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Relea N22329-0 Ziangatatki CV-1.4 APPE 04/11/2023	ESECE	BETCO, Inc. 228 Commerce Blvd. Statesville, NC 28625 Limited Engineering License # D-0140		Image:	PROJEC PROJEC	T NAME: UNIVERSITY STORAGE T ADDRESS: ERWIN, NC 28339 UNIVERSITY STORAGE, LLC ITTLE: APPENDIX B	PROJECT NO.: NC22329 DRAWING NUMBER: CV1.1

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CO, Inc. Commerce Blvd. esville, NC 28625 ted Engineering License # D-0140		- DATE: 10/14/2022 DRAWN BY: DPP SCALE: AS NOTED APPROVED BY: 04/10/2023 BT DATE: APPROVED BY: CALE: APPROVED BY: CALE: APPROVED BY: CALE:	PROJECT NAME: UNIVERSITY STORAGE PROJECT ADDRESS: ERWIN, NC 28339 OWNER: UNIVERSITY STORAGE, LLC VERSITY STORAGE, LLC NC22329 SHEET TITLE: APPENDIX B

SUBMITTED TO :

UNIVERSITY STORAGE, LLC ATTN: ROBERT BAREFOOT 165 SOMMERVILLE PARK ROAD RALEIGH, NC 27603

	SCHEDULE OF DRAWINGS			Ē	RE	CTION DF
		ERC010X		ERC200X		ERC420X
	DRAWING NO. DESCRIPTION	ERC015X		ERC201X		ERC500X
	CV1 COVER SHEET	ERC016X		ERC202X		ERC505NX1
	CV1.1 APPENDIX B	ERC100X	\mathbf{X}	ERC203X		ERC507NX1
	CV2 NOTES	ERC105X	M	ERC204X		ERC515X
	CV7 ANCHOR INSTALLATION	ERC106X		ERC206X		ERC600X
	CV12 FIRE SPRINKLER ATTACHMENT NOTES	ERC110X		ERC207X		ERC601X
		ERC112X		ERC208X		ERC602X
	S0.2 SCHEDULES	ERC115X	x	ERC209X		ERC603X
	S1.1 FLOOR PLAN	ERC120X		ERC250X		ERC604X
	S4.1 ROOF FRAMING PLAN	ERC130X		ERC250XFHP		ERC605X
	S6.1 EXTERIOR ELEVATIONS	ERC150X		ERC251X		ERC606X
	S7.1 BUILDING SECTION	ERC151X		ERC251XFHP	┝─┦	ERC607X
	S7.2 BUILDING SECTION	ERC152X		ERC252X	┝─┦	ERC608X
	SD2 FOUNDATION DETAILS 1-20	EPC153X		ERC251XEHP	┝──┦	ERC609X
l	SD4 FRAMING DETAILS 1-20			ERC253X	┝─┦	
l	SD4 FRAMING DETAILS 21-30				$\left - \right $	
l	SD4 FRAMING DETAILS 31-34 SD5 ROOF FRAMING DETAIL 1-12				$\left - \right $	
l	SD5 ROOF FRAMING DETAIL 13-26	ERC175A			$\left - \right $	
l	SD6 HALLWAY DETAILS 1-13				$\left - \right $	ERC613X
l	SD7 WALL SECTIONS 1-4 SD8 1			ERC257X	$\left - \right $	ERC614X
l	SD8.2	ERC1/8X		ERC258X	┟╴┥	ERC615X
l	SD8.3 GUTTER AND SCULPTURED RAKE TRIM INSTALLATION	ERC1/9X		ERC302X		ERC616X
		ERC180X		ERC303X	X	ERC617X
	F1.2 SAWCUT PLAN	ERC181X		ERC410NXT		ERC618X
		ERC182X				ERC618XAL
_			_		_	

	E	RE	CTION DRA	WINGS		EARTHQUAKE L	OAD DESIGN DATA:
RC010X E	ERC200X		ERC420X	ERC619X	ERC752X	- OCCUPANCY CATEGORY:	II
RC015X E	ERC201X		ERC500X	ERC620X	ERC753X		
RC016X	ERC202X		ERC505NXT	ERC621X	ERC754X	- SEISMIC IMPORTANCE FACTOR (I):	1.0
RC100X	ERC203X		ERC507NXT	ERC622X	ERC800X	- SEISMIC DESIGN CATEGORY:	С
RC105X 📈 I	ERC204X		ERC515X	ERC623X	ERC900X		
RC106X	ERC206X		ERC600X	ERC624X	ERC901X	- ANALYSIS PROCEDURE:	(ASCE 7-10 SECTION 12.8)
RC110X	ERC207X		ERC601X	ERC625X	ERC902X		
RC112X	ERC208X		ERC602X	ERC626X	ERC903X	- BASIC SEISMIC-FORCE-RESISTING SYS	STEM:
RC115X X	ERC209X		ERC603X	ERC630X	ERC904X		DESIGNED FOR SEISMIC RESISTANCE
RC120X	ERC250X		ERC604X	ERC631X	ERC905X		
RC130X E	RC250XFHP		ERC605X	ERC652X	ERC907X	- SITE CLASS:	D
RC150X E	ERC251X		ERC606X	ERC700X	ERC908X	- DESIGN BASE SHEAR (V):	10.41 ^K
RC151X E	RC251XFHP		ERC607X	ERC710X	ERC910X		
RC152X E	ERC252X		ERC608X	ERC711X	ERC911X	- RESPONSE MODIFICATION FACTOR (R):	3.0
RC153X E	RC251XFHP		ERC609X	ERC712X	ERC912X	- SEISMIC RESPONSE COEFFICIENT (CS):	0.065
RC154X E	ERC253X		ERC610X	ERC713X	ERC913X		
RC155X E	ERC254X		ERC611X	ERC720X	ERC914X	- MAPPED SPECTRAL RESPONSE ACCEL	LERATION.
RC175X E	ERC255X		ERC612X	ERC725X	ERC915X		(S _S): 18.3% G
RC176X E	ERC256X		ERC613X	ERC730X	ERC916X		(S): 8.6% C
RC177X E	ERC257X		ERC614X	ERC731X	ERC917X		(01). 0.070 0
RC178X E	ERC258X		ERC615X	ERC731XFHP	ERC918X	- SPECTRAL RESPONSE COEFFICIENTS:	
RC179X E	ERC302X		ERC616X	ERC732X	ERC919X		(S ₅₋₂): 19.5% G
RC180X E	ERC303X	Χ	ERC617X	ERC732XFHP			
RC181X E	RC410NXT		ERC618X	ERC750X			(S _{D1}): 13.7% G
RC182X	UD)		ERC618XALT	ERC751X			

UNIVERSITY STORAGE

ERWIN, NC

	AD DESIGN DATA:
BASIC WIND SPEED:	119 (V-ult) MPH
WIND IMPORTANCE FACTOR (I):	1.0
OCCUPANCY CATEGORY:	II
WIND EXPOSURE:	В
INTERNAL PRESSURE COEFFICIENT:	± 0.18

	SNOW LOA	AD DESIGN DATA:
GROUND SNOW LOAD (Pg):		10 psf
FLAT-ROOF SNOW LOAD (Pf)	:	10 psf
SNOW EXPOSURE FACTOR (Ce):	1.0
SNOW LOAD IMPORTANCE F	ACTOR (I):	1.0
THERMAL FACTOR (Ct):		1.2

Released

NC22329 - RELEASED.pdf

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BUILDING DATA :

BUILDING DESCRIPTION :	METAL BUILDING BOLTED TO CONCRETE SLAB FOUNDATION
BUILDING SIZE :	124' x 164' (VARIES) = 19,845 sq. ft. (APPROX.)
PARKING DATA :	SEE SITE PLAN BY OTHERS
BUILDING CODE :	THE 2018 NORTH CAROLINA STATE BUILDING CODE
DESIGN CRITERIA :	THESE BUILDINGS HAVE BEEN DESIGNED TO CONFORM TO THE STRUCTURAL REQUIREMENTS OF THE 2018 NORTH CAROLINA STATE BUILDING CODE.
	THESE BUILDINGS HAVE BEEN DESIGNED FOR THE FOLLOWING <u>LIVE LOADINGS IN ADDITION TO THE DEAD LOADINGS :</u>
	FLOOR LIVE LOADING: 125 PSF
	USE GROUP: S-1
	TYPE OF CONSTRUCTION II-B
	IT IS THE RESPONSIBILITY OF THE BUYER / OWNER TO VERIFY THE FIREWALL, LIVE LOAD AND WIND LOAD REQUIREMENTS WITH THE LOCAL CODE AUTHORITY.
	BETCO, Inc.

228 Commerce Blvd.

Statesville, NC 28625

Limited Engineering License # D-0140



2018 APPENDIX B BUILDING CODE SUMMAI FOR ALL COMMERCIAL PRO EXCEPT 1 AND 2-FAMILY DWELLINGS AND (Reproduce the following data on the building plans	RY DJECTS TOWNHOUSES) FLOOR s sheet 1 or 2) 6 th Floo	Gross Building Area:	O/ALTER SUB-TOTAL 3Q.FT)	STORY DESCRIPTION AND (A) (B) NO. USE BLDG AREA PER TABLE 506.25 STORY (ACTUM.) AREA	(C) (D) AREA FOR FRONTAGE INCREASE ^{1,3} ALLOWARE AREA PER STORY OR UNLIMITED ^{1,3}	FIRE PROTECTION REQ	UIREMENTS DETAIL # DESIGN # DESIGN # FOR DESIGN # AND FOR RATED FOR RATED FOR RATED FOR RATED JOINTS
of Project: Unive. age ss: 305 Masonic Road NC r/Authorized Agent: Barefoot (910) 890 - 32! d By: City/Co. X Priv: Enforcement Jurisdiction: City_ Co.	Zip Code 28339 Zip Co	or or or or or nine or 19,845 tent TOTAL 19.845		1 STORAGE 19,845 26,000 1 Frontage area increases from Section 506.3 are computed thus: a. Perimeter which fronts a public way or open space having 2 b. Total Building Perimeter =	N/A 26,000 20 feet minimum width =(F)	trusses Bearing Walls Exterior Image: Constraint of the second s	
TACT:	PONE # E-MAIL Primar Ass Bu Edu	ALLOWABLE AREA ry Occupancy Classification: <u>SELECT ONE</u> sembly A-1 A-2 A-3 A-4 A-5 .siness		d. W = Minimum width of public way = (W) e. Percent of frontage increase $I_f = 100 [F/P - 0.25] \times W/30^2$ Unlimited area applicable under conditions of Section 507. ³ Maximum Building Area = total number of stories in the building ⁴ The maximum area of open parking garages must comply with Ta ⁵ Frontage increase is based on the unsprinklered area value in Tab) = (%) x D (maximum 3 stories) (506.2). ble 406.5.4 le 506.2.	Interior Interior Nonbearing Walls and Partitions Interior Exterior walls Interior North Interior East Interior West Interior South Interior	
larm () ing () unical () ural BETCO, Inc. Gilbert () ing Walls >5' High () () ers" should include firms and individuals such as truss, precast, pre-engine ()	Image: Control of Contro of Contro of Contro of Control of Control of Control of Control o	tory \square F-1 Moderate \square F-2 Low zardous \square H-1 Detonate \square H-2 Deflagrate \square H-3 Com titutional \square I-1 Condition \square I \square 2 \square I-2 Condition \square I \square 2 \square I-3 Condition \square I \square 2 \square I-4 ercantile \square sidential \square R-1 \square R-2 \square R-3 \square R-4	ıbust 🗌 H-4 Health 🗌 H-5 HPM] 4 🔲 5	ALLOWABLE HI ALLOWABLE HI CTARE 503) Building Height in Feet (Table 504.3) 55 Building Height in Stories (Table 504.4) 3 ¹ Provide code reference if the "Show on Plans" quantity is not base	SHORN ON PLANS COOL ATTRINCE 15 1 1 0 on Table 504.3 or 504.4.	Interior walls and partitions Floor Construction Including supporting beams and joists Floor Ceiling Assembly Column Supporting Floors Roof Construction, including supporting beams and ioists	
NC CODE FOR: New Construction Addition [1 st Time Interior Completion Shell/Core Phased Construction – Shell/Core Renovation	Renovation	International Control (International	High-piled Repair Garage	² The maximum height of air traffic control towers must comply with ³ The maximum height of open parking garages must comply with T	h Table 412.3.1 'able 406.5.4	Roof Ceiling Assembly Column Supporting Roof Shaft Enclosures - Exit Shaft Enclosures - Other Corridor Separation Occupancy/Fire Barrier Separation	
C EXISTING BUILDING CODE: Prescriptive Repair Alteration: Level I Level Historic Property CONSTRUCTED:(date) ORIGINAL OCCUPANC RENOVATED: (date) CURRENT OCCUPANC CATEGORY (table 1604.5) Current: I I I	iir Chapter 14 Special cl II Level III Mixed Change of Use	Shapter 5 - List Code Sections): Decup No Non-Sepan No The required typ. Stion for the building shall be determined for each of the apply Separated Use (508.4) See below for area calculations	fr. Exception:			Party/Fire Wall Separation	
Proposed: I X II BUILDING DATA	□ III □ IV □ IV □ V-A □ V-B A 13R □ NFPA 13D	ratios of the actual floor area of each by the allowable fl <u>Actual Area of Occupancy A</u> + <u>a</u> <u>COccupan</u> Allowable Area of Occupancy A + <u>A</u> <u>COccupan</u> + <u>A</u> <u>COccupan</u> + <u>COccupan</u> + <u>A</u> <u>COccupan</u> + <u>COccupan</u> + <u>A</u> <u>COccupan</u> + <u>COccupan</u>	toor area for each use shall not exceed 1. $\frac{i c y B}{an c y B} \leq 1$ + = ≤ 1.00			FIRE SEPARATION DEGREES OF OPENINGS DISTANCE (FEET FROM PERPERTY LINES PROTECTION (TABLE 705.8)	ENING CALCULATIONS ALLOWABLE AREA (%) PLANS (%)
ipes: No Yes Class I II III Wet strict: No Yes (Primary) Flood Hazard A Inspections Required: Xo Yes Administrative Code and Policies	Dry Area: No Yes Appendix B for Building 2018 No	2 Administrative Code and Policies	Appendix B .	2018 NC Administrative Code and Policies	Appendix B for Building	2018 NC Administrative Code and Policies	Appendix B for Building
ENERGY SUMMARY Y REQUIREMENTS: wing data shall be considered minimum and any special attribute require	ed to meet the North Carolina Energy	2018 APPENDIX	B	2018 APPENI BUILDING CODE SUMMARY FOR AI MECHANICAL D (PROVIDE ON THE MECHANICLS)	DIX B LL COMMERCIAL PROJECTS ESIGN HEETS IF APPLICABLE)	2018 APPE BUILDING CODE SUMMARY FOR A ELECTRICAL (PROVIDE ON THE ELECTRICAL	NDIX B ALL COMMERCIAL CTS DESIGN L SHEETS IF APPL
ation Code shall also be provided. Each Designer shall furnish the requir lata sheet. If performance method, state the annual energy cost for the sta he proposed design. building envelope complies with code: No Yes (The remain Building: No Yes (Provide Code or Statutory reference):	ired portions of the project information for tandard reference design vs annual energy inder of this section is not applicable) DESIG	3UILDING CODE SUMMARY FOR ALL CO STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEET IN LOADS:	OMMERCIAL PROJECTS	MECHANICAL SU MECHANICAL SUSTEMS AND EQUID Thermal Zone winter dry bub	MMARY PMENT	ELECTRICAL SYSTEM AND EQUIPMENT Method of Compliance: Energy Code:	SUMMARY Performance Performance
Climate Zone: 3A 4A 5A Method of Compliance: Energy Code Performance 6 ASHRAE 90.1 Performance 6 (If "Other" specify source here) 1 IAL ENVELOPE (Prescriptive method only)	Prescriptive Prescriptive	Importance Factors: Snow (Is) Seismic (IE) $\frac{1}{1}$ Live Loads: Roof Mezzanine Floor $\frac{20}{N/A}$ psf Ground Snow Lead: 10 nsf	SEAL 026413	summer dry bulb: Interior design conditions winter dry bulb: summer dry bulb: relative humidity: Building heating load:		Lighting schedule (each fixture type) lamp type required in finan number of lamps in ballast type use a scare number of a structure total scare are interes are provided use allowed (uk	olo huilding or grange hu grange)
Roof/ceiling Assembly (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Skylights in each assembly: U-Value of skylight:	SEISM Provide	Wind Load: Ultimate Wind Speed 119 Exposure Category B IC DESIGN CATEGORY: A B Ethe following Seismic Design Parameters:	mph (As 10/19/22	Building cooling load: Mechanical Spacing Conditioning System Unitary description of unit: heating efficiency:		wattage specified vs. allowed (who defined vs. allowed (who defin	IRAE 90.1)
Total square footage of skylights in each assembly: Exterior Walls (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Openings (windows or doors with glazing)		Risk Category (Table 1604.5) I I II III II II	IV 8.6 %g X D E F nptive Historical Data Ial w/Neremediate R/C or Special Steel verted Pendulum	cooling efficiency: size category of unit: Boiler Size category. If oversized, state reason.: Chiller Size category. If oversized, state reason.:		C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Wa	ter Heating
U-Value of assembly: Solar heat gain coefficient: Projection factor: Door R-Values: Walls below grade (each assembly) Description of assembly:	LATER SOIL B	Analysis Procedure: Simplified X Equ Architectural, Mechanical, Components anchored? X Yes tAL DESIGN CONTROL: Earthquake Wind E BEARING CAPACITIES: Field Test (provide copy of test report)	uivalent Lateral Force Dynamic s No S psf				
U-Value of total assembly:	En	gineer's Seal on this sheet is limite	ed to the Structural				
Floors slab on grade Description of assembly: U-Value of total assembly: R-Value of insulation: Horizontal/Vertical requirement: Slab Heated:	De	sign information ONLY.					
Idministrative Code and Policies	Appendix B for Building 2018 NG	Administrative Code and Policies	Appendix B for Building	20 Anstrative Code and Policies	Appendix B for Building	2018 NC Administrative Code and Policies	Lix B for Building
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<u>GE</u> 1. 2.	NERAL NOTES:			I STEEL		
1. 2.	NERAL NOTES.	STR				
2.	CONCRETE FOUNDATIONS AND FLOOR SLAB ARE TO BE SUPPLIED AND INSTALLED BY OTHERS . WEDGE ANCHORS FOR INTERIOR AND EXTERIOR FOOTINGS SUPPLIED AND INSTALLED BY BETCO.	1.	WIDE FLANC	E SHAPES	INFORM TO I	HE FOLI
	EXTERIOR OPENINGS, NOT DESIGNATED AS DOOR LOCATIONS, TO BE COMPLETED USING EXTERIOR WALL PANELS FURNISHED BY BETCO.		TUBULAR SH ANGLES, PL STEEL PIPE	HAPES ATES AND CHANNE	ELS	AS AS
3.	USE DOW 791 SILICONE CAULK AND 1/2" WIDE BUTYL RUBBER TAPE SEALANT FOR ROOF INSTALLATION. USE DOW 799 SILICONE CAULK AT DOWNSPOUT TO GUTTER JOINT.					AS
4.	INTERIOR PARTITIONS PERPENDICULAR TO ROOF BEAM(S) MUST BE COMPLETED BEFORE ROOF PANELS ARE INSTALLED. USE PARTITION FRAMING TO PLUMB AND SQUARE COLUMNS AND		STANDARD D1.1.	STEEL OLAN ST		
5	HEADER SECTIONS. CHECK BUILDING WIDTH AT TOP OF COLUMNS PRIOR TO ROOF INSTALLATION.	3.	AISC CODE OF S		CE AS MODIFI	
э. 6.	THIS DESIGN IS BASED ON USING ONLY METAL BUILDING COMPONENTS WHICH ARE PROPRIETARY	4.	WITH THE AISC N	MANUAL OF STEEL		ION.
	TO BETCO. FURTHER, THE PROFESSIONAL ENGINEER'S SEAL IS INVALID UNLESS ONLY BETCO METAL BUILDING COMPONENTS ARE UTILIZED.	5.	FABRICATOR IS I DRAWINGS. FOR ENGINEER.	RESPONSIBLE FOR THE PURPOSE OF	CONNECTIO	I OF CON N DESIG
7.	METAL STUDS (IF APPLICABLE) MAY REQUIRE FIELD CUTTING DEPENDING UPON THE EAVE HEIGHT OF THE STRUCTURE.	a.	GENERALLY, C			RAWING
8.	UNIT SIZES SHOWN ARE NOMINAL. ACTUAL CLEAR DIMENSIONS INSIDE UNITS MAY VARY ACCORDING TO FINAL DESIGN OF COMPONENTS.	b.	MEMBER FORC	ES AND REACTION	S SHOWN HA	
9.	THESE DRAWINGS ARE THE PROPERTY OF BETCO, INC. AND MAY NOT BE USED OR REPRODUCED		PROVISIONS FURTHER RI	RELATED TO CON EDUCTIONS IN FOR	IBINATIONS C CES OR INCF	OF LOAD REASES
10.	THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE	c. d	CONNECTIONS	MAY BE BOLTED C	R WELDED, U	JNLESS
11.	ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL SLEEVES, PADS,	u.		NS. OVERSIZED OF	R LONG-SLOT	TED HO
	DEPRESSIONS, OPENINGS, ETC. AS REQUIRED BY THE VARIOUS TRADES.	e.	CONNECTIO NOTED. IN S	NS. OVERSIZED AN	ID LONG-SLO	ITTED HO
		f.	FASTENERS	SHALL NOT BE TO	RQUED, AND	SHORT
<u>CO</u>	INSTRUCTION AND SAFETY:	q.	OTHERWISE PROTRUDING E	NOTED.	TS OR NUTS	SHALL N
1.	THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT.	9.	ARCHITECT ELEVATION.	JRAL FINISHES OR	PLACEMENT	OF STE
2.	THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE	h.	CONNECTION I	DESIGNER IS RESP OR BOLT HOLES. N	ONSIBLE FOR EMBER SIZE	R VERIFY MAY BE
3.	OR LOSS. MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS ARE	i.	REQUIRED O	CAPACITY. GS SHALL INDICATI	E THE TYPE C	OF BOLT
4	SOLELY THE CONTRACTORS RESPONSIBILITY.			RIOUS BOLT TYPE	S AND CAPAC	
4.	OTHER CONSULTANTS AND TRADES. THE CONTRACTOR SHALL COORDINATE THE VARIOUS REQUIREMENTS.	j.	CONNECTIO	N DETAILED ON TH	E SHOP DRA	WINGS.
5.	NO OPENINGS NOR ANY CHANGES IN SIZE, DIMENSION OR LOCATION SHALL BE MADE IN ANY STRUCTURAL FLEMENTS WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER	6. 7.	SPLICING OF STI	EEL MEMBERS, UN	LESS SHOWN	
6.	THE CONTRACTOR IS RESPONSIBLE FOR LINE THIS THE ON THE OFFICIAL ELICITY AND A DESCRIPTION LOAD	8		HE STRUCTURAL E	NGINEER.	
	IMPOSED ON THE STRUCTURE. SUCH LOADS SHALL NOT EXCEED THE CAPACITY OF THE STRUCTURE AT ANY TIME.	o.	STIFFENED THE	REBY HAS BEEN PF		GNED.
7.	THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT REQUIRED TO ACCOMMODATE THE CONTRACTORS MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR	9.	WINIMUM PLATE SHALL BE 3/16" F	I HICKNESS SHALL ILLET, AND MINIMU	. ๒౬ 1/4", MINI IM FIELD WEL	D SHAL
8.	THE CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER, CLEARLY AND EXPLICITLY IN	10.	ALL RE-ENTRAN WITH A RADIUS (T CORNERS (SUCH OF AT LEAST 1/2".	AS COPES A	ND BLO
	WKITING, OF ANY DEVIATION OR SUBSTITUTION OF REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS NOT RELIEVED OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS BY VIRTUE OF THE STRUCTURAL ENGINEERS REVIEW OF SHOP DRAWINGS	11.	FIELD USE OF GA PRIMARY STRUC	AS CUTTING TORCI TURAL FRAMING.	HES IS PROHI	IBITED F
	PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS CLEARLY AND EXPLICITLY INFORMED THE STRUCTURAL ENGINEER IN WRITING OF ANY DEVIATIONS OR SUBSTITUTIONS AT TIME OF STRUCTURAL ENGINEER IN WRITING OF ANY DEVIATIONS OR SUBSTITUTIONS AT TIME OF	12.	STEEL DECK SH	ALL BE SECURELY	ATTACHED TO	O SUPP(
	SUDMISSION, AND THE STRUCTURAL ENGINEER HAS GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATIONS OR SUBSTITUTIONS.	13.	FABRICATE ALL	BEAMS WITH MILL	AMBERS UP	
9.	ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE DRAWINGS OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER CORRECTIONS OR MULTER					
	INTERPRETATIONS SHALL BE ISSUED BEFORE AFFECTED WORK MAY PROCEED.					
10.	CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY THE EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE INFORMED IN WRITING OF CONFLICTS RETWEEN EXISTING AND PRODOSED					
	NEW CONSTRUCTION.					
11.	CUN FRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS. INCONSISTENCIES ON THE STRUCTURAL DRAWINGS OR BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER CONTRACT. SHOP. FABRICATION OR OTHER DRAWINGS OR					
	INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.					
12.	DO NOT SCALE THESE DRAWINGS, USE THE DIMENSIONS SHOWN.					
BRI	CK VENEER - STEEL STUDWALLS:					
1. A	IR SPACE: a. 2 in (51 mm) MINIMUM AIR SPACE RECOMMENDED + 1 in (24.5 mm) MINIMUM AIR SPACE REQUIRED.					
Ľ	5. 4 1/2 in (114 mm) MAXIMUM DISTANCE REQUIRED BETWEEN BACK OF BRICK VENEER AND STEEL FRAMING UNLESS ANCHORS ARE RATIONALLY DESIGNED.					
2. F	LASHING: a. DO NOT STOP FLASHING BEHIND FACE OF THE BRICKWORK. DI ACE FLASHING AT ALL DOINTS WIJERE AID SPACE IS INTERPRIDTED					
t c	 PLACE FLASHING AT ALL POINTS WHERE AIR SPACE IS INTERRUPTED. EXTEND FLASHING VERTICALLY UP THE BACKING TO 8 in (203 mm) MINIMUM HEIGHT. LAP FLASHING 4 in (102 mm) MINIMUM HEIGHT UNDER WATER-RESISTANT BARRIER OR 					
e	BEHIND SHEATHING ABOVE GRADE. 9. INSTALL BASE FLASHING MINIMUM 6 in (152 mm) ABOVE GRADE. 1. TURN UP FLASHING FOND INTO HEAD JOINT A MINIMUM OF 1 in (25.4 mm) FOR FORM FUR DAMA					
t 3. V						
a t	a. OPEN HEAD JOINT WEEPS SPACED AT NO MORE THAN 24 in (610 mm) O.C. RECOMMENDED.					
	D. MOST BUILDING CODES PERMIT WEEPS NO LESS THAN 3/16" in (4.8 mm) DIAMETER AND SPACED					
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ALL CONFORM TO THE FOLLOWING:	CONCRETE: SUBMIT WRITTEN REPORTS OF EACH PROPOSED CONCRETE DESIGN MIX NOT LESS THAN 15 DAYS PRIOR TO THE OTADE OF WORK, DESIGN MIXED PREPARED NORE THAN THE VERY NO MONTH OF PROPIDED TO THE					
ASTM A992, 50-65 KSI ASTM A500 GRADE B 46 KSI HANNELS ASTM A50, 236 KSI ASTM A52	2. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT ACI BUILDING CODE					
ASTM ASS ASTM A36	REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14). 3. ALL CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY FOR STANDARD PARAMETERS (SLUMP, COMPRESSIVE STRENGTH, ETC.) TWO COPIES OF ALL REPORTS SHALL BE SUBMITTED TO THE ENGINE FR/ARCHITECT					
ALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE RACTICE AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS. ATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE STEEL CONSTRUCTION.	4. ALL NORMAL WEIGHT CONCRETE SHALL HAVE ASTM C-33 AGGREGATE WITH MAXIMUM UNIT WEIGHT OF 150 PCF. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 PSI AT 28 DAYS, MINIMUM FOR FOUNDATIONS AND SLABS ON GRADE. ALL CONCRETE FOR FLOOR SLABS ON METAL DECK FORMS SHALL BE NORMAL WEIGHT CONCRETE WITH COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.	Table 25.3.1 - Star	ndard hook geom	etry for developem	ent of deformed ba	irs in tension.
E FOR THE DESIGN OF CONNECTIONS NOT DESIGNED ON THE STRUCTURAL SE OF CONNECTION DESIGN, FABRICATOR SHALL RETAIN A PROFESSIONAL	5. MIX DESIGNS, INCLUDING WATER CEMENT RATIOS AND SLUMPS, SHALL BE PREPARED IN ACCORDANCE WITH MOST CURRENT ACI 301 CHAPTER 3, EXCEPT WHERE NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS. CEMENT SHALL COMFORM TO ASTM C 150 TYPE 1 OR AT CONTRACTOR'S OPTION, ASTM C 595 TYPE IP WHERE FLY ASH IS PERMITTED. NORMAL WEIGHT CONCRETE SHALL CONFORM TO	Type of standard hook	Bar size	Minimum inside bend	Straight extension ^[1]	Ту
S SHOWN ON THE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO IP OF THE MEMBERS. CTIONS SHOWN HAVE BEEN REDUCED IN CONFORMANCE TO CODE O COMBINATIONS OF LOADS THAT INCLUDE WIND AND SEISMIC FORCES. NO	ASTM C 33 AGGREGATE WITH MAXIMUM UNIT WEIGHT OF 150 PCF AND LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C 330 AGGREGATE. NO ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL BE PERMITTED IN ANY CONCRETE. AGGREGATE SIZES SHALL BE:		No. 3 through	6d,	Cext, III.	
IN FORCES OR INCREASES IN ALLOWABLE STRESSES ARE PERMITTED. .TED OR WELDED, UNLESS OTHERWISE NOTED ON THE DRAWINGS. NS WITH A325SC BOLTS SHALL BE USED IN ALL BOLTED MOMENT PLATE	1. FORMED CONCRETE ELEMENTS, U.N.O. #67 STONE (3/4" MAX) II. GRADE SLABS AND EARTH FORMED ELEMENTS. #57 STONE (1" MAX) III. COARSE MASONRY GROUT REQUIRED #67 STONE (3/4" MAX) IV. FINE MASONRY GROUT REQUIRED #8 STONE (3/4" MAX)	90-degree	No. 9	8d	12d.	
2ED OR LONG-SLOTTED HOLES ARE PERMITTED. INS WITH A325N_BOLTS SHALL BE USED FOR ALL OTHER BOLTED ZED AND LONG-SLOTTED HOLES ARE NOT PERMITTED UNLESS OTHERWISE LATE CONNECTIONS ONLY BEARING TYPE FASTENERS ARE PERMITTED, DET TOPOLISED AND SUPERT OF UNDER ADD FOR UNDER DESIDE	 WATER REDUCING ADMIXTURE SHALL BE USED IN ALL CONCRETE. AIR ENTRAINING ADMIXTURE IN ACCORDANCE WITH ACI 301-84 TABLE 3.4.1. SHALL BE USED IN ALL CONCRETE EXPOSED TO FREEZING AND THAWING DURING CONSTRUCTION OR SERVICE CONDITIONS. 	ποοκ	No. 11 No. 14	10d,		Dia
RODS, WHERE INDICATED, SHALL CONFORM TO ASTM A36 UNLESS	 WATER/CEMENT RATIO SHALL NOT EXCEED 0.45 FOR ANY CONCRETE SUBJECTED TO FREEZING/THAWING. ALL PUMPED CONCRETE SHALL HAVE A WATER/CEMENT RATIO LESS THAN 0.45 AND SHALL CONTAIN A HIGH RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER). 		No. 18 No. 3 through	6d ,		
ES OR PLACEMENT OF STEEL DECK AT ITS CORRECT LOCATION AND RESPONSIBLE FOR VERIFYING THE AXIAL CAPACITY AFTER A SECTION IS LES. MEMBER SIZE MAY BE INCREASED OR PLATES ADDED TO MAINTAIN	10. IN NO CASE SHALL A WATER/CEMENT RATIOS EXCEED THE FOLLOWING: I. ALL FOUNDATION CONCRETE fc 3000 psi II. EXTERIOR PAVING CONCRETE fc 3500 psi 0.50 MAX. W/C RATIO III. ALL EXPOSED C.I.P. WATERTABLE, PIERS, ETC. fc 3500 psi 0.45 MAX. W/C RATIO	180-degree	No. 8 No. 9 through	8d .	Greater of	
DICATE THE TYPE OF BOLT USED IN EACH CONNECTION, ALLOWABLE VALUES TYPES AND CAPACITY OF EACH CONNECTION SHOWN.	 IIII. SLABS ON GRADE fc 3000 psi	hook	No. 11 No. 14	10d,	4 d _b and 2.5 in.	
DICATE WELD TYPE, REQUIRED ELECTRODES AND CAPACITY FOR EACH ON THE SHOP DRAWINGS. SHALL COMPLY WITH THE REQUIREMENTS OF AWS D1.1 TABLE 4.1.1.	 FLOORS IN AREAS RECEIVING QUARRY TILE, CERAMIC TILE AND LIQUID FLOOR HARDENER SHALL BE CURED WITH DISSIPATING LIQUID MEMBRANE CURING COMPOUND OR WET CURED BY USE OF MOISTURE RETAINING COVER. DISSIPATING CURING COMPOUND SHALL BE THOROUGHLY BROOMED AND WASHED OFE PRIOR TO APPLICATION OF ELOOPE EINISH 	^[1] A standard hook	No. 18	rs in tension include	es the specific insid	le bend diame
IS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN IRAL ENGINEER. ING SHALL BE PERFORMED UNTIL AS MUCH OF THE STRUCTURE AS WILL BE EEN PROPERLY ALIGNED.	 USE A NON-CORROSIVE, NON-CHLORIDE ACCELERATING ADMIXTURE IN CONCRETE EXPOSED TO TEMPERATURES BELOW 40 DEGREES. UNIFORMLY HEAT THE WATER AND AGGREGATES TO A TEMPERATURE OF NOT LESS THAN 50 DEGREES. PLACE AND CURE CONCRETE IN ACCORDANCE WITH ACI 200 	considered to incre	ermitted to use a	longer straight exte ge capacity of the h	ension at the end o ook.	IT A NOOK. A IO
SHALL BE 1/4", MINIMUM BOLT DIAMETER SHALL BE 3/4", MINIMUM SHOP WELD MINIMUM FIELD WELD SHALL BE 1/4" FILLET UNLESS OTHERWISE NOTED.	 ACI 300. ALL CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE UNLESS THEIR ELIMINATION IS APPROVED BY THE STRUCTURAL ENGINEER. 	Table 25.3.2 - Min	imun inside bend	diameters and star	ndard hook geomet	try for stirrups
(SUCH AS COPES AND BLOCKS) SHALL BE CUT AND SHAPED NOTCH FREE 1/2". TORCHES IS PROHIBITED FOR CORRECTING FABRICATION ERRORS IN	15. REINFORCING IN ALL ABUTTING CONCRETE, INCLUDING FOOTINGS, SHALL BE CONTINUOUS THROUGH OR AROUND ALL CORNERS OR INTERSECTIONS. DOWELS OR SPLICES SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ABUTTING MEMBERS.	Type of standard hook	Bar size	Minimum inside bend diameter, in.	Straight extension ^[1] ℓ _{ext} , in.	Ту
IRELY ATTACHED TO SUPPORTING MEMBERS AS DETAILED. MILL CAMBERS UP.	 REFER TO ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIPS, REGLETS, WASHES, MASONRY ANCHORS, BRICK LEDGE ELEVATIONS, SLAB DEPRESSIONS AND MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC. EORMS FOR ROUND COLUMNS SHALL BE ONE PIECE EIBERGLASS FORM TO PRODUCE SMOOTH EINISH 	90-degree	No. 3 through No. 5	4d _{<i>b</i>}	Greater of $6d_b$ and 3 in.	
	 ON EXPOSED COLUMNS. 18. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301. 	hook	No. 6 through No. 8	6d _b	12d _b	Dia
	 BASE PLATES, ANCHOR RODS, SUPPORT ANGLES AND OTHER STEEL EXPOSED TO EARTH OR GRANULAR FILL SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE. FINISHING TOLERANCE SHALL BE WITHIN CLASS B IN ACCORDANCE WITH ACI 301 AND CONSIDERATION SHALL BE GIVEN TO SEQUENCING OF CONCRETE PLACEMENT TO FACILITATE CONTROL OF FINISH 	135-degree	No. 3 through No. 5	4d _{<i>b</i>}	Greater of 6d _b	
	ELEVATIONS. 21. NON-SHRINK GROUT SHALL BE PRE-MIXED, NON-CORROSIVE, NON-METALLIC, NON-STAINING CONTAINING SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AND WATER REDUCING AGENTS. PRODUCTS SHALL ONLY REQUIRE THE ADDITION OF WATER. MINIMUM COMPRESSIVE STRENGTH SHALL	hook	No. 6 through No. 8	6d _{<i>b</i>}	and 3 in.	1
	BE 5000 PSI AFTER ONE DAY AND 7000 PSI AFTER 28 DAYS. GROUT SHALL BE FREE OF GAS PRODUCING OR AIR RELEASING AND OXIDIZING AGENTS AND CONTAIN NO CORROSIVE IRON, ALUMINUM OR GYPSUM. 22. PROVIDE CONCRETE GROUT - NOT MORTAR - FOR REINFORCING MASONRY LINTEL AND BOND BEAMS WHERE INDICATED ON DRAWINGS OR AS SCHEDULED.	180-degree	No. 3 through No. 5	4d _b	Greater of $4d_b$	
	23. TOLERANCE FOR ANCHOR RODS AND OTHER EMBEDDED ITEMS SHALL BE PER THE AISC CODE OF STANDARD PRACTICE SECTION 7.5. 24. LINE ESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS. PROVIDE 3/4" CHAMEERS AT ALL	hook	No. 6 through No. 8	6d _{<i>b</i>}	and 2.5 in.	[
	COLUMN, WALL, SLAB, OR BEAM EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.	^[1] A standard hook length. It shall be p considered to incre	t for stirrups, ties, permitted to use a ease the anchorag	and hoops include longer straight exte ge capacity of the h	s the specific inside ension at the end o ook.	e bend diamel f a hook. A lo
	FOUNDATIONS:	[
	 PRESUMED SOIL BEARING CAPACITY IS 3000psf ON FIRM VIRGIN SOIL OR COMPACTED ENGINEERED FILL. BEARING CAPACITY SHALL BE VERIFIED BY THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO PLACING FOOTING CONCRETE. TOP OF FOOTING ELEVATIONS AS SHOWN ON THE DRAWINGS ARE TO BE DETERMINED BY THE 	Table 7 – 1 f _c = 3,000 ps	Tension Develo	opment and La	o Splice Length	is for Bars
	CONTRACTOR IN THE FIELD IN ACCORDANCE WITH THE GUIDE LINES SET FORTH IN THE DRAWINGS AND SPECIFICATIONS. 3. FILL MATERIAL SHALL BE FREE OF ROOTS, WOOD OR OTHER ORGANIC MATERIAL AND COMPLY	Bar Lap Size Class	Concrete Co Uncoated	Epoxy-Coated U	Concrete Cover = 1 Incoated Epoxy- on Other Top	.50 in. Co Coated Un
	WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. MATERIALS USED FOR FILL UNDER FOOTINGS AND WITHIN BUILDING LIMITS SHALL BE TESTED AND APPROVED FOR THE USE BY THE GEOTECHNICAL TESTING AGENCY.	#3 A B	13 12 17 13	17 15 22 20	13 12 17 17 13 22	15 13 20 17
	 ALL FILL MATERIALS SHALL BE SELECTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. MATERIALS SHALL BE CLEAN, LOW PLASTIC SOIL WITH A PLASTICITY INDEX OF 10 OR LESS (MAXIMUM OF 10) LIQUID LIMIT OF 45 OR LESS (MAXIMUM OF 45) LINIT WEIGHT OF 120 PCC (+5 PCE) 	#4 B	22 17 28 22 32 24	28 25 37 37 32 2 41 37 3	17 13 23 13 17 29 12 17 28	20 17 26 23 25 22
	(MAXIMUM OF 10), LIQUID LIMIT OF 45 OR LESS (MAXIMUM OF 45), ONTI WEIGHT OF 120 PCP (±5 PCP), AND SHALL BE FREE OF FIBROUS ORGANIC MATERIALS. PARTIALLY WEATHERED ROCK MATERIALS MAY BE USED FOR STRUCTURAL FILL PROVIDED THE MATERIAL CAN BE REDUCED TO MAXIMUM DIMENSIONS OF 6 INCHES	#5 B #6 B	41 32 43 33 56 43	54 47 3 56 50 3 73 64 3	28 22 37 26 20 34 34 26 44	32 28 30 26 39 34
	 FILL PLACED BELOW FOOTING BASE ELEVATION AND WITHIN THE TOP 12 INCHES OF SOIL SUB GRADE BELOW PAVEMENTS SHALL BE COMPACTED TO AT LEAST 98 PERCENT OF THE MATERIAL'S 	#7 A B	69 53 90 69	90 80 4 117 104 5	43 33 55 55 43 72	49 38 64 49
	MAXIMUM DRY DENSITY PER ASTM D-698. FILL PLACED ABOVE FOOTING ELEVATION FOR SUPPORT OF THE LIGHTLY LOADED FLOOR SLABS (250 PSF OR LESS) OR MORE THAN 12 INCHES FROM THE FINISHED SUB GRADE LEVEL WITHIN THE PAVEMENT AREAS SHOULD BE COMPACTED TO AT LEAST	#8 A B	86 66 111 86 104 80	112 99 5 146 128 7 136 120 6	54 41 70 70 54 91 96 51 86	62 43 80 56 75 53
	95 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D-698. THE FILL SHALL BE PLACED AND COMPACTED AT MOISTURE CONTENTS WITHIN A RANGE OF 1 PERCENT BELOW TO 3 PERCENT ABOVE THE MATERIAL'S OPTIMUM MOISTURE CONTENT PER ASTM D-698.	#9 B	135 104 125 96	176 155 8 163 144 8	86 66 112 81 62 106	99 69 93 66
	 UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEERS APPROVAL. 	#11 A	162 125 146 113	212 187 1 191 169 1 248 219 1	05 81 137 97 74 126 25 97 164	121 85 111 79
	 CONTRACTOR SHALL REMOVE AND REPLACE UNACCEPTABLE SOILS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. ALL SOILS WITH PLASTICITY INDICES GREATER THAN 10 SHALL BE 	Table – T	ension Develo	poment and Lan	Splice Length	s for Bars i
	REMOVED TO A DEPTH OF NOT LESS THAN 3'-0" OR GREATER AS DIRECTED BY THE GEOTECHNICAL ENGINEER WHERE SUCH MATERIAL OCCURS BELOW FOUNDATIONS.	f _c ' = 4,000 ps	si		opnee Lengun	
	 FOUNDATION WALLS RETAINING EARTH SHALL BE BRACED AGAINST BACK FILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE. 	Bar Lag Size Clas	Uncoated	Epoxy-Coated	Uncoated Epoxy	y-Coated U
	 9. FOUNDATION WALLS OR GRADE BEAMS HAVING EARTH PLACED ON EACH SIDE SHALL HAVE BOTH FILLED SIMULTANEOUSLY TO MAINTAIN A COMMON ELEVATION. 10. DO NOT PLACE CONCRETE IN ANY EXCAVATION CONTAINING ICE, FROST, FROZEN GROUND OR 	#3 A	12 12 15 12	15 13 19 17	12 12 15 15 12 19	13 12 17 15
	FREE WATER. FROZEN SUB GRADES MUST BE THAWED AND RECOMPACTED PRIOR TO PLACING CONCRETE.	#4 8	19 15 24 19	24 22 32 28	15 12 20 20 15 25	17 15
	11. EARTH FORMED FOOTINGS SHALL CONFORM TO THE SHAPE, LINES, AND DIMENSIONS AS SHOWN ON THE FOUNDATION PLAN. ALL WATER SHALL BE REMOVED BEFORE DEPOSITING CONCRETE.	#5 A B	28 21 36 28 37 29	36 32 47 41 49 43	19 15 24 24 19 32 22 17 29	22 19 28 24 26 22
	12. BEFORE PLACING CONCRETE, ALL EMBEDDED ITEMS SHALL BE PROPERLY LOCATED, ACCURATELY POSITIONED, AND MAINTAINED SECURELY IN PLACE.	#6 B	48 37 60 46	63 56 78 69	29 22 38 37 28 48	34 29 42 33
	13. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.	#8 A	78 60 74 57 95 74	102 90 97 86 126 111	48 37 62 47 36 61 60 47 79	55 42 54 37 70 40
	14. PERIMETER FOUNDATION MUST NOT EXCEED 1/4" ELEVATION VARIATION ALONG ANY 50' DISTANCE OF BUILDING LENGTH.	#9 A B	90 69 117 90	117 104 153 135	57 44 75 74 57 97	66 46 86 60
	15. THE AMERICAN CONCRETE INSTITUTE DOES NOT RECOGNIZE FIBERMESH AS A SUBSTITUTE FOR WIRE MESH REINFORCED CONCRETE WHEN SUBJECTED TO TENSILE STRESS.	#10 A	108 83 140 108 127 98	141 125 183 162 168 146	70 54 92 91 70 119 84 64 109	81 57 105 74 97 69
	16. SAW CUT CONTROL JOINTS IN SLAB SURFACE AS SHOWN ON PLANS OFFSET CUTS 2'-6" MINIMUM FROM INTERIOR COLUMN LINES.	#11 B	165 127	215 190	109 84 142	125 85
	17. PERIMETER FOUNDATION TO EXTEND BELOW FROST LINE. VERIFY REQUIRED DEPTH WITH LOCAL BUILDING OFFICIALS PRIOR TO PROCEEDING WITH FOUNDATION WORK AND NOTIFY ENGINEER OF	1. Tabulated	values are based	on a minimum yield	strength of 60,000 p	si and normal-
	DEVIATION FROM DRAWING.	2. Tension de sizes limit	evelopment length ed to #3 through #	s and tension lap spl 11.	ice lengths are calco	ulated per ACI
		3. When the to be great	variable "c _b " from iter than 1.0 d _b plu	ACI 25.4.2.3 was ca s twice the concrete	lculated, it was assu cover.	amed that conc
		4. Lap splice (ACI 318	lengths (minimum 25.5.1). When deter	of 12 inches) are m rmining the lap solid	ultiples of tension de e length, ĉ , is calcu	evelopment len lated without th
Poloacad		5. Top bars a	are horizontal bars	with more than 12 in	iches of concrete ca	st below the ba
INTITASTU		(for top ba	ars) or 0.8 (for othe	r bars).		

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REVISIONS

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for Bars in Wall

		Cone	crete Co	ver = 0.	75 in.	Cone	rete Co	ver = 1.	50 in.	Cone	rete Co	ver = 2.	00 in.	Con	crete Co	ver = 3	.00 in.
Size	Class	Unce	oated	Epoxy	Coated	Uno	oated	Epoxy	Coated	Unce	oated	Epoxy	Coated	Unce	oated	Epoxy	Coated
5120	61000	Тор	Other	Тор	Other	Тор	Other	Тор	Other	Тор	Other	Тор	Other	Тор	Other	Тор	Other
#2	A	12	12	15	13	12	12	15	13	12	12	15	13	12	12	15	13
113	В	15	12	19	17	15	12	19	17	15	12	19	17	15	12	19	17
	A	19	15	24	22	15	12	20	17	15	12	20	17	15	12	20	17
	В	24	19	32	28	20	15	25	22	20	15	25	22	20	15	25	22
45	A	28	21	36	32	19	15	24	22	19	15	24	22	19	15	24	22
*9	В	35	28	47	41	24	19	32	28	24	19	32	28	24	19	32	28
-	A	37	29	49	43	22	17	29	26	22	17	29	26	22	17	29	26
NO	В	48	37	63	56	29	22	38	34	29	22	38	34	29	22	38	34
47	A	60	46	78	69	37	28	48	42	33	25	43	38	33	25	43	38
	в	78	60	102	90	48	37	62	55	42	33	55	49	42	33	55	49
#0	A	74	57	97	86	47	36	61	54	37	29	49	43	37	29	49	43
-	В	96	74	126	111	60	47	79	70	48	37	63	56	48	37	63	56
400	A	90	69	117	104	57	44	75	66	46	36	60	53	42	32	55	48
11.0	В	117	90	153	135	74	57	97	86	60	46	78	69	55	42	71	63
#10	A	108	83	141	125	70	54	92	81	57	44	74	68	47	36	62	55
#10	В	140	108	183	162	91	70	119	105	74	57	97	85	61	47	80	71
#44	A	127	98	168	146	84	64	109	97	68	53	89	79	52	40	69	60
	В	165	127	215	190	109	84	142	125	89	68	116	102	68	52	89	79

i and normal-weight concrete. Lengths are in inches. lated per ACI 318-14, Sections 25.4.2.3 and 25.5.1, respectively, with bar

DATE

evelopment lengths; Class A = 1.0 ℓ_d and Class B = 1.3 ℓ_d lated without the 12-inch minimum of ACI 25.4.2.1. t below the bars. oncrete cover is at least 3.0 d_b, then lengths may be multiplied by 0.918

7. For Grade 75 reinforcing bars, multiply the tabulated values by 1.25. For Grade 80 reinforcing bars, multiply the tabulated values by 1.33. 8. For lightweight concrete, divide the tabulated values by 0.75.



er	Тор	Other	Тор	Other	Тор	Other
	17	15	13	12	17	15
	22	20	17	13	22	20
	23	20	17	13	23	20
	29	26	23	17	29	26
	28	25	22	17	28	25
	37	32	28	22	37	32
	34	30	26	20	34	30
	44	39	34	26	44	39
	49	43	38	29	49	43
	64	56	49	38	64	58
	56	50	43	33	56	50
	73	64	56	43	73	64
	70	61	48	37	63	56
	90	80	63	48	82	73
	86	76	55	42	71	63
	111	98	71	55	93	82
	103	91	61	47	79	70
	134	118	79	61	103	91

med that concrete cover controlled. That is, c.-c. spacing was assumed

	EXPOSU	ACI 318 RE CATE	- TABLE 4.2.1 GORIES AND CLASSES	
CATEGORY	SEVERITY	CLASS	CONDITION	
F FREEZING AND THAWING	NOT APPLICABLE	F0	CONCRETE NOT EXPOSED TO AND-THAWING CYCLI	FREEZING- ES
S SULFATE			WATER-SOLUBLE SULFATE (SO₄) IN SOIL, PERCENT BY WEIGHT	DISSOLVED SULFATE (SO ₄) IN WATER, ppm
	NOT APPLICABLE	S0	SO ₄ < 0.10	SO ₄ < 150
P REQUIRING LOW PERMEABILITY	NOT APPLICABLE	P0	IN CONTACT WITH WATER WHI PERMEABILITY IS NOT REQ	ERE LOW UIRED
C CORROSION PROTECTION OF REINFORCEMENT	MODERATE	C1	CONCRETE EXPOSED TO MOIS NOT TO EXTERNAL SOURCES OF	TURE BUT CHLORIDES

BELIEVE OTHERWISE, ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CONSTRUCTION. WS OR HAS REASON TO REFERENCE ACI 318 - TABLE 4.3.1 FOR REQUIREMENTS FOR CONCRETE BY EXPOSURE CLASS.

BRICK LINTEL SCHEDULE				
MAXIMUM OPENING WIDTH	STEEL ANGLE			
4'-0"	∠3 x 3 1/2 x 1/4 LLH			
6'-0"	∠4 x 3 1/2 x 1/4 LLV			
8-0"	∠6 x 3 1/2 x 5/16 LLV			
10'-0"	∠6 x 3 1/2 x 5/16 LLV			
12'-0"	∠7 x 4 x 3/8 LLV			
14'-0"	∠7 x 4 x 3/8 LLV			
1. PROVIDE 8" MINIMUM BEARING. 2. ALL EXPOSED LINTELS TO BE HOT DIP GALVANIZED				

3. ABOVE SCHEDULE FOR LOOSE STEEL LINTELS AT 1st FLOOR ONLY (NOT BY BETCO)

BRICK LINTEL SCHEDULE



WIND COMPONENTS & CLADDING ZONE DIAGRAMS (Vult PRESSURES)

		DATE: 10/14/2022		UNIVERSITY STORAGE				
		10/11/2022	DETCO					
╉		DRAWN BY:		PROJECT ADDRESS:				
		DPP		ERWIN, NC 28339				
		SCALE:						
+		AS NOTED			PROJECT NO.:			
				UNIVERSITY STORAGE, LLC	NC22329			
╉		APPROVED BY:	STATESVILLE, NC 28625		DRAWING NUMBER:			
			(800)654-7813		\sim			
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			_
12014 YPSUM HARP E	BOARD SCREW	F12041 GYPSUM BOARD SCREW DRILL END	
	F38080 3/8"Ø WASHER F50049 1/2"Ø WASHER	E38081 3/8"Ø STAR WASHER	
IER			
		DDG IFGT NAME:	

UNIVERSITY STORAGE 10/14/2022 BETCO PROJECT ADDRESS: ERWIN, NC 28339 UNIVERSITY STORAGE, LLC AS NOTED

228 COMMERCE BLVD. STATESVILLE, NC 28625 (800)654-7813

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Figure 5 – Acceptable locations (shaded areas) for Hilti KWIK HUS-EZ anchors in grout-filled concrete masonry



Figure 6 – Edge and end distances for the Hilti KWIK HUS-EZ anchor installed in the top of CMU masonry wall construction

Installation torque



Figure 7 – Anchor locations in end of wall or wall opening applications

SETTING INFORMATION	Linita	Normal Anchor Diameter (In.)									
	Units	3/8			1/2			5/8		3/4	
Installation torque	ft*lb	40				45			85		15
Impact wrench torque rating	ft*lb	114 450		137	450		450		450		
Normal embedment	in.	1 - 5/8	2 -1/2	3 -1/4	2 -1/4	3	4 -1/4	3 -1/4	5	4	6 -1/4
Minimum hole depth	in.	1-7/8	2 -3/4	3 -1/2	2 -5/8	3 -3/8	4 -5/8	3 - 5/8	5 -3/8	4 -3/8	6 -5/8

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CO, Inc.

Commerce Blvd.

esville, NC 28625

ted Engineering License # D-0140



KWIK Bolt 3 Expansion Anchor 3.3.6

3.3.6.5 Installation Instructions



1. Hammer drill a hole to the same nominal diameter as the KWIK Bolt 3. The hole depth must exceed the anchor embedment by at least one diameter. The fixture may be used as a drilling template to ensure proper anchor location.



3. Drive the KWIK Bolt 3 into the hole using a hammer. The anchor must be driven until at least 6 threads are below the surface of the fixture.





installation torque.

	Linito	Normal Anchor Diameter (In.)					
DESIGN INFORMATION	Onits	1/4	3/8	1/2	5/8	3/4	
hotallation torqua	ft*lb	4	20	40	60	110	
Installation torque	(Nm)	5	27	54	81	149	

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Mechanical Anchoring Systems KWIK HUS-EZ (KH-EZ) Carbon Steel Screw Anchor 3.3.5
 Table 8 – KWIK HUS-EZ Allowable Loads Installed In Top of Grout-Filled Concrete Masonry Construction (Ib)
 Shear Anchor Minimum Minimum Minimum Minimum Perpendicular to Edge of Masonry Wall Wall Spacing (inches) End Distance Tension Diameter Embedment Depth Edge Distance (inches) (inches)² (inches) (inches) 1/2 4 1/4 1 3/4 8 4 680 305 1110 1310 305 1165 5/8 5 1 3/4 10 5

1	All values are for anchors installed in fully grouted masonry with minimum masonry prism strength of 1500psi. Concrete masonry units shall
	be light-weight or normal-weight.

2 Embedment depth is measured from the top of the masonry construction.

3 For combined loading: For 1/4" diameter - $\frac{T_{applied}}{T_{allowable}} + \frac{V_{applied}}{V_{allowable}} \le 1$ For 3/8" - 3/4" diameter - $\left(\frac{T_{applied}}{T_{allowable}}\right)^{5/3} + \left(\frac{V_{applied}}{V_{allowable}}\right)^{5/3} \le 1$

3.3.5.4 Installation Instructions Drill holes in base material using carbide-tipped masonry drill torque, T_{impact} and installation torque, T_{inst} for the manual bits complying with ANSI B212.15-1994. The nominal drill bit torque wrench must be in accordance with Table 1. The diameter must be equal to that of the anchor. The minimum KWIK HUS-EZ (KH-EZ) may be loosened by a maximum of drilled hole depth is given in Table 1. Prior to installation, dust one turn and reinstalled with a socket wrench or powered and debris must be removed from the drilled hole using a hand pump, compressed air or a vacuum. The anchor must For member thickness and edge distance restrictions be installed into the predrilled hole using a powered impact for installations into the soffit of concrete on steel deck wrench or installed with a torque wrench until the proper nominal embedment depth is obtained. The impact wrench

CHANNER

Drill hole in base material using proper diameter drill bit.



Clean drilled hole to remove debris.



Install anchor using proper impact tool or torque wrench.

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DATE: 10/14/2022			Y STORAGE

PROJECT ADDRESS: ERWIN, NC 28339 UNIVERSITY STORAGE, LLC

ANCHOR INSTALLATION



Fasten anchor tightly against fastened part.

DRAWN BY: DPP SCALE: AS NOTED PROVED BY: DATE BY



SHEET TITLE: (800)654-7813

impact wrench to facilitate fixture attachment or realignment. assemblies, see Figure 2.



		DMFCWBS L L C - ProST	
TEEL STRUCTURAL PRODUCTS L L C - TrI-S ProTRAK	 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. 	MBA METAL FRAMING —	
Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with	2A. Steel Studs — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J and 5K) Channel shaped, fabricated from min 20 MSG correction-protected or galy steel, 3-1/2 in, min depth, spaced a max of 16 in.	RAM SALES L L C — Ram	
ing legs fasticated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling th fasteners spaced 24 in. OC max.	OC. Study friction-fit into floor and ceiling runners. Study to be cut 5/8 to 3/4 in. less than assembly height.	STEEL STRUCTURAL PRO	
JPER STUD BUILDING PRODUCTS — The Edge	20. Praming members' - scele studs — (As an anemate to tiem 2, For use with items 50, 51 or 5K) - 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.	2F. Framing Members* — 4 steel studs, minimum width metal thickness) galvanized	
aped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 . OC max.	CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper251	SUPER STUD BUILDING P	
TUDCO BUILDING SYSTEMS — CROCSTUD Track	CRACO MFG INC — SmartStud25 ^m	2G. Framing Members* —	
H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in, galv cel, min width to accommodate stud size, with min 1 in, long legs, for use with studs specified below and	MARINOMARE, DIV OF MARE INDUSTRIES INC - Appress	STUDCO BUILDING SYSTE	
bricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max i in. CC. ARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100.	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 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20 [™]	2H. Framing Members* — 0.015 in. (min bare metal thi less than assembly height. TELLING INDUSTRIES L	
Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For e with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized	MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper2014		
eel, attached to floor and ceiling with fasteners 24 in. OC. max. ELLING INDUSTRIES L L C — TRUE-TRACK™	2D. Framing Members* — Steel Studs — In lieu of liem 2 - Channel shaped studs, min depth as	21. Framing Members* — S Proprietary channel shaped	
Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with	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 Framing System	bottom of the wall. For direc TELLING INDUSTRIES L L	
m 2L proprietary channel shaped runners, 3-5/8 in, deep attached to floor and ceiling with fasteners 24 OC max.	CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV- Type SUPREME Framing System		
	QUAIL RUN BUILDING MATERIALS INC - Type SUPREME Framing System	2J. Framing Members" — I steel studs, min depth as in thick galv steel. Studs cet 3/	
K. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with am 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in.	SCAFCO STEEL STUD MANUFACTURING CO - Type SUPREME Framing System	TELLING INDUSTRIES L L	
ick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. ELLING INDUSTRIES L L C — Viper20™ Track	STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System	2K. Framing Members* —	
	UNITED METAL PRODUCTS INC — Type SUPREME Framing System	shaped studs, fabricated fro spaced a max of 24 in. OC. EB MéTAL INC — EB Stud	
Framing Members" — Floor and Ceiling Runners — (Not Shown) — As an attentiate to item 1 - For se with item 2N. Channel shaped, attached to floor and ceiling with fasteners 24 in. GC. max. ALLEY METAL PRODUCTS LTD — Type PLATINUM PLUS			
A. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For	2E. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) —For use with Items 5F or 5G or 5I or 5K 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 out 3/4 in. less than assembly height.	 Framing Members* — 3 shaped studs, fabricated fro spaced a max of 24 in. OC. OLMAR SUPPLY INC — P6 	
Gypsum Board* — (As an alternate to item 5) — For use with items 1E and 2E and limited to 1 Hour time only Generate and a time of a time of the second offers. And factored to the second offers.	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 5-12 steel screws spaced 8 in, OC at perimeter and 12 in, OC in the field, Gypsum heard secured to 20 MSC steel stude and stude to 20 min 20 min 1 1/4 in long Type 5-12 steel screws spaced 8 in, OC at perimeter and 12 in, OC in the field, Gypsum	4 UNITED STATES GYPSUM	
⁵ . Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour ating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the sel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs, eel stud depth shall be a minimum 3-5/8 in. NITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX.	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. 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	UNITED STATES GYPSUM 6. Fasteners — (Not Show panels to studs (Item 2) or 1 thick panels or 1–1/4 in, long	
5. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour ating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the sel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs, eel stud depth shall be a minimum 3-5% in. NITED STATES GYPSUM CO — 5% in. thick Type SCX, SGX. SG BORAL ZAWAWI DRYWALL L L C SFZ — 5% in. thick Type SCX	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,	6. Fasteners — (Not Show panels to studs (Item 2) or f thick panels or 1-1/4 in. long or 8 in. OC along vertical ar vertically. Two layer system	
¹ . Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour ating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the sel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs, eel stud depth shall be a minimum 3-5% in. NITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX. SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX	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. 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.	4 UNITED STATES GYPSUM 6. Fasteners — (Not Show panels to studs (Item 2) or 6 thick panels or 1-1/4 in, long or 8 in. OC along vertical an vertically. Two layer system in, thick panels, spaced 16 i long for 3/4 in, thick panels, systems: First layer-1 in.k	
7. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour ating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the sel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs, eel stud depth shall be a minimum 3-5% in. NITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX. SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX 3. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels the beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and stended to the table below and stended to the table below and the steel stude as described in them 6.	 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 28 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 28 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 ULX 	4 UNITED STATES GYPSUM 6. Fasteners — (Not Showr panels to studs (Item 2) or 6 thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 i long for 3/4 in. thick panels, systems: First layer-1 in. lo long for 1/2 in., 5/8 in. thick j panels or 2-5/8 in. long for 5 bow Enurphaser systems:	
7. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour ating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the sel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs, eeel stud depth shall be a minimum 3-5% in. NITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX. SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX 3. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels the beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and stened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one ud cavity on opposite sides of studs. Vertical joints need not be backed by steel framing. Horizontal edge joints and horizontal but to the backed by steel framing. Horizontal edge joints and horizontal but the table below and horizontal but the table below and stended to the steel studs as described in the backed by steel framing. Horizontal edge joints and horizontal but the table below and the table below steel stude such as described one ud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal but the table below and by the posite sides of studes. Vertical joints in adjacent layers (multilayer systems) staggered one ud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal but the table below and posite sides of studes need not be staggered. Horizontal edge joints and horizontal but the table below and posite sides of studes reaction and ender a mine of 12 in . The fiberees and under or layer or	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 28 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. GGC INC — Type ULX UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX	4 UNITED STATES GYPSUM 6. Fasteners — (Not Showr panels to studs (Item 2) or fi thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 i long for 3/4 in. thick panels, systems: First layer-1 in. lo long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5 below.Four-layer systems: layer-1-5/8 in. long for 1/2 i thick panels or 2-5/8 in. long in. thick panels or 3 in. long holtow	
 Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour ating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the eel studs with 1 in. Iong Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. eel stud depth shall be a minimum 3-5% in. NITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX. SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels th beveled, square or tapered edges, applied vertical joints centered over studs and staggered one ud cavity on opposite sides of studs. Vertical joints centered over studs and staggered one ud cavity on opposite sides of studs. Vertical joints centered over studs and staggered one ud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one ud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal int joints in adjacent layers (multilayer systems) staggered one ud cavity. Horizontal joints need not be staggered. Horizontal edge joints and horizontal but ints in adjacent layers (multilayer systems) staggered one in the steel sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one ud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal but ints in adjacent layers (multilayer systems) staggered one uf cavity. Horizontal joints need not be staggered a min of 12 in. The thickness and number of layers in the 2 hr, 3 hr and 4 hr ratings are as follows: 	 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 ULX UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX 5J. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or 	 4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or f thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 i long for 3/4 in. thick panels, systems: First layer-1 in. it long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5 below. Four-layer systems: layer-1-5/8 in. long for 1/2 i thick panels or 2-5/8 in. long in. thick panels or 3 in. long below. 6A. Fasteners — (Not Show 	
 A Cypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour and gonly. Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the bel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. State S C S S S S S S S S S S S S S S S S S	 gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studies and staggered min 1 stud cavity on opposte sides of studis. Wallboard secured to studies 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 studies them 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 ULX UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX 51. 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 stude Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, stude Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled item 2B. 	 4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or fi thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 i long for 3/4 in. thick panels, systems: First layer-1 in. it long for 1/2 in., 5/8 in. thick, panels or 2-5/8 in. long for 5 below.Four-layer systems: layer- 1-5/8 in. long for 1/2 it thick panels or 2-5/8 in. long in. thick panels or 3 in. long below. 6A. Fasteners — (Not Show to studs or furring channels are applied vertically, Two la are applied vertically. Two la 	
 A. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour thing only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the elei studs with 1 in. long Type S screws spaced 8 in. OC along vertical obtiom edges and 12 in. OC the field, Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Edited by the field, Vertical joints or opposite sides of studs. BG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX. A. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels the beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and staggered to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one did cavity, Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal but must be a discorded by steel framing. Horizontal edge joints and horizontal but must in adjacent layers (multilayer systems) staggered are in ed 12 in. The thickness and number of layers the 2 hr, 3 hr and 4 hr ratings are as follow: 	 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 1-14 in. long Type 5-12 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 ULX UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX 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.appled vertically. 	 4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or f thick panels or 1-1/4 in, long or 8 in. OC along vertical an vertically. Two layer system in, thick panels, spaced 16 i long for 3/4 in, thick panels, systems: First layer-1 in, it long for 1/2 in, 5/8 in, thick panels or 2-5/8 in, long for 5 below. Four-layer systems: layer- 1-5/8 in, long for 1/2 i thick panels or 2-5/8 in, long in, thick panels or 3 in, long below. 6A. Fasteners — (Not Show to studs or furring channels are applied vertically, Two is 5/8 in, screws, spaced 8 in, in, long screws, spaced 24 i 	
A. Sysum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour triting only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. edited depth shall be a minimum 3-5% in. WITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX. SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX SG use or tapered edges, applied vertically or horizontally, as specified in the table below and tagened one stud cavity on opposite sides of studs. Sc gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels the beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and cavity on opposite sides of studs. Vertical joints centered over studs and staggered one ad cavity, Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal til joints on opposite sides of studs need not be taggered. Horizontal edge joints and horizontal but this in adjacent layers (multilayer systems) staggered one is a djacent layers (multilayer systems) staggered one is a djacent layers (multilayer systems) staggered one is a djacent layers (multilayer systems) staggered one is the 2 hr, 3 hr and 4 hr ratings are as follows: Gypsum Board + Item 2E No. of Layers Min Thkns of Insulation (Item 4) 2 1-5/8 2 layers, 1/2 in, thick Optional	 gypsum panels with beveled, square or lapered 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 28 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 ULX UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX SJ. 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 ind backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over stude and steel studes 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 studes and staggered min 1 stud cavity on opposite sides of study. Withoal joints centered over studes and staggered min 1 stud cavity on opposite sides of study. Wellboard secured to study with 1-1/4 in. [ong 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 laed backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in, wide, max 8 fl	 4 UNITED STATES GYPSUM 6. Fasteners — (Not Show panels to studs (Item 2) or f thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 i long for 3/4 in. thick panels, systems: First layer-1 in. it long for 12 in., 5/8 in. thick panels or 2-5/8 in. long for 3 below. Four-layer systems: layer- 1-5/8 in. long for 1/2 i thick panels or 2 in. long in. thick panels or 3 in. long below. 6A. Fasteners — (Not Show to studs or furring channels are applied horizontally, or 8 are applied vertically. Two ib 5/8 in. screws, spaced 8 in. in. long screws, spaced 8 in. in. long screws, spaced layer- 1 in. long screws, spale 	
A. Sypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour tring only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastaned to the tell studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. WITED STATES GYPSUM CO — 5/8 in. thick Type SCX. SGX. SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX. SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX. A. Oppsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels the beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and tend to the steel studs as described in Item 6. Vertical joints in adjacent layers (multilayer systems) staggered one ad cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one did cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal til joints on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers the 2 hr, 3 hr and 4 hr ratings are as follows: Min Thkns of Insulation (Item 4) 2 1-5/8 2 layers, 1/2 in. thick Optional 2 1-5/8 2 layers, 5/8 in. thick Optional	 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 ltom 28 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 ULX UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX 51. 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 tem 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied writically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secure to totts with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws space 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required bained with construction acheeve and the tot 11. Nog Type S-12 steel screws gypsum panel steel screws space 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required baind writically. Nor 6/8 in. thick lead backed gypsum panels with beveled, square or tapered edges applied writically in the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fired or athered over the screw heads. Lead ba	 4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or 6 thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 i long for 3/4 in. thick panels, systems: First layer-1 in. It long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5 below.Four-layer systems: layer-1-5/8 in. long for 1/2 it thick panels or 2-5/8 in. long in. thick panels or 3 in. long in. thick panels or 3 in. long in. thick panels or 3 in. long below. 6A. Fasteners — (Not Show to studs or furning channels are applied horizontally, or 8 are 3 are 3 are 3 below. 	
A. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour thing only, Gypsum panels with bevelied, square or tapered edges, applied vertically, and fastoned to the tell studs with 1 in. Iong Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field, Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs, edited beth shall be a minimum 3-5/8 in. WITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX. SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX S. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only. Gypsum panels the baveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and stended to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one did cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one did cavity on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal fit joints one opposite sides of studs need not be staggered. Horizontal edge joints and horizontal but this in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers the 2 hr, 3 hr and 4 hr ratings are as follows: Suppart Board* Item 2E <u>Alia No. of Layers</u> <u>Min Thkns of Insulation (Item 4)</u> 2 1-5/8 2 layers, 1/2 in. thick Optional 3 1-5/8 3 layers, 5/8 in. thick Optional	 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 1-14 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 ltem 2B with 1-14 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see ltem 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 ULX UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX SJ. 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 see applied vertically. Wallboard secured to suggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-14 in. Item Field Leads at steel screws gypsum panels teel screws applied with conducts are specified. For direct attachment only to steel studs and attached to the stoked 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 strip of the strips and one at the bottom of the strip. Lead Discs the steel strews heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-1-201 (Grade *C'. RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall 	 4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or 6 thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 i long for 3/4 in. thick panels, systems: First layer-1 in. k long for 1/2 in., 5/8 in. thick, panels or 2-5/8 in. long for 1/2 in thick panels or 2-5/8 in. long in. thick panels or 2-5/8 in. long in. thick panels or 3 in. long in. thick panels or 3 in. long in. thick panels or 3 in. long below. 6A. Fasteners — (Not Show to studs or furring channels are applied horizontally, or 8 are applied horizontally, or 9 are applied horizon	
A Sypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour thing only. Gypsum panels with beveled, square or tapered edges, applied vertically, and fastaned to the tell studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. vertical joints centered over studs and staggered one did cavity on opposite sides of studs. vertical joints centered edges, applied vertically or horizontality, as specified in the table below and tande to the steel studs as described in Item 5. Vertical joints centered over studs and staggered one di cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal but the in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers the 2 hr, 3 hr and 4 hr ratings are as follows: Gypsum Board* — (As an alternate to low of Layers in contal edge joints and horizontal but the in adjacent layers (multilayer systems) staggered one di cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal but the in a in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers the 2 hr, 3 hr and 4 hr ratings are as follows:<	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 1-141 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secure to 20 MSG steel studs item 28 with 1-141 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum 28 with 1-141 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 ULX UNITED STATES GYPSUM CO — Type ULX 51. 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 the 3). Nom 5/8 in thick load backad 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 1-141 in. long Type S-12 steel screws gypsum panel seles Isorws spaced 8 in. OC cat perimeter and 12 in. OC in the field. Set of stude stude stude strips may and discts to nave a purity of 99.9% meeting the Federal specification QO-1.2011, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall	 4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or 6 thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 i long for 3/4 in. thick panels, systems: First layer-1 in. k long for 1/2 in5/8 in. thick, panels or 2-5/8 in. long for 1/2 in thick panels or 2-5/8 in. long for 1/2 in5/8 in. long for 1/2 in thick panels or 3/6 in. long in. thick panels or 3 in. long in. thick panels or 3 in. long below. 6A. Fasteners — (Not Show to studs or furring channels are applied horizontally, or 8 are applied horizontally, or 9 are applied horizonta	
A Gypsum Board' — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour ating only, Gypsum panels with bevelid, square or tapered edges, applied vertically, and fastened to the held. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. et al. (Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX SG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX SG possum Board' — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels the beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and stand to the steel studs as described in Item 5. (Micial joints centered over studs and staggered one ad cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one ad cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal til joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal but mis in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers the 2 hr. 3 hr and 4 hr ratings are as follows: Supput Min Stud No. of Layers Min Thins of Insulation (Item 4) Optional 2 1-5/8 2 layers, 5/8 in. thick Optional 3 1 1 2 1 <td colspa<="" td=""><td> 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 1-14 in. Iong 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 time 28 with 1-14 in. Iong Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field, Gypsum board secured 10 20 MSG steel studs time 28 with 1-14 in. Iong 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 Leed Batten Strips (see Item 11A) or Load Discs (see Item 12A). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum S1. 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 tem 5. CGC INC — Type ULX UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX S1. 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 from 2A, not to be used with Item's J. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, appled vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of study. Works was add to apple and a steel stude steel study in the in. Info Type 5-12 steel screws gypsum panel steel step and one stude gypsum with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and to 1 in. OC in the field. Lead batten strips required befind, wertical joints ontered over the acrew heads. Lead batten strips and discs to havds and attached to the stup and none stude stude system wheads. Lead</td><td> 4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or 6 thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 i long for 3/4 in. thick panels, systems: First layer-1 in. It long for 1/2 in., 5/8 in. thick, panels or 2-5/8 in. long for 1/2 in thick panels or 2-5/8 in. long in. thick panels or 2-5/8 in. long in. thick panels or 3/8 in. long in. thick panels or 3/8 in. long in. thick panels or 3 in. long below. 6A. Fasteners — (Not Show to studs or furring channels are applied horizontally, or 8 are applied ho</td></td>	<td> 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 1-14 in. Iong 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 time 28 with 1-14 in. Iong Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field, Gypsum board secured 10 20 MSG steel studs time 28 with 1-14 in. Iong 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 Leed Batten Strips (see Item 11A) or Load Discs (see Item 12A). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum S1. 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 tem 5. CGC INC — Type ULX UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX S1. 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 from 2A, not to be used with Item's J. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, appled vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of study. Works was add to apple and a steel stude steel study in the in. Info Type 5-12 steel screws gypsum panel steel step and one stude gypsum with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and to 1 in. OC in the field. Lead batten strips required befind, wertical joints ontered over the acrew heads. Lead batten strips and discs to havds and attached to the stup and none stude stude system wheads. Lead</td> <td> 4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or 6 thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 i long for 3/4 in. thick panels, systems: First layer-1 in. It long for 1/2 in., 5/8 in. thick, panels or 2-5/8 in. long for 1/2 in thick panels or 2-5/8 in. long in. thick panels or 2-5/8 in. long in. thick panels or 3/8 in. long in. thick panels or 3/8 in. long in. thick panels or 3 in. long below. 6A. Fasteners — (Not Show to studs or furring channels are applied horizontally, or 8 are applied ho</td>	 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 1-14 in. Iong 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 time 28 with 1-14 in. Iong Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field, Gypsum board secured 10 20 MSG steel studs time 28 with 1-14 in. Iong 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 Leed Batten Strips (see Item 11A) or Load Discs (see Item 12A). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum S1. 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 tem 5. CGC INC — Type ULX UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX S1. 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 from 2A, not to be used with Item's J. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, appled vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of study. Works was add to apple and a steel stude steel study in the in. Info Type 5-12 steel screws gypsum panel steel step and one stude gypsum with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and to 1 in. OC in the field. Lead batten strips required befind, wertical joints ontered over the acrew heads. Lead batten strips and discs to havds and attached to the stup and none stude stude system wheads. Lead	 4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or 6 thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 i long for 3/4 in. thick panels, systems: First layer-1 in. It long for 1/2 in., 5/8 in. thick, panels or 2-5/8 in. long for 1/2 in thick panels or 2-5/8 in. long in. thick panels or 2-5/8 in. long in. thick panels or 3/8 in. long in. thick panels or 3/8 in. long in. thick panels or 3 in. long below. 6A. Fasteners — (Not Show to studs or furring channels are applied horizontally, or 8 are applied ho
¹ Gypsum Board' — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour thing only. Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the easil study with 1in. Iong Type S screws spaced 8 in. OC dalog vertical and bottom edges and 12 in. OC the field, Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. earls to depth shall be a minimum 3-58 in. Inter STATES GYPSUM CO — 578 in. thick Type SCX. SGX. 36 BORAL ZAWAWI DRYWALL L L C SFZ — 578 in. thick Type SCX. 36 BORAL ZAWAWI DRYWALL L L C SFZ — 578 in. thick Type SCX. 36 BORAL ZAWAWI DRYWALL L L C SFZ — 578 in. thick Type SCX. 36 dorad to the steel study as described in Item 6. Vertical joints centered over studs and staggered one du cavity on opposite sides of study. The popole sides of study. Item opposite sides of study. The popole side of study. Staggered one du cavity on opposite sides of study. Staggered one du cavity on opposite sides of study. Staggered and the table below and stend to the steel study as described in Item 6. Vertical joints centered over studs and staggered one du cavity on opposite sides of study. Staggered and the table below and stend to the steel study as described in Item 6. Vertical joints in adjacent layers (multilayer systems) staggered one du cavity on opposite sides of study. Staggered and the table below and the steel study as described in the staggered. Horizontal edge joints and horizontal but fit in in a dajacent layers (multilayer systems) staggered one to a staggered. Horizontal edge joints and number of layers the 2 hr. 3 hr and 4 hr ratings are as follows: Cysum Board' 1, 5/8 2 layers, 5/8 in. thick Optional 2, 1, 5/8 2, layers, 5/8 in. thick Optional 3, 1, 5/8 3, layers, 5/8 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, 5/8 in. thick Optional 4, 1, 5/8, 4, layers, 5/8 in. thick Optional 4, 1,	 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 opposte sides of studs. Wallboard secured to studs with 1-14 in. Iong Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG detail studs item 28 with 1-14 in, Iong Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Comparison of the steel stude is marked stude item 28 with 1-14 in. Iong Type 5-12 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 114) or Lead Discs (see Item 12A). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum S1. 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 ULX UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX S1. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 12 in. or 5/8 in thick products are specified. For direct attachment only to steel stude steem 20 at to to be used with Item 3). Non 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints ontered over studs and staggered min 1 stud cavity on opposite sides of studs. Walboard secured to studs with 1-14 in. long Type S-12 steel screws gypsum panels teel screws spaced 8 in. CC at perimeter and 12 in. OC 14 in placed on the face of studs and attached to the stud with construction adhered over the screw heads. Lead batten strips and lead or adhered over the bottom of the strip. Lead disces, normal 318 in. diam by max 0.085 in. thick gypsum panels with now a nutry of 98 9% meetiling the Foderal sp	 4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or 1 thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 i long for 3/4 in. thick panels, systems: First layer-1 in. Is long for 1/2 in., 58 in. thick panels or 2-5/8 in. long for 1/2 in. borg for 1/2 in thick panels or 2-5/8 in. long in. thick panels or 3/8 in. long in. thick panels or 3/8 in. long in. thick panels or 3/8 in. long below. 6A. Fasteners — (Not Show to studs or furring channels are applied horizontally, or 8 are applied horizontally, or 9 are applied horizontally, or 9 a	
 ¹ Gypsum Board* — (As an alternate to litem 5) — For use with litems 1E and 2E and limited to 1 Hour thing only, Gypsum panets with beveled, square or tapered edges, applied vertically, and fastened to the elisituds with in. long Type S screws spaced 8 in. Octaing vertical and bottom edges and 12 in. OC the field, Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. SG BORAL ZAWAWI DRYWALL LLC SFZ — 5/8 in. thick Type SCX. SG BORAL ZAWAWI DRYWALL LLC SFZ — 5/8 in. thick Type SCX. Gypsum Board* — (As an alternate to litem 5) — For use with litems 1E and 2E only. Gypsum panels the baveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and standed to the steel stud, as described in litem 6. Vertical joints centered over studs and staggered one directly on poposite sides of studs. Write one opposite side of studs. Write one of stude and end to be table edge. Horizontal edge joints and horizontal in the table below and standed to the steel studa as described in litem 6. Vertical joints centered over studs and staggered one directive on opposite sides of studs. Write one be table edge. Horizontal edge joints and horizontal but this joints on edge joints and horizontal but this in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers the 2 hr, 3 hr and 4 hr ratings are as follow: Cypsum Board* – (As a layers, 1/2 in. thick <u>Optional 3 in 1-5/8 2 layers, 5/8 in. thick Optional 3 in 1-5/8 2 layers, 5/8 in. thick Optional 3 in 1-5/8 2 layers, 5/8 in. thick <u>Optional 3 in 1-5/8 2 layers, 5/8 in. thick Optional 3 in 1-5/8 2 layers, 5/8 in. thick Optional 3 in 1-5/8 2 layers, 5/8 in. thick <u>Optional 3 in 1-5/8 4 layers, 1/2 in. thick Optional 3 in 1-5/8 4 layers, 5/8 in. thick Quotional 4 in 1-5/8 4 layers, 5/8 in. thick Type AR C, IP-AR, IP-X1, IP-X2, IPC-AR, C, Y, HC, C, Y, HC, C, MC, MC, MC, MC, MC, MC, MC, MC, MC</u></u></u>	<text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text>	 4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or 6 thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 ii long for 3/4 in. thick panels, systems: First layer-1 in. Ic long for 3/4 in. thick panels or 2-5/8 in. long for 1/2 in., 5/8 in. thick, panels or 2-5/8 in. long for below.Four-layer systems: layer-1-5/8 in. long for 1/2 in thick panels or 2-5/8 in. long in. thick panels or 2-5/8 in. long in. thick panels or 3 in. long below. 6A. Fasteners — (Not Show to studs or furring channels are applied horizontally, or 8 are applied hori	
A Syspaum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour fing only (System panels with beveled, source or tapered edges, applied vertically, and fastened to the beal studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field, Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. BARDED STATES CYPSUM CO — Sile in. thick Type SCX, SGX. BARDED STATES CYPSUM CO — Sile in. thick Type SCX, SGX. BARDED STATES CYPSUM CO — Sile in. thick Type SCX, SGX. CAYpour Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only. Gypsum panels the beveled, square or tapered edges, appled vertically or horizontally, as specified in the table below and stangered on tapered edges, appled vertically or horizontally as specified in the table below and stangered on set also acceled by the finaming. Horizontal edge joints and horizontal but mis in adjacent layers (multilayer systems) staggered one dia cavity. Horizontal joints centered over studs and staggered one dia cavity on opposite sides of studs. Werical joints in adjacent layers (multilayer systems) is aggered one dia cavity on coposite sides of studs meed not be staggered. Horizontal edge joints and horizontal but mis in adjacent layers (multilayer systems) staggered one dia cavity. Horizontal joints centered vertical and invertical but miss in adjacent layers (multilayer systems) staggered one dia cavity. Horizontal joints centered joints and horizontal but miss in adjacent layers (multilayer systems) staggered one dia cavity. Horizontal joints centered joints and horizontal but miss in adjacent layers (multilayers) (chavital points and horizontal but miss in adjacent layers (multilayers) (chavital points and horizontal but mis in adjacent layers (multilayers) (chavitalay	System panels with bewield, square or lapered edges, applied vertically. Vertical joints centered over 20 MSG steel stude and staggered min 1 stud cavity on opposite sides of study. Walboard secured to study band secured to 20 MSG steel stude inter 28 with 1-14 in. long Type 5-12 steel screws spaced 8 is. OC at preimeer and 12 in. OC in the field. System stude item 28 with 1-14 in. long Type 5-12 steel screws spaced 8 is. OC at preimeer and 12 in. OC in the field. System stude item 28 with 1-14 in. long Type 5-12 steel screws spaced 8 is. OC at preimeer and 12 in. OC in the field. System stude item 28 with 1-14 in. long Type 5-12 steel screws spaced 8 is. OC at preimeer and 12 in. OC in the field. System 50 ms 20 ms 2	 4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or if thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 if long for 3/4 in. thick panels, systems: First layer-1 in. It long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 1/2 in thick panels or 2-5/8 in. long in. thick panels or 2-5/8 in. long in. thick panels or 3 in. long below. 6A. Fasteners — (Not Show to studs or furring channels are applied horizontally, or 3 are applied horizontally. Two is 5/8 in. long screws, spaced 8 in. in. long screws, spaced 24 i 5/8 in. long screws, spaced layer-1 in. long screws, offset min 6 in. from layer bo 7. Furring Channels — (O) channels fabricated from min Flange portion attached to o Item 5A and 5E. 7A. Framing Members* — — As an alternate to Item 7 a. Furring Channels - deep, spaced max. 24 hum b. Oypsum board and 5E. b. Steel Framing Mem spaced max. 48 in. OC minimum self-drilling, s clips secured to studes 	
Cypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour taing only. Cypsum panels with beveled, square or tapered edges, applied verically, and fastaned to the neal study with 1 in. Iong Type 5 screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field. Vertical joints centered over study and staggered one stud cavity on opposite sides of study. WITED STATES GYPSUM CO — 50 in. thick Type SCX. SGX. SG BORAL ZAWAWI DRYWALL L L C SFZ — 5% in. thick Type SCX. A. Oppsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only. Cypsum panels the beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and table of esited study a dejoc. Specified in the table below and table on esited study on opposite sides of study. Vertical joints centered over study and batagered one ad cavity. Horizontal joints meed not be stacked by steel framis. Horizontal edge joints and horizontal but mis in adjacent layers (multilayer systems) staggered and a discuption on posite sides of study. Nericol joints centered over study and horizontal but mis in adjacent layers (multilayer systems) staggered one ad cavity. Horizontal joints end not be staggered and in of 12 in. The thickness and number of layers (the 2 hr, 3 hr and 4 hr ratings are as follows: Gypsum Board* - (As an alternate so tows: Gypsum Board* - (As an alternate so time 5) — For use with Items 1E and 2E only. Cypsum panels the beveled, square or tapered edges, applied vertically on the table below and target on etal disto of posite sides of study. Need note to study on opposite sides of study. Need note to study and posite sides of study. Gypsum Board* - (As an alternate to the study posite	System panels with bewled, square or tapened edges, applied vertically. Vertical joints centered over 20 MSG steel studes and staggered min 1 stud cavity on opposite sides of studes. Walboard secured to 30 MSG steel studes and staggered min 1 stud cavity on opposite sides of studes. Walboard secured to 30 MSG steel studes imm 28 with 1-114 in. iong Type S-12 steel screws spaced 8 in. OC at preimeer and 12 in. OC in the field. System of the 20 MSG steel studes imm 28 with 1-114 in. iong Type S-12 steel screws spaced 8 in. OC at preimeer and 12 in. OC in the field. System of the 20 MSG steel studes imm 28 with 1-114 in. iong Type S-12 steel screws spaced 8 in. OC at preimeer and 12 in. OC in the field. System State 11 in	EXAMPLE A STATES GYPSUM Second Statements — (Not Shown panels to studs (Item 2) or 6 thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 is long for 3/4 in. thick panels, systems: First layer-1 in. Ite long for 1/2 in., 5/8 in. long for 1/2 in thick panels or 2-5/8 in. long for 1/2 in thick panels or 2-5/8 in. long in. thick panels or 2-5/8 in. long below. SA. Fasteners — (Not Show to studs or furring channels are applied horizontally, or 3 are applied horizontally, or 3 are applied horizontally, or 3 are applied horizontally. Two las 5/8 in. long screws, spaced 24 is 5/8 in. long screws, spaced 24 is 5/8 in. long screws, spaced layer- 1 in. long screws, spaced layer- 2-5/8 in. long screws, offset min 6 in. from layer be 7. Furring Channels — (Or channels fabricated from ming Flange portion attached to a litem 5A and 5E. 7A. Framing Members* — (— As an alternate to litem 7, a. Furring Channels - deep, spaced max. 24 litem b. Gypsum board and 5E. b. Steel Framing Mem spaced max. 48 in. OC minimum self-arting, S claps secured to studs venter hole. Furring channels for the furring channels for the furring channels for the furring channels and 5E.	
A Sypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour faing only. Gypsum panels with beveled, square or tapered edges, applied verically, and fastaned to the alt study with 1 in. Iong Type 5 screws spaced 8 in. OC along verical and bottom edges and 12 in. OC the field. Vertical joint contred over studs and staggered one stud cavity on opposite sides of studs. WITED STATES GYPSUM CO — 5% in. thick Type SCX, SGX. SGDORAL ZAWAWI DRYWALL L C SFZ — 5% in. thick Type SCX. A' oppound Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only. Gypsum panels to be vield square or tapered edges, applied vertical joints contend over studs and staggered one do to the steel studs as described in Item 5. Vertical joints contend over studs and staggered one do cavity on opposite sides of studs. Wricel joints in adjacent layers (multilayer systems) staggered one do cavity on opposite sides of studs. Wricel joints in adjacent layers (multilayer systems) staggered and it in in adjacent layers (multilayer systems) staggered and a discip. Horizontal edge joints and horizontal to the steel studs are described in Item 5. Vertical joints contend over studs and horizontal but the in a layer in this adjacent layers (multilayer systems) staggered in the 5. Vertical joints contend over studs and horizontal but the in a layer in this adjacent layers (multilayer systems) staggered and it 2 in. The thickness and number of layers (the 2 h. 3 h and 4 h ratings are as follows: GDSUB DOADE To Prove the staggered and in of 12 in. The thickness in Alton translation (tem 4) is a discort layers (multilayer systems) staggered and the studs. Mining thin Study to Prove the staggered and in of 12 in. The thickness and number of layers (the 1 h. 5. Not in thick Systems) the staggered and in the 2 h	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. Watboard secured to studs with 1-14 in. long Type S-12 steel screws spaced 8 in. OC at primeter and 12 in. OC in the field. Oppound secure to 20 MSG side studs them 28 with 1-14 in. long Type S-12 steel screws spaced 8 in. OC at primeter and 12 in. OC in the field. Oppound secure to 20 MSG side studs them 28 with 1-14 in. long Type S-12 steel screws spaced 8 in. OC at primeter and 12 in. OC in the field. Oppound secure to 20 MSG side studs them 28 with 1-14 in. long Type S-12 steel screws spaced 8 in. OC at primeter and 12 in. OC in the field. Oppound secure to 20 MSG side side screws spaced 10 minimum depth shall be as indicated in them 5. Uncertainty of the table of the table of the table of the table of the table. Side stud minimum depth shall be as indicated in them 5. Uncertainty of the table of table	EXAMPLE 1 E	
A cypsum Board* — (As an alternate to hem 5) — For use with items 1E and 2E and limited to 1 Hour ingo only. Gypsum panels with beveled, square or tapered edges, appled vertically, and fastened to the elab study with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC the field, Verticalig joints centered over study and staggered one stud cavity on opposite sides of study. Street STATES GYPSUM CO — 5/8 in. thick Type SCX, SCX. Street Stre	gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel tauds and staggered min 1 stud cavity on opposite sides of studs. Watboard secured to studs with 1-14 in. long Type S-12 steel screws spaced 8 in. Oc at primeter and 12 in. Oc in the field. Oppsum band secured to 20 MSG steel studs tem 28 with 1-14 in. long Type S-12 steel screws spaced 8 in. Oc at primeter and 12 in. Oc in the field. Oppsum Strep (see item 11A) or Load Discs (see item 12A). MAYCO INDUSTRIES INC — Type X-Ray Shelded Oppsum St. Oppsum Beard — (As an alternate to tem 5) — Nom. 58 in. thick gypsum panels with beveled, item 5. CGC INC — Type ULX UNTED STATES GYPSUM CO — Type ULX St. Oppsum Beard — (Not Shown) — (As an alternate to tem 5 when used as the base layer on one or bids of valid with (Les do state) with 12 in. or 31 in thick products are specified. For direct attachment only to steel studs hem 12 in. or 31 in thick products are specified. For direct attachment only to steel studs been AL, not to be used with tem 3). Nom 5% in. thick lead backed gypsum panels with seveled, suggest or tapered deges, applied wortically. Writcal joints centered out on the field. Suggest 10 is 0. St. Oppsum Beard — (Not Shown) — (As an alternate to tem 5 when used as the base layer on one or bids do stad with hem 12 in. or 31 in thick products are specified. For direct attachment only to steel studs been AL, not to be used with tem 3). Nom 5% in. thick lead backed gypsum panels with boxels exceed base applied wortically. Writcal joints centered out 0.01 in the field. Jostical stress gypsum panels with severe studs and stategored in it stud axity on opposite sides of studs. Watboard secured to studs with 1-14 in. Iong Type S-12 steel screws gypsue applied base stress gyptue data stress gyptue data stress of the strass and eact the boxel of 0.11 in. Jong Type S-12 panel base based based based based based with with severe heads. Lead batten strips and disc	4 UNITED STATES GYPSUM 6. Fasteners — (Not Shown panels to studs (Item 2) or 6 thick panels or 1-1/4 in. long or 8 in. OC along vertical an vertically. Two layer system in. thick panels, spaced 16 is long for 3/4 in. thick panels, systems: First layer-1 in. Ic long for 1/2 in., 5/8 in. thick, panels or 2-5/8 in. long for 1/2 in thick panels or 2-5/8 in. long for 1/2 in., 5/8 in. long for 1/2 in thick panels or 3/6 in. long in. thick panels or 3 in. long in. thick panels or 3 in. long below. 6A. Fasteners — (Not Show to studs or furring channels are applied horizontally, or 8 are applied horizontally, or 9 are 5/8 in. long screws, spaced layer - 1 in. long screws, spaced b 7. Furring Channels - (Op channels fabricated from mi Flange portion attached to e Item 5A and 5E. 7. A Framing Members* — (— As an alternate to Item 7, a. Furring Channels - deep, spaced max, 24 hom b. Gypsum board and 5E. b. Steel Framing Mem spaced nax, 48 in. OC minimum self-drilling, S clas secured to studs v center hole. Furring ch 9/16 in. wide farming ch furring channels. PAC INTERNATIONAL	

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DATE /ISIONS

uo	2M. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG correspondenced steel min doubt as indicated under Item 5.
ProSTUD	spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudFite TH
ProSTUD	
DUCTS L L C - Tri-S ProSTUD	2N. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1L, channel shaped, min 3-5/8 in, wide, spaced a max of 24 in, OC. Studs to be cut 3/8 to 3/4 in, less than assembly height.
Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped	BAILEY METAL PRODUCTS LTD - Type PLATINUM PLUS
ndicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare steel, Studs 3/8 in. to 3/4 in. less in lengths than assembly heights. RODUCTS — The Edge	20. 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 Lipped Wall Stud
Steel Studs — Not Shown — In lieu of Item 2 - proprietary channel shaped ted under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height. IMS — CROCSTUD	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
Steel Studs — (Not Shown, As an atternate to Item 2) — Fabricated from min. ickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in.	wallboard joints. Attached to study 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 physical panels and fasterer langths for overum panels increased by min. 1/2 in.
C — TRUE-STUD™	 Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted
teel Studs — (As an alternate to ltem 2, For use with Items 5C or 5L or 5K) - studs, 3-5/8 in, deep spaced a max of 24 in, OC. Studs to be cut 34 in less id installed with a 1/2 in, gap between the end of the stud and track at the t attachment of gypsum board only. C — Viper25™	 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) — 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.
Actal Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped dicated under Item 5. spaced a max if 24 in. OC, fabricated from min 0.020 in.	4B. Batts and Blankets* — For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber 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.
8 in. to 3/4 in. less in lengths than assembly heights C — Viper20™	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 sides of studs.
Steel Studs — As an alternate to litem 2 — For use with litem 1, channel m min 25 MSG corrosion-protected steel, min depth as indicated under litem 5, Studs to be cut 3/8 to 3/4 in, less than assembly height.	need not be staggered. Honzontal 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 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows: Gypsum Board Protection on Each Side of Wall
Steel Studs — As an alternate to Item 2 — For use with Item 1, channel	Min No. of Min
m min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, Studs to be cut 3/8 to 3/4 in. less than assembly height. IMESTUD	Stud Layers Thkns of Depth, in. & Thkns Insulation Rating, Items 2, 2C, 2D, 2F, 2G, of Panel (Item 4)
	1 3-1/2 1 layer, 5/8 in. thick Optional
1-5/8 4 layers, 5/8 in. thick Optional CO — 5/8 in. thick Type ULIX	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 channels as described in Item 5. Not for use with Item 5A and 5E.
i) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach urring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, d bottom edges and 12 in. OC in the field when panels are applied us: First layer-1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4	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
n. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer ing for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick will be in. thick will be in. thick panels, spaced 12 in. OC. Second layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick will be in. thick will be in. thick will be in. thick panels.	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:
First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second n., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer	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 5A and 5E.
wh) — For use with Item 5K- Type S or S-12 steel screws used to attach panels (Item 7). Single layer systems: 1 in. long screws, spaced 8 in. OC when panels in. OC along vertical and bottom edges and 12 in. OC in the field when panels yer systems: First layer-1 in. long screws, spaced 16 in. OC. Second layer-1- OC with screws offset 8 in. from first layer. Three-layer systems: First layer-1	b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) 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
n. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Third layer- 2- 8 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First ced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Third	7D. Steel Framing Members* — (Optional, Not Shown) — Furring channels and resilient sound isolation clip as described below:
spaced 24 in. OC. Fourth layer- 3 in. long screws, spaced 8 in. OC. Screws Now.	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 secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. fermionistic screws) (2 per side 1 in. and 4 in. form outplies of adjoint adjo
Optional on one or both sides, not shown, for sincle or double laver systems)	joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in, from joint edge. Not for use with Item 5A and 5E.
furring channels and Steel Framing Members as described below: = Formed of No. 25 MSG columnal. 2-9/18 in. or 2-23/12 in. wide by 2/8 in.	b. Steel Framing Members* — Resilient sound isolation clip used to attach furring channels (Item 7Da) to study. Gins snared 24 in .OC. and secured to study with No. 10 x 2-112 in scarse down!
in. OC perpendicular to studs. Channels secured to studs as described in attached to furring channels as described in Item 6. Not for use with Item 5A	screw through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R
bers* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips . RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. +12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the annels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2- annels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide	 Joint Tape and Compound — Vinyl or case in, dry or premixed joint compound applied in two coats to joints and screw heads of 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. Siding, Brick or Stucco — (Ontional Not Shown) — Aluminum, vinul or steel sisten, brick upper or panels.
L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).	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.
(Optional, Not Shown) — As an alternate to Item 7, for single or double layer and Steel Framing Members on only one side of studs as described below:	 Caulking and Sealants* — (Optional, Not Shown) — A bead of accustical sealant applied around the partition perimeter for sound control.

nd Steel Framing Me	imbers on only one	side of studs as	described below:	
				_

10/14/2022

DPP

AS NOTED

AWN BY:

PROVED BY:

SCALE:

BY

PROJECT NAME:	UNIVERSITY STORAGE	
PROJECT ADDRESS:	ERWIN, NC 28339	

UNIVERSITY STORAGE, LLC

SHEET TITLE:

BETCO

228 COMMERCE BLVD.

STATESVILLE, NC 28625

(800)654-7813

U419

PROJECT NO .: NC22329 DRAWING NUMBER: CV9



An angle is self-tapped to the web of the purlin to catch hanger rod. This method does not preclude other forms of attachment to the purlin web. The total hanger load shall not exceed the design collateral load for the building. A sample calculation is shown below: 5' (purlin spacing) x 5' (hanger spacing) x 6 psf (collateral load = 150 lbs)

Note: If this building is designed for 0 psf collateral load, then adding any suspended system (ie. duct work, piping, lights, ceilings, etc.) will correspondingly reduce the design live load.

THE INCORRECT WAYS



SUGGESTED METHOD OF PURLIN ATTACHMENT (FOR BLDG ACCESSORIES)

StiffClip [®] HE Installation In	structions: Header Connector	
StiffClip® HE(L) or HE(H) (for use with typical boxed header) StiffClip® HE(S) (for use with JamStud° header) Install four (4) StiffClip HE per opening. Refer to design drawings for	Attach StiffClip HE to jamb with required	Mindow or Door Jamb
fastener type and quantity required.	number of screws.	
Boxed Header	Boxed Header Boxed Header Attach shelf ledge to header with required number of screws.	
Attach clip to header with required number of screws.	Consider using TSN's JamStud [®] in place of all Installation, Technical or Submittal questions email us at suppor Visit www.steeInetwork.com and c	window or o , contact The t@steeInet liscover the
© The Steel Network, Inc. All Rights Reserved Products on this page are designed and manufactured for th or changes in installation procedures should be made by professional or installation contractor	 specific purposes show, and should not be used in other applications un a qualified design professional. The performance of such modified produ The installation contractor is responsible for installing all products in accord 	less approved by cts or altered insta ordance with relev

KING STUD - (EXTENDS TO TOP OF WALL)	

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DOOR SCHEDULE

NOTES: MATERIAL IS EITHER ASTM A653-06 GRADE 55 OR A1011-04 HSLAS GRADE 55 CI-1. Fy = 55 ksi Fu = 70 ksi

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--— X

B2

PURLIN SCHEDULE

	DIMENS	IONAL PR	OPERTIES			C
SECTION NAME	D x B1 x B2 (in)	GAGE	THICKNESS (in)	LIP (in)	SECTION NAME	D x B1 x B2 (in)
4.0 x 3.5 Z16	4.0 x 3.125 x 3.375	16	0.059	0.911	8.0 x 3.0 Z16	8.0 x 2.625 x 2
4.0 x 3.5 Z14	4.0 x 3.125 x 3.375	14	0.070	0.930	8.0 x 3.0 Z14	8.0 x 2.625 x 2
4.0 x 3.5 Z12	4.0 x 3.125 x 3.375	12	0.105	0.990	8.0 x 3.0 Z12	8.0 x 2.625 x 2
4.0 x 3.0 Z16	4.0 x 2.625 x 2.875	16	0.059	0.911	9.0 x 3.5 Z16	9.0 x 3.125 x 3
4.0 x 3.0 Z14	4.0 x 2.625 x 2.875	14	0.070	0.930	9.0 x 3.5 Z14	9.0 x 3.125 x 3
4.0 x 3.0 Z12	4.0 x 2.625 x 2.875	12	0.105	0.990	9.0 x 3.5 Z12	9.0 x 3.125 x 3
5.0 x 3.5 Z16	5.0 x 3.125 x 3.375	16	0.059	0.911	9.0 x 3.0 Z16	9.0 x 2.625 x 2
5.0 x 3.5 Z14	5.0 x 3.125 x 3.375	14	0.070	0.930	9.0 x 3.0 Z14	9.0 x 2.625 x 2
5.0 x 3.5 Z12	5.0 x 3.125 x 3.375	12	0.105	0.990	9.0 x 3.0 Z12	9.0 x 2.625 x 2
5.0 x 3.0 Z16	5.0 x 2.625 x 2.875	16	0.059	0.911	10.0 x 3.5 Z16	10.0 x 3.125 x 3
5.0 x 3.0 Z14	5.0 x 2.625 x 2.875	14	0.070	0.930	10.0 x 3.5 Z14	10.0 x 3.125 x 3
5.0 x 3.0 Z12	5.0 x 2.625 x 2.875	12	0.105	0.990	10.0 x 3.5 Z12	10.0 x 3.125 x 3
6.0 x 3.5 Z16	6.0 x 3.125 x 3.375	16	0.059	0.911	10.0 x 3.0 Z16	10.0 x 2.625 x 2
6.0 x 3.5 Z14	6.0 x 3.125 x 3.375	14	0.070	0.930	10.0 x 3.0 Z14	10.0 x 2.625 x 2
6.0 x 3.5 Z12	6.0 x 3.125 x 3.375	12	0.105	0.990	10.0 x 3.0 Z12	10.0 x 2.625 x 2
6.0 x 3.0 Z16	6.0 x 2.625 x 2.875	16	0.059	0.911	11.0 x 3.5 Z16	11.0 x 3.125 x 3
6.0 x 3.0 Z14	6.0 x 2.625 x 2.875	14	0.070	0.930	11.0 x 3.5 Z14	11.0 x 3.125 x 3
6.0 x 3.0 Z12	6.0 x 2.625 x 2.875	12	0.105	0.990	11.0 x 3.5 Z12	11.0 x 3.125 x 3
7.0 x 3.5 Z16	7.0 x 3.125 x 3.375	16	0.059	0.911	11.0 x 3.0 Z16	11.0 x 2.625 x 2
7.0 x 3.5 Z14	7.0 x 3.125 x 3.375	14	0.070	0.930	11.0 x 3.0 Z14	11.0 x 2.625 x 2
7.0 x 3.5 Z12	7.0 x 3.125 x 3.375	12	0.105	0.990	11.0 x 3.0 Z12	11.0 x 2.625 x 2
7.0 x 3.0 Z16	7.0 x 2.625 x 2.875	16	0.059	0.911	12.0 x 3.5 Z16	12.0 x 3.125 x 3
7.0 x 3.0 Z14	7.0 x 2.625 x 2.875	14	0.070	0.930	12.0 x 3.5 Z14	12.0 x 3.125 x 3
7.0 x 3.0 Z12	7.0 x 2.625 x 2.875	12	0.105	0.990	12.0 x 3.5 Z12	12.0 x 3.125 x 3
8.0 x 3.5 Z16	8.0 x 3.125 x 3.375	16	0.059	0.911	12.0 x 3.0 Z16	12.0 x 2.625 x 2
8.0 x 3.5 Z14	8.0 x 3.125 x 3.375	14	0.070	0.930	12.0 x 3.0 Z14	12.0 x 2.625 x 2
8.0 x 3.5 Z12	8.0 x 3.125 x 3.375	12	0.105	0.990	12.0 x 3.0 Z12	12.0 x 2.625 x 2

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							3 NOTES MATER GRADE CI-1. − X Fy = 55 Fu = 70	: IAL IS EITI 55 OR A1 ksi ksi	HER ASTM A653- 011-04 HSLAS G	-06 RAD
				DOUBLE C	EE HEADER					
DIMENS		OPERTIES		DH 6 x	2.5 C 14		DIMENS	IONAL PR		
0 x B1 x B2 (in)	GAGE	THICKNESS (in)	LIP (in)			SECTION NAME	D x B (in)	GAGE	THICKNESS (in)	(i
x 2.625 x 2.875	16	0.059	0.911		- FLANGE WIDTH	4.0 x 2.0 C16	4.0 x 2.0	16	0.059	0.
x 2.625 x 2.875	14	0.070	0.930			4.0 x 2.0 C14	4.0 x 2.0	14	0.070	0.
x 2.625 x 2.875	12	0.105	0.990			4.0 x 2.0 C12	4.0 x 2.0	12	0.105	0.
x 3.125 x 3.375	16	0.059	0.911			4.0 x 2.5 C16	4.0 x 2.5	16	0.059	0.
x 3.125 x 3.375	14	0.070	0.930			4.0 x 2.5 C14	4.0 x 2.5	14	0.070	0.
x 3.125 x 3.375	12	0.105	0.990			4.0 x 2.5 C12	4.0 x 2.5	12	0.105	0.
x 2.625 x 2.875	16	0.059	0.911			5.0 x 2.5 C16	5.0 x 2.5	16	0.059	0.
x 2.625 x 2.875	14	0.070	0.930			5.0 x 2.5 C14	5.0 x 2.5	14	0.070	0.
x 2.625 x 2.875	12	0.105	0.990			5.0 x 2.5 C12	5.0 x 2.5	12	0.105	0.
x 3.125 x 3.375	16	0.059	0.911			6.0 x 2.5 C16	6.0 x 2.5	16	0.059	0.
x 3.125 x 3.375	14	0.070	0.930			6.0 x 2.5 C14	6.0 x 2.5	14	0.070	0.
x 3.125 x 3.375	12	0.105	0.990			6.0 x 2.5 C12	6.0 x 2.5	12	0.105	0.
x 2.625 x 2.875	16	0.059	0.911			6.0 x 3.0 C16	6.0 x 3.0	16	0.059	0.
x 2.625 x 2.875	14	0.070	0.930			6.0 x 3.0 C14	6.0 x 3.0	14	0.070	0.
x 2.625 x 2.875	12	0.105	0.990		<u>√</u>	6.0 x 3.0 C12	6.0 x 3.0	12	0.105	0.
x 3.125 x 3.375	16	0.059	0.911	EXTERIOR DOUR	BLE CEE HEADER	6.0 x 3.5 C16	6.0 x 3.5	16	0.059	0.
x 3.125 x 3.375	14	0.070	0.930			6.0 x 3.5 C14	6.0 x 3.5	14	0.070	0.
x 3.125 x 3.375	12	0.105	0.990	EH 8 x 3	3 0 C 12	6.0 x 3.5 C12	6.0 x 3.5	12	0.105	0.
x 2.625 x 2.875	16	0.059	0.911			6.0 x 4.0 C16	6.0 x 4.0	16	0.059	0.
x 2.625 x 2.875	14	0.070	0.930		L FLANGE WIDTH	6.0 x 4.0 C14	6.0 x 4.0	14	0.070	0.
x 2.625 x 2.875	12	0.105	0.990			6.0 x 4.0 C12	6.0 x 4.0	12	0.105	0.
x 3.125 x 3.375	16	0.059	0.911			7.0 x 2.5 C16	7.0 x 2.5	16	0.059	0.
x 3.125 x 3.375	14	0.070	0.930			7.0 x 2.5 C14	7.0 x 2.5	14	0.070	0.
x 3.125 x 3.375	12	0.105	0.990			7.0 x 2.5 C12	7.0 x 2.5	12	0.105	0.
x 2.625 x 2.875	16	0.059	0.911			7.0 x 3.0 C16	7.0 x 3.0	16	0.059	0.
x 2.625 x 2.875	14	0.070	0.930			7.0 x 3.0 C14	7.0 x 3.0	14	0.070	0.
x 2.625 x 2.875	12	0.105	0.990			7.0 x 3.0 C12	7.0 x 3.0	12	0.105	0.
						7.0 x 4.0 C16	7.0 x 4.0	16	0.059	0.
						7.0 x 4.0 C14	7.0 x 4.0	14	0.070	0.
					<u>──</u> ┿┘ │	7.0 x 4.0 C12	7.0 x 4.0	12	0.105	0.
						8.0 x 2.5 C16	8.0 x 2.5	16	0.059	0.
						8.0 x 2.5 C14	8.0 x 2.5	14	0.070	0.
						8.0 x 2.5 C12	8.0 x 2.5	12	0.105	0.
					<u>√_</u> ∐	8.0 x 3.0 C16	8.0 x 3.0	16	0.059	0.
						8.0 x 3.0 C14	8.0 x 3.0	14	0.070	0.
				BOX H	EADER	8.0 x 3.0 C12	8.0 x 3.0	12	0.105	0.
				BH 8 x 2	3.0 C 12	8.0 x 3.5 C16	8.0 x 3.5	16	0.059	0.
						8.0 x 3.5 C14	8.0 x 3.5	14	0.070	0.
						8.0 x 3.5 C12	8.0 x 3.5	12	0.105	0.
						8.0 x 4.0 C16	8.0 x 4.0	16	0.059	0.
						8.0 x 4.0 C14	8.0 x 4.0	14	0.070	0.
						8.0 x 4.0 C12	8.0 x 4.0	12	0.105	0.
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CO, Inc.

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esville, NC 28625 ed Engineering License # D-0140



REVISIONS

DE 55 UD SCHEDULE DOUBLE STUD DIMENSIONAL PROPERTIES DS 4 x 2.5 C 12 SECTION NAME LIP I IP DхВ THICKNESS GAGE (in) (in) (in) (in) L MEMBER GAGE MEMBER DEPTH L FLANGE WIDTH 9.0 x 2.5 C16 9.0 x 2.5 0.059 0.773).773 16 0.800 9.0 x 2.5 C14 9.0 x 2.5 14 0.070 0.800 0.105 9.0 x 2.5 C12 0.885 .885 9.0 x 2.5 12 9.0 x 3.0 C16 16 0.059 0.773 9.0 x 3.0 .773 0.070 9.0 x 3.0 C14 14 0.800 .800 9.0 x 3.0 9.0 x 3.0 C12 12 0.105 0.885 9.0 x 3.0 .885 .773 10.0 x 2.0 C16 10.0 x 2.0 16 0.059 0.773 10.0 x 2.0 C14 14 0.070 0.800 .800 10.0 x 2.0 0.105 10.0 x 2.0 C12 0.885 10.0 x 2.0 12 .885 10.0 x 2.5 C16 16 0.059 0.773 10.0 x 2.5 .773 10.0 x 2.5 C14 0.070 0.800 .800 10.0 x 2.5 14 10.0 x 2.5 C12 10.0 x 2.5 12 0.105 0.885 .885 10.0 x 3.0 C16 0.059 0.773 .773 10.0 x 3.0 16 10.0 x 3.0 C14 14 0.070 0.800 .800 10.0 x 3.0 _____ 10.0 x 3.0 C12 0.105 0.885 10.0 x 3.0 12 .885 10.0 x 3.5 C16 0.059 10.0 x 3.5 16 0.773 .773 GANG OF FOUR STUDS 0.070 .800 10.0 x 3.5 C14 10.0 x 3.5 14 0.800 4S 4 x 2.5 C 12 0.105 10.0 x 3.5 C12 12 0.885 .885 10.0 x 3.5 10.0 x 4.0 C16 0.059 0.773 .773 10.0 x 4.0 16 L MEMBER GAGE MEMBER DEPTH 0.070 0.800 10.0 x 4.0 C14 14 L FLANGE WIDTH 10.0 x 4.0 .800 10.0 x 4.0 C12 0.105 0.885 10.0 x 4.0 12 .885 11.0 x 2.5 C16 11.0 x 2.5 16 0.059 0.773 .773 0.070 11.0 x 2.5 C14 0.800 .800 11.0 x 2.5 14 0.105 11.0 x 2.5 C12 12 0.885 11.0 x 2.5 .885 11.0 x 3.0 C16 0.059 0.773 .773 11.0 x 3.0 16 11.0 x 3.0 C14 14 0.070 0.800 .800 11.0 x 3.0 0.105 11.0 x 3.0 C12 11.0 x 3.0 12 0.885 .885 16 0.059 0.773 .773 11.0 x 3.5 C16 11.0 x 3.5 0.070 0.800 .800 11.0 x 3.5 C14 11.0 x 3.5 14 0.105 0.885 11.0 x 3.5 C12 11.0 x 3.5 12 885 12.0 x 2.5 C16 12.0 x 2.5 16 0.059 0.773 .773 14 0.070 0.800 12.0 x 2.5 C14 12.0 x 2.5 12 0.885 12.0 x 2.5 C12 0.105 12.0 x 2.5 .885 0.059 12.0 x 3.0 C16 16 0.773 12.0 x 3.0 .773 0.070 0.800 12.0 x 3.0 C14 12.0 x 3.0 14 .800 0.105 12.0 x 3.0 C12 12.0 x 3.0 12 0.885 885 0.059 12.0 x 3.5 C16 .773 12.0 x 3.5 16 0.773 0.070 0.800 12.0 x 3.5 C14 12.0 x 3.5 14 .800 0.105 0.885 12.0 x 3.5 C12 12.0 x 3.5 12 885 0.059 12.0 x 4.0 C16 12.0 x 4.0 16 0.773 .773 0.070 0.800 12.0 x 4.0 C14 12.0 x 4.0 0.800 14 0.885 12.0 x 4.0 C12 0.105 0.885 12.0 x 4.0 12

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		AS NOTED		UNIVERSITY STORAGE, LLC	NC22329					
		APPROVED BY:	STATESVILLE, NC 20025	SHEET TITLE:	DRAWING NUMBER:					
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OP 10'-7" A.F.F					
	- (E)				
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ROOF PANEL PLAN NOTES: (#)

- 1. BETCO 316 ROOF PANEL 16" WIDE x 24 GA
- 2. GUTTER.
- 3. DOWNSPOUT.
- 4. SCULPTURED RAKE TRIM.
- 5. OUTSIDE CORNER BOX.
- 6. RIDGE CAP.
- 7. PARAPET CAPS (NOT BY BETCO).
- 8. PEAK BOX.

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			ROOF BEAM SEE DETAIL FOR LAP	PONY COLUMN 17GA MINIMUM #12 SDF TO EACH SUPPORT COLUMN. MINIMUM 6 EACH ENI	T. NIN 	E	SHEATHING SIFS SIFS STREFINISED METAL COPING END CAP TRIMMED TO BOTTOM OF BLOCKING.	PREFINISHED PANEL JAMB T 3/4" SEALANT BACKER ROD SELF ADHERIN OVER PRESSL 2x BLOCKING. BLOCKING 1 ¹ ₂ "	METAL 'RIM OVER NG FLASHING JRE TREATED STOP FROM END	VIN FIBE INSI WIE TAF	IVL FACED ERGLASS OULATION DE DOUBLE BACK PE, CONTINUOUS
10	NOTUSED				4" - 41 0"	45			4" - 41 0"		
							ADOTTING FARAFET				INVERTICE INVERTICE ALLA TION
16	NOT USED	17	NOT USED			18	NOT USED			19	INSULATION INSTALLATION @ 3
	CONTINUOUS SHIM PREFINISH METAL COPING - SLOPE TO ROOF - NOT BY BETCO TOP OF PARAPET VARIES		PRESSURE TREATED NAILER OUTSIDE CLOSURE GASKETED FASTENER								
21	TOP OF PARAPET		3" = 1'-0"								
						25	NOT USED				
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UNIVERSITY STORAGE, LLC GUTTER AND SCULPTURED RAKE TRIM INSTALLATION

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FOUNDATION PLAN NOTES:

- 1. 4" CONCRETE SLAB WITH 6 x 6 W1.4 x W1.4 W.W.M. (UNO ON PLAN) PLACED ON 10 MIL VAPOR RETARDER. PROVIDE COMPACTED GRANULAR FILL BELOW SLAB IN ACCORDANCE WITH GEOTECHNICAL REPORT REQUIREMENTS.
- 2. COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
- 3. COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING AND SITE DRAWINGS.

VAPOR RETARDER NOTES:

1. MINIMUM 10 MIL PLASTIC SHEET COMPLYING WITH ASTM E1745, CLASS A. INSTALL IN ACCORDANCE WITH ASTM E1643. LAP JOINTS MINIMUM 6", AND SEAL JOINTS, PERIMETER AND PENETRATIONS WITH MANUFACTURER'S RECOMMENDED MASTIC OR TAPE.

FOOTING SCHEDULE:

CF12 = CONTINUOUS FOOTING 1'-0" WIDE x 1'-4" MIN. DEEP WITH (2) EACH #4 BARS CONTINUOUS.
CF24 = CONTINUOUS FOOTING 2'-0" WIDE x 1'-0" MIN. DEEP WITH (3) EACH #5 BARS CONTINUOUS AND #5 CROSS BARS @ 12" O.C.
TS12 THICKENED SLAB 1'-0" WIDE x 0'-8" DEEP WITH (2) EACH #4 BARS CONTINUOUS.
F2 INTERIOR COLUMN FOOTING. 2'-0" x 2'-0" x 1'-0" DEEP. REF 7/SD2.

ZERO DATUM FOR ALL ELEVATIONS GIVEN ON STRUCTURAL DRAWING IS TOP OF FINISHED FLOOR.REFER TO CIVIL DRAWINGS FOR ACTUAL ELEVATION.

NOTE:

FROST PROTECTION. EXCEPT WHERE OTHERWISE PROTECTED FROM FROST, FOUNDATIONS AND OTHER PERMANENT SUPPORTS OF BUILDINGS AND STRUCTURES SHALL BE PROTECTED FROM FROST BY ONE OR MORE OF THE FOLLOWING METHODS:

- EXTENDING BELOW THE FROST LINE OF THE LOCALITY.
 CONSTRUCTING IN ACCORDANCE WITH ASCE 32.
- 3. ERECTING ON SOLID ROCK.

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BY		(800)654-7813	FOUNDATION PLAN	F1.1

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2. 3. 4.	ADDITIONAL MATERIAL AND LABOR CHARGES. SAW CUTS MUS BE OFFSET 2'-6" MINIMUM FROM COLUMN LINES. WEDGE ANCHORS ARE PROVIDED BY BETCO. CAST-IN-PLACE EMBEDDED ANCHOR BOLTS IN SLAB PROVIDED BY BETCO AND INSTALLED BY OTHERS. SEE OWNER FOR BUILDING ORIENTATION ON SITE. OWNER AND/OR CONTRACTOR SHALL PLACE CONTROL JOINTS/EXPANSION JOINTS IN THE RETAINING WALLS AT THEIF DISCRETION. FOUNDATION RETAINING WALLS TYPICALLY DO NOT UTILIZE THEM DUE TO WATERPROOFING CONCERNS , AND SINCE THE BELOW GRADE WALLS ARE AT RELATIVELY CONSTANT TEMPERATURE AND MOISTURE CONDITIONS.
_	

NOTE TO OWNER / CONTRACTOR:

1. DO NOT CUT SAW JOINTS ALONG COLUMN LINES. DOING SO WILL REDUCE THE STRUCTURAL CAPACITY OF THE BUILDING ANCHORAGE TO THE CONCRETE AND MAY RESULT IN

WNER: SHEET TITLE:

PROJECT NAME:

PROJECT ADDRESS: ERWIN, NC 28339 UNIVERSITY STORAGE, LLC SAW CUT PLAN

UNIVERSITY STORAGE

PROJECT NO .: NC22329 DRAWING NUMBER: F1.2

- LIFE SAFETY PLAN REQUIREMENTS:
- ☑ FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7) SEE NOTE 1
- ☑ ASSUMED AND REAL PROPERTY LINE LOCATIONS SEE NOTE 2 X EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8) - SEE NOTE 3
- ☑ OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
- 🖾 OCCUPANT LOADS FOR EACH AREA ☑ EXIT ACCESS TRAVEL DISTANCES (1017)
- \boxtimes COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
- 🔀 DEAD END LENGTHS (1020.4) SEE NOTE 4 CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
- ☑ MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
- ☑ ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR X A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED
- FOR PURPOSES OF OCCUPANCY SEPARATION. SEE NOTE 5
- ☑ LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10) SEE NOTE 6 ☑ LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND AND THE AMOUNT OF DELAY (1008.1.9.7) - SEE NOTE 7
- ☑ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.9.8) SEE NOTE 7
- ☑ LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES SEE NOTE 7
- ☑ LOCATION OF EMERGENCY ESCAPE WINDOWS (1029) SEE NOTE 7 🔀 THE SQUARE FOOTAGE OF EACH FIRE AREA (902) – SEE NOTE 8
- ☑ THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.5) SEE NOTE 9
- □ NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

- LIFE SAFETY PLAN NOTES: 1. SEE LEGEND FOR RATED WALLS.
- 2. ALL ASSUMED AND REAL PROPERTY LINES >20' 3. ASSUMED PROPERTY LINES = 19'; UNLIMITED; 705.8.1 EXC. 2
- 4. NO DEAD ENDS
- 5. NO RATING REQUIRED FOR THIS STRUCTURE. 6. PANIC HARDWARE NOT REQUIRED.
- OR EMERGENCY ESCAPE WINDOWS 8. FIRE AREAS DO NOT EXCEED CODE ALLOWANCE
- NO SMOKE COMPARTMENTS

(NOTE: AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE.

LEGEND

何 F.E. FIRE EXTINGUISHER AND CABINET CLASS ABC 10 POUNDS

NOTE: EXIT REQUIREMENTS CALCULATED ONLY FOR CONDITIONED AREAS. ALL OTHER AREAS HAVE DIRECT EXIT TO EXTERIOR.

ARRANGEMENT MEANS OF FLOOR, ROOM OR SPACE DESIGNATION MINIMUM² NO. OF EXITS TRAVEL DISTANCE EGRESS ^{1,3} (SECTION 1016-1021) ACTUAL TRAVEL ALLOWABLE REQUIRED ACTUAL REQ'D. SHOWN DISTANCE SHOWN ON TRAVEL DISTANCE DISTANCE BETWEEN ON PLANS DISTANCE SHOWN (TABLE 1017.2) ON PLANS PLANS EXIT DOORS 157**'**–6" S-1 2 | 4 200' 167**'**–9" 102'–10"

(NOTE: VERIFY THERMOSTAT LOCATION WITH OWNER PRIOR TO INSTALLING. FILTER ALL OUTSIDE AIR.

() 3/4" CONDENSATE FROM EACH AIR HANDLING UNIT TO

(2) 16" X 16" TRANSFER GRILL INSTALLED IN DOOR (TYPICAL)

KEY NOTES:

SPLASH BLOCK

- GENERAL NOTES: 1 RUN ALL DUCTWORK TIGHT TO CEILING INSULATION.
- 2 FASTEN ALL CONDENSATE LINES TO WALLS OR CEILINGS WHERE APPLICABLE.

<u>SINGLE LINE</u>

=

-

-#• (D) OR (D) =

A.D.

0

C C C

TITUS MODEL

111 R S 12X6 1 26,

200 CFM

AHU-2

30X8

HP-2

 \square

-(1)

30X8

30X8

---TITUS MODEL 111 R S 12X6 1 26, 200 CFM

TITUS MODEL 111 R S 12X6 1 26, 200 CFM-/

₽==

<u>}==</u>

3 7-DAY PROGRAMMABLE T'STAT WITH LOCKING COVER.

4 PROVIDE AND INSTALL CONCRETE SPLASH BLOCK, ONE PER 3 HEAT PUMPS MIN.

5 INSTALL FLOAT SWITCH IN AUXILIARY PAN TO STOP UNIT IN EVENT OF CONDENSATE OVERFLOW.

						_
		ME	CHANICAL S	SYMBOL	LEGEND	
DOUBLE LINE DESCRIPTION	SINGLE LINE	DOUBLE LINE	DESCRIPTION SI	SINGLE LINE DO	OUBLE LINE DESCRIF	<u>PT</u>
TAKE OFF TO SUPPLY AIR REGISTER			DAMPER (TYP) LING DIFFUSER UCTWORK (15' MAX.) (1-1	→ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	A = A $A = A$ $A =$	
BRANCH TAKEOFF FROM MAIN TRUNK DUCT	=		REDUCING TRANSITION	ECUSHION ↓HEAD	(1)CUSHION HEAD @ BRANCH (OR DIFFUSER RUNOUT	(2)
END CAP	F.D.(1-1/2)	F.D.=FIRE D (1-1/2)=R/	AMPER ATED FOR 1-1/2 HRS.	=	R.A. OR EXHAUST DU	тог
D OR D DUCT SMOKE DETECTOR	=====	RETURN AIF	R OR EXHAUST GRILLE	=	MANUAL VOLUME CON QUADRANT LOCKING I	NTR DEי
ACCESS DOOR DOOR SIZE DUCT HEIGHT 8X8 10" 10X10 12" 12X12 14" & LARGER			D TRANSITION	-	TWO SIDED TRANSITIC	NC

							AIF	r ha	NDL	ER U	NIT									SPLIT	SYSTEM	H
ΑΗΠ ΝΟ	MANUFACTURE			FSP	OUTSIDE	CEM		REF	LINES	SEER	HTR KW	COO CAPACIT	LING Y (MBH)	HEA CAPACIT	TING Y (MBH)	HSPF	MIN. CIRC.	M.O.C.P.	MARK	MANUF. MODEL	VOLTAGE	#
7410 140.			VOLTAGE	L.J.F.	AIR (CFM)			GAS	LIQ.	SEEK	(240)	TOTAL	SENS.	HIGH	LOW							
AHU–1,2	TRANE	TEM4A0C49M41	240/1/60	.46	-	1400	32.0	7/8	3/8	15.5	7.68	42.0	31.8	38.7	25.1	9.0	48	50	HP-1,2	TRANE 4TWR5042H1000A	240/1/60	
AHU-3,4	TRANE	TEM4A0C61M51	240/1/60	.46	_	2000	32.0	1-1/8	3/8	14.5	7.68	56.8	42.8	54.9	36.2	8.5	48	50	HP-3,4	TRANE 4TWR5060H1000A	240/1/60	
** PROVIDE OUTDOO	R THERMOSTAT TO LO	CK OUT SUPPLEME	ENTAL ELECTRIC H	HEAT AT C	UTDOOR TEMP	PERATURE	ES ABOVE 4	40 ° F.											ACCESSORIES			

CONNECTION	SCHEDULE
TO PANEL BY E.C. STARTER, COMBINATION STARTER/DISCONNECT, AND DISCONNECTING MEANS. SUPPLIED BY E.C., INSTALLED BY E.C.	
	TO MECHANICAL DEVICE. BY M.C.
ALL STARTERS, COMBINATION S AND DISCONNECTING MEANS, S MECHANICAL EQUIPMENT AS R MECHANICAL EQUIPMENT MANU REQUIREMENTS.	SUPPLIED BY E.C. FOR EQUIRED BY NEC AND IFACTURER'S

BRANCH DUCT TAKE-OFF DETAIL NOT TO SCALE

MECHANICAL NOTES (GENERAL)

- 1. DUCTWORK LAYOUTS ARE SCHEMATIC. ALL RISES, DROPS, OFFSETS, AND TRANSITIONS REQUIRED BUT ARE NOT SHOWN SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 2. DUCTWORK SHALL BE GALVANIZED STEEL AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH SMACNA STANDARDS FOR LOW VELOCITY DUCTWORK. DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. FLEXIBLE RUNOUTS SHALL NOT EXCEED 15' AND SHALL NOT BE USED TO FORM ELBOWS. CONNECTIONS FROM RECTANGULAR TO ROUND DUCT SHALL BE MADE WITH MANUFACTURED 45 DEG. LATERAL TAPS.
- 3. ALL DUCTWORK SHALL BE SEALED AIR TIGHT WITH SEALING COMPOUND.
- 4. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS NOTED OTHERWISE. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL TURNING VANES. DUCT SIZES SHOWN ARE NET INTERIOR DIMENSIONS.
- 5. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES PRIOR TO INSTALLATION OF ANY OF HIS PIPING, DUCTWORK, OR EQUIPMENT.
- 6. THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.
- 7. IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE AND INTENT MEANING OF THE PLANS AND SPECIFICATIONS. HE SHALL PROVIDE THE ENGINEER SCALED DRAWINGS OF ALL MECHANICAL DRAWINGS.
- 8. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.
- 9. PROVIDE FACTORY OR FIELD INSTALLED DRAIN PANS UNDER ALL COOLING COIL UNITS. INSTALL DRAIN PAN FLOAT TO SHUT DOWN UNIT FAN IN EVENT THAT CONDENSATE BEGINS TO FILL EMERGENCY DRAIN PAN. RUN ALL CONDENSATE DRAIN LINES TO APPROPRIATE DRAIN.

LIGHTING DATA FOR NC ENERGY CODE											
AREA USE	area ft ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER						
STORAGE	19,700	0.63	12,411	4,112	8,299						
TOTAL	19,700		12,411	4,112	8,299						

GENERAL NOTE: 1. VERIFY LOCATION OF WALL PACKS WITH OWNER & SITE LIGHTING PLAN BEFORE INSTALLATION.

ELECTRICAL LEGEND							
MARK	DESCRIPTION						
∯ w⊳	'GFI' DUPLEX WITH WEATHERPROOF COVER						
GFI	GROUND FAULT INTERUPTING RECEPTACLE						
ф іс	208V OR 240 V RECEPTACLE						
J	JUNCTION BOX						
	FUSED DISCONNECT SWITCH						
~	SWITCHED BRANCH CIRCUIT						
۲ ⁻⁷	UNSWITCHED BRANCH CIRCUIT						
Y	120/208 VOLT CIRCUIT						
ф	CEILING MOUNTED DUPLEX RECEPTACLE						
\$-0/0	LIGHT FIXTURE (WALL/CEIL.)						
	FLUORESCENT FIXTURE						
	UNSWITCHED FLUOR. FIXT. WITH BATTERY STANDBY (SECURITY/ EMERGENCY LT.)						
\otimes	'EXIT' LIGHT FIXTURE, TYPE 'EX'						
Ļ	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)						
\$	SINGLE-POLE SWITCH						
\$ ₀	SINGLE-POLE SWITCH W/ OCCUPANCY SENSOR						
\$3(4)	3-WAY SWITCH (4-WAY SWITCH)						
ф	DUPLEX RECEPTACLE						
ф	CEILING MOUNTED RECEPTACLE						
	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)						
#	QUAD RECEPTACLE						
	PHONE						
\triangleleft	INTERNET/DATA						

MARK	DESCRIPTION	MANUFACTURE
A	8' LED STRIPLIGHT	DAYBRITE
В	LED WALL PACKS	LITHONIA
с	COMPACT FLUORESCENT FIXTURE WITH WIRE GUARD	DAYBRITE
D	3" LED RECESSED DOWNLIGHT	ACULUX
ЕМ	EMERGENCY LIGHT WITH BATTERY BACKUP	LITHONIA
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	LITHONIA
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	MCPHILBEN

ELEC	TRICAL LEGEND							
MARK	DESCRIPTION							
∯ wp	'GFI' DUPLEX WITH WEATHERPROOF COVER							
GFI	GROUND FAULT INTERUPTING RECEPTACLE							
d iG	208V OR 240 V RECEPTACLE							
J	JUNCTION BOX							
	FUSED DISCONNECT SWITCH							
~	SWITCHED BRANCH CIRCUIT							
۲ ⁻²	UNSWITCHED BRANCH CIRCUIT							
r D	120/208 VOLT CIRCUIT							
ф	CEILING MOUNTED DUPLEX RECEPTACLE							
\$-0/0	LIGHT FIXTURE (WALL/CEIL.)							
	FLUORESCENT FIXTURE							
	UNSWITCHED FLUOR. FIXT. WITH BATTERY STANDBY (SECURITY/ EMERGENCY LT.)							
⊗	'EXIT' LIGHT FIXTURE, TYPE 'EX'							
L C	BATTERY OPERATED EMERG. LT. (2–HEAD, WALL MTD.)							
\$	SINGLE-POLE SWITCH							
\$0	SINGLE-POLE SWITCH W/ OCCUPANCY SENSOR							
\$_3(4)	3-WAY SWITCH (4-WAY SWITCH)							
ф	DUPLEX RECEPTACLE							
Ф	CEILING MOUNTED RECEPTACLE							
_	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)							
#	QUAD RECEPTACLE							
	PHONE							
	INTERNET/DATA							

ELECTRICAL NOTES (GENERAL)

. THE ELECTRICAL INSTALLATION, EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL, AS A MINIMUM, BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), ALL APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL CODES, LAWS, AND ORDINANCES, AND RULINGS OF THE INSPECTION AUTHORITIES HAVING JURISDICTION. ALL FEES, PERMITS, ETC., ASSOCIATED WITH THE ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

2. THE DRAWINGS GENERALLY INDICATE THE WORK TO BE INSTALLED, BUT DO NOT SHOW ALL BENDS, BOXES, FITTINGS, AND SPECIALTIES WHICH MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SUCH ITEMS REQUIRED TO COMPLETE THE INSTALLATION ACCORDING TO INDUSTRY ACCEPTED PRACTICES SHALL BE INCLUDED IN THE BID.

3. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED AND LABELED BY UNDERWRITERS LABORATORIES, INC.

4. ALL PENETRATIONS OF FIRE WALLS SHALL BE SEALED WITH APPROVED SEALING MATERIALS TO MAINTAIN THE FIRE RATING OF THE WALLS. 5. THE CONTRACTOR SHALL VERIFY WIRE AND FUSE/CIRCUIT BREAKER SIZING FOR ALL MECHANICAL EQUIPMENT PRIOR TO PURCHASING MATERIALS AND INSTALLING BRANCH CIRCUITS.

6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND CONFLICTS. APPARENT INTERFERENCES OR CONFLICTS SHALL BE REPORTED TO THE PRIME CONTRACTOR AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.

7. THE ELECTRICAL CONTRACTOR SHALL CONNECT BRANCH CIRCUITS TO THE MAIN LINE TERMINALS OF EQUIPMENT FURNISHED BY OTHER CONTRACTORS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY NECESSARY SWITCHES, DISCONNECTS, OR OVERCURRENT PROTECTION AHEAD OF SUCH EQUIPMENT.

8. RACEWAYS ARE SHOWN SCHEMATICALLY AND MAY BE REROUTED IN THE FIELD. THEY SHALL BE INSTALLED AT RIGHT ANGLES TO OR PARALLEL WITH BUILDING LINES. THEY SHALL BE RUN CONCEALED WITHIN WALLS OR BUILDING STRUCTURES WHEREVER POSSIBLE. 9. ALL RACEWAYS, EQUIPMENT, ETC., ABOVE A SUSPENDED CEILING SHALL BE MOUNTED A MINIMUM OF 18" ABOVE THE CEILING SO AS NOT TO

BLOCK ANY TILE OR FIXTURE ACCESS. 10. THE MINIMUM ALLOWABLE SIZE FOR ANY CONDUIT, IMC, OR EMT SHALL BE 1/2" AND MAY BE USED FOR 2#12 WIRE SWITCHLEGS ONLY.

A SWITCHLEG SHALL BE DEFINED AS THE RUN OF CONDUIT FROM THE SWITCH OUTLET BOX TO THE FIRST OUTLET BEING SWITCHED. 11. FULL WEIGHT GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN THE FOLLOWING AREAS:

- A. ON THE EXTERIOR OF THE BUILDING OR ROOF,
- B. VERTICAL DROPS WHERE THE CONDUIT CANNOT BE ANCHORED TO WALLS OR OTHER SUPPORT
- STRUCTURES, C. WHERE SUBJECT TO MECHANICAL DAMAGE.

12. ALL WIRE AND CABLE SHALL BE COPPER AND HAVE 600 VOLT THHN-THWN INSULATION. ALUMINUM WIRING SHALL NOT BE PERMITTED.

13. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR CONTROL WIRING, WHICH MAY BE #14 AWG. CONTROL WIRING SHALL USE STRANDED CONDUCTORS UNLESS OTHERWISE NOTED.

14. ALL METAL RACEWAY SYSTEMS SHALL BE MADE ELECTRICALLY CONTINUOUS. THE RACEWAY SYSTEM SHALL NOT BE THE SOLE GROUNDING METHOD. AN INSULATED COPPER GROUNDING CONDUCTOR SHALL BE INSTALLED FOR ALL FEEDERS AND BRANCH CIRCUITS. AT RECEPTACLES, A GREEN GROUND CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL OF THE RECEPTACLE.

15. THE ELECTRICAL CONTRACTOR SHALL COORDINATE FUSE AND DISCONNECT SWITCH SIZES WITH THE MECHANICAL EQUIPMENT SUPPLIER PRIOR TO PURCHASE AND INSTALLATION OF BRANCH CIRCUIT EQUIPMENT. IF EQUIPMENT SIZING CHANGES FROM DESIGN SIZES, CIRCUITS SHALL BE RESIZED ACCORDINGLY.

16. LIGHT FIXTURES FOR INSTALLATION IN A SUSPENDED CEILING SHALL BE SECURELY FASTENED TO THE CEILING SUSPENSION SYSTEM IN A MANNER TO PREVENT FIXTURES FROM FALLING. IN ADDITION, 16 GAGE WIRE HANGERS SHALL BE FASTENED TO THE FOUR CORNERS OF THE FIXTURES.

17. CONNECTIONS TO FIXTURES INSTALLED IN SUSPENDED CEILINGS SHALL BE MADE WITH FLEXIBLE METAL CONDUIT TO ALLOW THE FIXTURE TO BE LIFTED OUT OF THE GRID AND MOVED TO AN ADJACENT GRID LOCATION. 18. BREAKERS SUPPLYING HVAC OR REFRIGERATION EQUIPMENT SHALL BE HACR TYPE.

19. 3/4" CONDUIT IS MINIMUM ALLOWABLE SIZE EXCEPT AS INDICATED IN #10. CONDUIT FILL NOT TO EXCEED 40% AS PERMITTED BY THE

20. ALL CONDUCTORS TO BE INSTALLED IN CONDUIT (EXCEPT WHERE ROMEX IS INSTALLED). EMT FITTINGS TO BE COMPRESSION TYPE, INSULATED THROAT.

21. NOT USED

NATIONAL ELECTRIC CODE.

22. DATA, SECURITY, THEATRICAL, AND VIDEO SYSTEMS TO BE PROVIDED BY OWNER. ROUGH-IN OF OUTLETS AND CONDUIT WILL BE BY CONTRACTOR AS SHOWN ON DRAWINGS. 23. NOT USED

24. NO. 10 CU AWG CONDUCTORS SHALL BE USED FOR 20 AMP BRANCH CIRCUIT HOMERUNS EXCEEDING 50 FT. TO THE JUNCTION POINT. 20 AMP BRANCH CIRCUIT WIRING SHALL BE NO. 10 CU AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 100 FEET TOTAL LENGTH. 20 AMP BRANCH CIRCUIT WIRING SHALL BE NO. 8 CU AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 200 FEET TOTAL LENGTH. 20 AMP BRANCH CIRCUIT WIRING SHALL BE NO. 6 CU AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 400 FEET TOTAL LENGTH. 20 AMP BRANCH CIRCUIT SHALL BE NOT EXCEED 500' FEET IN TOTAL LENGTH. (UNLESS MARKED OTHERWISE)

25. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. SPLICES WILL NOT BE MADE EXCEPT WITHIN ACCESSIBLE OUTLET OR JUNCTION BOXES, TROUGHS, OR GUTTERS. 26. MAKE CONDUCTOR LENGTHS FOR PARALLEL CIRCUITS EQUAL.

27. INSTALL TELEPHONE OUTLETS WITH 3/4" EMPTY CONDUIT AND PULL CORD. STUB OUT ABOVE CEILING. PHONE SYSTEM INSTALLED BY OWNER.

28. ALL CONDUIT WITHOUT CONDUCTORS SHALL HAVE NYLON PULLCORDS INSTALLED.

29. THE CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION, AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.

30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES FOR PERMITS AND INSPECTIONS. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR ELECTRIC UTILITY CONNECTION FEES AND LINE EXTENSION FEES.

31. ELECTRICAL CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION WHICH DEVELOPS OBJECTIONABLE NOISES SHALL BE MADE FROM THE CONDUIT SYSTEM WITH SHORT LENGTHS OF FLEXIBLE "LIQUID-TITE" CONDUIT. 32. ALL WIRE TERMINATIONS AND EQUIPMENT TO BE RATED FOR 75° C MINIMUM.

33. ELECTRICAL CONTRACTOR TO MAINTAIN 2' OF SEPARATION ON RECEPTACLES ON OPPOSITE SIDES OF ANY FIRE RATED WALL PER 2021 N.E.C. 300.21.

34. WIRING TO DISCONNECT SWITCH AND DISCONNECT SWITCH SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. WIRING FROM THE DISCONNECT TO THE EQUIPMENT SHALL BE BY THE MECHANICAL CONTRACTOR.

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE:

ENERGY CODE: ASHRAE 90.1:	PRESCRIPTIVE PRESCRIPTIVE		PERFORMANC PERFORMANC	E 🗆
REFER TO DRAWINGS FOR	RISER DIAGRAM	AND PANE	L SCHEDULES	
LIGHTING SCHEDULE				
LAMP TYPE REQUIRED IN	EE SCHEDULE			
NUMBER OF LAMPS IN FIX	TURE:			
BALLASTS TYPE USED IN	FIXTURE:			
NUMBER OF BALLASTS IN	FIXTURE:			
TOTAL WATTAGE PER FIXT	URE:			
TOTAL INTERIOR WATTAGE	SPECIFIED VS.	ALLOWED:		
TOTAL EXTERIOR WATTAGE	SPECIFIED VS.	ALLOWED:		
ADDITIONAL PRESCR	IPTIVE COMPL			
506.2.1 MORE EFFICIENT N	IECHANICAL EQU	JIPMENT		
506.2.2 REDUCED LIGHTIN	g power densi	ΓY	\square	
506.2.3 ENERGY RECOVER	Y VENTILATION	SYSTEMS		
506.2.4 HIGHER EFFICENC	Y SERVICE WATE	R HEATING		
506.2.5 ON-SITE SUPPLY	OF RENEWABLE	ENERGY		
506.2.6 AUTOMATIC DAYLI	GHTING CONTRO	L SYSTEMS		

NOIE:	
VERIFY AIC RATING & L	UG SPACI
WITH UTILITY COMPANY	BEFORE
ORDERING PANELS.	

3.5 >

3.0

32.0

26.5

26.5

FEEDER SCHEDULE										
UNIT	FEEDERS	FUSED DISCONNECT	CONDUIT							
AHU'S 1,2	2#8 CU, 1#10 CU GND	60	3/4"							
AHU'S 3,4	2#6 CU, 1#8 CU GND	60	3/4"							
IEAT PUMPS 1,2	2#10 CU, 1#12 CU GND	60	3/4"							
IEAT PUMPS 3,4	2#6 CU, 1#8 CU GND	60	3/4"							

ELECTRICAL LOAD CALCULATIONS									
19700 SQUARE FEET	<u>VA</u>								
	4000								
11 RECEPTACLES @ 180 VA EA. 1ST 10000	1980								
REMAINDER @ 50%	1080								
	1900								
CONTINUOUS LOADS:									
GENERAL LIGHTING LOAD VA/SQ. FT.									
19700 SQ. FT. 0.25 4925 x 1.25	4925 6157								
AIR HANDLER UNIT	30720								
HEAT PUMPS	21216								
EQUIPMENT:	600								
25% OF LARGEST MOTOR	1092								
GRAND TOTAL	61765								
257 AMPS @ 120/240V, 1ø, 60HZ									

ELECTRICAL RISER DIAGRAM NOT TO SCALE

UNDERGROUND ELECTRIC SERVICE

BY ELECTRIC UTILITY COMPANY

		PA	NEL:	'A'	SCHEDULE	<u> </u>	MAN	IUF		TURER: <u>SQ. D</u> . N	io. of s	PACE	ES_4	2		
SPACE ORE		VO EN	LTS: CLO	<u>120/:</u> Sure	2 <u>40</u> AMPS :: <u>NEMA 3R ·</u>	` <u>400</u> ¢: <u>1</u>		TYP	E: _ S	<u>'NQOD'</u> MOU HORT CIRCUIT RATI	JNTING: NG: <u>2</u>	<u>SURF</u> 2,000	ACE)			
		MAIN	X	MLO		BOTTOM FI	EED: 🛛	co	PPER I	BUS: 🛛 GROUND BAR KIT:	□ NEVI	ral Bai	r kit:			
		IT	6					PH,	ASE				G	IT		
L1	L2	CIRCU	POLES	TRIP	ASSIGN	MEN	ΙT	L	2	ASSIGNME	NT	TRIP	POLE	CIRCU	L1	L2
3.5	\ge	1	1	20	WALLPA	CKS		0		CORRIDOR #1 LTS. LI	EFT SIDE	20	1	2	4.9	\ge
\succ	3.5	3	1	20	WALLPA	CKS			0	CORRIDOR #1 LTS. RI	GHT SIDE	20	1	4	\ge	5.5
3.0	\ge	5	1	20	HVAC UNITS #1	CONV.	RECS.	0		CORRIDOR #2 LIG	HTING	20	1	6	7.8	\geq
\succ	3.0	7	1	20	HVAC UNITS #2	CONV.	RECS.		0	CORRIDOR #3 LIG	HTING	20	1	8	\ge	6.0
3.0	\ge	9	1	20	HVAC UNITS #3	CONV.	RECS.	0		CORRIDOR CONV. R	ECEPTS.	20	1	10	4.5	\geq
\succ	3.0	11	1	20	HVAC UNITS #4	CONV.	RECS.		0	HP-1		35	2	12	\ge	17.7
32.0	\geq	13	2	50	AHU–	1		0						14	17.7	\geq
\succ	32.0	15							0	AHU-2		50	2	16	\succ	32.0
17.7	\ge	17	2	35	HP-2	2		0						18	32.0	\geq
\succ	17.7	19							0	AHU-3		50	2	20	\ge	32.0
26.5	\succ	21	2	50	HP-3	3		0						22	32.0	\triangleright
\succ	26.5	23							0	AHU-4		50	2	24	\ge	32.0
26.5	\geq	25	2	50	HP-4	4		0						26	32.0	\geq
\succ	26.5	27							0	FRONT CORRIDOR	LIGHTS	20	1	28	\geq	5.5
Х	\geq	29	1	20	SPAF	E		0		SPARE		20	1	30	Х	\geq
\succ	5.0	31	1	20	BUILDING	SIGN			0	REAR CORRIDOR L	IGHTING	20	1	32	\geq	4.9
Х	\succ	33	1	20	SPAF	E.		0		SPARE		20	1	34	Х	\triangleright
\geq	Х	35	1	20	SPAF	E.			0	SPARE		20	1	36	\geq	Х
Х	\geq	37	1	20	SPAF	E.		0		SPARE		20	1	38	Х	\geq
\ge	X	39	1	20	SPAF	E			0	SPARE		20	1	40	\ge	X
X	\ge	41	1	20	SPAF	E		0		SPARE		20	1	42	X	\geq
							L1 L2	=	243. 247.	.1 A .8 A						

- GROUNDING PER NEC 250. 1/0 CU TO COLD WATER MAIN, BUILDING STEEL, SPRINKLER MAIN AND CONCRETE ENCASED ELECTRODE. #6 AWG TO (2) DRIVEN GROUND RODS, MINIMUM OF 6' APART. BOND ALL SERVICE GROUNDING ELECTRODES PER NEC 250 WITH (1) 1/0 CU GND

