06/05/25

JOB NO. • 25 - 1526

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CHECK • RKB

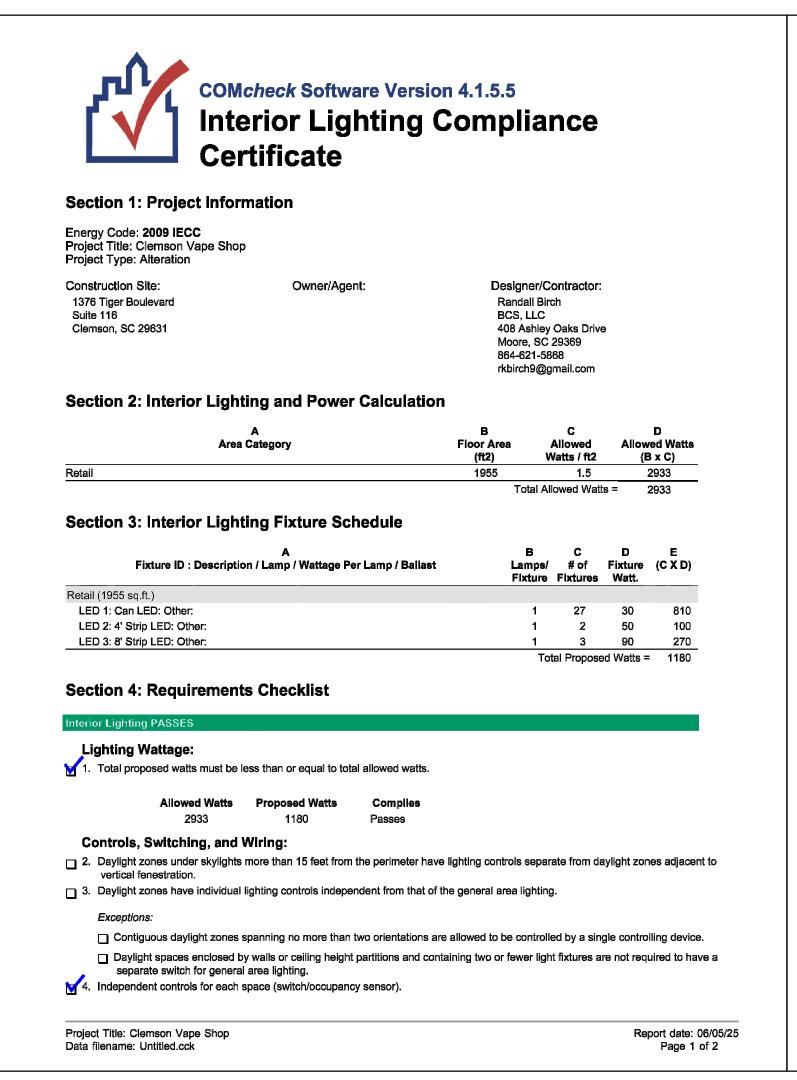
REVISIONS no. 0 date 06/05/25 FOR PERMIT

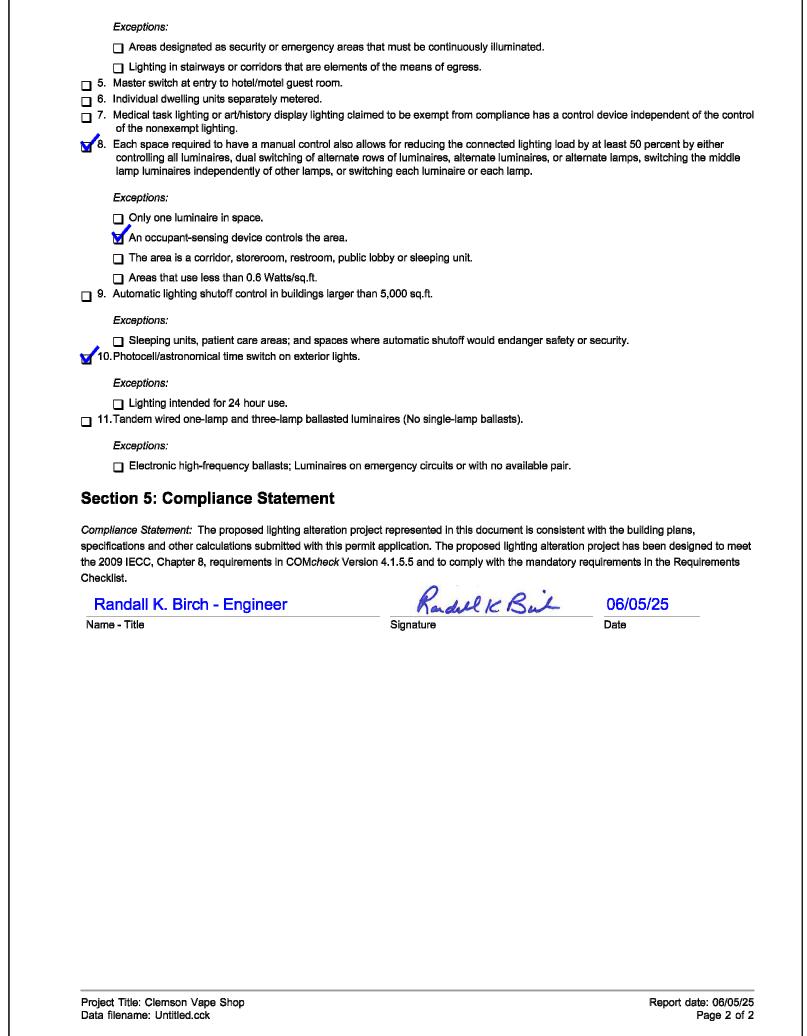
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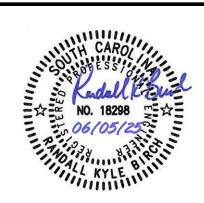








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### BIRCH CONSULTING

SERVICES, LLC
408 Ashley Oaks Drive, Moore, SC 29369

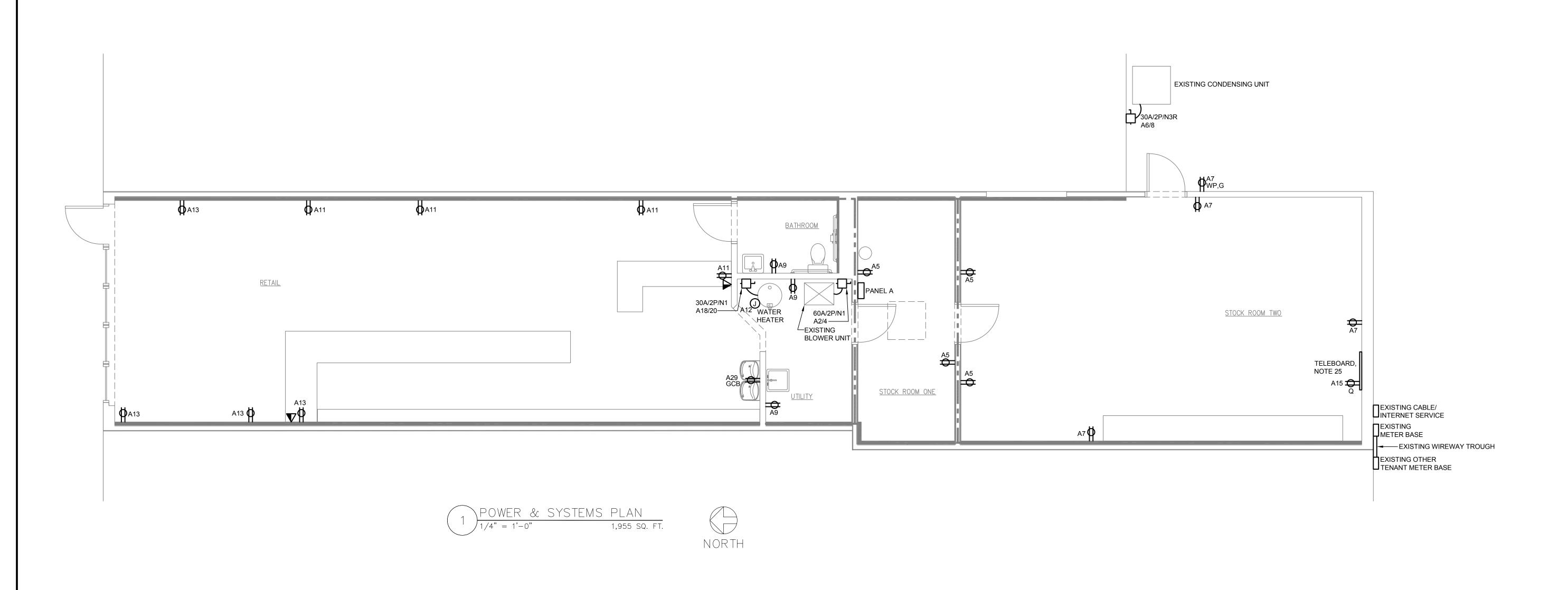
Upfit For:
Clemson Vape Shop
1376 Tiger Boulevard Suite 116 Clemson,
SC 29631

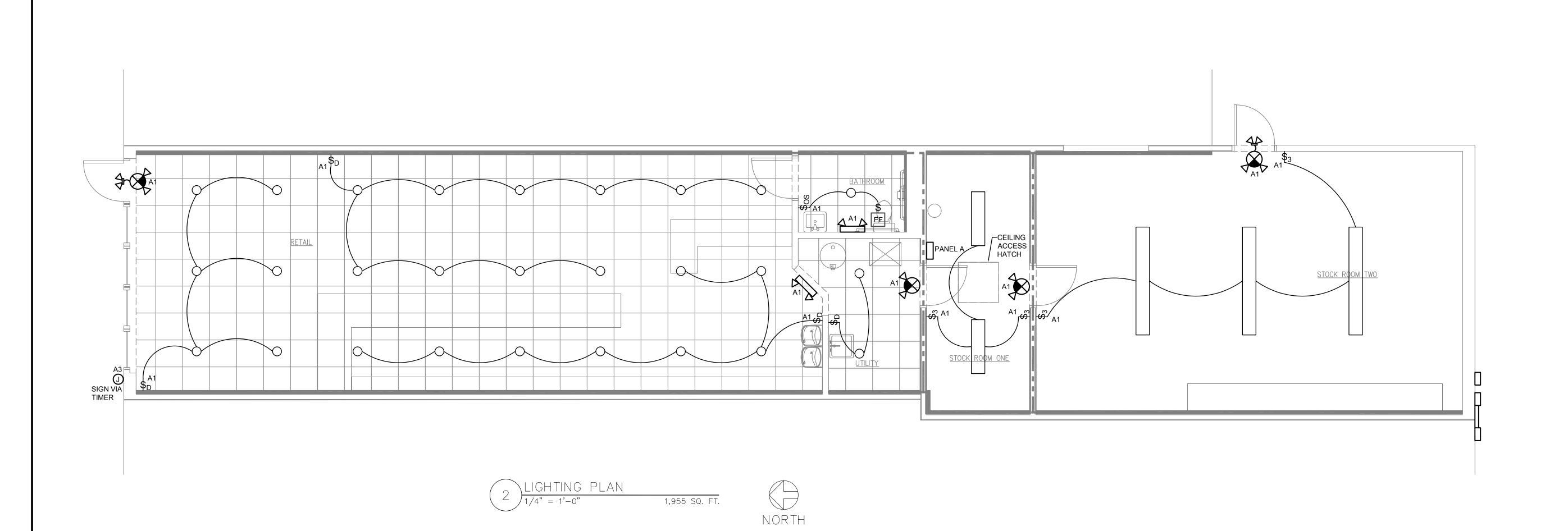
REVISIONS no. 0 date 06/05/25 FOR PERMIT

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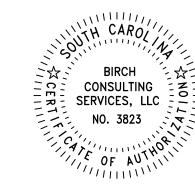






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