# LEE'S SUMMIT LOGISTICS 43IK SPEC BUILDING



# **CIVIL ENGINEER**

OLLSON 7301 W. 133RD ST. SUITE 200 OVERLAND PARK, KS 66213 O:913.381.1170

**OWNER** 

SCANNELL PROPERTIES 8801 RIVER CROSSING BLVD. SUITE 300 INDIANAPOLIS, IN 46240 O:317.218.1648

# **NE TUDOR RD & MAIN ST** LEE'S SUMMIT, MO 64086 11.02.22

# **BUILD OUT CONSTRUCTION SET**





# CURRAN

ARCHITECTURE 5719 LAWTON LOOP E. DR. #212 INDIANAPOLIS, IN 46216 O: 317.288.0681 **CONTACT : SHAWN CURRAN** 

**STRUCTURAL ENGINEER** 

WALLACE DESIGN COLLECTIVE 1741 McGEE STREET KANSAS CITY, MO 64108 O:816.421.8282

# CONTRACTOR

KADEAN CONSTRUCTION 1821 McGEE STREET KANSAS CITY, MO 64108 O:816.708.1199

### RELEASED FOR CONSTRUCTION As Noted on Plans Review Lee's Summit, Missou 11/07/2022

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<u></u>	

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OVERALL MECHANICAL PLAN ML M2.I MECHANICAL SCHEDULES

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# ELECTRICAL

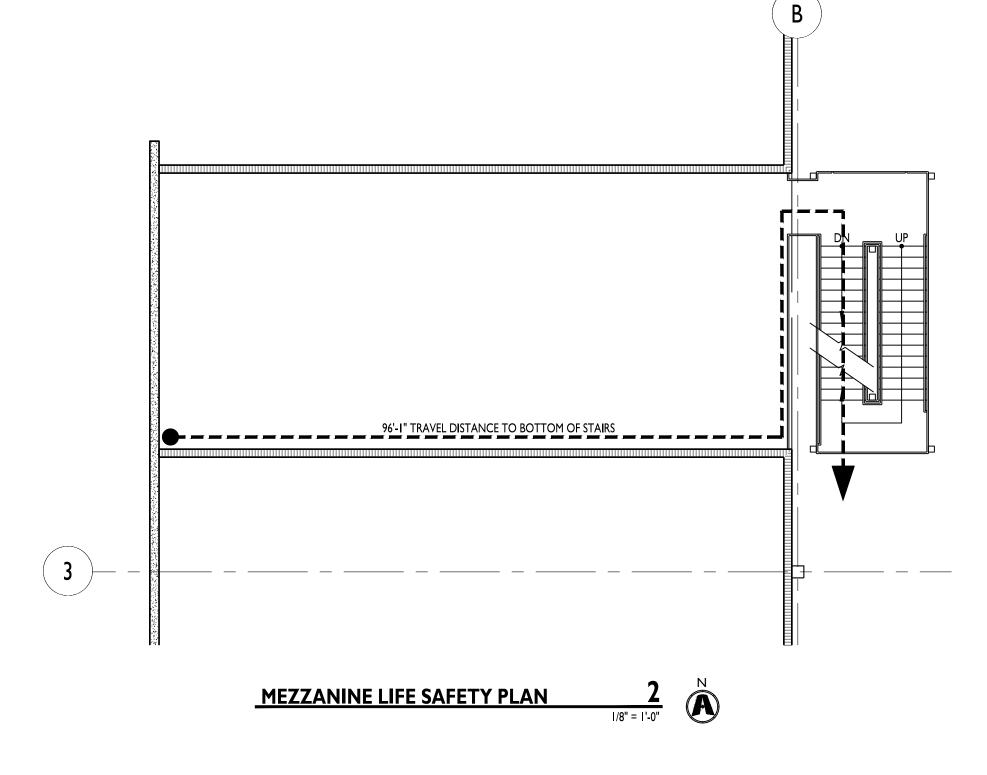
EI.00	LIGHTING PLAN
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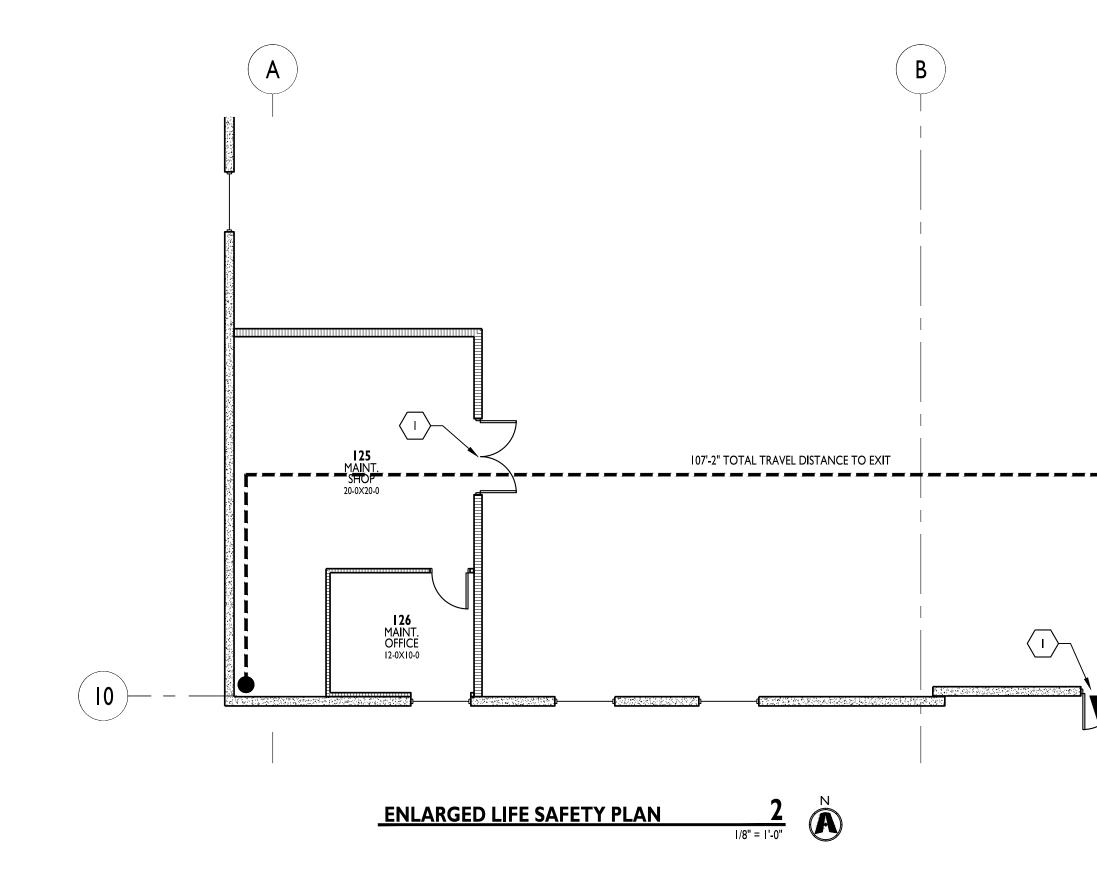
# **FIRE PROTECTION**

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FP2.9.2	AREA 9 SYSTEMS CONT. 10-11
FP3.0	FIRE PUMP AND RISER DETAIL



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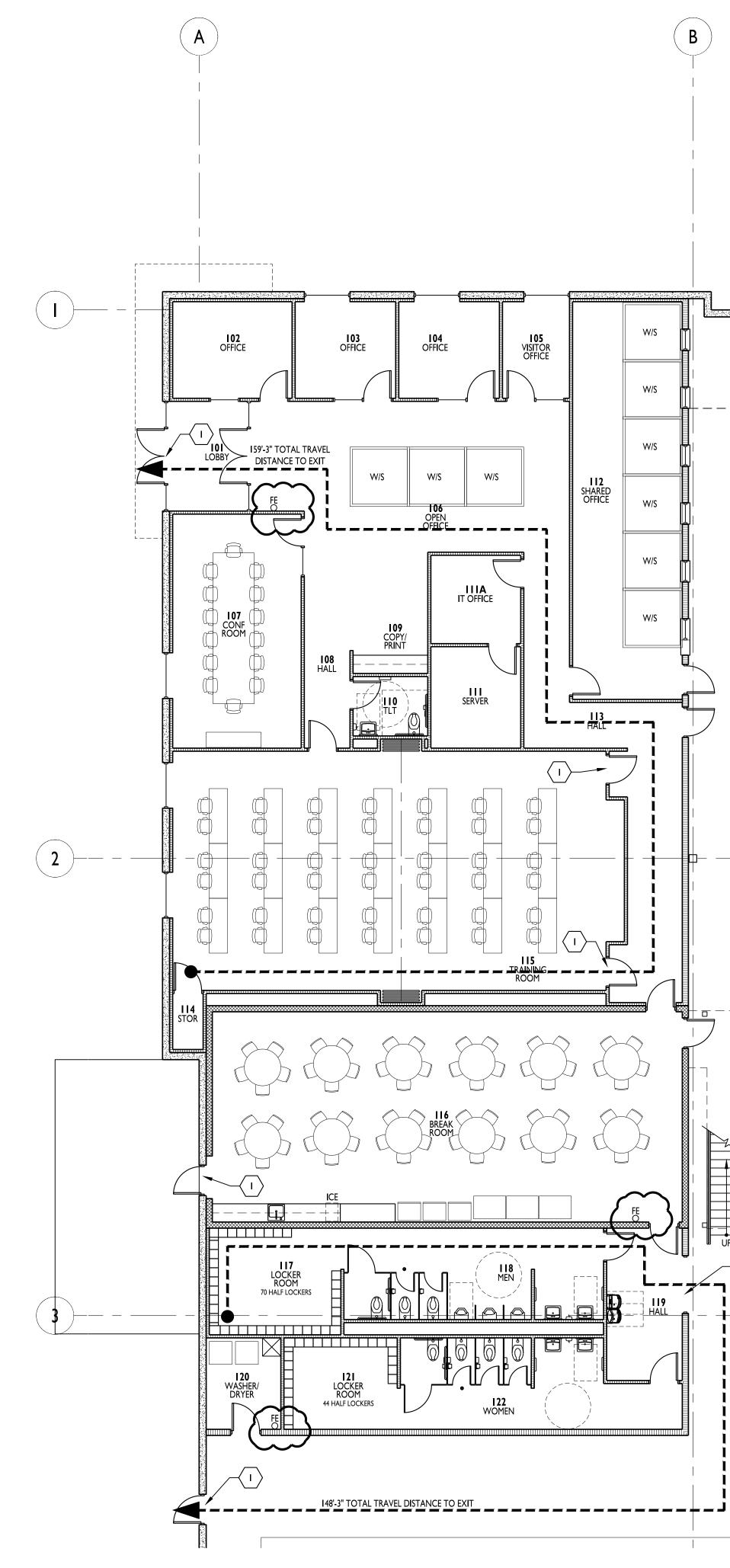




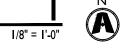
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I. EXIT, EXIT SIGN, AND EMERGENCY LIGHTING ABOVE DOOR INTERIOR WITH BATTERY BACKUP. EXTERIOR EGRESS LIGHTING ABOVE DOOR TIED TO BATTERY BACK UP.

FINAL QUANTITY AND LOCATIONS TO BE DETERMINED WITH FINAL RACKING PLAN AND FIRE DEPARTMENT REVIEW. 2.

# **CODE ANALYSIS**

APPLICABLE CODES BUILDING CODE 2018 INTERNATIONAL BUILDING CODE

В

PLUMBING CODE 2017 INTERNATIONAL PLUMBING CODE

ELECTRICAL CODE 2017 NATIONAL ELECTRICAL CODE

FIRE CODE 2018 INTERNATIONAL FIRE CODE

MECHANICAL CODE 2018 INTERNATIONAL MECHANICAL CODE

FUEL GAS CODE 2018 FUEL GAS CODE

DRIVER CAGE

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HANDICAPPED ACCESSIBILITY CODE 2009 ANSI ATT7. ADA ACCESSIBILITY GUIDELINES

### OCCUPANCY (OVERALL BUILDING) CLASSIFICATION (302.1):

CLASSIFICATION (302.1):	S-1
OCCUPANCY (TENANT SPACE)	
CLASSIFICATION (302.1):	S-I
ACCESSORY USES (508.2.1):	В
NON-SEPARATED USES (508.3.2):	N/A
SEPARATED USES (508.3.3):	N/A
AUTOMATIC SPRINKLER SYSTEM	
SPRINKLER SYSTEM REQUIRED (903):	YES
SPRINKLER SYSTEM PROVIDED:	YES / ESFR
ALLOWABLE BUILDING HEIGHT	
TABULAR HEIGHT (503):	2 STORY
ALLOWABLE BUILDING AREA	
TABULAR AREA (503):	17,500 SF
BUILDING AREA INCREASE	
INCREASE FOR SPRINKLERED BUILDING (506.3):	300%
UNLIMITED AREA (507):	UNLIMITED
FRONTAGE INCREASE (506.2):	N/A
lf = (F/P25) × W / 30	
TOTAL ALLOWABLE AREA WITH INCREASES:	UNLIMITED
$Aa = At + (At \times If) + (At \times Is)$	
Aa = FILL IN	
ACTUAL BUILDING HEIGHT AND AREA	
BUILDING AREA:	433,301 SF

BUILDING AREA:	433,301 SF
BUILDING HEIGHT (FEET / # FLOORS):	45'-6" / I FLR
TABULAR OCCUPANT LOAD (1004.1.2)	
OCCUPANT LOAD FACTOR:	I / 500
ACTUAL OCCUPANT LOAD (1004.1.2)	
SQUARE FOOTAGE / OCCUPANT LOAD FACTOR:	433301 / 500
TOTAL OCCUPANTS:	867
FIRE RESISTIVE REQUIREMENTS (601 AND 602)	
CONSTRUCTION TYPE:	II-B
STRUCTURAL FRAME:	NR
EXTERIOR BEARING WALLS:	NR
INTERIOR BEARING WALLS:	NR
EXTERIOR NON-BEARING WALLS:	NR
INTERIOR NON-BEARING WALLS	NR
FLOOR CONSTRUCTION:	NR
ROOF CONSTRUCTION:	NR
SHAFTS:	N/A
FIRE RESISTANCE RATED CONSTRUCTION (704, 601, 602	)
RATED EXTERIOR WALLS:	N/A
FIRE SEPARATION DISTANCE	60' +
UNPROTECTED OPENING AREA:	N/A

**INTERIOR WALL AND CEILING FINISH REQUIREMENTS (803)** SEE FINISH SCHEDULE FOR MATERIALS ALL MATERIALS ARE CLASS A RATED

FIRE PROTECTION SYSTEMS	
STANDPIPE SYSTEM (905):	YES
PORTABLE FIRE EXTINGUISHERS (906.1):	BY TENANT
FIRE ALARM AND DETECTION SYSTEMS (907):	YES
SMOKE CONTROL SYSTEMS (909):	N/A
SMOKE AND HEAT VENTS (910):	N/A
EGRESS	
MINIMUM WIDTH FACTOR (1005.1):	0.15
REQUIRED MINIMUM WIDTH FROM SPACE (1005.1):	I 30.05"
MINIMUM NUMBER OF EXITS (1015):	3
ACTUAL NUMBER OF EXITS:	20
ACTUAL WIDTH OF EXITS:	792"

ALLOWABLE TRAVEL DISTANCE (1016.2):

CORRIDOR CONSTRUCTION (1018.1):

MINIMUM CORRIDOR WIDTH (1018.2): MAXIMUM DEAD END CORRIDOR (1018.4):

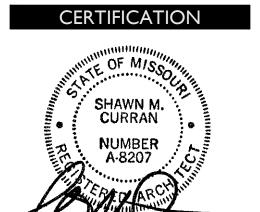


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mmit, Missouri



S-I



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# PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT I

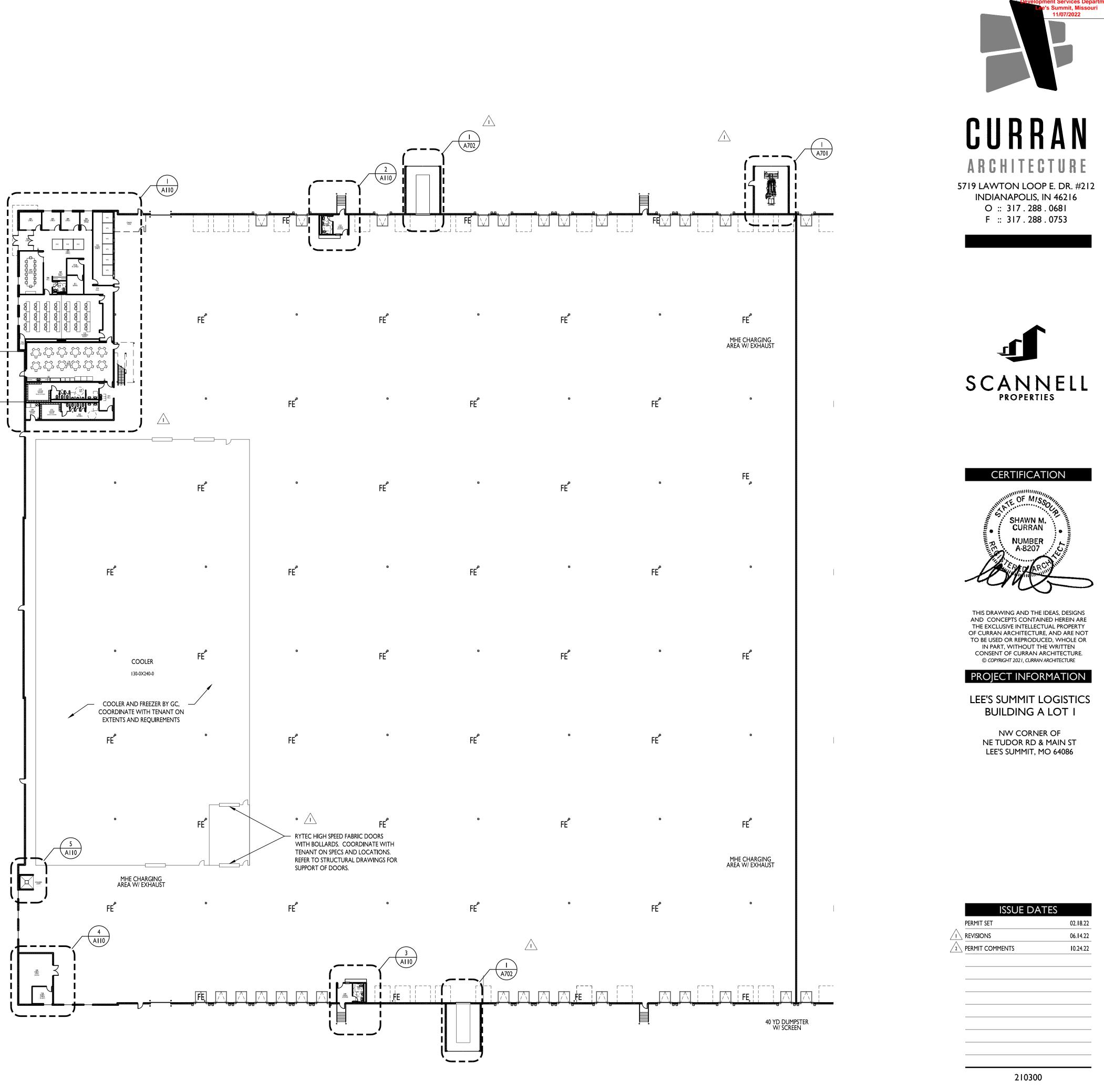
> NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

	ISSUE DATES	
	PERMIT SET	02.18.22
$\Delta$	PERMIT COMMENTS	10.24.22
$\triangle$	PERMIT COMMENTS	10.24.

# 210300

ENLARGED LIFE SAFETY PLANS





Ist FLOOR PLAN

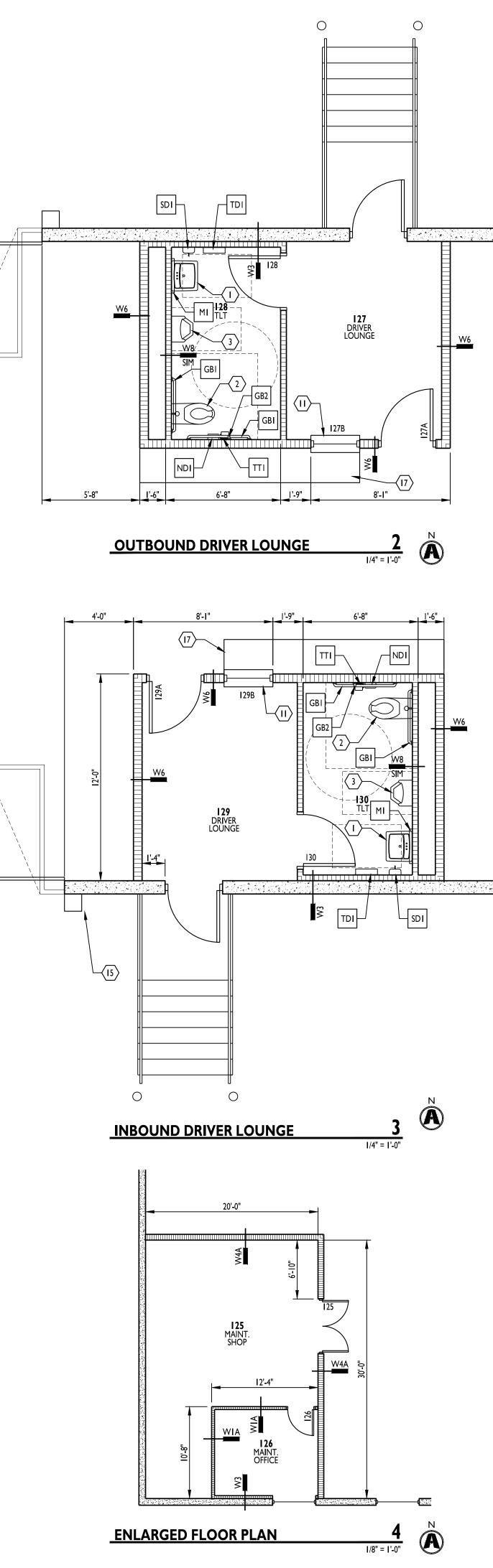
210300 Ist FLOOR PLAN BUILD OUT

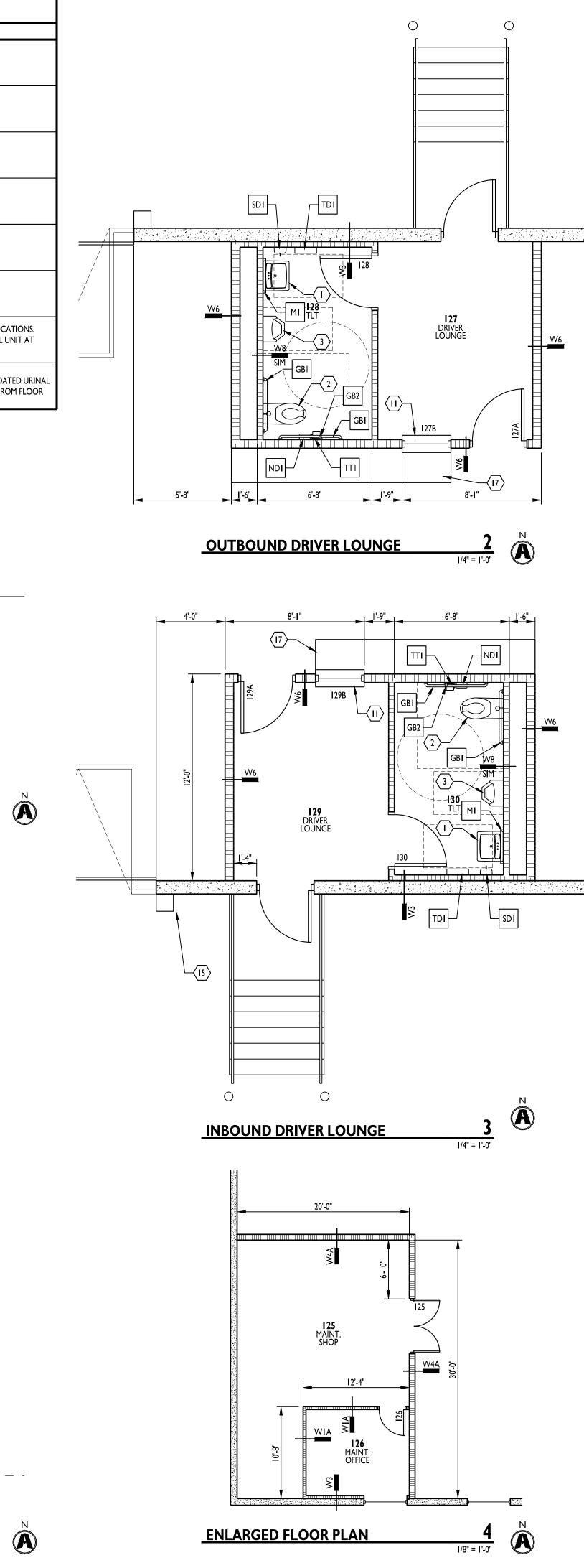
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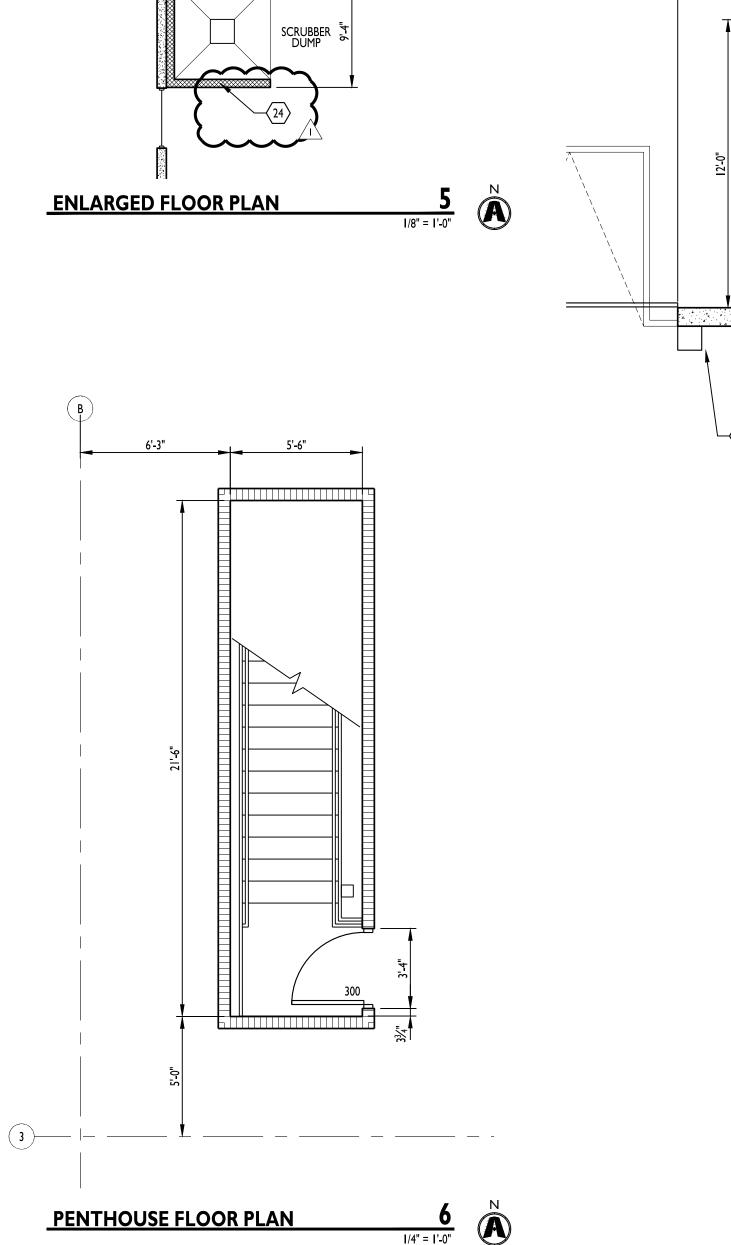


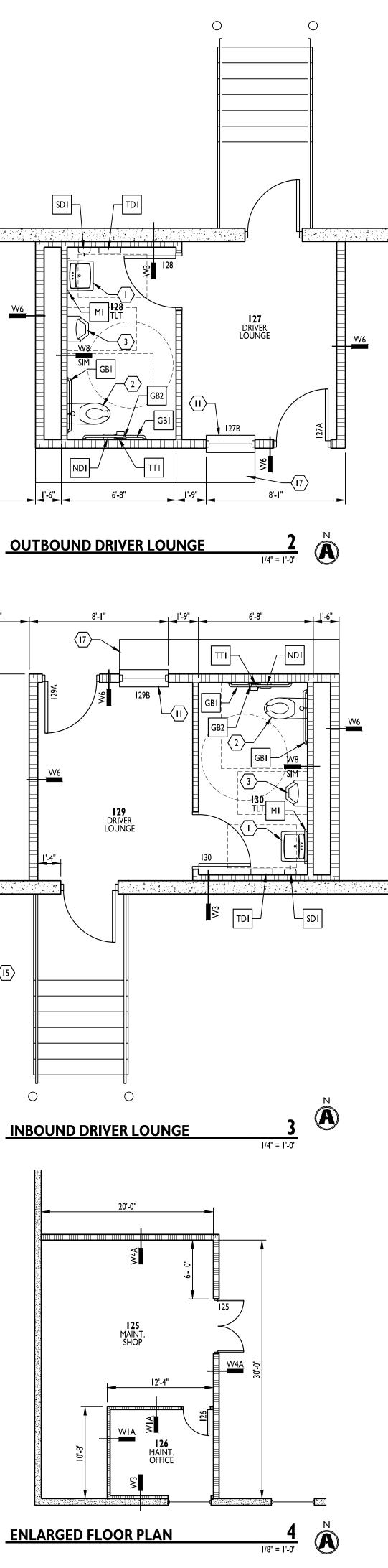
TOILET ACCESSORY SCHEDULE			
MARK	SYMBOL	MFR #	DESCRIPTION
TTI		BOBRICK B-2888	MULTI-ROLL TOILET TISSUE DISPENSER
GBI		BOBRICK B-5806 X 36 B-5806 X 42	36" AND 42" GRAB BARS
GB2	a	BOBRICK B-5806 X 18	18" VERTICAL GRAB BAR
MI		BOBRICK B-165	MIRROR 2'-0" X 4'-0"
TDI		BOBRICK B-3944	TOWEL DISPENSER / WASTE RECEPTACLE
SDI	<u> </u>	BOBRICK B-2112	SOAP DISPENSER
NDI		BOBRICK B-353 B-270	B-353: SANITARY NAPKIN DISPOSAL UNIT AT GWB LOCATIONS. B-270: SURFACE, MOUNT SANITARY NAPKIN DISPOSAL UNIT AT PARTITIONS
TPI	ſ	GENERAL PARTITION	TOILET PARTITION AND/OR URINAL SCREEN POWDER COATED URINAL SCREEN BOTTOM 12" FROM FLOOR AND TOP 60" MAX FROM FLOOR

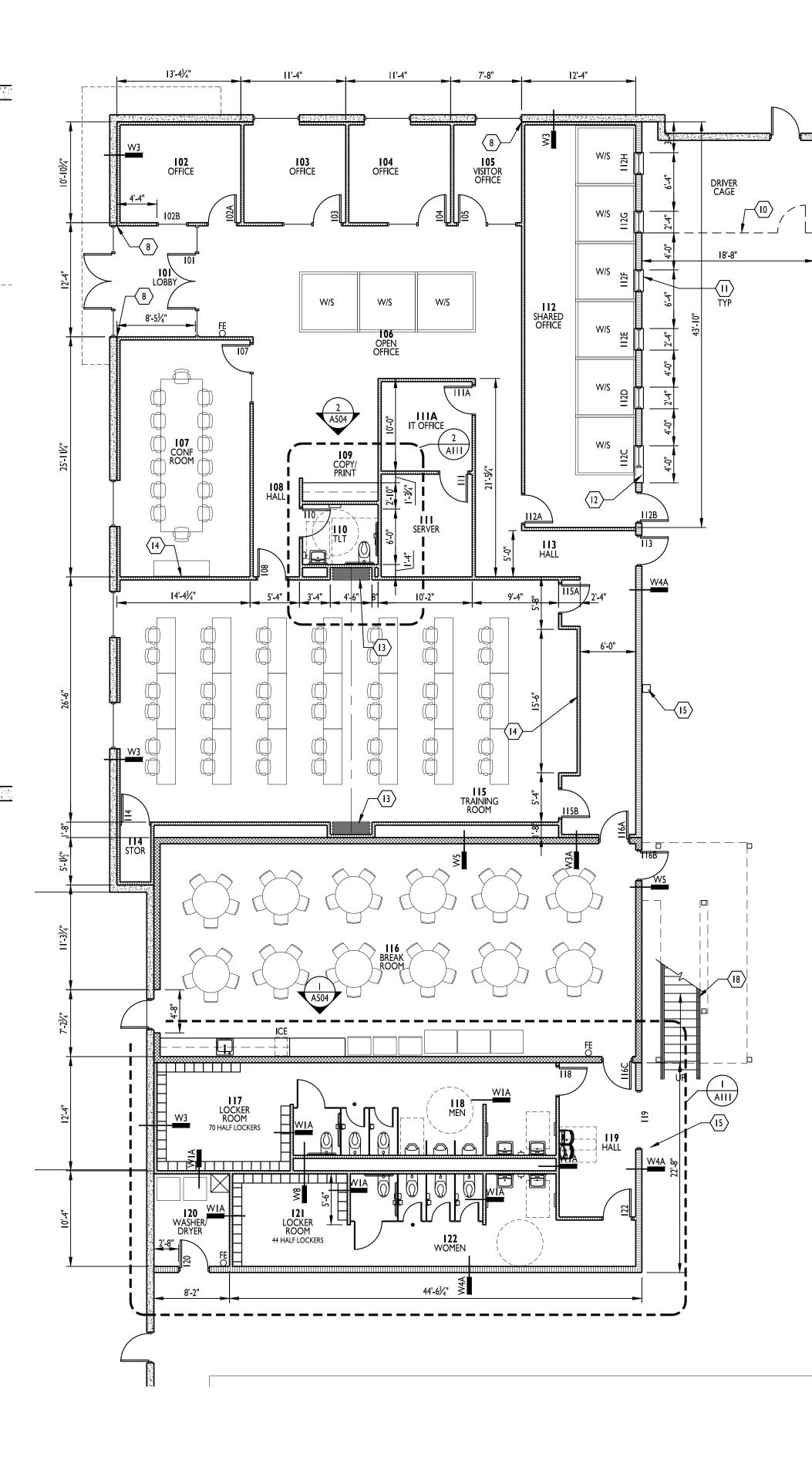
8'-8"











Ist FLOOR PLAN

1/8" = 1'-0"

A

- **GENERAL NOTES**
- A. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS NOTED IN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
- B. ALL DIMENSIONS SHOWN ARE FACE OF BRICK, MASONRY OR METAL STUD FRAMING, UNLESS OTHERWISE NOTED.
- C. PROVIDE DEEP LEG DEFLECTION TRACK AT ALL METAL STUD CONNECTIONS WITH STRUCTURE ABOVE, TYPICAL.
- D. PROVIDE FIRE RATED WOOD BLOCKING IN METAL STUD WALLS FOR ANY WALL SUPPORTED ITEMS.
- E. PROVIDE APPROVED FIRE RATED STOPPING MATERIALS IN ANY OPENINGS IN FIRE RATED ASSEMBLIES.
- F. REFER TO DOOR AND WINDOW SCHEDULES FOR ALL MATERIALS, FINISHES, AND HARDWARE INFORMATION. G. REFER TO EXTERIOR ELEVATIONS FOR ALL BRICK, MASONRY, AND
- OTHER EXPANSION JOINT LOCATIONS. H. ALL MATERIALS LOCATED IN CEILING PLENUM SHALL BE RATED
- FOR SUCH INSTALLATION OR PROTECTED TO PROVIDE COMPLIANCE. THIS INCLUDES BUT IS NOT LIMITED TO INSULATION (FHC 25/50) POWER AND LOW VOLTAGE WIRING, TELECOMMUNICATIONS CABLING, PLUMBING SUPPLY AND DRAIN LINES AND SUPPORTING BRACKETS AND/OR BLOCKING FOR CEILING HUNG ITEMS.
- PRIOR TO ORDERING ANY PRODUCTS, CONTRACTOR SHALL SUBMIT SAMPLES TO THE ARCHITECT OF ALL FINISH MATERIALS TO BE USED ON THE PROJECT. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY MATERIALS ORDERED INCORRECTLY WHEN THAT MATERIAL WAS NOT REVIEWED BY THE ARCHITECT.
- PROVIDE CONCRETE FILLED STEEL PIPE BOLLARDS AT ALL REQUIRED UTILITY EQUIPMENT LOCATIONS SUCH AS GAS METERS, ELECTRICAL TRANSFORMER PANELS, ETC., COORDINATE WITH UTILITY COMPANY AND CONTRACTORS, WHEN APPLICABLE, FOR NECESSARY LOCATIONS. REFER TO CIVIL DRAWINGS FOR BOLLARD SPECIFICATIONS AND ADDITIONAL INFORMATION.
- K. ALL DOORS, UNLESS OTHERWISE NOTED, TO HAVE HINGE SIDE SET 4" FROM CORNER SHOWN TO OUTSIDE OF FRAME.
- L. UNLESS SPECIFIED ELSEWHERE, ALL INTERIOR SLABS AND SLAB INFILLS TO BE FF-50/FL-35 OVERALL AND FF-35/FL-25 LOCAL.
- M. ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009

# **KEYED NOTES**

- ADA COMPLIANT WALL MOUNTED LAVATORY. PROVIDE SCALD GUARDS ON SUPPLY / WASTE LINE. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
- 2. ADA COMPLIANT WALL MOUNT FLUSH VALVE TOILET. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
- 3. ADA COMPLIANT WALL MOUNTED URINAL W/ FLUSH VALVE CONTROL. CENTER IN WIDTH OF STALL. REFER TO PLUMBING DRAWINGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
- 4. STANDARD HEIGHT WALL MOUNT FLUSH VALVE TOILET. CENTER IN WIDTH OF STALL.
- 5. STANDARD HEIGHT URINAL. CENTER IN WIDTH OF PARTITIONS (OR WALL).
- 6. WALL MOUNTED LAVATORY. MATCH HEIGHT OF ADA LAVATORIES
- 7. ADA COMPLIANT HI-LO WATER FOUNTAIN.
- 8. ALIGN FINISH FACE OF WALL, BOTH SIDES.
- 9. WASHER & DRYER.
- 10. 8'-0" TALL GALVANIZE D FENCE. PROVIDE GATE PER DETAIL 4/A504.
- II. PLASTIC LAMINATE 12" WIDE COUNTER. CENTER ON WIDTH OF WALL
- 12. PASS THRU CABINET W/ DOORS ON BOTH SIDES SEE 6/A504.
- CENTER ON WIDTH OF WALL 13. MODERN FOLD PAIRED PANEL PARTITION W/ VINYL FACE, MIN 51
- STC RATING. COORDINATE ALCOVE DIMENSIONS W/ SUPPLIER.
- 14. PROVIDE FR BLOCKING FOR TENANT PROVIDED TV.
- 15. STRUCTURAL STEEL COLUMN. 16. HALF HEIGHT LOCKERS 12" x 12" w/ 4" CURB & SLOPED TOP. PROVIDE 2 ADA COMPLIANT LOCKERS IN EACH ROOM.
- 17. WALL MOUNT SHELF. REFER TO 5/A504.
- 18. STEEL STAIRS, PAINT SAFETY YELLOW. REFER TO 1/A505.
- 19. 2' x 2' MOP SINK w/ WALL MOUNT FAUCET.
- 20. PRECAST PLANK ON CMU WALL WITH TOPPING SLAB. TOP OF SLAB AT 11'-8" AFF. REFER TO STRUCTURAL DRAWINGS
- 21. BAR JOIST ROOF FRAMING ABOVE. COORDINATE WITH STRUCTURAL DRAWINGS
- 22. ALIGN FINISH FACE OF GYP BOARD WITH FACE OF CMU WALL. 23. I  $\frac{1}{2}$ " DIA 42" TALL STEEL GUARDRAIL WITH VERTICAL PICKETS AT 4" OC MAX, PAINTED SAFETY YELLOW. ANCHOR INTO PRECAST
- PLANK. REFER TO 2/A505 24. 4' TALL CMU WALL WITH BULLNOSE TOP AND OUTER EDGES. PAINT WITH EPOXY PAINT.
- 25. FLOOR SLAB TO SLOPE TO CATCH BASIN. REFER TO PLUMBING DRAWINGS FOR WATER SUPPLY AND DRAIN
- 26. PROVIDE INSULATED STEEL DOOR AT PENTHOUSE, FACING SOUTH. DOOR #200 ON SCHEDULE.









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### PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT I

> NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

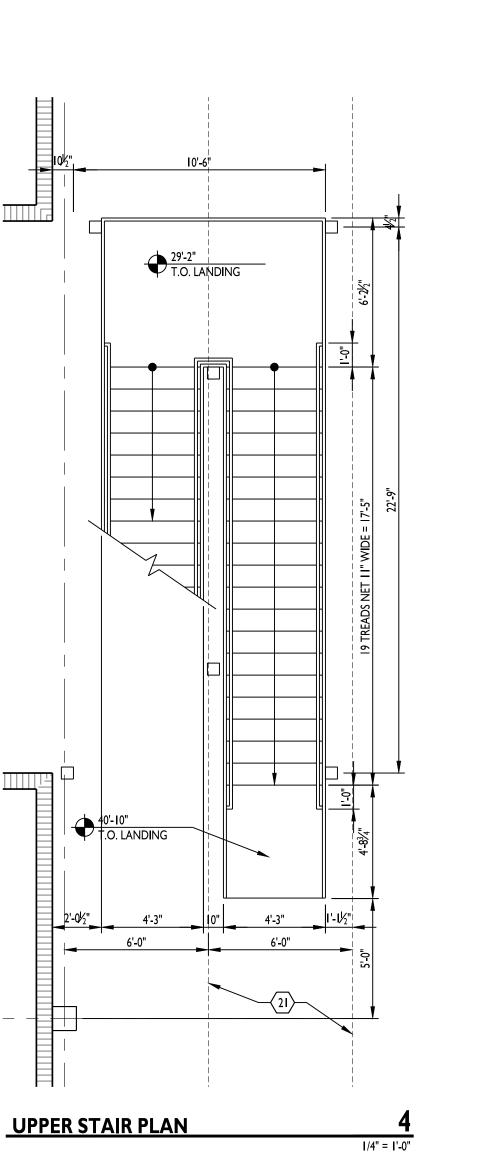
		ISSUE DATES	
	PERMIT SET		02.18.22
$\triangle$	REVISIONS		06.14.22

210300

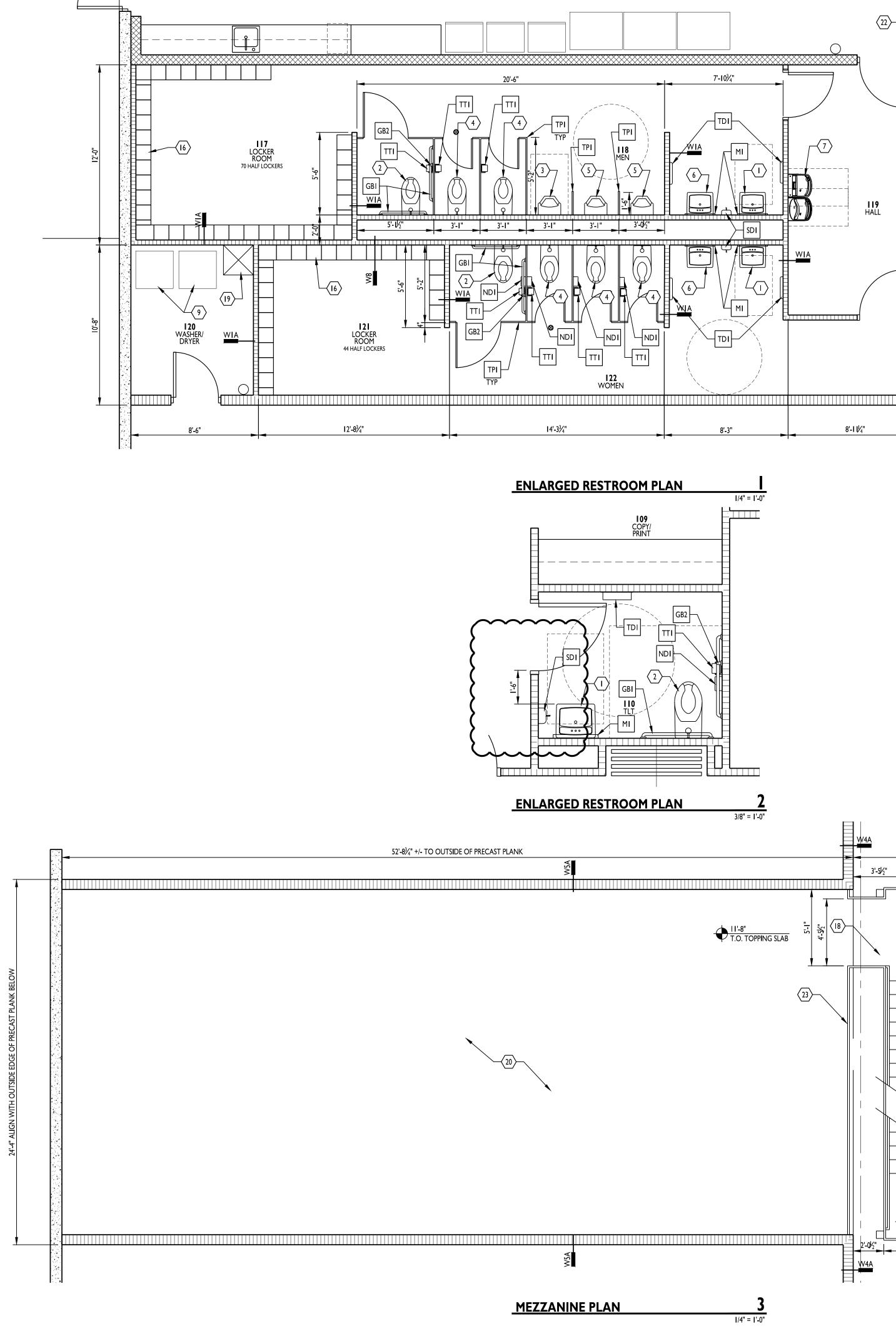
ENLARGED FLOOR PLANS

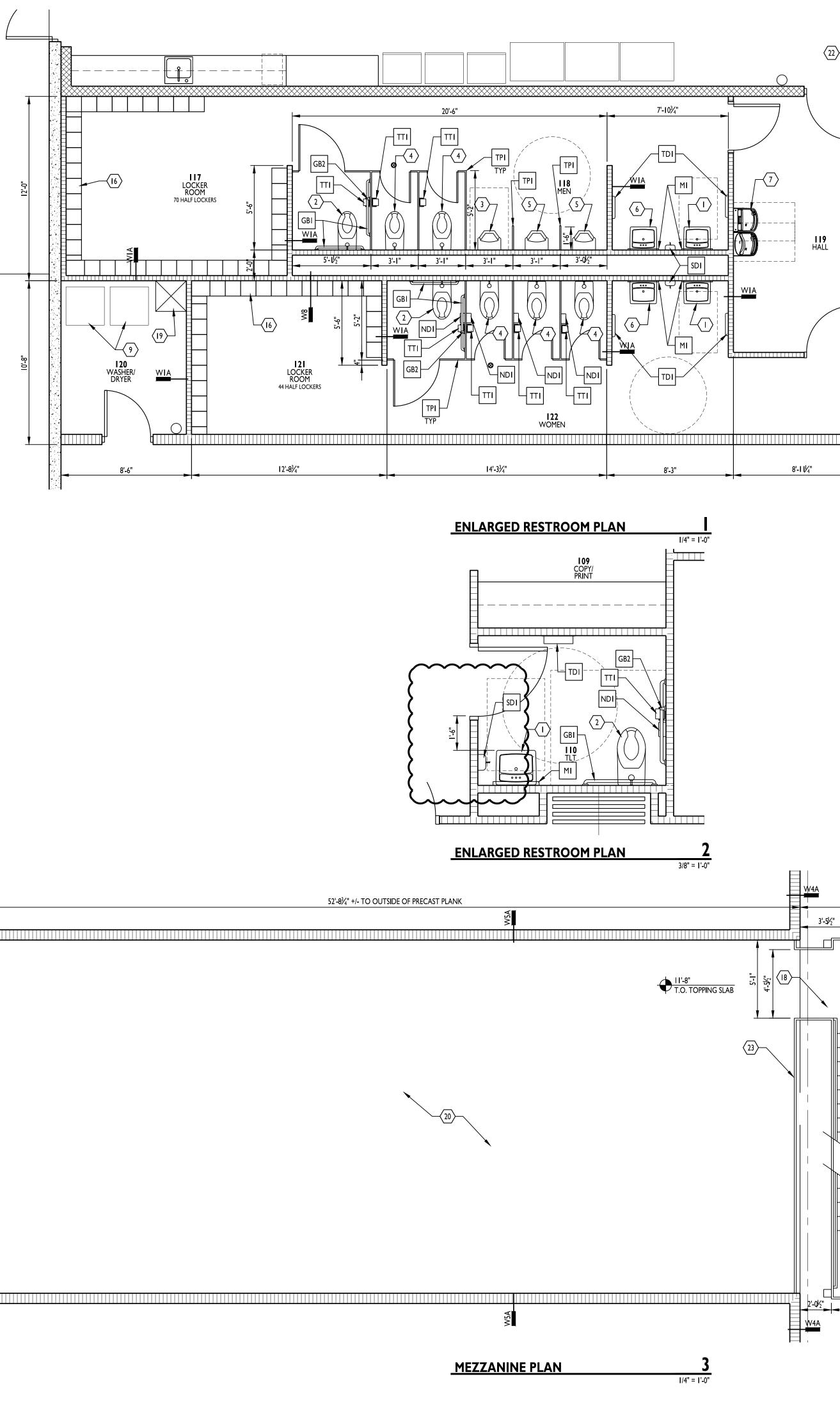


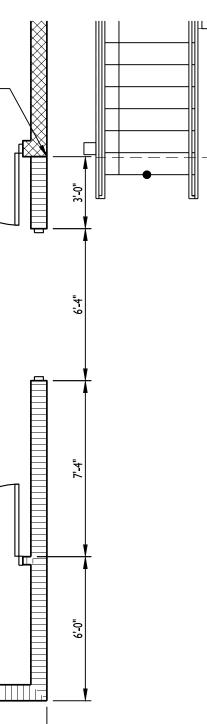
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SDI	<u>ط</u>	BOBRICK B-2112	soap dispenser
NDI		BOBRICK B-353 B-270	B-353: SANITARY NAPKIN DISPOSAL UNIT AT GWB LOCATIONS. B-270: SURFACE, MOUNT SANITARY NAPKIN DISPOSAL UNIT AT PARTITIONS
TPI	[	general Partition	TOILET PARTITION AND/OR URINAL SCREEN POWDER COATED URINAL SCREEN BOTTOM I2" FROM FLOOR AND TOP 60" MAX FROM FLOOR



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# **GENERAL NOTES**

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- E. PROVIDE APPROVED FIRE RATED STOPPING MATERIALS IN ANY OPENINGS IN FIRE RATED ASSEMBLIES.
- F. REFER TO DOOR AND WINDOW SCHEDULES FOR ALL MATERIALS, FINISHES, AND HARDWARE INFORMATION. G. REFER TO EXTERIOR ELEVATIONS FOR ALL BRICK, MASONRY, AND
- OTHER EXPANSION JOINT LOCATIONS. H. ALL MATERIALS LOCATED IN CEILING PLENUM SHALL BE RATED FOR SUCH INSTALLATION OR PROTECTED TO PROVIDE COMPLIANCE. THIS INCLUDES BUT IS NOT LIMITED TO
- INSULATION (FHC 25/50) POWER AND LOW VOLTAGE WIRING, TELECOMMUNICATIONS CABLING, PLUMBING SUPPLY AND DRAIN LINES AND SUPPORTING BRACKETS AND/OR BLOCKING FOR CEILING HUNG ITEMS.
- I. PRIOR TO ORDERING ANY PRODUCTS, CONTRACTOR SHALL SUBMIT SAMPLES TO THE ARCHITECT OF ALL FINISH MATERIALS TO BE USED ON THE PROJECT. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY MATERIALS ORDERED INCORRECTLY WHEN THAT MATERIAL WAS NOT REVIEWED BY THE ARCHITECT.
- PROVIDE CONCRETE FILLED STEEL PIPE BOLLARDS AT ALL REQUIRED UTILITY EQUIPMENT LOCATIONS SUCH AS GAS METERS, ELECTRICAL TRANSFORMER PANELS, ETC., COORDINATE WITH UTILITY COMPANY AND CONTRACTORS, WHEN APPLICABLE, FOR NECESSARY LOCATIONS. REFER TO CIVIL DRAWINGS FOR BOLLARD SPECIFICATIONS AND ADDITIONAL INFORMATION.
- K. ALL DOORS, UNLESS OTHERWISE NOTED, TO HAVE HINGE SIDE SET 4" FROM CORNER SHOWN TO OUTSIDE OF FRAME.
- L. UNLESS SPECIFIED ELSEWHERE, ALL INTERIOR SLABS AND SLAB INFILLS TO BE FF-50/FL-35 OVERALL AND FF-35/FL-25 LOCAL.
- M. ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009

# **KEYED NOTES**

- I. ADA COMPLIANT WALL MOUNTED LAVATORY. PROVIDE SCALD GUARDS ON SUPPLY / WASTE LINE. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
- 2. ADA COMPLIANT WALL MOUNT FLUSH VALVE TOILET. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
- 3. ADA COMPLIANT WALL MOUNTED URINAL W/ FLUSH VALVE CONTROL. CENTER IN WIDTH OF STALL. REFER TO PLUMBING DRAWINGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
- 4. STANDARD HEIGHT WALL MOUNT FLUSH VALVE TOILET. CENTER IN WIDTH OF STALL.
- 5. STANDARD HEIGHT URINAL. CENTER IN WIDTH OF PARTITIONS (OR WALL).
- 6. WALL MOUNTED LAVATORY. MATCH HEIGHT OF ADA LAVATORIES
- 7. ADA COMPLIANT HI-LO WATER FOUNTAIN.
- 8. ALIGN FINISH FACE OF WALL, BOTH SIDES.
- 9. WASHER & DRYER.
- IO. 8'-0" TALL GALVANIZE D FENCE. PROVIDE GATE PER DETAIL 4/A504.
- II. PLASTIC LAMINATE 12" WIDE COUNTER. CENTER ON WIDTH OF WALL
- 12. PASS THRU CABINET W/ DOORS ON BOTH SIDES SEE 6/A504.
- CENTER ON WIDTH OF WALL 13. MODERN FOLD PAIRED PANEL PARTITION W/ VINYL FACE, MIN 51
- STC RATING. COORDINATE ALCOVE DIMENSIONS W/ SUPPLIER. I4. PROVIDE FR BLOCKING FOR TENANT PROVIDED TV.
- 15. STRUCTURAL STEEL COLUMN.
- 16. HALF HEIGHT LOCKERS 12" x 12" w/ 4" CURB & SLOPED TOP. PROVIDE 2 ADA COMPLIANT LOCKERS IN EACH ROOM.
- 17. WALL MOUNT SHELF. REFER TO 5/A504.
- 18. STEEL STAIRS, PAINT SAFETY YELLOW. REFER TO 1/A505.
- 19. 2' x 2' MOP SINK w/ WALL MOUNT FAUCET. 20. PRECAST PLANK ON CMU WALL WITH TOPPING SLAB. TOP OF
- SLAB AT 11'-8" AFF. REFER TO STRUCTURAL DRAWINGS 21. BAR JOIST ROOF FRAMING ABOVE. COORDINATE WITH STRUCTURAL DRAWINGS
- 22. ALIGN FINISH FACE OF GYP BOARD WITH FACE OF CMU WALL.
- 23. I  $\frac{1}{2}$ " DIA 42" TALL STEEL GUARDRAIL WITH VERTICAL PICKETS AT 4" OC MAX, PAINTED SAFETY YELLOW. ANCHOR INTO PRECAST PLANK. REFER TO 2/A505
- 24. 4' TALL CMU WALL WITH BULLNOSE TOP AND OUTER EDGES. PAINT WITH EPOXY PAINT.
- 25. FLOOR SLAB TO SLOPE TO CATCH BASIN. REFER TO PLUMBING DRAWINGS FOR WATER SUPPLY AND DRAIN
- 26. PROVIDE INSULATED STEEL DOOR AT PENTHOUSE, FACING SOUTH. DOOR #200 ON SCHEDULE.





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# PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT I

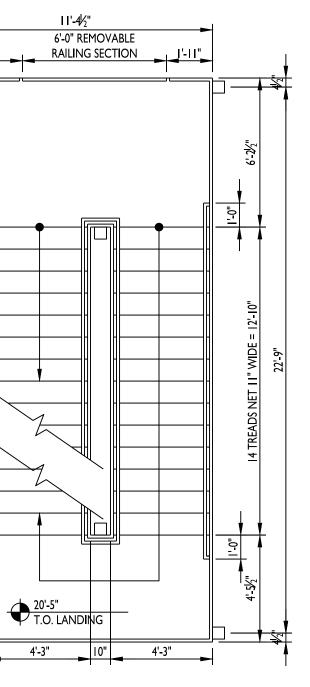
> NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

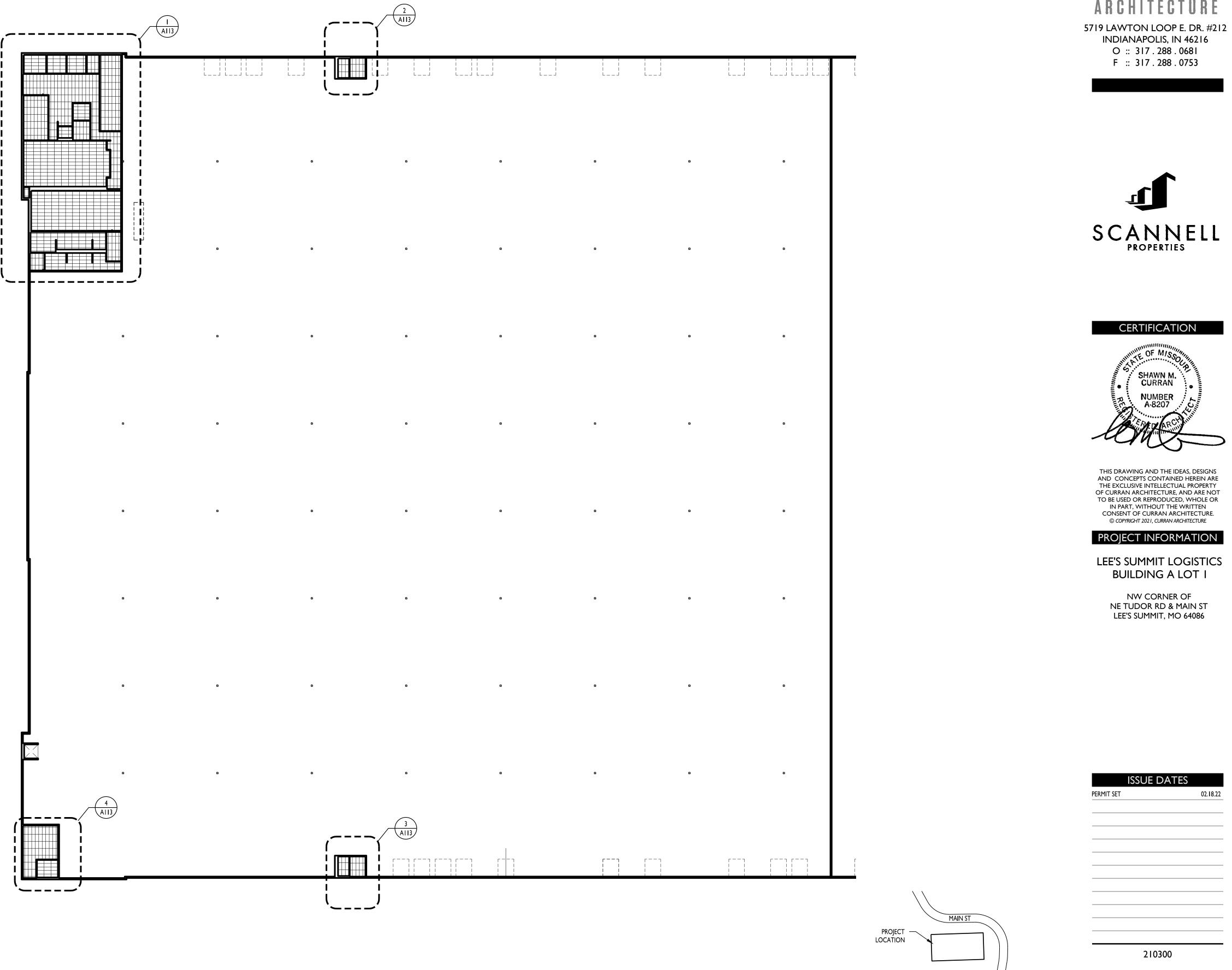
	<b>ISSUE DATES</b>	
	PERMIT SET	02.18.22
$\triangle$	PERMIT COMMENTS	10.24.22

210300

ENLARGED FLOOR PLANS







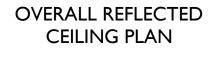
# **CEILING LEGEND** (NOT ALL MAY APPLY)



ACOUSTICAL TILE CEILING / GRID. REFER TO FINISH SCHEDULE FOR TYPE AND HEIGHT. GYPSUM BOARD BULKHEAD OR CEILING. HEIGHT AS NOTED ON SCHEDULE OR KEYNOTES.







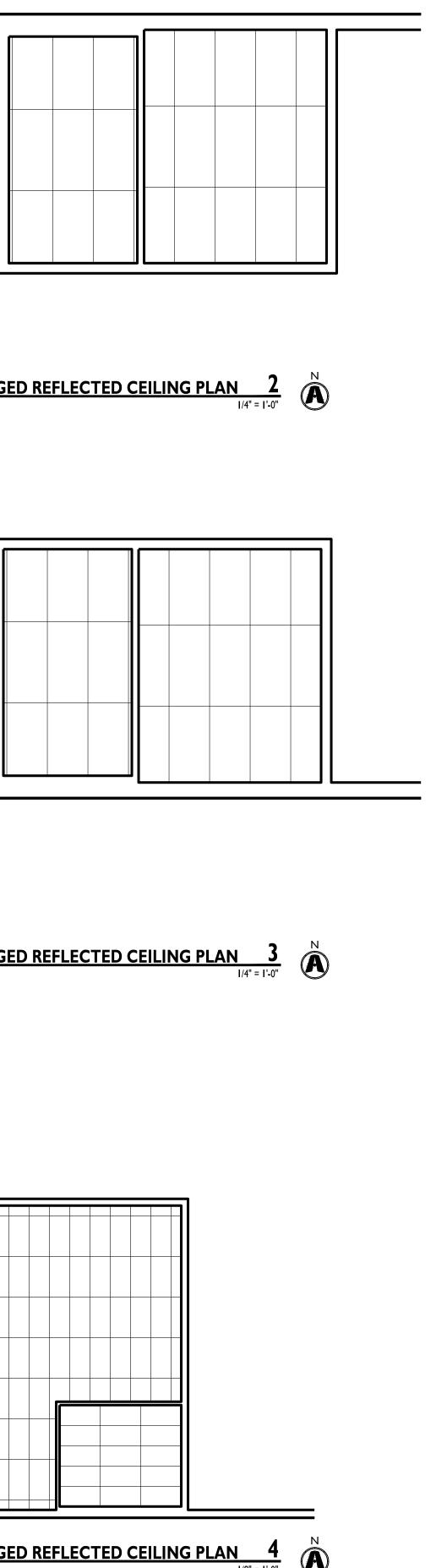
NE TUDOR RD

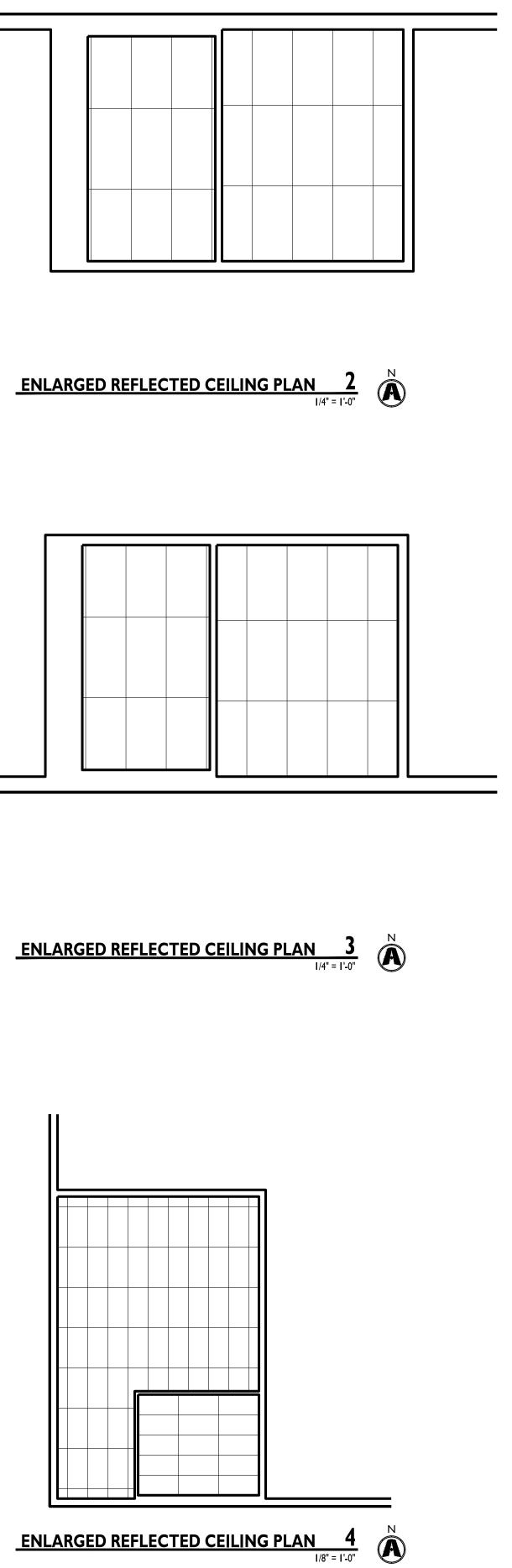
**KEY PLAN** 

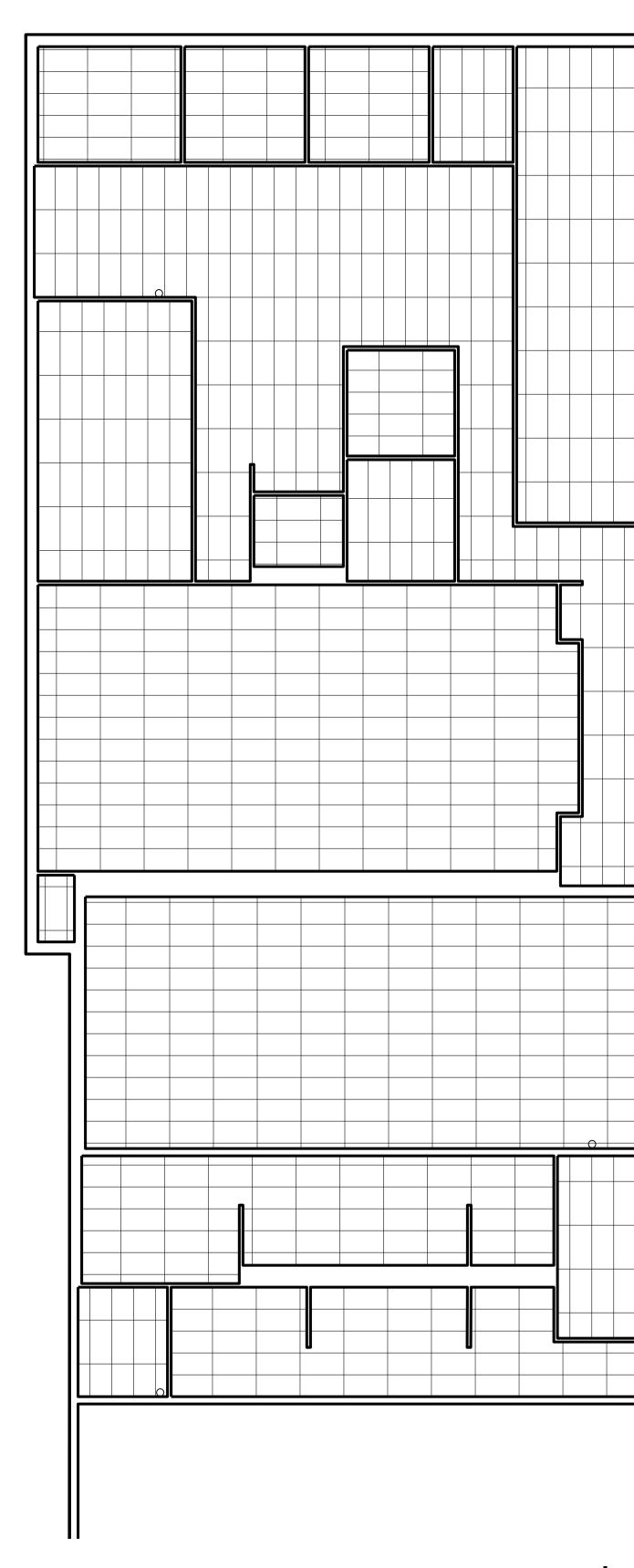
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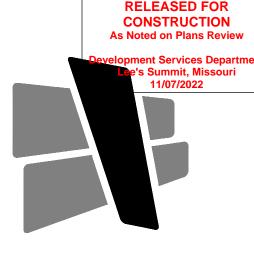


ENLARGED REFLECTED CEILING PLAN I

# **CEILING LEGEND** (NOT ALL MAY APPLY)

ACOUSTICAL TILE CEILING / GRID. REFER TO FINISH SCHEDULE FOR TYPE AND HEIGHT.

GYPSUM BOARD BULKHEAD OR CEILING. HEIGHT AS NOTED ON SCHEDULE OR KEYNOTES.



CURRAN ARCHITECTURE 5719 LAWTON LOOP E. DR. #212 INDIANAPOLIS, IN 46216 O :: 317 . 288 . 0681 F :: 317 . 288 . 0753





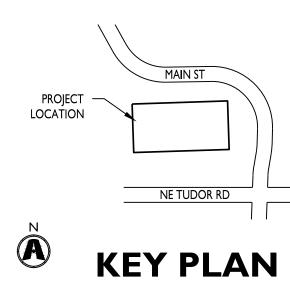
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# PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT I

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

ISSUE DATES PERMIT SET 02.18.22



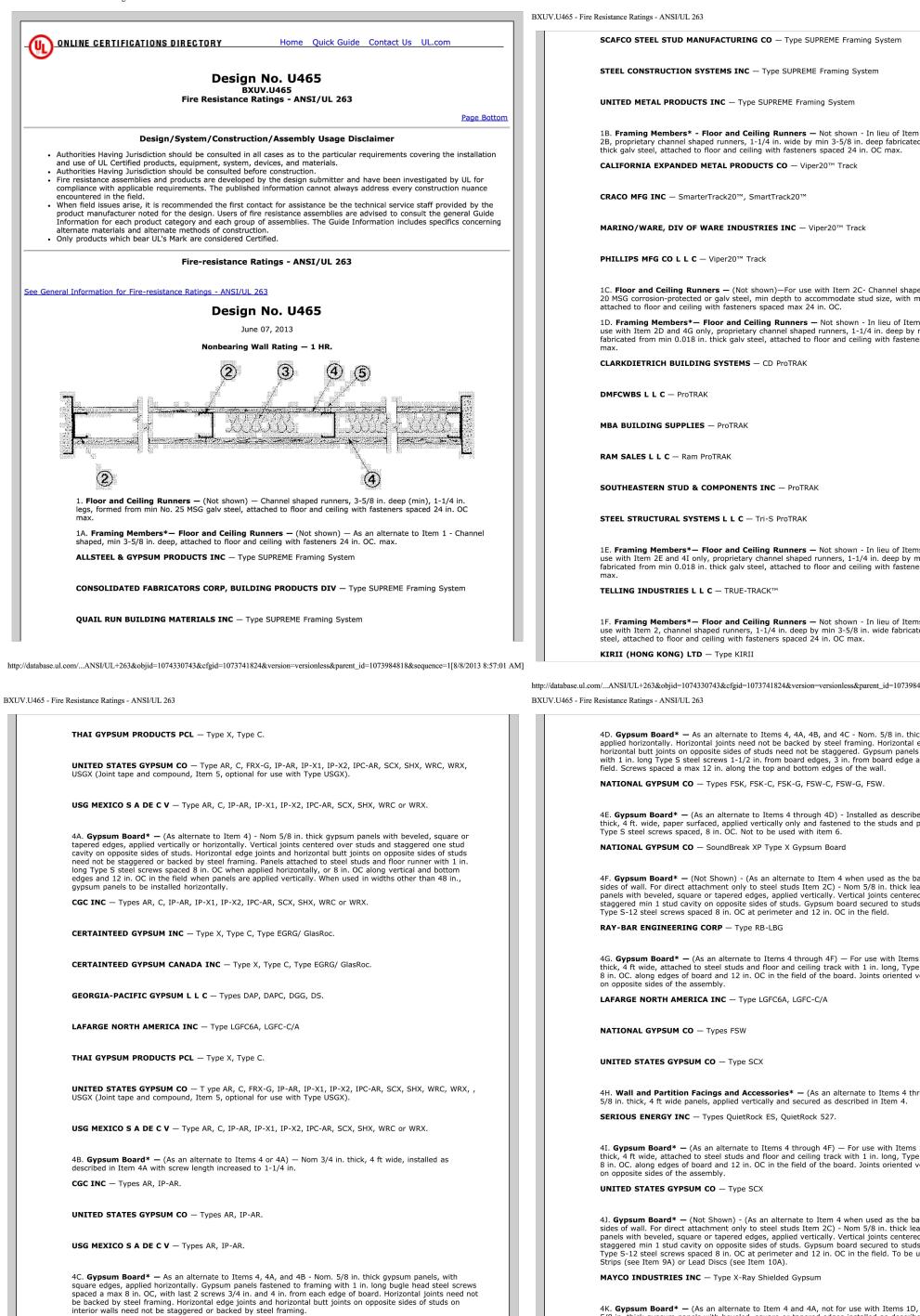
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ENLARGED REFLECTED **CEILING PLANS** 







BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263
ONLINE CERTIFICATIONS DIRECTORY Home Quick Guide Contact Us UL.com	SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System		floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.	insulation material. The fiber is applied with water to interior surfaces in accordance with the application
	STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System	1G. Framing Members*— Floor and Ceiling Runners — Not shown - In lieu of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max.	2D. <b>Framing Members* – Steel Studs –</b> As an alternate to Items 2 through 2C- For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.	instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.           NU-WOOL CO INC – Cellulose Insulation
Design No. U465 BXUV.U465		STUDCO BUILDING SYSTEMS - CROCSTUD Track	CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD	
Fire Resistance Ratings - ANSI/UL 263 Page Bottom	UNITED METAL PRODUCTS INC — Type SUPREME Framing System	1H. Floor and Ceiling Runners — (Not shown) — Channel shaped, fabricated from min 0.02 in. galv steel,	DMFCWBS L L C - ProSTUD	3C. <b>Fiber, Sprayed*</b> — As an alternate to Batts and Blankets (Item 3) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft <sup>3</sup> .
Design/System/Construction/Assembly Usage Disclaimer	1B. Framing Members* - Floor and Ceiling Runners — Not shown - In lieu of Item 1 — For use with Item	min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel,		INTERNATIONAL CELLULOSE CORP — Celbar-RL
Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation	2B, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.	in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100.	MBA BUILDING SUPPLIES - ProSTUD	
<ul> <li>and use of UL Certified products, equipment, system, devices, and materials.</li> <li>Authorities Having Jurisdiction should be consulted before construction.</li> <li>Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for</li> </ul>	CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20 <sup>TM</sup> Track	MARINO/WARE, DIV OF WARE INDUSIRIES INC - Viper20" Track VI100.	RAM SALES L L C — Ram ProSTUD	3D. <b>Batts and Blankets*</b> — For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.
compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field. When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the	<b>CRACO MFG INC</b> — SmarterTrack20 <sup>™</sup> , SmartTrack20 <sup>™</sup>	11. Framing Members* - Floor and Ceiling Runners — Not shown - In lieu of Item 1 — For use with Item 2H, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.	SOUTHEASTERN STUD & COMPONENTS INC - ProSTUD	See <b>Batts and Blankets</b> (BZJZ) category for names of manufacturers. 4. <b>Gypsum Board*</b> — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints
<ul> <li>product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide</li> <li>Information for each product category and each group of assemblies. The Guide Information includes specifics concerning</li> <li>alternate materials and alternate methods of construction.</li> <li>Only products which bear UL's Mark are considered Certified.</li> </ul>	MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track	TELLING INDUSTRIES L L C — Viper20™ Track	STEEL STRUCTURAL SYSTEMS L L C - Tri-S ProSTUD	oriented vertically and staggered on opposite sides of the assembly. When attached to item 6 (resilient channels) or 6A or 6C (furring channels), gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.
	PHILLIPS MFG CO L L C — Viper20™ Track	2. Steel Studs — Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in.		ACADIA DRYWALL SUPPLIES LTD – Type X
Fire-resistance Ratings - ANSI/UL 263		OC max. Studs to be cut 3/4 in. less than assembly height. 2A. Framing Members*— Steel Studs — As an alternate to Item 2 - Channel shaped studs, min 3-5/8 in.	2E. Framing Members*— Steel Studs — As an alternate to Items 2 through 2D- For use with Item 1E and 41 only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max	
See General Information for Fire-resistance Ratings - ANSI/UL 263	1C. Floor and Ceiling Runners — (Not shown)—For use with Item 2C- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs,	deep, 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	of 24 in. OC. Studs to be cut 1/2 in. less than assembly height. <b>TELLING INDUSTRIES L L C</b> — TRUE-STUD <sup>TM</sup>	AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass
Design No. U465	attached to floor and ceiling with fasteners spaced max 24 in. OC. 1D. <b>Framing Members*— Floor and Ceiling Runners —</b> Not shown - In lieu of Items 1 through 1C — For			<b>BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO</b> — Type DBX-1.
June 07, 2013	use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC	CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System	2F. Framing Members*- Steel Studs - As an alternate to Items 2 through 2E- For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs	
Nonbearing Wall Rating — 1 HR.	max. CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK	QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System	to be cut 1/2 in. less than assembly height. <b>KIRII (HONG KONG) LTD</b> — Type KIRII	CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
				CERTAINTEED GYPSUM INC — Types 1, EGRG, GlasRoc, Type X, Type C, SilentFX, 5/8" Easi-Lite Type X.
	DMFCWBS L L C - ProTRAK	SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System	2G. Framing Members* - Steel Studs — Not shown - In lieu of Item 2 through 2F - For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly beint	CERTAINTEED GYPSUM CANADA INC — Type C, Type X, Type Abuse-Resistant, 5/8" Easi-Lite Type X.
	MBA BUILDING SUPPLIES — ProTRAK	STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System	STUDCO BUILDING SYSTEMS - CROCSTUD	GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS.
	RAM SALES L L C — Ram ProTRAK	UNITED METAL PRODUCTS INC — Type SUPREME Framing System	2H. Framing Members* - Steel Studs — Not shown - In lieu of Item 2 — For use with Item 1I, proprietary	
2	SOUTHEASTERN STUD & COMPONENTS INC - ProTRAK	2B. Framing Members* - Steel Studs — Not shown - In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in, wide by min 3-5/8 in, deep fabricated from min 0.020 in, thick galv steel.	channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height. TELLING INDUSTRIES L L C — Viper20 <sup>™</sup>	LAFARGE NORTH AMERICA INC — Types LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC-C, LGFC-C/A, LGFC-WD, LGLLX.
<ol> <li>Floor and Ceiling Runners — (Not shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.</li> </ol>	STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProTRAK	Studs cut 3/4 in. less in length than assembly height.		NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSL.
114X. 1A. Framing Members*— Floor and Ceiling Runners — (Not shown) — As an alternate to Item 1 - Channel	SIEEL SIRUCIURAL SYSTEMS L L C - TH-5 PROTRAK	CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™	3. Batts and Blankets* — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.	
shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max. <b>ALLSTEEL &amp; GYPSUM PRODUCTS INC</b> — Type SUPREME Framing System	1E. Framing Members*— Floor and Ceiling Runners — Not shown - In lieu of Items 1 through 1D — For use with Item 2E and 41 only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide	CRACO MFG INC — SmarterStud20™, SmartStud20™	See Batts and Blankets (BZJZ) category for names of Classified companies.	PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS.
	fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.	MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™	3A. <b>Fiber, Sprayed*</b> — As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft <sup>3</sup> . Alternate	PANEL REY S A — Types GREX, PRX, RHX, MDX, ETX.
CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System	TELLING INDUSTRIES L L C — TRUE-TRACK™	PHILLIPS MFG CO L L C — Viper20™	Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft <sup>3</sup> , in accordance with the application instructions supplied with the product. <b>U S GREENFIBER L L C</b> — INS735 & INS745 for use with wet or dry application. INS765LD and INS770LD are	SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1
QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System	1F. Framing Members*— Floor and Ceiling Runners — Not shown - In lieu of Items 1 through 1E — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.	2C. <b>Steel Studs</b> – (As an alternate to Item 2, For use with Item 4E) Channel shaped, fabricated from min 20	to be used for dry application only.	<b>TEMPLE-INLAND</b> — Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board.
http://database.ul.com/ANSI/UL+263&objid=1074330743&cfgid=1073741824&version=versionless&parent_id=1073984818&sequence=1[8/8/2013 8:57:01	KIRII (HONG KONG) LTD – Type KIRII	MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into	3B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) and Item 3A - Spray applied cellulose	
	$nttp://database 11.com/ANSI/UL+2b3x/oblid=10/4330/43x/ctgid=10/3/41824x/version=versionlessx/parent_id=10/3984818x/seduence=118/8/2013825/ULA$	$M = http://database.ul.com/ANSI/UL+263&obud=10/4330/43&ctgid=10/3/41824&version=versionless&parent_id=10/3984818&sequence=118/8/2013 8:57:01 A$	AM] http://database.ul.com/_ANSI/UL+263&objid=1074330743&cfgid=1073741824&version=versionless&narent_id=1073984818&sequence=1[8/8/2013-8:57:01	$AMI = http://database.iii.com/ANSI/UL+2.53&obid=10/4550/45&ctgid=10/5/41824&version=versionless&parent_id=10/5984818&sequence=118/8/2015 8:57201 AMI$
BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263	nttp://database.ul.com/ANSI/UL+263&05/10=10/4530/45&cfgid=10/5/41824&version=versionless&parent_id=10/5984818&sequence=1[8/8/2013 8:5/:01 Af BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263	A] http://database.ul.com/ANSI/UL+263&objid=10/4330/43&cfgid=10/3/41824&version=versionless&parent_id=10/3984818&sequence=1[8/8/2013 8:5/:01 A BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263	<ul> <li>AM] http://database.ul.com/ANSI/UL+263&amp;objid=1074330743&amp;cfgid=1073741824&amp;version=versionless&amp;parent_id=1073984818&amp;sequence=1[8/8/2013 8:57:01</li> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> </ul>	AMJ nttp://database.ul.com/ANSI/UL+263&00JId=10/436/1436Ctgtd=10/3/41824&version=versionless&parent_td=10/3984818&sequence=1[8/8/2013 8:57:01 AMJ BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263
	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263 fitted into clips.
BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263 THAI GYPSUM PRODUCTS PCL — Type X, Type C.	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263 4D. <b>Gypsum Board*</b> — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and			BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263
THAI GYPSUM PRODUCTS PCL — Type X, Type C. UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX,	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263 4D. <b>Gypsum Board*</b> — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263 USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR 5. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263 fitted into clips. <b>STUDCO BUILDING SYSTEMS</b> — RESILMOUNT Sound Isolation Clips - Type A237R 7. Wall and Partition Facings and Accessories* — (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide
THAI GYPSUM PRODUCTS PCL — Type X, Type C.	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263 4D. <b>Gypsum Board*</b> — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263 UNITED STATES GYPSUM CO - Type ULX USG MEXICO S A DE C V - Type ULX	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263 fitted into clips. <b>STUDCO BUILDING SYSTEMS</b> — RESILMOUNT Sound Isolation Clips - Type A237R 7. <b>Wall and Partition Facings and Accessories*</b> — (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel
THAI GYPSUM PRODUCTS PCL — Type X, Type C. UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX,	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         UNITED STATES GYPSUM CO — Type ULX         USG MEXICO S A DE C V — Type ULX         4L. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR         S. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         fitted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         7. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL
THAI GYPSUM PRODUCTS PCL — Type X, Type C.         UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).         USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.         4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long,	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         UNITED STATES GYPSUM CO - Type ULX         USG MEXICO S A DE C V - Type ULX         4L. Gypsum Board* - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR         5. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         fitted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         7. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
<ul> <li>THAI GYPSUM PRODUCTS PCL — Type X, Type C.</li> <li>UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* — (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.         4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in.	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         UNITED STATES GYPSUM CO — Type ULX         USG MEXICO S A DE C V — Type ULX         4L. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         USG MEXICO S A DE C V - Types C, IP-X2, IPC-AR         5. Joint Tape and Compound - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.         6. Resilient Channel - (Optional-Not Shown) - 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F or 4J.         6A. Steel Framing Members (Not Shown)* - As an alternate to Item 6, furring channels and resilient	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         fitted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         7. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL
<ul> <li>THAI GYPSUM PRODUCTS PCL — Type X, Type C.</li> <li>UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* — (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.         4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in. OC. Not to be used with item 6.         NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         UNITED STATES GYPSUM CO — Type ULX         USG MEXICO S A DE C V — Type ULX         4L. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         USG MEXICO S A DE C V - Types C, IP-X2, IPC-AR         5. Joint Tape and Compound - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.         6. Resilient Channel - (Optional-Not Shown) - 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F or 4J.         6A. Steel Framing Members (Not Shown)* - As an alternate to Item 6, furring channels and resilient sound isolation clip as described below:         a. Furring Channels - Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         fitted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         7. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.         SERIOUS ENERGY INC - Type QuietRock QR-510.         8. Mineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs
<ul> <li>THAI GYPSUM PRODUCTS PCL — Type X, Type C.</li> <li>UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* — (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in.</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.         4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in. OC. Not to be used with item 6.         NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board         4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         UNITED STATES GYPSUM CO — Type ULX         USG MEXICO S A DE C V — Type ULX         4L. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         USG MEXICO S A DE C V - Types C, IP-X2, IPC-AR         5. Joint Tape and Compound - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.         6. Resilient Channel - (Optional-Not Shown) - 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F or 4J.         6A. Steel Framing Members (Not Shown)* - As an alternate to Item 6, furring channels and resilient sound isolation clip as described below:         a. Furring Channels - Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         fitted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         7. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.         SERIOUS ENERGY INC - Type QuietRock QR-510.         8. Mineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the
<ul> <li>THAI GYPSUM PRODUCTS PCL — Type X, Type C.</li> <li>UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* — (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal butt joints on opposite sides of studs in oc b staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally. When used in widths other than 48 in.,</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.         4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in. OC. Not to be used with item 6.         NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board         4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         UNITED STATES GYPSUM CO — Type ULX         USG MEXICO S A DE C V — Type ULX         4L. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9%	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>USG MEXICO S A DE C V - Types C, IP-X2, IPC-AR</li> <li>5. Joint Tape and Compound - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.</li> <li>6. Resilient Channel - (Optional-Not Shown) - 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F or 4J.</li> <li>6. Steel Framing Members (Not Shown)* - As an alternate to Item 6, furring channels and resilient sound isolation clip as described below:</li> <li>a. Furring Channels - Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as a vith double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured to gether with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap,</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         fitted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         7. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.         SERIOUS ENERGY INC - Type QuietRock QR-510.         8. Mineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board dayer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.         9. Lead Batten Strips - (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in. wide, max 10
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal butt joints on opposite sides of studs in oC when applied horizontally. or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.         4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in. OC. Not to be used with item 6.         NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board         4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels sides of studs. Gypsum board secured to studs with 1-1/4 in. long	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         UNITED STATES GYPSUM CO — Type ULX         USG MEXICO S A DE C V — Type ULX         4L. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR</li> <li>5. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.</li> <li>6. Resilient Channel — (Optional-Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F or 4J.</li> <li>6. Steel Framing Members (Not Shown)* — As an alternate to Item 6, furring channels and resilient sound isolation clip as described below:</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         fitted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         7. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.         SERIOUS ENERGY INC - Type QuietRock QR-510.         8. Mineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.         9. Lead Batten Strips - (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal but joints on opposite sides of studs not panels and horizontal but joints on opposite sides of studs used in the stagered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>CERTAINTEED GYPSUM INC – Type X, Type C, Type EGRG/ GlasRoc.</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontal joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.         4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in. OC. Not to be used with item 6.         NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board         4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         UNITED STATES GYPSUM CO - Type ULX         USG MEXICO S A DE C V - Type ULX         4L. Gypsum Board* - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studies Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhese weads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".         RADIATION PROTECTION PRODUCTS INC - Type RPP - Lead Lined Drywall         4M. Gypsum Board* - (For use with Item 8) - 5/8 in, thick, 4 ft wide, applied vertically over Mineral and fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>USG MEXICO S A DE C V - Types C, IP-X2, IPC-AR</li> <li>5. Joint Tape and Compound - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.</li> <li>6. Resilient Channel - (Optional-Not Shown) - 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with item 4F or 41.</li> <li>6. Steel Framing Members (Not Shown)* - As an alternate to Item 6, furring channels and resilient sound isolation clip as described below:</li> <li>a. Furring Channels - Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels may be overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As a natternate, ends of adjoining screws, may be overlapped 6 in. and secured together with tooles trand of No. 6 framing screws, may to verlapped 6 in. and secured together with one screw on each flange of the channel.</li> <li>b. Framing Members* - Used to attach furring channels (Item a) to studs (Item 2). Steel screw through the center grommet. Furring channels are for to the ourstap.</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         fitted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         7. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.         SERIOUS ENERGY INC - Type QuietRock QR-510.         8. Mineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC adog all intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.         9. Lead Batten Strips - (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally. When used in widths other than 48 in., gypsum panels to be installed horizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.         4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type 5 steel screws spaced, 8 in. OC. Not to be used with item 6.         NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board         4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board 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.         RAY-BAR ENGINEERING CORP — Type RB-LBG       4G. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and celling track with 1 in. long, Type 5 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field of the board. Joints oriented vertic	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         UNITED STATES GYPSUM CO - Type ULX         USG MEXICO S A DE C V - Type ULX         4L, Gypsum Board* - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. O C in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".         RADIATION PROTECTION PRODUCTS INC - Type RPP - Lead Lined Drywall         4M. Gypsum Board* - (For use with Item 8) - 5/8 in. thick, 4 ft wide, applied vertical joint and fiber board (Item 9) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber board of the Mineral and Fiber Board (Item 9) with yee S screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 9) with yee S screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in pinteremediate field of the Mine	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR</li> <li>5. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.</li> <li>6. Resilient Channel — (Optional-Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with them 4F or 4J.</li> <li>6. Steel Framing Members (Not Shown)* — As an alternate to Item 6, furring channels and resilient sound isolation clip as described below:</li> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 4. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.</li> <li>b. Framing Members* — Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC, and secured to studs with 1-5/8 in. wafer or hex head Type 5 steel screw through the center grommet. Furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         fitted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         7. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board steer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.         SERIOUS ENERGY INC - Type QuietRock QR-510.         8. Mineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of wall. Non 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and celling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board diver (time 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.         9. Lead Batten Strips - (Not Shown, For Use With Item #E) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the Interior face of studs and attached from the 20 QU-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 45) and optional at remaining stud locations. Required behind vertical joints.         9. Le
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal but joints on opposite sides of studs not panels and horizontal but joints on opposite sides of studs used in the stagered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>CERTAINTEED GYPSUM INC – Type X, Type C, Type EGRG/ GlasRoc.</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.         4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type 5 steel screws spaced, 8 in. OC. Not to be used with item 6.         NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board         4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall, For direct attachment only to steel studs. Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with 1 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.         RAY-BAR ENGINEERING CORP — Type RB-LBG         4G. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type 5 steel screws spaced	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         UNITED STATES GYPSUM CO - Type ULX         USG MEXICO S A DE C V - Type ULX         4 Gypsum Board* - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips required to the stud with construction adhesive and two 1 in. long Type 5-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".         RADIATION PROTECTION PRODUCTS INC - Type RPP - Lead Lined Drywall         4M. Gypsum Board* - (For use with Item 8) - 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Minerai and Fiber Board (Item 8). Secured to outernost studs and fiber board with paper tape and joint	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR</li> <li>S. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.</li> <li>6. Resilient Channel — (Optional-Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F or 41.</li> <li>A. Steel Framing Members (Not Shown)* — As an alternate to Item 6, furring channels and resilient sound isolation clip as described below: <ul> <li>a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 5. Ends of adjoining channels are overlapped 6 in. and lied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and lied together with ove self-tapping No. 6 framing screws, man 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.</li> <li>b. Framing Members* — Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC, and secured to studs with 1-5/8 in. wafer or hex head Type 5 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 i. clip for use with 2-9/16 in. wide furring channels are friction fitted into clips.</li> </ul></li></ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         fitted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         7. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required U.Classified gypsum board layer(s) is/are to be installed as indicated as to fastner type and spacing, except that the required fastner length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.         SERIOUS ENERGY INC - Type QuietRock QR-510.         8. Mineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type 5 steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board dlayer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.         9. Lead Batten Strips - (Not Shown, For Use With Item 4E) - Lead batten strips, and attached from the extenior face of the stud with two 1 in. long Type 5-12 pan head steel screws, one at the top of the strip and one at the both of the strip. Lead batten strips to have a purity of 9.9% meeting the Federal specification QQ-1-201f, Grade °C'. Lead batten strips required behind vertical joints.         9. A Lead Batten
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal but joints on opposite sides of studs. Horizontal edge joints and horizontal but joints on opposite sides of studs. Horizontal edge joints and horizontal and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>CERTAINTEED GYPSUM INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>CERTAINTEED GYPSUM CANADA INC – Type X, Type C, Type EGRG/ GlasRoc.</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type S steel screws 1.7/2 in. from board edges, 3in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.         4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in. OC. Not to be used with item 6.         NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board         4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 1 mo C at perimeter and 12 in. OC in the field.         R4Y-BAR ENGINEERING CORP — Type RB-LBG       4G. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs affoor and ceiling track with 1 in. long, Type S steel screws spaced in . OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vert	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         UNITED STATES GYPSUM CO - Type ULX         USG MEXICO S A DE C V - Type ULX         4L, Gypsum Board* - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. O C in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".         RADIATION PROTECTION PRODUCTS INC - Type RPP - Lead Lined Drywall         4M. Gypsum Board* - (For use with Item 8) - 5/8 in. thick, 4 ft wide, applied vertical joint and fiber board (Item 9) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber board of the Mineral and Fiber Board (Item 9) with yee S screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 9) with yee S screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in pinteremediate field of the Mine	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>USG MEXICO S A DE C V - Types C, IP-X2, IPC-AR</li> <li>S. Joint Tape and Compound - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum venceer plaster may be applied to the entire surface of Classified vencer baseboard. Joints reinforced. Paper tape and Joint compound may be omitted when gypsum boards are supplied with square edges.</li> <li>Resilient Channel - (Optional-Not Shown) - 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, finage portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F or 43.</li> <li>A. Steel Framing Members (Not Shown)* - As an alternate to Item 6, furring channels and resilient sound isolation clip as described below:         <ul> <li>a. Furring Channels - Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described below:                 <ul></ul></li></ul></li></ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         If ted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         1. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturers' recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.         SERIOUS ENERGY INC - Type QuietRock QR-510.         8. Mineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and celling runners with 1-5/8 in. long Type 5 steel screws, Spaced 12 in. OC and 24 in. Oc 2 along all intermediate framing. The required UL Classified gypsum board layer (tem 4M) is to be installed over the Mineral and Fiber Boards. Statts and Blankets, Item 3D, and Adhesive, Item 11, are required.         9. Lead Batten Strips - (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the estrip and ore at the bottom of the strip. Lead batten strips required behind vertical joints.         9. Lead Batten Strips - (Not Shown, for use with Item 4E) - Lead batten strips, run wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from th
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints cantered over studs and staggered one studs cavity on opposite sides of studs. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>CERTAINTEED GYPSUM INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>CERTAINTEED GYPSUM CANADA INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>GEORGIA-PACIFIC GYPSUM L L C – Types DAP, DAPC, DGG, DS.</li> </ul>	<ul> <li>BXUV.U463 - Fire Resistance Ratings - ANSI/UL 263</li> <li>4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints eneed not be backed by steel framing. Horizontal edge joints and horizontal it joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with 1 in. long Type 5 steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.</li> <li>NATIONAL GYPSUM CO - Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.</li> <li>4E. Gypsum Board* - (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in. OC. Not to be used with item 6.</li> <li>NATIONAL GYPSUM CO - SoundBreak XP Type X Gypsum Board</li> <li>4F. Gypsum Board* - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2() - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, spalied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board 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.</li> <li>RAY-BAR ENGINEERING CORP - Type RB-LBG</li> <li>4G. Gypsum Board* - (As an alternate to Items 4 through 4F) - For use with Items 1D and 2D only, 5/8 in. thick, 4ft wide, attached to steel studs and floor and celling track with 1 in. long, Type S steel screws spaced 8 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly.</li> <li>LAFARGE NORTH AMERICA INC - Type LGFC6A, LGFC-C/A</li> </ul>	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>UNITED STATES GYPSUM CO – Type ULX</li> <li>USG MEXICO S A DE C V – Type ULX</li> <li>AL. Gypsum Board* – (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. Iong Type 5-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs wall backed screws heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-1-201f. Grade "C".</li> <li>RADIATION PROTECTION PRODUCTS INC – Type RPP - Lead Lined Drywall</li> <li>4M. Gypsum Board* – (For use with Item 8) - 5/8 in. thick, 4 ft wide, applied vertically over Mineral and fiber Board (Item 8) with vertical joints located 8 in. OC calong edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Scured 8 in. OC. Gypsum Board scure to user with paper tape and joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Scure do user with a scure to user with apper tape and joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Cappe Scure stude avertice a long edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Scure to outermost studs and fibor and ceiling intermediate field of the Mineral and Fiber Board (Item 8). Scure to outermost studs and fibor and ceiling intermediate field of the Mineral and Fiber Board (Item 8). Sc</li></ul>	<ul> <li>DSG MEXICO S A DE C V - Types C, IP-X2, IPC-AR</li> <li>S. Joint Tape and Compound - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 21 n. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/31 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.</li> <li>Resilient Channel - Optional-Not Shown) - 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F or 4J.</li> <li>A. Steel Framing Members (Not Shown)* - As an alternate to Item 6, furring channels and resilient our big by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described below.</li> <li>B. Furring Channels - Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 5/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as alternate, ends of adjoining channels may be overlapped 6 in. and secured together with toosube strand of No. 18 SWG galv steel with near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with toosuber 4 dains of No. 18 SWG galv steel with 1-5/8 in. wafer or hex head Type 5 steel screw through the center grommet. Furring channels are fortice life. The outpet steel screw on each flange of the channel.</li> <li>D. Framing Members* - Used to attach furring channels. RSIC-1 (2.75) clip for use with 2-3/32 in. wide furring channels.</li> <li>D. CL INTERNATIONAL INC - Types RSIC-1, RSIC-1 (2.75).</li> <li>B. Farming Members* - Optional - Not Shown - Used as an alternate method to attach resilient channels</li> <li>B. Farming Members* - Optional - Not Shown - Used as an alternate method to tattach resilient channels<td>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         Itted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         -1. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide parele, for optional use as an additional layer on one or both sides of the assembly. Paneles attached in scordance with manufacturer's recommendations. When the QR-S1D panel is installed between the skeel framing and the UL Classified growm board, but when the QR-S1D panel is installed between the skeel result of UL Classified Gypsum board by Created by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) by are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL classified Gypsum Board.         SERIOUS ENERGY INC - Type QuietRock QR-510.         8. Mineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and celling runners with 1-5/8 in. long Type 5 steel screws, spaced 12 in. OC and 24 in OC along all intermediate framing. The required UL Classified gypsum board layer (Itm 4/4) is to be installed over the Mineral and Fiber Board* - (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in, wide, max 10 th long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the extenor face of the stud with two 1 in. long Type 5-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip and one of the strips and hold on this face and beated strips. T</td></li></ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         Itted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         -1. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide parele, for optional use as an additional layer on one or both sides of the assembly. Paneles attached in scordance with manufacturer's recommendations. When the QR-S1D panel is installed between the skeel framing and the UL Classified growm board, but when the QR-S1D panel is installed between the skeel result of UL Classified Gypsum board by Created by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) by are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL classified Gypsum Board.         SERIOUS ENERGY INC - Type QuietRock QR-510.         8. Mineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and celling runners with 1-5/8 in. long Type 5 steel screws, spaced 12 in. OC and 24 in OC along all intermediate framing. The required UL Classified gypsum board layer (Itm 4/4) is to be installed over the Mineral and Fiber Board* - (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in, wide, max 10 th long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the extenor face of the stud with two 1 in. long Type 5-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip and one of the strips and hold on this face and beated strips. T
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal but joints on opposite sides of studs. Horizontal edge joints and horizontal but joints on opposite sides of studs by steel framing. Panels attached to steel studs and foror numer with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally. When used in widths other than 48 in. gypsum panels to be installed horizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>CERTAINTEED GYPSUM INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>GEORGIA-PACIFIC GYPSUM L L C – Types DAP, DAPC, DGG, DS.</li> <li>LAFARGE NORTH AMERICA INC – Type X, Type C.</li> <li>Type C, Type EGRG/ GlasRoc.</li> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> </ul>	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Horizontal joints on opposite sides of studs need not be staggered. Gypsum panels fastenet to framing with 1 in. long Type S steel screws 1-1/2 in. from board edges, 3 in. from board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.</li> <li>NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.</li> <li>4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 f. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced 8 in. OC. Not to be used with item 6.</li> <li>NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board</li> <li>4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both staggered min 1 stud cavity on opposite sides of studs. Gypsum board screwed by study in the field.</li> <li>RAY-BAR ENGINEERING CORP — Type RB-LBG</li> <li>4G. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long. Type S -12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.</li> <li>RAY-BAR ENGINEERING CORP — Type RB-LBG</li> <li>4G. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long. Type S steel screws spaced 8 in. 0C in the field of the board. Joints oriented vertically and staggered in opposite sides of that assembly.</li> <li>LAFARGE NORTH AMERICA INC — Type LGFC6A, LGFC-C/A</li> <li>NATIONAL GYPSUM CO — Types FSW</li> </ul>	BUV.U465 - Fire Resistance Ratings - ANSI/UL 263           UNITED STATES GYPSUM CO - Type ULX           USG MEXICO S A DE C V - Type ULX           4. Gypsum Board* - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels gauge or tappered edges, applied vertically. Vertical joints contered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spum panel steel screws spaced 8 in. OC a the primeter and 12 in. OC in the field. Lead batten strips required behind vertical joints or lead backed gypsum wallboard and optional at remaining stud locations. Lead batten to the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.0685 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification Qe-L-201f, Grade "C".           RADIATION PROTECTION PRODUCTS INC - Type RPP - Lead Lined Drywall           4M. Sypsum Board* - (For use with Item 8) - 5/8 in. thick, 4 ft wide, applied vertically over Mineral and fiber Board (Item 8) with vertical joints located a in. OC Gipsus Board south 5.1.1 (20 in Type G Screws spaced 8 in. OC Gauge deges of each vertical joints and 12 in. OD in intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling intermediate field of the Mineral and Fiber Board (Item 8)	<ul> <li>DSUV.145 - Fire Resistance Ratings - ANSULL 263</li> <li>USG MEXICO S A DE C V - Types C, IP-X2, IPC-RR</li> <li>Soint Tape and Compound - Vinyl, dry or premixed joint compound, applied in two coats to joints and normania 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer supplied with square edges.</li> <li>Seiner Channel - (Optional-Not Shown) - 25 MSG galv steel resilient channels spaced vertically max fain OC, finage portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws.</li> <li>Sea Errannig Members (Not Shown) - As an alternate to Item 6, furring channels and resilient is also in los a described below.</li> <li>Searing Channel - Optional-Not Shown - As an alternate to Item 6, furring channels and resilient is spaced vertically max fain Oc, finage portion attached be achn intersecting stud with 1/2 in. long type S-12 pan head steel screws.</li> <li>Searing Channels - Formed of No. 25 MSG galv steel -2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to getter with double strand of No. 18 SWG galv steel wire near each end of overlap. As an atternate, ends of adjoining channels are overlapped 6 in. and Ited together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an atternate, ends of adjoining channels are overlapped 6 in. and tegt of the screws, uno screw to use ach finage of the channel.</li> <li>Framing Members<sup>4</sup> - Optional -Not Shown - Used to attach furring channels. RSIC-1 (2.75) clip for use with 2-9/16 in. or 2-23/32 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-3/32 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-3/32 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-3/32 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-3/32 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-3/32 in. wide furring channels. RSIC-1 (2.75) clip for use</li></ul>	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>Inted into clips.</li> <li>STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R</li> <li>4. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide parels, for optional uses as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel installed as indicated as to fastener type and spacing, except that the required LC Classified oppsum board layer(s) is fare to be installed as indicated as to fastener type and spacing, except that the required layer(s) of UL classified Gypsum Board.</li> <li>SERIOUS ENERGY INC - Type QuietRock QR-510.</li> <li>8. Mineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and celling runners with 1-5/8 in. Iong Type S 542 pan head steel screws, spaced 12 in. O Can ad 24 in. O Calong all intermediate framing. The required UL classified gypsum board layer(11, are required.</li> <li>9. Lead Batten Strips - (Not Shown, For Use With Item 45) - Lead batten strips, min 1-1/2 in, wide, max 10 ft herwith a max thickness of 0.140 in. Strips placed on the interior face of stas and attached to the study of the strip of the strip of the strips to have a purity of 99.9% meeting the Federal specification QQ-1-201f, Grade 'C'. Lead batten strips placed on the face of studs and attached to the stud with two min. 1. Inog min. Type S-3 pan head steel screws, one at the bottom of the strip, or the face of studs and tatched to the stud with two min. 1. Inog min. Type S-3 pan head steel screws, one at the bottom of the strip or uptive of 99.9% meeting the Federal specification QQ-1-201f, Grade 'C'. Lead batten strips required behind vertical joints.</li> <li>9</li></ul>
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud ravity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels tatched to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally. When used in widths other than 48 in., gypsum panels to be installed horizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>CERTAINTEED GYPSUM INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>CERTAINTEED GYPSUM CANADA INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>GEORGIA-PACIFIC GYPSUM L L C – Types DAP, DAPC, DGG, DS.</li> <li>LAFARGE NORTH AMERICA INC – Type LGFC6A, LGFC-C/A</li> </ul>	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels and horizontal butt joints one on popolet sides of studs need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Gypsum panels fastement to fite the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.</li> <li>NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-C, FSW-C, FSW-C, FSW-G, FSW.</li> <li>4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type 5 steel screws spaced. 8 in . OC. Not to be used with item 6.</li> <li>NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board</li> <li>4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 9 when used as the base layer on one or both staggered min 1 stud cavity on opposite sides of studs. Gypsum board 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.</li> <li>RAY-BAR ENGINEERING CORP — Type RB-LBG</li> <li>4G. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft. wide, attached to steel studs and floor and ceiling track with 1 in. long, Type 5 steel screws spaced 8 in 0C at perimeter and 12 in. OC in the field.</li> <li>RAY-BAR ENGINEERING CORP — Type RB-LBG</li> <li>4G. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type 5 steel screws spaced 8 in .0C. at perimeter and 12 in. OC in the field ot steel stude and 12 in. OC in the field ot screel stude and 12 in. OC in the field ot the board. Joints oriented vertically and staggered on</li></ul>	EXUV.1465 - Fire Resistance Ratings - ANSI/UL 263           UNITED STATES GYPSUM CO - Type ULX           USG MEXICO S A DE C V - Type ULX           4.           GYpsum Board* - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both six the sevent of idenci attachment only to steel studs Item 2C). Nom 5/8 in, thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 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 study attro opposite sides code dypsum valiboard 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 study attro onstruction adhesive and thor 1 in. long Type 5-12 pan head steel screew, sone at the bottom of the strip. Lead discs, nominal 3/8 in, diam by max 0.085 in, thick. Compression fitted or adhered over the screew heads. Lead batten strips and discs to have a purity of 99.96           RADIATION PROTECTION PRODUCTS INC - Type RPP - Lead Lined Drywall           4M. Gypsum Board* - (For use with Item 8) - 5/8 in, thick, 4 ft wide, applied vertically over Mineral and fiber board (Item 8). Secured to outernois studs and floor and celling runners with 2 in. long Type S screws spaced 8 in. O.C. along edges of each vertical joint and 12 in. OC in infered and the based of (Item 8). Secured to outervical stoes and floor and celling runners with 2 in. long Type S screws spaced 8 in. O.C. along edges of each vertical joint and 12 in. OC in infered at the option of the strip and ide floor Board (Item 8). Secured to outerwoit studs and floor and celling runners with 2 in. long Type S screws spaced 8 in. O.C. along edges of each vertical joint and 12 in. OC in i	BXUV.U463 - Fire Resistance Ratings - ANSI/UL 263         USG MEXICO S A DE C V - Types C, IP-X2, IPC-RI         S. Joint Tape and Compound Vinyl, dry or premixed joint compound, applied in two coats to joints and snow heads; paper tape, 21 n, wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick grosum veneer plaster may be applied to the entire surface of Classified veneer basebard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.         B. Resilient Channel - ( Optional-Not Shown) - 25 MSG galv steel resilient channels spaced vertically max 34 not be used with flem 4F or 40.         B. Steel Framing Members (Nt Bhown)* - As an alternate to Item 6, furring channels and resilient ond isolation cip as described below.         B. furring Channels - ( Steen Shown)* - As an alternate to Item 6, furring channels and resilient to double strand for No. 18 SWG galv steel versilient channel's secured to study as a described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with two bools "franding Stop ( Steel Steerwer, min 7/16 in. Ong at the midpoint of the overlap, As a laternate, ends of adjoining channels mear each end of overlap. As an alternate, ends of adjoining channels mear each end of overlap. As an alternate, with one screw one each flagpe of No. Item Alts Weit and Steel Ste	<ul> <li>BCUV-U465 - Five Resistance Ratings - ANSI/UL 263</li> <li>Inted Into clips.</li> <li>Into C DUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R</li> <li>Avail and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide parels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel installed as indicated as to fastener type and spacing, except that the required layer(s) faster to be installed as indicated as to fastener type and spacing, except that the required layer(s) faster to be installed ob yosum Board.</li> <li>SERIOUS ENERGY INC - Type QuietRock QR-510.</li> <li>SMineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of floor and ceiling runners with 1-5/8 in. long Type S steel screws, space 12 in. OC and 24 in. OC along all Wineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.</li> <li>Sterior face of the stud with two 1 in. long Type S steel screws, space 12 in. OC and 24 in. OC along all floor and ceiling runners with 1-5/8 in. long Type S steel screws, space 12 in. OC and 24 in. OC along all Wineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.</li> <li>Shad Batten Strips - (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of stud sand attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and optional at remaining stud locations. Required behind vertical joints.</li> <li>A. Lead Batten Strips - (Not Shown, for use with Item 41) Lead batten strips (n. wide, max 10 ft long with a max thickness of 0.126 in. Strips placed on the face of stud and attached to the stud</li></ul>
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with beveled, square or tappered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. Joo Type S steel screws spaced 8 in. OC when applied horizontally. When used in widths other than 48 in., gypsum panels to be installed horizontally. When used in widths other than 48 in., gypsum panels to be installed horizontally. When used in widths other than 48 in., gypsum panels to be installed horizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>CERTAINTEED GYPSUM INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>GEORGIA-PACIFIC GYPSUM L L C – Types DAP, DAPC, DGG, DS.</li> <li>LAFARGE NORTH AMERICA INC – Type X, Type C.</li> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – T ype AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, ,</li> </ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontal juints need not be backed by steel family. Horizontal degi joints and horizontal but joints on opposite sides of study. Staggered. Gypsum Board edge and every 8 in. OC in the field.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-C, FSW-C, FSW-C, FSW-G, FSW.         4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long. Type 5 steel screws spaced, 8 in. OC. Not to be used with item 6.         NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board         4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel study Item 2(2) - Nom 75/8 in. thick led backed gypsum grave gypse 3. Jul Commeter and 12 in. OC in the field.         RAY-BAR ENGINEERING CORP — Type RB-LBG         46. Gypsum Board* — (As an alternate to Items 4 through 4P) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel study and floor and celling track with 1 in. long. Type 5 steel screws spaced 5 in. OC a tope Steel         47. Gypsum Board* — (As an alternate to Items 4 through 4P) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel study and floor and celling track with 1 in. long. Type 5 steel screws spaced 5 in. OC a tope field.         RAY-BAR ENGINEERING CORP — Type RB-LBG         UNITED STATES GYPSUM CO — Types STM         UNITED STATES GYPSU	EXUV.U46' - Fire Resistance Ratings - ANSI/UL 263           UNITED STATES GYPSUM CO - Type ULX           USG MEXICO S A DE C V - Type ULX           4 Gypsum Board* - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both suit beveled, square or tapered edges, applied vertically. Vertical joints contred over studs and staggered min 1 stud cavity on opposite sides of studs. Wallhoord and optional at remaining stud locations. Lead batten strips required behind vertical joints of lead backed gypsum panels strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with contruction adheesid over the scrwt heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".           RDIATION PROTECTION PRODUCTS INC - Type RPP - Lead Lined Drywall           4M. Gypsum Board* - (For use with Item 8) - 5/8 in. thick, 4 ft wide, applied vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavites. Secured to mineral and fiber Board (Item 8) with vertical joints located anywhere over stud cavites. Secured to mineral and fiber Board (Item 8) with vertical joints located anywhere over stud cavites. Secured to mineral and fiber Board (Item 8) with vertical joints located anywhere over stud cavites. Secured to mineral and fiber Board (Item 8) with vertical joints located anywhere over stud cavites. Secured to mineral and fiber Board (Item 8) with vertical joints located anywhere over stud cavites. Secured to mineral and fiber Board (Item 8). Secured to outermost studs and floor and celling intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and celling intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost	<ul> <li>DSUV.145 - Fire Resistance Ratings - ANSI/LL 263</li> <li>USG MEXICO S A DE C V – Types C, IP-X2, IPC-RR</li> <li>S. Joint Tape and Compound – Vinyl, dry or premixed joint compound, applied in two coats to joints and snew heads: gaper tape, 21, wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer supplied with square edges.</li> <li>Geilient Channel – (Optional-Not Shown) – 25 MSG galv steel resilient channels spaced vertically max 24, in OC, finage portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screw. May not be used with them 4F or 41.</li> <li>Asteel Framing Members (Obtoments) – As an alternate to Item 6, furring channels and resilient channels in the used of in 1em 5. Ends of adjoining channels are overlapped 6 in. and secured together with double strand of No. 18 SWG galv steel wrein ener each end overlap. As an alternate, ends of adjoining channels are overlapped 6 in. and secured together with obuble strand of No. 18 MSG galv steel wrein ener each end overlap. As an alternate, ends of adjoining channels are overlapped 6 in. and secured together with ouble strand of No. 18 MSG galv steel wrein ener each end overlap. As an alternate, ends of adjoining channels are overlapped 6 in. and secured together with ouble strand of No. 18 MSG galv steel wrein ener each end of overlap. As an alternate, ends of adjoining channels are overlapped 6 in. and secured together with ouble strand of No. 18 MSG galv steel wrein 20 to studs. (Lars) of the overlap, Statis-1 cite for use with 2-2/316 in. Wide furring channels. RSIG-1 (2,75) cite for use with 2-2/312 in. wide furring channels. RSIG-1 (2,75) cite for use with 2-2/312 in. wide furring channels. RSIG-1 (2,75) cite for use with 2-2/312 in. wide furring channels. RSIG-1 (2,75) cite for use with 2-2/312 in. wide furring channels. RSIG-1 (2,75) cite for use with 2-2/312 in. wide</li></ul>	BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263         Inted into clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         1. Wall and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in, thick, 4 ft wide an accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel fraining and the UL Classified gypsum board, there required U. Classified gypsum board is installed as indicated as to fastener type and spacing, except that the required fastener length shall be installed by the store of the steed of well. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studes. Attached to stude of well. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studes. Attached to stude of well. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studes. Attached to stude and floor and celling runners with item 30, and Athesive, Item 11, are required. In C along all intermediate framing. The required U. Classified gypsum board layer(s) is to be installed over the Minereal and Fiber Board* - (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the later of studes and atched gypsum board (Item 4E) - and batel steel screws, space 12 in . Oce and 24
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO 5 A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically on horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal but topints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and flor runner with 1 in. Ion Type S steel screws spaced 8 in. OC when applied horizontally. When used in widths other than 48 in., gypsum panels to be installed horizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>CERTAINTEED GYPSUM INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>GEORGIA-PACIFIC GYPSUM L L C – Types DAP, DAPC, DGG, DS.</li> <li>LAFARGE NORTH AMERICA INC – Type X, Type C.</li> <li>INITED STATES GYPSUM CO – T ype AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, yUSGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C Y – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, , uSGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> </ul>	AD. Cypsum Board* - As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontally. Hurizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered. Gypsum panels fastened to framing with in. Ion Gypse S steel screws 11/2 in. form board edges and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO - Types PSK, FSK-C, FSK-C, FSW-C, FSW-G, FSW.         4E. Cypsum Board* - (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. fttick. 41. Walk appender sufficiency only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 8 in. OC. Not to be used with item 6.         NATIONAL GYPSUM CO - SoundBreak XP Type X Gypsum Board         4F. Cypsum Board* - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel study. Stypin board secured to study suth 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.         RAY-BAR ENGINEERING CORP - Type RB-IBG         4C. Cypsum Board* - (As an alternate to Items 4 through 4F) - For use with Items 1D and 2D only, 5/8 in. thick, 4f wide, attached to atel study and for and celling track with 1 in. long Type 5 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.         RAY-BAR ENGINEERING CORP - Type RB-IBG         4C. Cypsum Board* - (As an alternate to Items 4 through 4F) - For use with Items 1D and 2D only, 5/8 in. thick, 4f wide, attached to atel study and for and celling track with 1 in. long. Type 5 steel screws spaced 8 in opposite sides of the assembly.<	EXUV.U46' - Fire Resistance Ratings - ANSI/UL 263           UNITED STATES GYPSUM CO - Type ULX           USG MEXICO S A DE C V - Type ULX           4 Gypsum Board* - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both suit beveled, square or tapered edges, applied vertically. Vertical joints contred over studs and staggered min 1 stud cavity on opposite sides of studs. Wallhoord and optional at remaining stud locations. Lead batten strips required behind vertical joints of lead backed gypsum panels strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with contruction adheesid over the scrwt heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".           RDIATION PROTECTION PRODUCTS INC - Type RPP - Lead Lined Drywall           4M. Gypsum Board* - (For use with Item 8) - 5/8 in. thick, 4 ft wide, applied vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavites. Secured to mineral and fiber Board (Item 8) with vertical joints located anywhere over stud cavites. Secured to mineral and fiber Board (Item 8) with vertical joints located anywhere over stud cavites. Secured to mineral and fiber Board (Item 8) with vertical joints located anywhere over stud cavites. Secured to mineral and fiber Board (Item 8) with vertical joints located anywhere over stud cavites. Secured to mineral and fiber Board (Item 8) with vertical joints located anywhere over stud cavites. Secured to mineral and fiber Board (Item 8). Secured to outermost studs and floor and celling intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and celling intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>USG MEXICO S A DE C Y — Types C, 1P-X2, IPC-AR</li> <li>S. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in, wide, embedded in first layer of compound over all joints. As an alternate, nominal 3732 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer based. Joints renoreed, applied to the entire surface of Classified veneer based. Joints renoreed, applied to the entire surface of Classified veneer based. Joints renoreed, applied to the entire surface of Classified veneer based. Joints renoreed, applied to the entire surface of Classified veneer based and the square edges.</li> <li>S. Steel Framing Members (Not Shown) - 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, finage portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May 716 in. doe spaced 36 in OC perpendicular to studs. Anneels secured to studs as described in term b. In GoS of adjoining channels are overlapped 6 in. and secure to studs as a distrand of No. 18 SWG galv steel are ach nend of overlap. As an alternate, ends of adjoining channels are overlapped 6 in. and secure to getther with double strand of No. 18 SWG galv steel to studs with 1.5/8 in, wafer or hex head Type S steel screw through the center grommet. Furring channels, RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels are secured to the stud with min. 1 in. Jong Type S-12 pan head steel steel studes (Item 2), Resilient channels are fitted in the fitted into clips are secured to the stud with min. 1 in. Jong Type S-12 pan head steel steel studes (Item 2). Resilient channels are fitted inter the silient channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide therefise of the clips and ther clips are sescured to the stud with min. 1 in. Jong Type</li></ul>	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>Fitted Into clips.</li> <li>STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R</li> <li>Avail and Partition Facings and Accessories* - (Optional, Not shown) - Nominal 1/2 in. thick, 4 ft wide parels, for optional use as an additional layer on one or both sides of the assembly, Panels attached in pranels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in pranels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in pranels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in pranels, for optional use as an additional layer on one side of wall. Not 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5% in. long Type S steel screws, spaced 12 in.OC and 24 in.OC along all intereal and fiber Boards. Batts and Biankets, Item 30, and Adhesive, Item 44) is to be installed over the Mineral and Fiber Boards. Batts and Biankets, Item 30, and Adhesive, Item 41) is to be installed over the Mineral and Fiber Boards. Batts and Biankets, Item 30, and Adhesive, Item 41) is to be installed over the Mineral and Fiber Boards. Batts and Biankets, Item 30, and Adhesive, Item 41) is to be installed over the Mineral and Fiber Boards. Batts and Biankets, Item 30, and Adhesive, Item 41) is to be installed over the Mineral and Fiber Boards. Batts and Biankets, Item 30, and Adhesive, Item 41) is to be installed over the strip and one at the top of the strip and one at the bottom of the strip of and steel screw, one at the top of the strip and one at the bottom of the strip of and steel screw with Item 41) Lead batten strips 5 (and with one min. 1 in long min. Type</li></ul>
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge to the staggered or backed by steel framing. Panels attached to steel studs and floor numer with 1 in. Iong Type S Steel screw spaced 8 in. OC when applied horizontal but joints on opposite sides of studs. Incomposite sides spaced 8 in. OC when applied horizontal but joints on opposite sides of studs. Incom System Steels Steel Strew spaced 8 in. OC when applied horizontal but joints on opposite sides of studs. Incomposite sides and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed norizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>CERTAINTEED GYPSUM INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>GEORGIA-PACIFIC GYPSUM L L C – Types DAP, DAPC, DGG, DS.</li> <li>LAFARGE NORTH AMERICA INC – Type X, Type C.</li> <li>INAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>INAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>INITED STATES GYPSUM CO – T ype AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, JUSA (Joint tape and compound, Item 5, optional for use with Type USGX).</li> </ul>	<ul> <li>BXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels and horizontal but joints on opposite sides of studs need not be stagered. Gypsum panels fastened to framing with 11. long Type 5 steel screws spaced 3 in. Nom board edges 3 in. from board edges 4 in. Strews spaced a max 12 in. along the top and bottom edges of the wall.</li> <li>NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-C, FSW-C, FSW-C, FSW-G, FSW.</li> <li>4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type 5 steel screws spaced 8. In. O. C. Not to be used with item 6.</li> <li>NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board</li> <li>4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Non 5/8 in. thick lead backed appsum panels designed min 1 stud cavity on opposite sides of studs. Gypsum Board 4 is 0. C at preime degge, applied vertically. Vertical joints ender over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum Board 4 in. O. C in the field.</li> <li>RAY-BAR ENGINEERING CORP — Type RB-LBG</li> <li>4G. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and nor acelling track with 1 in. long. Type 5 steel screws spaced 8 in. O. C in the field of the board. Joints oriented vertically and staggered in 0. C. al oppet set sides of the assembly.</li> <li>LAFARE NORTH AMERICA INC — Type SCX</li> <li>LAFARE NORTH AMERICA INC — Type SCX</li> <li>4H. Wall and Partition Facings and Accessories* — (As an alternate to Items 4 through 4G) — Nominal staggered in item 4</li></ul>	<pre>ZVUUd9 - Fire Resistance Ratings - ANSI/UE 28</pre> UNITED STATES GYPSUM C0 - Type ULX USG MEXICO S A DE C V - Type ULX 4. Gypsum Board* - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs item 20. Non 5/8 in. thick lead backed gypsum panels the isoerses spaced 8 in. O C at perimeter and 12 in. O C in the field. Lead batten strips requires the panel steel screws spaced 8 in. O C at perimeter and 12 in. O C in the field. Lead batten strips requires the panel steel screws spaced 8 in. O C at perimeter and 12 in. O C in the field. Lead batten strips requires the panel steel screws spaced 8 in. O C at perimeter and 12 in. O C in the field. Lead batten strips requires the panel steel screws spaced 8 in. O C at perimeter and 12 in. O C in the field. Lead batten strips requires the panel steel screws spaced 8 in. O C at perimeter and 12 in. O C in the field. Lead batten strips requires the panel steel screws spaced 8 in. O C at perimeter and 12 in. O C in the field. Lead batten strips requires the panel screw heads a datten strips and loss to have a purity of 9.9.% company the federal specification Qu-L-201f, Grade "C". RDIATION PROTECTION PRODUCTS INC - Type RPP - Lead Lined Drywal Answer of the federal and fiber Board (Item 8). Sceured to outermost studs and talge and fiber Board (Item 8). Steerned to outer field out the fade and prove and prove stud cavites. Secured to manel and fiber Board (Item 8). Steerned to outer studs and floor and celling intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and celling intermediate field of the Mineral and Fiber Board (Item 8). Sceured to outermost studs and floor and celling intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and celling intermediate field of the Mineral and Fiber Board (Item 8). Secured to outeremost studs and floor and celling intermediate fie	BUUV.1465 - Fire Resistance Ratings - ANSI/UL 263         USG MEXICO S A DE C Y - Types C, IP-X2, IPC-AR         S. Joint Tage and Compound - Vinyl, dry or premixed joint compound over all joints. As an alternate, baseboard. Joints reinforced, Paper tape, an joint compound may be omitted when gypsum boards are strew heads; paper tape, 2 in, wide, embedded in first layer of compound over all joints. As an alternate, baseboard. Joints reinforced, Paper tape and joint compound may be omitted when gypsum boards are supported with square edges.         B. Resilient Channel - (Optional-Not Shown) - 25 MSG galv steel resilient channels spaced vertically max 24 in. OG, finage portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws.         B. Steel Framing Members (Not Shown) - 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. dee, spaced 24 in. OC prependicular to studs. Channels secured to studs as disolation clips as described below:         B. Steel Framing Members (Not Shown) - Used to attach furring channels are overlapped 6 in. and the tot doverlap. As an item too seriesped 6 in. and to tot doverlap. As an item secure on to studs as described in lettors. Lends of adjoining channels are overlapped 6 in. and the tot doverlap. As an item secure to studs with 2-9/16 in. long at the midpoint of the overlap. Steel screw through the center grommet. Furring channels are fiction fitted into clips. Rational West Meet Meet Meet Meet Meet Meet Meet M	<ul> <li>BUUV.1463 - Fire Resistance Ratings - ANSI/UL 263</li> <li>BITUE DE ULLDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R</li> <li>Andle and Fartikion Facings and Accessories* - (Optional, Net shown) Nominal 1/2 in, thick, 4 ft wide aradis, for optional use as an additional layer on one of both sides of the assembly. Panels attached in anolfs due to gate and additional layer on one of both sides of the assembly. Panels attached in anolfs due to faster type and spacing, except that the required latenched has the framing and the UL Classified dypsum board, the required UL Classified gypsum board layer(s) is/are to be intraled as in offsatemer type and spacing, except that the required fasternel renegt shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified dypsum board.</li> <li>SERIOUS ENERGY INC - Type QuietRock QR-510.</li> <li>9. Mineral and Fiber Board* - (Optional, Not shown) - For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studg and floor and celling runners with 1-5/6 in. Jong Type S steel screws, spaced 12 in. OC and 24 in. OC along at the interior face of the study with voi 11. Jong Type S -12 pan head steel strews, one at the top of the strip and one at the kottom of the strip. Lead batten strips rol load at attached from the strip for face of the study with voi 11. Jong Type S -12 pan head steel strews, one at the top of the strip and one in thickness of 0.125 in. Strips placed on the interior face of the strop and one in the strip of the strip and one of the strip. Lead batten strips rol, and do head batten strips. Jone with the strip and one in the strip of the strip and one of the strip and one of the strip and one in the strip of the strip and one of the</li></ul>
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C Y – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal but tjoints on opposite sides of studs in obacked by steel framing. Panels attached to steel studs and flor runner with 1 in. Joing Type 5 steel screws spaced 8 in. OC when applied horizontally. We hus used in widths other than 48 in., gypsum panels to be installed throizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>CERTAINTEED GYPSUM INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>GEORGIA-PACIFIC GYPSUM L L C – Types DAP, DAPC, DGG, DS.</li> <li>LAFARGE NORTH AMERICA INC – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>UNITED STATES GYPSUM CO – T ype AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, JUSGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO 5 A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, or WRX.</li> <li>48. Gypsum Board* – (As an alternate to Items 4 or 40) – Nom 3/4 in. thick, 4 ft wide, installed as</li> </ul>	XUVU465 - Fire Resistance Ratings - ANSI/UL 263         4D. Cypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels         applied horizontally Unit horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal built joints on opposite sides of stude need not be staggered. Gypsum panels fastened to framing with in. long Type 5 steel screws 1/2 in. Grom board edges, 31 m. Grom board edge and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-C, FSW-C, FSW-G, FSW.         4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 9f twide, paper surfaced, applied vertically only and fastened to the stude and plates with 1 in. long, Type 5 steel screws spaced, 8 in. OC. Not to be used with tem 5.         NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board         4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel stude stude 12C) - Nom 5/8 in. thick lead backed gypsum panels steed gypsum panels age or tapered edges, applied vertically vertical joints centered verts 4 and 12 in. OC in the field or the back.         RAY-BAR ENGINEERING CORP — Type R8-LBG         4C. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4f wide, attached to steel stude and floor and celling track with 1 in. long. Type 5 steel screws spaced 8 in. OC along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered 8 in. thick, 4f wide panels, applied vertically and secured as described in	<pre>ZVUU495 - Breukstame Rutings - NSUUL 25</pre> ULITED STATES GYPSUM C0 - Type ULX USING STATES GYPSUM C0 - Type ULX USING STATES GYPSUM C0 - Type ULX GYPSUM States St	<ul> <li>EXUV.U465 - Fire Resistance Ratings - ANSI/UL 263</li> <li>USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR</li> <li>Spint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2, in wide, embedded in first layer of compound over all joints. As an alternate, maintail 3/23 in. https: grypsum boards are plaster may be applied to the entire surface of Classified venere baseboard. Joints reinforced, Paper tape and joint compound may be omitted when gypsum boards are supported to the entire surface of Classified venere baseboard. Joints reinforced, Paper tape and joint compound may be omitted when gypsum boards are supported to the support be used with them of or v1.</li> <li>Assel Framing Members (Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, finge portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws.</li> <li>Assel Framing Members (Not Shown) — - As an alternate to Item 6, furring channels and resilient sound isolation cills as described below:</li> <li>Furring Channels — Formed of No. 25 MSG galv steel - areal and of overlap. As an alternate, ends of adjoining channels are overlapped in . and tied together with two serve on each flange of the channel.</li> <li>Furring Channels — Formed of No. 25 MSG galv steel with and secured to getther with two serve on each flange of the channel.</li> <li>Digs spaced 48 in OC, and secured to studs with 1-5/8 in. wafer or hex head Type 5 States and the steel studs (Item 2). Clips spaced 48 in OC, framing Screwer, Sim 2/16 in. Jong at the midphoint of the overlap.</li> <li>Are INTERNATIONAL INC — Types RSIC-1, RSIC-1 (2,75) clip for use with 2-24/16 in. wide secured to studs with 1-5/8 in. wafer or hex head Type 5 steel and the steel studs (Item 2). Resilient channels atel screwer towing the center forming channels are firstion fitted into clips, and then clips are secured to the stud with min. 1</li></ul>	<ul> <li>Butter status example of the status and Butters of the status status of the status status and status of the status of the status of the status of the status status status status status status and status of the status status and status of the status of the status of the status status status status and status of the status status status status and status of the statu</li></ul>
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>UNITED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>A4. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>CERTAINTEED GYPSUM INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>GEORGIA-PACIFIC GYPSUM L L C – Types DAP, DAPC, DGG, DS.</li> <li>LAFARGE NORTH AMERICA INC – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>UNITED STATES GYPSUM CO – T ype AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, puSC (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>48. Gypsum Board* – (As an alternate to Items 4 or 4A) – Nom 3/4 in. thick, 4 ft wide, installed as described in Item 44 with screw length increased to 1-1/4 in.</li> </ul>	<ul> <li>BUTUL945 - Fire Resistance Ratings - ANSIUL 263</li> <li>4D. Gypsum Board* - As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontal juli, borizontal juli points on opposite sites of studs need not be staggered. Gypsum panels fastened to framing with 1. Even spaced a mix 12 in. along the top and bottom edges of the wall.</li> <li>MATTONAL GYPSUM CO - Types FSK, FSK-C, FSK-C, FSW-C, F</li></ul>	<pre>ZVUVUd&gt;2 Fire Resistance Rutings - ANSI/UL 03</pre> ULITED STATES GYPSUM C0 - Type ULX USE DECCO S A DE C V - Type ULX IS G MEXICO S A DE	DUCU V43 - Fine Resistance Ratings - ARSINUL 23 JCS MEXICO S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C S A DE C V - Types C, 1P-X2, 1PC-RI Signal C C C C S A DE C V - Types C C C S A DE C V - Types C C C S A DE C V - Types C C C S A DE C V - Types C C C C C C C C C C C C C C C C C C C	<ul> <li>BUTURGET FOR Resistance Ratings - ANSULT 23</li> <li>BUTURGET FOR RESISTANCE AND ALL ALL ALL ALL ALL ALL ALL ALL ALL AL</li></ul>
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C Y – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>AA. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered or backed by steel faming. Panels attached to steel studs and four runner with 1 in. Joing Type 5 steel screws spaced &amp; in. GC with applied horizontally. Vertical joints centered over studs and bottom edges and 12 in. OC in the flidd when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontal but joints on the staggered of backed by steel faming. Panels attached to steel studs and floor runner with 1 in. Joing Type 5 steel screws spaced &amp; in. GC with applied horizontally. V Sin CC along vertical and bottom edges and 12 in. OC in the flidd when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontal but joints on the staggered on estimates to be installed horizontally. The state of the stagered part of the stage state for the stage and 12 in. OC in the flidd when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>LGRTAINTEED GYPSUM LL C – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>LGROGIA-PACIFIC GYPSUM LL C – Type X, Type C, IPA Parel IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, JUSGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, W</li></ul>	BUUUL445 - Fire Resistance Ratings - ANSI/UL 263         4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/8 in. thick gypsum panels applied horizontal juit joints on opposite sides of studs need not be backed by steel framing. Horizontal adding for the international backed by steel framing. Horizontal adding joints and horizontal but joints on opposite sides of studs need not be staggered. Gypsum Boards fastened to framing with 1 in. long Type S steel screws 1/2 juin from board edges, 31 in. Fom board edges and every 8 in. OC in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall.         NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-G, FSW.       4E. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 r. wide, paper surfaced, applied vericitaly only and fastened to the studs and plates with 1 in. long, Type 5 steel screws spaced, 8 in. OC. Not to be used with item 6.         NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board       4f. Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick is diver advity on opposite sides of thus, Gypsum board staggerer min 1 stud cavity on opposite sides of the Side. System Sign. Thick is all backed opsum panels with heiveld, square or tapered edges, applied vertically in Sign. Thick is all backed opsum panels with heiveld, studered to steed sin. OC C at perimeter and 12 in. OC in the field.         RAY-BAR ENGINEERING CORP — Type R8-L8G       4G. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studes and floor and calling track with 1 in. long, Type S steel screws spaced so in opposite sides of thus assembly.         LAFARGE NORTH AMERICA	<pre>ZVUU495 - Breukstame Rutings - NSUUL 25</pre> ULITED STATES GYPSUM C0 - Type ULX USING STATES GYPSUM C0 - Type ULX USING STATES GYPSUM C0 - Type ULX USING STATES GYPSUM C0 - Type ULX A space of tappend edges, appled vertically. Vertical joints centered over studs and staggered min with beveled, square or tappend edges, appled vertically. Vertical joints centered over studs and staggered min with beveled, square or tappend edges, appled vertically. Vertical joints centered over studs and staggered min with beveled, square or tappend edges, appled vertically. Vertical joints centered over studs and staggered min with beveled, square or tappend edges, appled vertically. Vertical joints centered over studs and staggered min with study and studies to the study study to over study and staggered in the study with construction adhesive and two lin. In ong Type 5 1.2 stell scores to be added over the score wheads. Lead batten strips and leads to be aver study and adjusted at the stell score, one at the top over the score wheads. Lead batten strips and leads to have a purity of 9.9 study and the state score, one at the top over the score wheads. Lead batten strips and leads to have a purity of 9.9 study and the state score, one at the top over the score wheads. Lead batten strips and leads to have a purity of 9.9 study and the state score, one at the top over the score wheads. Lead batten strips and leads to have a purity of 9.9 study and the state score with 1.9 in Type GS scores spaced 8 in. OC along edges of each vertical joint and 1.2 in. OC in forming strips in the score wheads covered with joint compound. Curpores wheads covered with joint compound. Curpores Crep top Scores spaced 8 in. OC along edges of each vertical joint and 1.2 in. OC in forming strips in the score study and top score study. Curpore top the Score score spaced 8 in. OC along edges of each vertical joint and 1.2 in. OC in forming strips in the score study and the score study. Curpore top top Score score spaced 8 in. OC along edges of each ve	DVUVU35 - Ere Resistance Ratings - ARXIUL 23           JUSC MEXICO S A DE C V - Types C, IP-X2, IPC-R           Sign Tappa and Compound - Wink, dry or premixed joint compound applied in two coats to joints and neuroscience and sign in the larger of compound over all polied to the entire surface of Classified vering support tappa. 2.1. wilk, embedded in first layer of compound over all polied to the entire surface of Classified vering support tappa. 2.1. wilk, embedded to the entire surface of Classified vering support tappa. 2.1. wilk, embedded to the entire surface of Classified vering support to the entire support tappa. 2.1. Wilk, embedded to the entire surface of Classified vering support to the entire support tappa. 2.1. Wilk, embedded tappa. 2.5 MSG gaiv steel resilient channels support tappa. 2.1. wilk embedded to the entire support tappa. 2.5 MSG gaiv steel resilient channels support 2.2. In media steel support to the entire support tappa. 2.6. MSG gaiv steel resilient channels tappa. 2.7. MSG fair tapp	<text><text><text><text><text><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></text></text></text></text></text>
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C Y – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>AA. Gypsum Board* – (As alternate to Item 4) - Nom 5/8 in. thick 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. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered or backed by steel faming. Panels attached to steel studs and four runner with 1 in. Joing Type 5 steel screws spaced &amp; in. GC with applied horizontally. Vertical joints centered over studs and bottom edges and 12 in. OC in the flidd when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontal but joints on the staggered of backed by steel faming. Panels attached to steel studs and floor runner with 1 in. Joing Type 5 steel screws spaced &amp; in. GC with applied horizontally. V Sin CC along vertical and bottom edges and 12 in. OC in the flidd when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontal but joints on the staggered on estimates to be installed horizontally. The state of the stagered part of the stage state for the stage and 12 in. OC in the flidd when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.</li> <li>CGC INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>LGRTAINTEED GYPSUM LL C – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>LGROGIA-PACIFIC GYPSUM LL C – Type X, Type C, IPA Parel IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, JUSGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, W</li></ul>	<ul> <li>BYUV.1463 - Fire Resistance Ratings - ANSI/UL 263</li> <li>4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C - Nom. 5/B in. thick gypsum panels applied horizontally, ionizontal joints med not be backed by steel framing. Horizontal edge joints and with 1 in. Jong Type 5 steel screws spaced and mate to a temp badre dege, 31 in. from board dege, and every 8 in. OC in the field. Screws spaced a maternate to Items 4 through 4D) - Installed as described in Item 4. 5/B in. thick, 4 ft. wide, apper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type 5 steel screws spaced and every 8 in. OC in the field. Screws 5 spaced as model, applied vertically only and fastened to the studs and plates with 1 in. long, Type 5 steel screws spaced as in OC. Not to be used with tem 6.</li> <li>NATIONAL GYPSUM CO – SoundBreak XP Type X Gypsum Board</li> <li>4F. Gypsum Board* – (Not Shown) - (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/B in. thick, 4 ft. wide, apper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long, Type 5 steel screws spaced 8 in . OC. In the field deges, applied vertically contrail applied vertically and stagesered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type 5 steel screws spaced 8 in . OC. Not OC in the field.</li> <li>RAY-BAR ENGINEERING CORP – Type R8-IbG</li> <li>4G. Gypsum Board* – (As an alternate to Items 4 through 4P) – For use with Items 1D and 2D only, 5/B in. thick, 4 ft wide, attached to steel studs and floor and calling track with 1 in. long, Type 5 steel screws spaced 8 in . OC. In OC in the field of the board. Joints oriented vertically and staggered in on opposite sides of the same due. Joints oriented vertically and staggered 8 in . OC &amp; Into field of the board. Joints oriented vertically and staggered 8 in . OC &amp; Into field of the board. Joints oriented vertically and staggered 8 in . OC. In</li></ul>	<pre>Kutted - Executed Reading - AnsWord Cd - Type UKX Lutted STATES CYPSUM Cd - Type UKX Lutted States Cd P -</pre>	DVULV49 - Piter Resistance Ranges – ANSIUL 23         USC MEXICO S A DE C Y — Types C, 1P-X2, 1PCAR         Sign Tappe range Comparend – Wryl, dry or premised joint compound, applied in two coalts to joints and storeholds using endogen.         Sign Tappe range Comparend – Wryl, dry or premised joint compound over all joints. As an alternate, togen and yoint compound over all joints. As an alternate, togen and yoint compound over all joints. As an alternate, togen and yoint compound over all joints. As an alternate, togen and yoint compound over all joints. As an alternate, togen alternate, source over all source comparend on the source over all joints. As an alternate, togen alternate, togen and yoint compound over all joints. As an alternate, togen alternate, togen and yoint compound over all joints. As an alternate, togen alternate, togen and yoint compound over all joints. As an alternate, togen alternate, togen and yoint compound over all joints. As an alternate, togen alternate, togen alternate, togen and yoint compound over all joints. As an alternate, togen alternate, togen alternate, togen alternate, togen and yoint compound over all joints. As an alternate, togen alternate, tog	DUCU 1493 - Dire Delasting and Subject 1         Struct Construction of the structure
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type X, Type C.</li> <li>JUSTED STATES GYPSUM CO – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item S, optional for use with Type USGX).</li> <li>JUSG MEXICO S A DE C Y – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>AA, Gypsum Board* – (As alternate to Item A) - Non 5/8 in. thick yopsum panels with baseled, square or fapered edges, applied vertically or horizontally, vertical joints centered over studs and tstaggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal but joints on opposite sides of studs and staggered on backed by steel farming. Panels attached to steel studies and foror runner with 1 in. Joint Type S steel screws spaced b in. OC. When applied horizontally, or lin. OC along vertical and bottom dypsum panels to be installed horizontally.</li> <li>GGE INC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>GERTAINTEED GYPSUM INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>GERRGIA-PACIFIC GYPSUM L L C – Types AP, DAPC, DGG, DS.</li> <li>LAFARGE NORTH AMERICA INC – Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, JUSGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C Y – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, JUSGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C Y – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, JUSGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C Y – Types AR, IP-AR.</li> <li>USG MEXICO S A DE C Y – Types AR, IP-AR.</li> <li>USG MEXICO S A DE C Y – Types AR, IP-AR.</li> <li>USG MEXICO S A DE C Y – Types AR, IP-AR.</li> <li>USG MEXICO S A DE C Y – Types AR, IP-AR.</li> <li>USG MEXICO S A DE C Y – Types AR, IP-AR.</li> <li>USG MEXICO S A DE C Y – Types AR, IP-AR.</li> <li>USG MEXICO S A DE C Y – Types AR, IP-AR.&lt;</li></ul>	<ul> <li>B. Cypsum Board<sup>4</sup> — As an alternate to Items 4, 4A, 4B, and 4C - Non. 5/B in. thick gypsum panels applied horizontally, infractual joints need not be backed by steel framing. Hurizontal edge joints and horizontally infractual joints are done to be backed by steel framing. Hurizontal edge joints and horizontally infractual joints are done to be backed by steel framing. Hurizontal edge joints and horizontally infractual joints are done to be backed by steel framing. Hurizontal edge joints and horizontally infractual areas 12 in a long the top and bottom edges of the wall.</li> <li>NATIONAL GYPSUM CO – Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW.</li> <li>4E. Cypsum Board<sup>4</sup> - (At an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/B in thick of ft. wide, paper suffreed, applied vertically only and factaend to the stude and plates with 1 m. long. Type 5 as the strews spaced 8. In . OC to Not to be used with item 6.</li> <li>NATIONAL GYPSUM CO - SoundBreak XP Type X Gypsum Board</li> <li>4F. Gypsum Board<sup>4</sup> - (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both also of wall. For direct attachment only to steal stude Item 2. Joint 5/B in. thick lead backed gypsum panels gauged efficience of the effect.</li> <li>KAY-BAR ENGINEERING COPP - Type RB-LBG</li> <li>4G. Gypsum Board<sup>4</sup> - (As an alternate to Items 4 through 4P) - For use with Items 1D and 2D only. 5/B in. thick, 4 ft wide panels, applied vertically and accured as described in Item 4. Set is the stress spaced 8 in . OC : the field of the board. Joints oriented vertically and staggered in opposite sides of the assembly.</li> <li>LFARGE NORTH AMERICA INC - Type LGFC6A, LGFC-C/A</li> <li>NATIONAL GYPSUM CO - Types SIW</li> <li>UNITED STATES GYPSUM CO - Type SIX</li> <li>4. Wall and Farthion Facings and Accessories - (As an alternate to Items 1 fmough 4D) - Nominal 5/B in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.</li></ul>	<pre>ZVUU49 - 3 Provide A departed a departed by departe</pre>	DVULU49 - Fire Resistance Ratings - ANSULT 23         USE MEXICO S A DE C Y - Types C, 1P-X2, IPCAR         Sign Tops and Compound - Viryl, dy or premised joint compound, applied in two coats to joints and space backs, and atternate, basebaard, Joints enforted, Apare tapa and joint compound may be omitted when grypsum boards are used in the second point of the second point point point of the second p	DUULUS45 - Ere Resistance Ratings - AMSURL 28         Itted mito clips.         STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R         An end provide an additional busines on one or their due due of the assembly. Panels attached in accordance with nanufacturer's recommendations. When the CR-S10 panel is installed Delever(s) size to be included due to assembly. Panels attached in stalled due to due assembly. Panels attached in the LC assembled grypum Board. The required IL Cassefied approximation for the required IL Cassefied Grypum Board and the LC assembled dynamic Board. The required IL Cassefied Grypum Board and Casser (Signam Board Board Clipser). Size of the dynamic Board Casser (Signam Board Board Clipser). Size of the dynamic Board Clipser (Signam Board Board Clipser). The required IL Cassefiel Grypum Board and Clipser (Signam Board Board Clipser). The required IL Cassefiel Grypum Board Board (Signam Board Board Clipser). The required IL Cassefiel Grypum Board Board (Signam Board Board Clipser). The required IL Cassefiel Grypum Board Board (Signam Board Board Clipser). The required IL Cassefiel Grypum Board Board (Signam Board Board Clipser). The required IL Cassefiel Grypum Board Board (Signam Board Board Clipser). The required IL Cassefiel Grypum Board Board (Signam Board Board Clipser). The required IL Cassefiel Grypum Board Board (Signam Board Board Clipser). The required IL Cassefiel Grypum Board Board (Signam Board Board Clipser). The required IL Cassefiel Grypum Board Board Clipser). The required IL Cassefiel Grypum Board Board (Signam Board Board Clipser). The set of the differe Board (Signam Board Board Clipser). The required IL Cassefiel Grypum Board Board Clipser). The set of the differe Board (Signam Board Board Clipser). The set of the differe Board (Signam Board Board Clipser). The set of the dindex Clipser) and Board Board Clipser). The set of the differe Bo
<ul> <li>THAI GYPSUM PRODUCTS PCL — Type X, Type C.</li> <li>JUTTED STATES GYPSUM CO — Type AR, C, FRY-G, JP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item S, optional for use with Type USGX).</li> <li>JUSG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>A. Ayopsum Board* — (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with bayeles of studs appred edges, sphele vertically on control of the stell study in the study of the internate of the study of the stud</li></ul>	<ul> <li>BYUV U49 - Fire Resistance Ratings - ANSULL 28</li> <li>Al - Gynam Board* As an alternate to Temb 4, 44, 45, and 4C - Norn. 5/1 in . thick gynam panels fasting to Framing with 1 in . long Type 5 steel screws 11/2 in. from board edges, 3 in. from board edge and every 8 in. O.C in the field. Screws spaced a max 1 in. along the top and board modes of the way.</li> <li>ATTONAL GYPSUM CO - Types FSK, FSK-C, FSK-G, FSK-C, FSK-G, FSK</li></ul>	<pre>Kutted - Executed Reading - AnsWord Cd - Type UKX Lutted STATES CYPSUM Cd - Type UKX Lutted States Cd P -</pre>	DVULU49 - Fite Resistance Ratings - ANSULT 23         USC MEXICO S A DE C V - Types C, IP-X2, IPCAR         Sign Tappe and Compound - Viryl, dry or premised joint compound, applied in two costs to joints and severable place tappe. 2 in. Wide, embedded in first lawer of compound over all joints, dan atternate, to subject of the severable place of the s	DUVLU493 - Bite Resistance Ratings - ANSURL 203         Bite Into Clips.         STUDCO BUILDING SYSTEMS - RESILHAOUNT Sound Isolation Clips - Type A237R         Any Resistance Ratings - Ansure Ratings - Ansure Ratings - Cliptional, Net shown) - Howinal JL, and Karting - Ansure Ratings - Cliptional Resistance Ratings - Ansure Ratings - Cliptional Resistance Ratings - Cliptional Resistance Ratings - Type A237R         Any Resistance Ratings - Cliptional Resistance Rat
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type AR, C, FRX-G, FPAR, FYAI, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C Y – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>AA, Gypsum Board - (As alternate to Item 4) - Non 558 in, thick ayngum parale with beyed of study and papered offee, spalled vertically on poposite sides of study. Horizontal but planes attached to steel study and staggered on askulf or horizontally. When used in with the sub study and staggered on askulf or horizontally. When used in with the sub study and the parale are applied bertained by steel farming. Panels study to be study and the parale are applied vertically. When used in with a study end of the study of the in the intervention of the study of the intervention of the study. The study is the intervention is the study of the intervention intervention in the study of the intervention intervention intervention. C in the fifted when parales are applied vertically. When used in when an effect on the study of the intervention is the study of the intervention intervention. C is in the fifted when parales are applied vertically. When used in when the intervention is applied vertically. When used in when a parales are applied vertically. When used in when the intervention is applied vertically. When used in when a parales at the intervention is applied vertical intervention is applied vertical intervention.</li> <li>GE TRC – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>LEATAINTEED GYPSUM CANADA INC – Type X, Type C, Type EGRG/ GlasRoc.</li> <li>LEARGE NORTH AMERICA INC – Type KR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, VSX (Q (of the study of the maternate to Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, VSX (Q (of the study of the study installed to train with Type USGX).</li> <li>LG MEXICO S A DE C V – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>LG MEX</li></ul>	<ul> <li>BXUV1463 - Fire Resistance Ratings - ANSHUL 263</li> <li>40. Gypsum Board* — As an alternate to Term 4, 44, 45, and 4C - Nom, 53 in thick gypsum panels find into no populations need for the 54-54 dy shall forming, which is dypsum panels fastened to forming with 1 in, long Type 5 steel screws 1-1/2 in. from board edges, 3 in. from board edge, and every 8 in. OC in the field. Screws spaced an arx 12 in. along the top and tottom edges of the wait.</li> <li>NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSK-G, FSW-G, FSW.</li> <li>4E, Gypsum Board* — (As an alternate to Items 4 through 4D) - Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 1 in. long. Type 5 steel screws space of an exc.</li> <li>NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board</li> <li>4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both addes of wall. For direct attachment ony to steel study. Item 6.</li> <li>NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board</li> <li>4F. Gypsum Board* — (Not Shown) - (As an alternate to Item 4 when used as the base layer on one or both addes of wall. For direct attachment ony to steel study. Wetrol (pink), wetrol (pink), Type 5 steel screws spaced a in. OC at perimeter and 12 in. OC in the field.</li> <li>RAY-BAR ENGINEERING CORP — Type RB-L8G</li> <li>AG. Gypsum Board* — (As an alternate to Items 4 through 4P) — For use with Items 1D and 2D only, 5/6 in. thick, 4ft wide, tanched to steel study and for on a coling track with 1 in. long. Type 5 steel screws spaced 1 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly.</li> <li>LEFARGE NORTH AMERICA INC — Types FSW</li> <li>UNITED STATES GYPSUM CO — Types Steel strew space and screenes as descreed in Item 4.</li> <li>Sterous ENREY INC — Types QuietRock ES, QuietRock SZ.</li> <li>H, Myean Baber4 — (Ast an alternate to Item 5.4) and staggered on oppo</li></ul>	ZVUU49 - 7 Brokenske Relatige - ANSULU2 3         JUITED STATES GYRSUM CD - Type ULX         JUITED STATES GYRSUM CD - Type ULX         JUITED STATES GYRSUM CD - Type ULX         State Stat	<text><list-item><list-item><list-item><list-item>EVULU49 - Pite Resistance Range - ANSULD 33           JUCU 494 - Pite Resistance Range - ANSULD 3           JUCU 494 - Pite Resistance Range - And Compared - Piter Range - And Compared - And Comp</list-item></list-item></list-item></list-item></text>	DUVLU49 - Bite Resistance Ratings - ANSURD.23         Bited into clips.         DUPCOBULIDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R
<ul> <li>THAI GYPSUM PRODUCTS PCL – Type AR, C, FRX-G, JP-AR, IP-X1, JP-X2, JPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USG MEXICO S A DE C Y – Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>4A. Gypsum Board - (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with adtaggered one stud convity on optiosite sides of stude. Horizontal edge Joints and Horizontal but Joints on opposite sides of stude. Horizontal edge Joints and Horizontal but Joints on opposite sides of stude. Horizontal edge Joints and Horizontal but Joints on opposite sides of stude. Horizontal edge Joints and Horizontal but Joints on opposite sides of stude. The field when panels are applied vertically. When used in widths other than 48 in., oppum panels to be installed horizontality.</li> <li>GC INC - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>CERTAINTEED GYPSUM INC - Type X, Type C, Type EGRG/ GlasRoc.</li> <li>GEORGIA-PACIFIC GYPSUM L L C - Types DAP, DAPC, DGG, DS.</li> <li>LAFARGE NORTH AMERICA INC - Type LGFC6A, LGFC-C/A</li> <li>THAI GYPSUM PRODUCTS PCL - Type AR, C, FPX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, f. USGX (Joint tape and compound, Item 5, optional for use with Type USGX).</li> <li>USE MEXICO S A DE C Y - Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>LG INC - Types AR, IP-AR.</li> <li>UNITED STATES GYPSUM CO - Types AR, IP-AR.</li> <li>USE MEXICO S A DE C Y - Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.</li> <li>LG INC - Types AR, IP-AR.</li> <li>UNITED STATES GYPSUM CO - Types AR, IP-AR.</li> <li>USE MEXICO S A DE C Y - Types AR, IP-AR.</li> <li>USE MEXICO S A DE C Y - Types AR, IP-AR.</li> <li>USE MEXICO S A DE C Y - Types AR, IP-AR.</li> <li>USE MEXICO S A DE C Y - Types AR, IP-AR.</li> <li>USE M</li></ul>	<ul> <li>HATTORAL CYPSUM CO - Types FSK, FSK-C, FSK-C,</li></ul>	<pre>EXULV30 &gt; FUR Sequence Relations &gt; ASSULV30 &gt; URITED STATES GYPSUM CD = Type ULX URITED STATES GYPSUM CD = Type ULX US MELTCO 5 A DE C Y = Type ULX US ME</pre>	<text><list-item><list-item><list-item><list-item><list-item>UNUTURES - Fire Residence Reality of NUTURES           JUNURES - Fire Residence Reality of NUTURES           JUNURES - Fire Residence Reality of NUTURES           JUNURES - FIRE REAL OF A DECK - TYPES, CPC AT           JUNURES - Sector Reality of NUTURES, NUTURES, Sector Reality of NUTURES, REALITY, RUTURES, REALITY, RUTURES, REALITY, RUTURES, REALITY, RUTURES, RU</list-item></list-item></list-item></list-item></list-item></text>	DUCU493 - Bite Relations Relating a WARD A Set



ISSUE DATES PERMIT SET 02.18.22 PERMIT COMMENTS 0.24.22

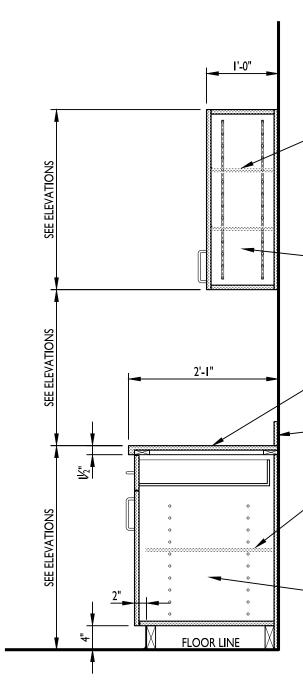
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Summit, Missouri

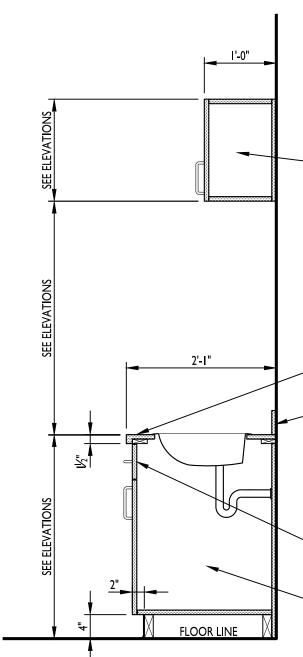
1/07/2022

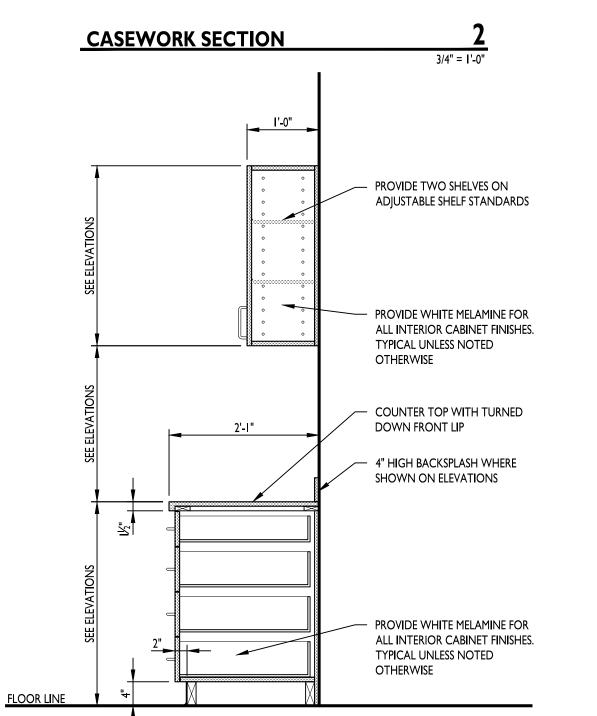
210300 RATED WALL



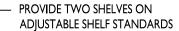


# **CASEWORK SECTION**





**CASEWORK SECTION** 



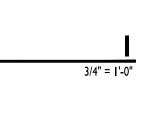
- PROVIDE WHITE MELAMINE FOR ALL INTERIOR CABINET FINISHES. TYPICAL UNLESS NOTED OTHERWISE

- COUNTER TOP WITH TURNED DOWN FRONT LIP

4" HIGH BACKSPLASH WHERE SHOWN ON ELEVATIONS

- PROVIDE ONE SHELF ON ADJUSTABLE SHELF STANDARDS

PROVIDE WHITE MELAMINE FOR ALL INTERIOR CABINET FINISHES. TYPICAL UNLESS NOTED OTHERWISE



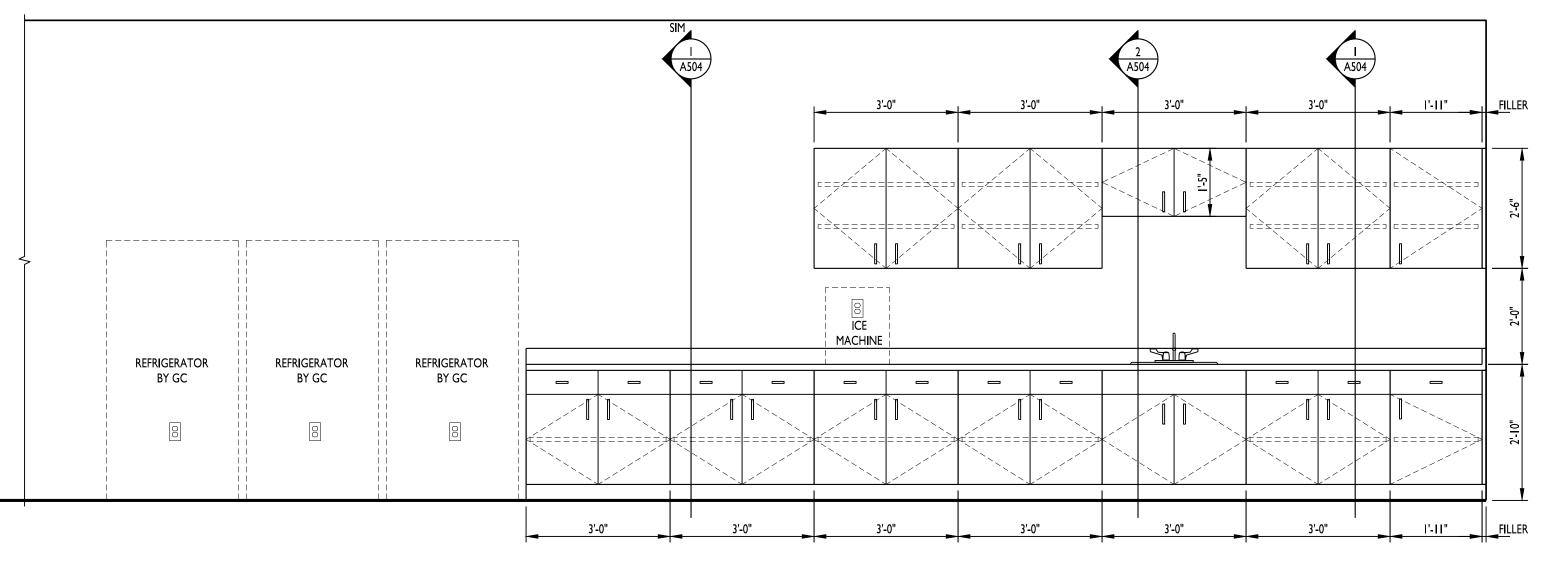
- PROVIDE WHITE MELAMINE FOR ALL INTERIOR CABINET FINISHES. TYPICAL UNLESS NOTED OTHERWISE

- COUNTER TOP WITH TURNED DOWN FRONT LIP

- PROVIDE 4" HIGH BACKSPLASH AND SIDESPLASHES WHERE COUNTER ABUTS SIDE WALLS. SEE ELEVATIONS

PROVIDE MATCHING FALSE DRAWER AT ALL SINK LOCATIONS. MATCH ALL FINISHES, HARDWARE, ETC TYPICAL BASE CABINET WITH NO

SHELVING OR STANDARDS



# **CASEWORK ELEVATION**

1/2" = 1'-0"

A504

==z'=1

c=z===

l'-6"

FILLER

FILLER

3'-3"

c==,z'===

(I (A504)

3'-3"

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=====

3'-3"

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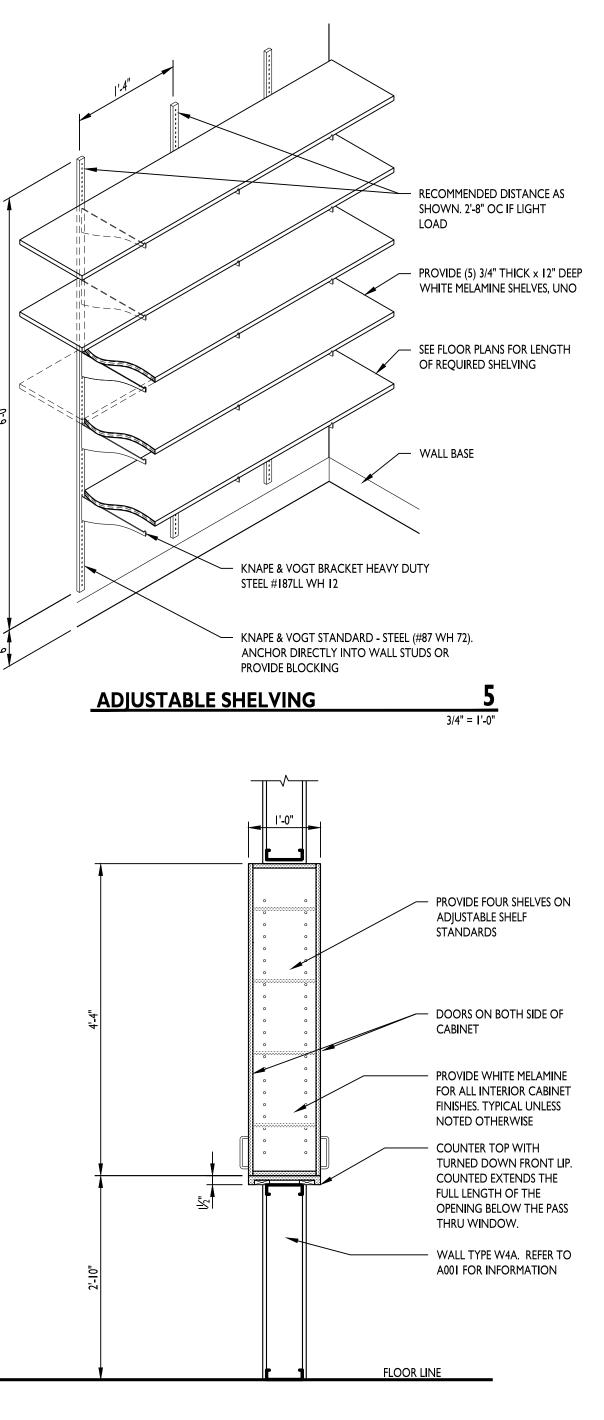
3'-3"

**CASEWORK ELEVATION** 

FILLER

1/2" = 1'-0"

1/2" = 1'-0"



PASS-THRU CABINET SECTION

3/4"" = 1'-0"

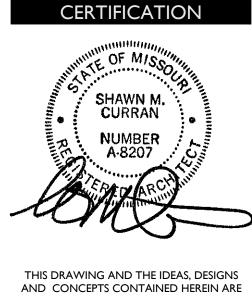
3/4" = 1'-0"



RELEASED FOR

5719 LAWTON LOOP E. DR. #212 INDIANAPOLIS, IN 46216 O :: 317.288.0681 F :: 317.288.0753





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# PROJECT INFORMATION

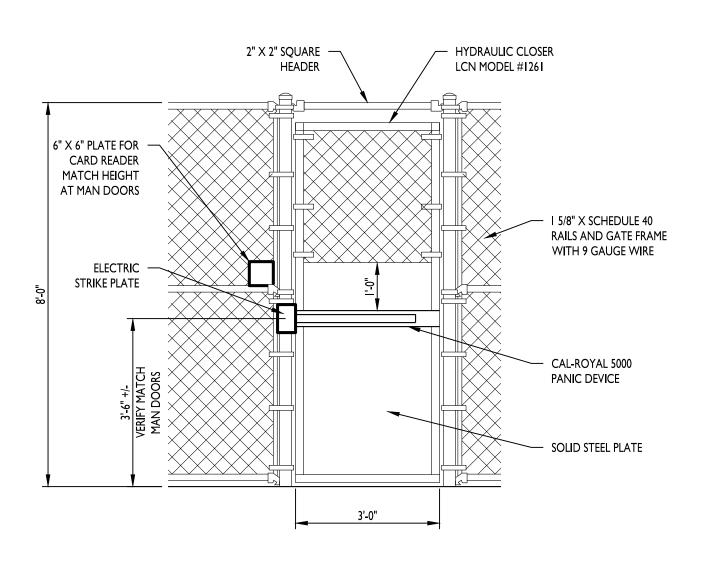
LEE'S SUMMIT LOGISTICS BUILDING A LOT I

> NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

> > **ISSUE DATES**

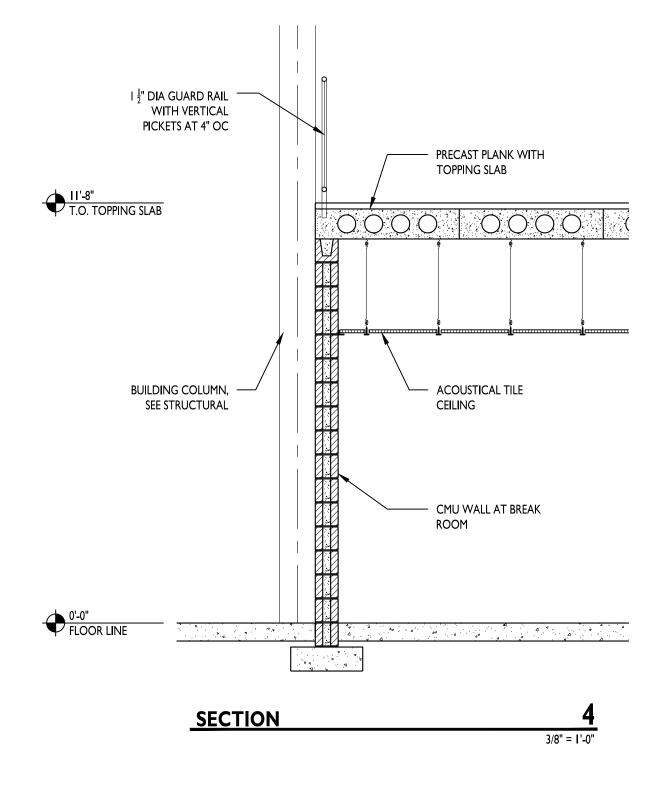
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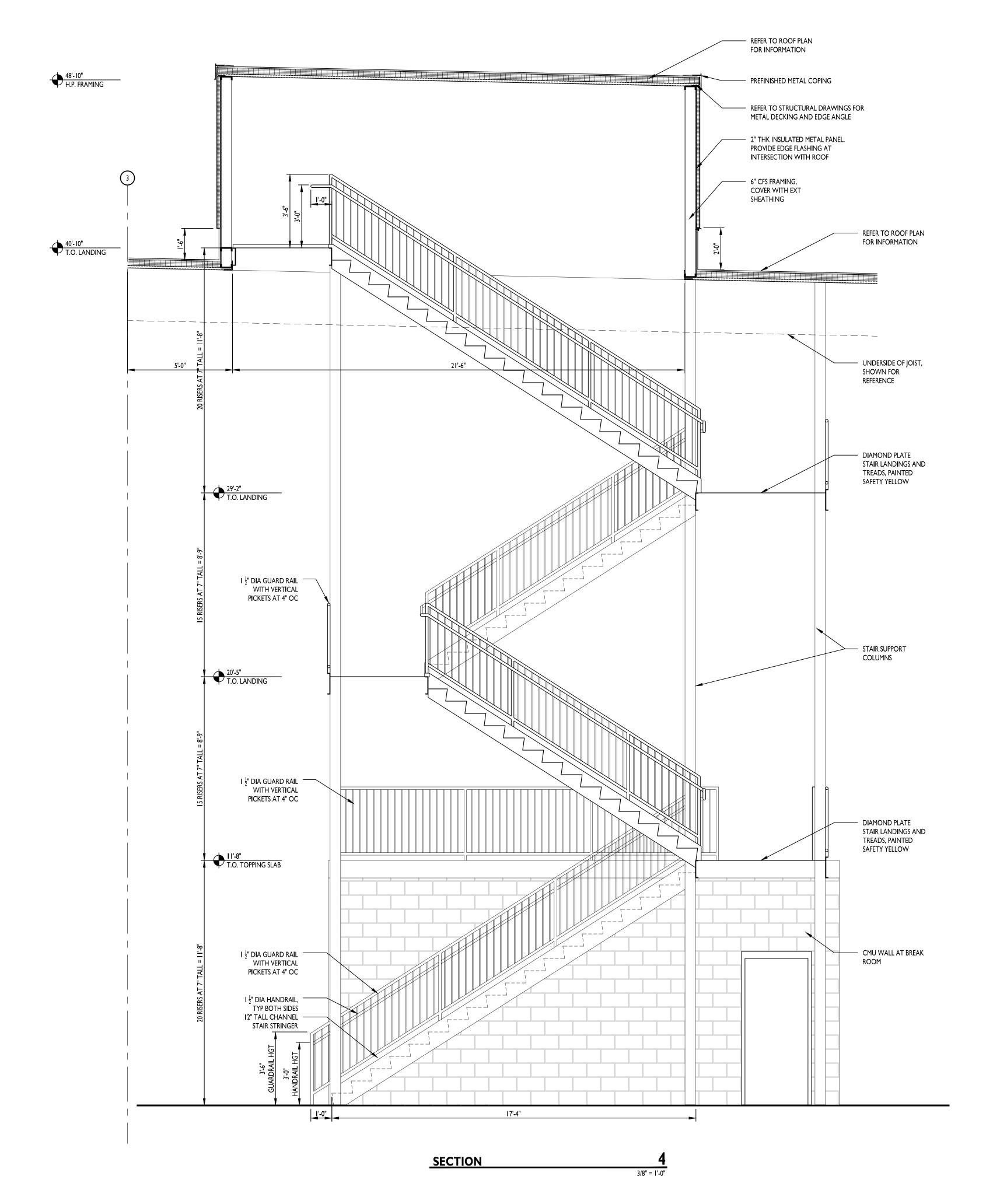
PERMIT SET



210300 SECTIONS AND DETAILS









210300 SECTIONS AND DETAILS



CURRAN

ARCHITECTURE

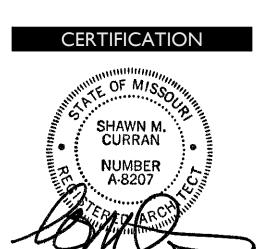
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LEE'S SUMMIT LOGISTICS

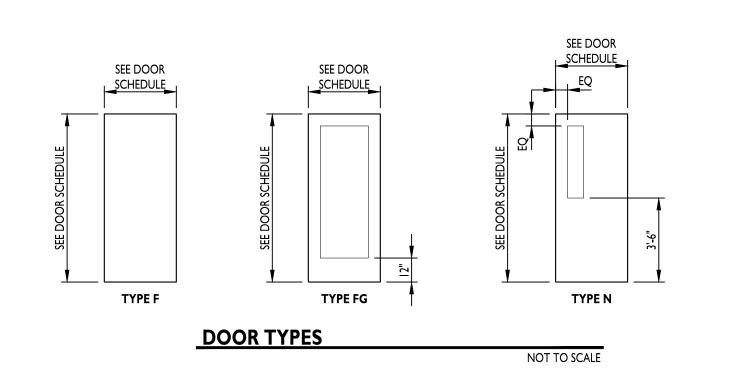
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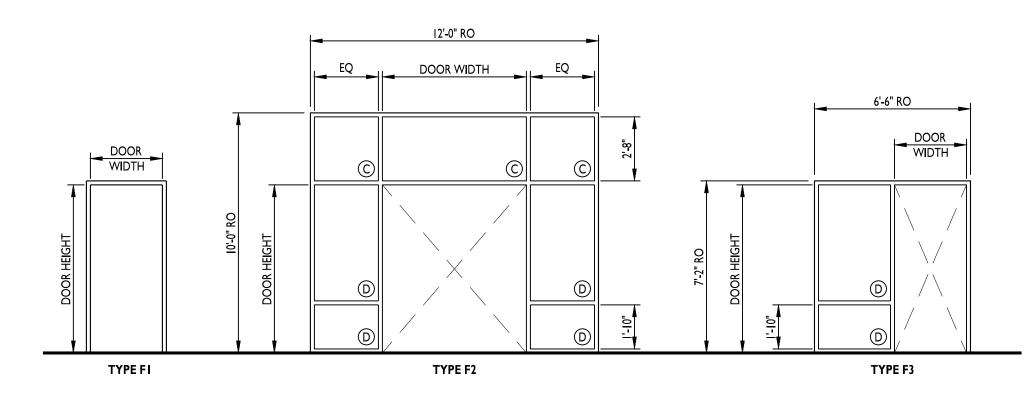
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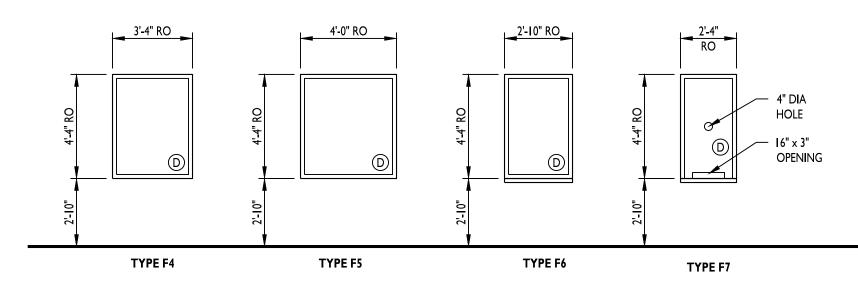
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02.18.22

PERMIT SET

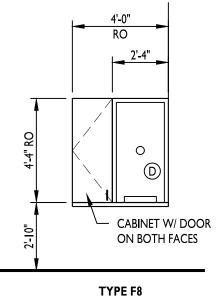






FRAME TYPES

NOT TO SCALE



DOOR SCHEDULE													
MARK	DOOR	SIZE	MATERIAL	GLAZING	FINISH	RATING	FRAME	MATERIAL	FINISH	RATING	HARDWARE	REMARKS	
101	FG	(2) 3-0 × 7-0	SCWD	D	PRE-FIN	-	F2	KD	PAINT	-	7		
102A	F	3-0 × 7-0	SCWD		PRE-FIN		FI	KD	PAINT	-	4		
I02B	-	-	-	-	-	-	F4	KD	PAINT	-	-		
103	F	3-0 × 7-0	SCWD		PRE-FIN		F3	KD	PAINT	-	4		
104	F	3-0 × 7-0	SCWD		PRE-FIN		F3	KD	PAINT	-	4		
105	F	3-0 × 7-0	SCWD		PRE-FIN		F3 (OH)	KD	PAINT	-	4		
107	F	3-0 × 7-0	SCWD		PRE-FIN		F3	KD	PAINT	-	5		
108	N	3-0 × 7-0	SCWD	D	PRE-FIN		FI	KD	PAINT	-	8		
110	F	3-0 × 7-0	SCWD	-	PRE-FIN	-	FI	KD	PAINT	-	6		
111	F	3-0 × 7-0	SCWD	-	PRE-FIN	-	FI	KD	PAINT	-	9		
IIIA	F	3-0 × 7-0	SCWD	-	PRE-FIN	-	FI	KD	PAINT	-	4		
II2A	F	3-0 × 7-0	SCWD	-	PRE-FIN	-	FI	KD	PAINT	-	8		
I I 2B	N	3-0 x 7-0	НМ	D	PAINT	-	FI	KD	PAINT	-	9		
II2C	-	-	-	-	-	-	F8	KD	PAINT	-	-		
II2D	-	-	-	-	-	-	F7	KD	PAINT	-	-		
I I 2E	-	-	-	-	-	-	F7	KD	PAINT	-	-		
I I 2F	-	-	-	-	-	-	F7	KD	PAINT	-	-		
II2G	-	-	-	-	-	-	F7	KD	PAINT	-	-		
I I2H	-	-	-	-	-	-	F7	KD	PAINT	-	-		
113	N	3-0 × 7-0	НМ	D	PAINT	-	FI	KD	PAINT	-	9		
114	F	3-0 × 7-0	SCWD	-	PRE-FIN	-	FI	KD	PAINT	-	4		
115A	N	3-0 × 7-0	SCWD	D	PRE-FIN		FI	KD	PAINT	-	8		
I 15B	N	3-0 × 7-0	SCWD	D	PRE-FIN		FI	KD	PAINT	-	8		
II6A	N	3-0 × 7-0	SCWD	D	PRE-FIN	-	FI W/ 4" HEAD	HM	PAINT	-	9		
I I6B	N	3-0 × 7-0	НМ	D	PAINT	-	FI W/ 4" HEAD	HM	PAINT	-	10		
II6C	N	3-0 × 7-0	НМ	D	PAINT	-	FI W/ 4" HEAD	HM	PAINT	-	10		
118	F	3-0 × 7-0	НМ	-	PAINT	-	FI	KD	PAINT	-	8		
119	-	-	-	-	-	-	FI	KD	PAINT	-			
120	F	3-0 x 7-0	НМ		PAINT	-	FI	KD	PAINT	-	8		
122	F	3-0 x 7-0	НМ		PAINT	-	FI	KD	PAINT	-	10		
125	F	(2)3-0 × 7-0	НМ		PAINT	-	FI	KD	PAINT	-	11		
126	F	3-0 x 7-0	НМ		PAINT	<u> </u>	FI	KD	PAINT	-	4		
127A	F	3-0 x 7-0	НМ		PAINT	<u> </u>	FI	KD	PAINT	-	12		
I 27B	-	-	-	-	-	-	F6	KD	PAINT	-			
128	F	3-0 x 7-0	НМ		PAINT	-	FI	KD	PAINT	-	6		
129A	F	3-0 x 7-0	НМ		PAINT	-	FI	KD	PAINT	-	12		
I 29B	<u> </u>	-	<u> </u>	-	_	-	F6	KD	PAINT	<u> </u>			
130	F	3-0 × 7-0	НМ		PAINT	-	FI	KD	PAINT	-	6		
200	F	3-0 x 7-0	INSUL STL		PAINT		FI	HM	PAINT		3		
201	F	3-0 x 7-0	INSUL STL		PAINT		FI	HM	PAINT		3		
300		3-0 × 7-0	INSUL STL	<u> </u>	PAINT	<u> </u>	FI	HM	PAINT	<u> </u>		~~~~~	



# GENERAL DOOR AND GLAZING NOTES

A. ALL PRE-FINISHED WOOD DOORS SHALL BE SOLID CORE WITH WOOD VENEER, MARSHFIELD OR EQUIVALENT. PROVIDE FINISH SAMPLE AND DOOR CONSTRUCTION DIAGRAM FOR APPROVAL AND HARDWARE BLOCKING COORDINATION. VENEER TO BE WHITE BIRCH OR MAPLE, FREE OF DARK GRAINS UNLESS OTHERWISE NOTED.

- B. WOOD DOORS SHALL ONLY BE INSTALLED IN CONDITIONED
- SPACE. C. ALL HARDWARE TO BE MINIMUM 6 PIN BEST COMPATIBLE SYSTEM. COORDINATE KEYING WITH OWNER.
- D. TEMPERED AND ANNEALED GLASS TO BE CLEANED PER MANUFACTURER REQUIREMENTS. NYLON CLOTH METHODS PREFERRED. DO NOT USE RAZOR BLADES ON GLASS.
- E. GLASS AROUND DOORS AND IN DOORS SHALL BE TEMPERED UNLESS OTHERWISE NOTED IN ELEVATIONS.
- F. ANY RATED DOORS TO HAVE LABEL INSTALLED IN JAMB.
- G. ALL EXITS DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009.
- H. INSTALL OWNER PROVIDED ADA COMPLIANT RESTROOM SIGNAGE, VERIFY WITH ARCHITECT.

# **GLAZING TYPES**

- A. SECTION OF GLAZING REQUIRED TO BE I" INSULATED GREY TINTED GLASS.
- B. SECTION OF GLAZING REQUIRED TO BE I" INSULATED TEMPERED GLASS.
- C. SECTION OF GLAZING REQUIRED TO BE I/4" GLASS.
- D. SECTION OF GLAZING REQUIRED TO BE I/4" TEMPERED GLASS.
  E. SECTION OF GLAZING REQUIRED TO BE I" INSULATED TEMPERED GREY TINTED SPANDREL GLASS.

EXTERIOR GLAZING MUST MEET THE FOLLOWING SPECIFICATIONS FOR ENERGY CODE COMPLIANCE:

LOW "E" COATING "U" VALUE - MINIMUM OF 0.28 "SHGC" VALUE - MAXIMUM OF 0.47

# DOOR HARDWARE

# <u>HARDWARE SET 2</u>

- HARDWARE SET I

   2
   CONTINUOUS HINGES
- 2 PANIC DEVICES
- I PERIMETER SEAL
- I THRESHOLD
- 2 SWEEPS
- 2 HD CLOSERS
- 2 PULLS
- FINISH: MATCH STOREFRONT

# HARDWARE SET 3

- 3 BALL BEARING HINGES
- I STOREROOM LOCKSET
- I THRESHOLD W/ DRAINAGE SUBSILL
- I SWEEP
- I HD CLOSER
- I DRIP TRIM
- FINISH: US26D

# HARDWARE SET 5

- 3 HINGES
- I PASSAGE SET 3 MUTES
- I DOOR STOP
- FINISH: US26D

# HARDWARE SET 7

- 6 HINGES
- 2 PUSH PULLS
- 2 MUTES
- 2 MAG LOCK (BY TENANT)
- 2 DOOR STOPS
- FINISH: US26D

# HARDWARE SET 9

- 3 HINGES
- I STOREROOM LOCKSET 3 MUTES
- I CLOSER
- ELECTRIC STRIKE (BY TENANT)
- I DOOR STOP
- FINISH: US26D

# HARDWARE SET II

- 6 HINGES
- I OFFICE LOCKSET
- 2 MUTES I PAIR FLUSH BOLTS
- I DOOR STOP
- FINISH: US26D

# 3 BALL BEARING HINGES

- I PANIC DEVICE W/ LEVER
- I PERIMETER SEAL THRESHOLD W/ DRAINAGE SUBSILL
- I SWEEP
- I HD CLOSER
- I DRIP TRIM FINISH: US26D

# HARDWARE SET 4

- 3 HINGES
- I OFFICE LOCKSET
- 3 MUTES
- I DOOR STOP

FINISH: US26D

# HARDWARE SET 6

- 3 HINGES
- I PRIVACY LOCKSET 3 MUTES
- I CLOSER
- I DOOR STOP
- FINISH: US26D

# HARDWARE SET 8

- 3 HINGES
- I PASSAGE SET 3 MUTES
- I CLOSER
- I DOOR STOP
- FINISH: US26D

# HARDWARE SET 10

- 3 HINGES
- I PUSH PULL
- 3 MUTES
- I CLOSER
- FINISH: US26D

# HARDWARE SET 12

- 3 HINGES
- I EXIT DEVICE
- 3 MUTES I CLOSER
- I ELECTRIC STRIKE (BY TENANT)
- I DOOR STOP



CURRAN

ARCHITECTURE

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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS

BUILDING A LOT I

NW CORNER OF

NE TUDOR RD & MAIN ST

LEE'S SUMMIT, MO 64086

ISSUE DATES

210300

INTERIOR

DOOR SCHEDULE

A602

02.18.22

06. 4.22

PERMIT SET

					M	ATERI	ALS S	CHEDU	JLE	
MARK	MATERIAL	MA	NUFACTUR	ER	COLOR	PATTERN	/ TEXTURE	NUMBE	R	REMARKS
S-1	SEALED CONCRETE		ASHFORD	CLEAR		CURE-N-SEAL				
CPT-I	CARPET TILE		MOHAWK	TBD		UNCHARTED	SOLVE II	BT416		
CPT-2	CARPET TILE		MOHAWK	TBD		STEP IN STYLE	EII	QL312		
T-I	WALL TILE		DALTILE	TBD		COLOR WHE LINE 3X6 RUN		TBD		PROVIDE SHLUTER S FLOOR/WALL INTER
T-2	FLOOR TILW		DALTILE	TBD		IRONCRAFT	12X24	TBD		
B-I	BASE	JOHN	sonite tark	ETT TBD		4" COVE		TBD		
P-I	PAINT	SHE	RWIN WILLIA	MS TBD		EGGSHELL		TBD		
P-2	PAINT	SHE	RWIN WILLIA	MS TBD		EGGSHELL		TBD		
P-3	PAINT	SHE	RWIN WILLIA	MS TBD		EGGSHELL		TBD		
P-4	PAINT	SHE	RWIN WILLIA	MS MATCH E	BASE COLOR	SEMI GLOSS		TBD		INTERIOR DOOR FR
FRP-1	FIBERGLASS REINFORCE PLASTIC	D	TBD	TBD		SMOOTH FIN	ISH	TBD		
PL-I	PLASTIC LAMINATE		TBD	TBD			4	TBD		
PL-2	PLASTIC LAMINATE		TBD	TBD			4	TBD		
SS-1	SOLID SURFACE		TBD	TBD		TBD		TBD		GRADE C PRICE
ACT-I	ACOUSTICAL CEILING TI	LE	ARMSTRONG	WHITE		CORTEGA 2nd	d LOOK	2767		
				•	RO	OM FI	NISH	SCHED	ULE	
ROOM #	ROOM NAME	FLOORING	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CABINETS / COUNTERTOPS	CEILING MAT	Γ/
101	LOBBY	CPT-2	B-I	P-I	P-I	P-I	P-I		ACT-1/9-8	
102	OFFICE	CPT-I	B-I	P-2	P-I	P-I	P-I		ACT-1/9-8	
103	OFFICE	CPT-I	B-I	P-2	P-I	P-I	P-I		ACT-1/9-8	
104	OFFICE	CPT-I	B-I	P-2	P-I	P-I	P-I		ACT-1/9-8	
105	VISITOR OFFICE	CPT-I	B-I	P-2	P-I	P-I	P-I		ACT-1/9-8	
106	OPEN OFFICE	CPT-I	B-I	P-I	P-I	P-I	P-I		ACT-1/9-8	
107	CONF ROOM	CPT-I	B-I	P-3	P-3	P-3	P-3		ACT-1/9-8	
108	HALL	CPT-I	B-I	P-I	P-I	P-I	P-I		ACT-1/9-8	
109	COPY / PRINT	CPT-I	B-I	P-I	P-I	P-I	P-I	PL-1/PL-2	ACT-1/9-8	
110	TLT	T-2		T-1/P-3	T-1/P-3	T-1/P-3	T-1/P-3		ACT-1/9-8	T-I TO 5'-0" AFF
111	SERVER	SC-I	B-I	P-I	P-I	P-I	P-I		ACT-1/9-8	
112	SHARED OFFICE	CPT-I	B-I	P-I	P-2	P-I	P-I		ACT-1/9-8	
113	HALL	CPT-2	B-I	P-1	P-2	P-I	P-I	-	ACT-1/9-8	
114	STOR	CPT-I	B-I	P-1	P-I	P-I	P-I	-	ACT-1/9-8	
115	TRAINING ROOM	CPT-I	B-I	P-1	P-2	P-I	P-I	-	ACT-1/9-8	
116	BREAK ROOM	SC-I		P-1	P-I	P-I	P-I	PL-1/SS-1	ACT-1/9-8	
117	LOCKER ROOM	SC-I	B-I	P-2	P-I	P-I	P-I	-	ACT-1/9-8	
118	MEN	SC-I	B-1*	P-2	T-1/P-1	T-1/P-1	T-1/P-1	-	ACT-1/9-8	B-I ON NON TIL
119	HALL	SC-I	B-I	P-1	P-I	P-I	P-I		ACT-1/9-8	
120	WASHER / DRYER	SC-I	B-I	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1		ACT-1/9-8	FRP-I TO 4'-0" AI
121	LOCKER ROOM	SC-I	B-I	P-I	P-I	P-2	P-I		ACT-1/9-8	
122	WOMEN	SC-I	B-I*	T-1/P-1	T-I/P-I	P-2	T-I/P-I		ACT-1/9-8	B-I ON NON TIL
125	MAINT SHOP	SC-I	B-I	P-I	P-I	P-I	P-I		ACT-1/9-8	
126	MAINT OFFICE	SC-I	B-I	P-I	P-I	P-I	P-I		ACT-1/9-8	
127	DRIVER LOUNGE	SC-I	B-I	P-I	P-I	P-I	P-I	PL-I	ACT-1/9-8	
128	TLT	SC-I	B-I	FRP-1/P-1	FRP-I/P-I	FRP-I/P-I	FRP-I/P-I		ACT-1/9-8	FRP-I TO 4'-0" A
129	DRIVER LOUNGE	SC-I	B-I	FRP-1/P-1	FRP-I/P-I	FRP-I/P-I	FRP-I/P-I		ACT-1/9-8	
130	TLT	SC-I	B-I	FRP-I/P-I	FRP-I/P-I	FRP-I/P-I	FRP-I/P-I		ACT-1/9-8	FRP-I TO 4'-0" AI
130		JC-1	۱-u 			<b>-</b>    f=			//////////////////////////////////	

	— В.
STRIP AT TOP EDGE, AND SCHLUTER SANITARY COVE AT RSECTION	—— C. —— D.
	D.
	E.
	— F.
AMES AND HOLLOW METAL DOORS	
	G.
	н.
	I. J.
	J.
	К.
REMARKS	L.
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FF AND P-I TO CEILING	
LED WALLS ONLY, T-I TO 5'-0" AFF AND P-I TO CEILING	
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# GENERAL FINISH NOTES

- A. PROCEEDING WITH THE INSTALLATION OF FINISHES WILL BE CONSTRUED THAT THE INSTALLER AND/OR FINISHER HAS INSPECTED AND ACCEPTED THE SUBSTRATE FOR RECEIVING THE WORK. NO CHANGE ORDER WILL BE ISSUED TO RECTIFY CONCEALED, UNKNOWN CONDITIONS OR UNSATISFACTORY SUBSTRATE ONCE THE FINISH WORK HAS PROCEEDED.
- USE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.
- C. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY IF A SPECIFIED FINISH ITEM BECOMES UNAVAILABLE.
- D. CONTRACTOR TO SUBMIT SHOP DRAWINGS, FLOORING TRANSITION/GRAPHIC LOCATIONS AND SUBMITTALS OF ALL INTERIOR ITEMS AND FINISH MATERIALS TO ARCHITECT REVIEW PRIOR TO PLACING ANY MATERIAL ORDERS. CONTRACTOR MUST ACCOUNT FOR SUBMITTAL REVIEW, ORDERING AND DELIVERY WHEN SCHEDULING PRODUCT INSTALLATION.
- USE SUBFLOOR REDUCER STRIPS (UNDER FLOORING) TO LEVEL MATERIALS OF UNEQUAL HEIGHTS.
- PROVIDE JOHNSONITE SLIM-LINE TRANSITION STRIPS WHERE FLOORING MATERIALS OF UNEQUAL THICKNESS MEET. TRANSITION STRIPS AT DOORS TO BE LOCATED UNDER THE CENTERLINE OF THE DOOR IN CLOSED POSITION. COLOR OF TRANSITION STRIPS TO BE SELECTED BY ARCHITECT.
- G. ALL WALL TILE TO BE INSTALLED TO FLOOR WITH NO BASE UNLESS NOTED OTHERWISE.
- H. ANY GRILLES, FIRE EXTINGUISHER CABINETS, ETC., TO BE PAINTED TO MATCH WALL COLOR ON WHICH THEY OCCUR.
- PROVIDE OWNER WITH A MINIMUM OF ONE FULL BOX OR 2% OF EACH FINISH PRODUCT/MATERIAL SPECIFIED ON THE PROJECT.
- J. ALL WOODWORK/MILLWORK SHALL CONFORM TO THE QUALITY STANDARDS OF ARCHITECTURAL WOODWORK INSTITUTE (AWI) PREMIUM GRADE. FABRICATOR SHALL BE FAMILIAR WITH AWI STANDARDS.
- K. FABRICATE WOODWORK/MILLWORK ITEMS TO ACTUAL FIELD DIMENSIONS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, SAMPLES, AND/OR MATERIAL LITERATURE FOR ALL ITEMS. SHOP DRAWINGS SHALL SHOW SUFFICIENT DETAIL TO DETERMINE COMPLIANCE WITH THE QUALITY STANDARDS AND DESIGN INTENT.
- L. PROVIDE ALL NECESSARY FURRING AND GROUNDS FOR WOODWORK AND FINISH ITEMS. COORDINATE LOCATION OF BLOCKING WITHIN WALLS FOR ITEMS TO BE SECURED TO SURFACE. ALL FASTENERS SHALL BE CONCEALED.
- M. FINISH ALL SIDES AND BACK OF MILLWORK/CASEWORK.
   N. ALL COUNTERTOPS TO BE I <sup>1</sup>/<sub>2</sub>" THICK WITH A SQUARE EDGE, UNLESS OTHERWISE NOTED. PROVIDE COUNTER SUPPORTS AS
- UNLESS OTHERWISE NOTED. PROVIDE COUNTER SUPPORTS AS REQUIRED.O. PROVIDE GROMMETS IN COUNTERTOPS ABOVE RECEPTACLES.
- COLOR TO MATCH COUNTER SURFACE. COORDINATE WITH OWNER AND ARCHITECT ON FINAL LOCATION AND SIZE OF GROMMETS BEFORE INSTALLATION.
- P. REFER TO FINISH SCHEDULE, INTERIOR ELEVATIONS AND SPECIFICATIONS FOR ALL MATERIAL INFORMATION AND LOCATIONS.



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# PROJECT INFORMATION

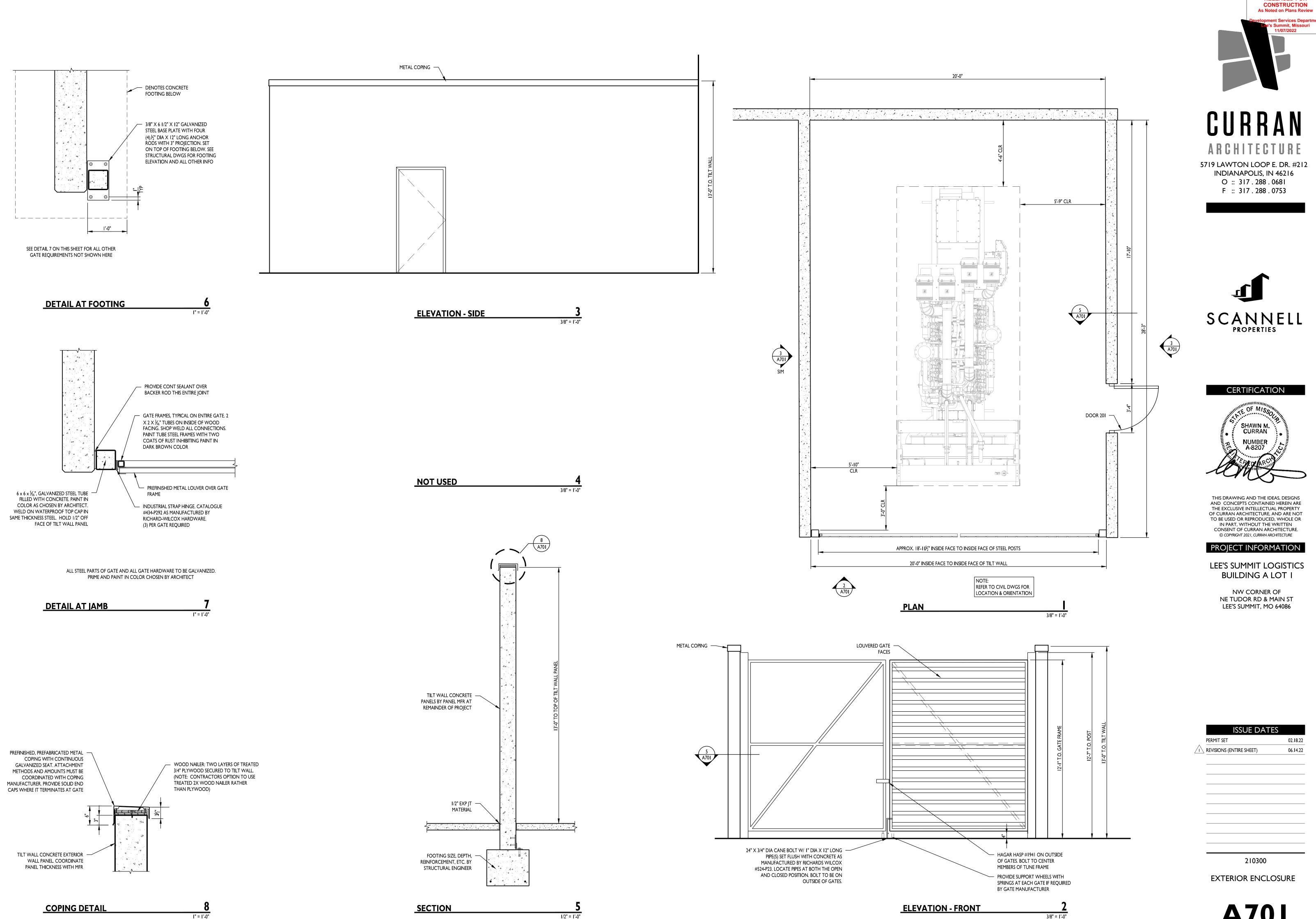
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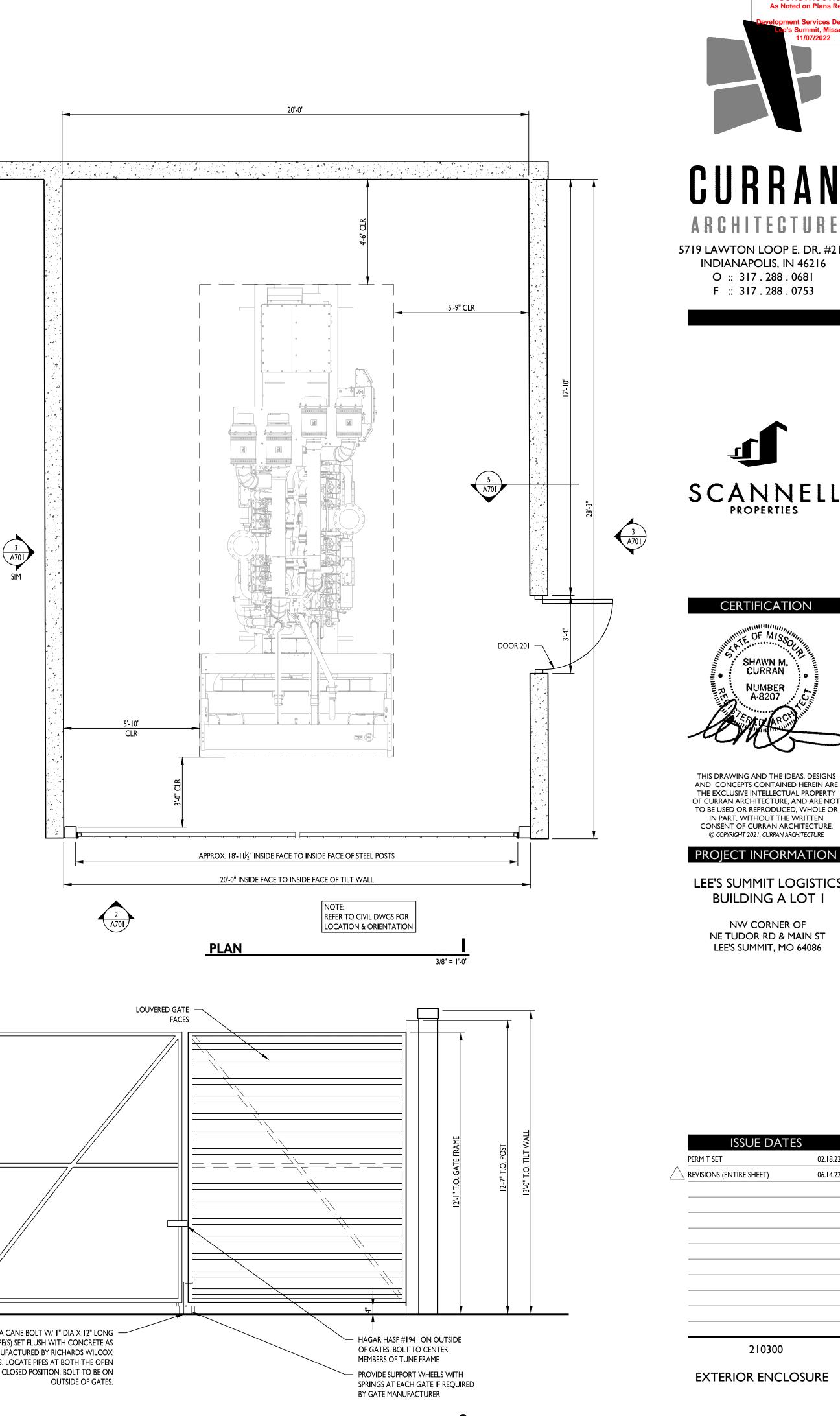
> NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

ISSUE DATESPERMIT SET02.18.22

210300 FINISH SCHEDULE

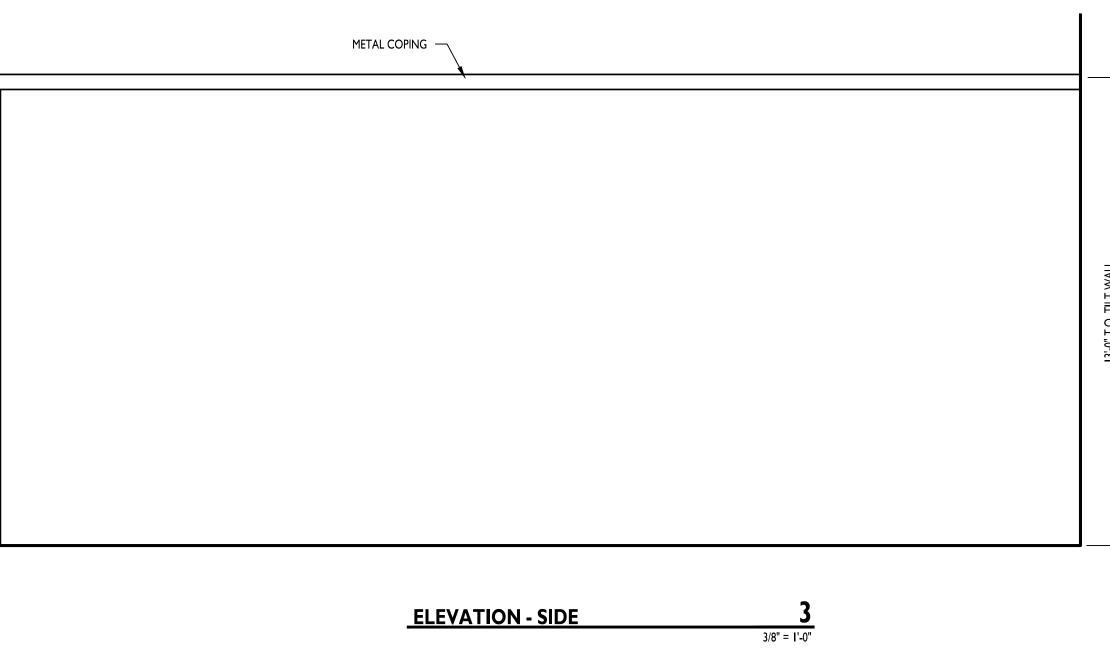


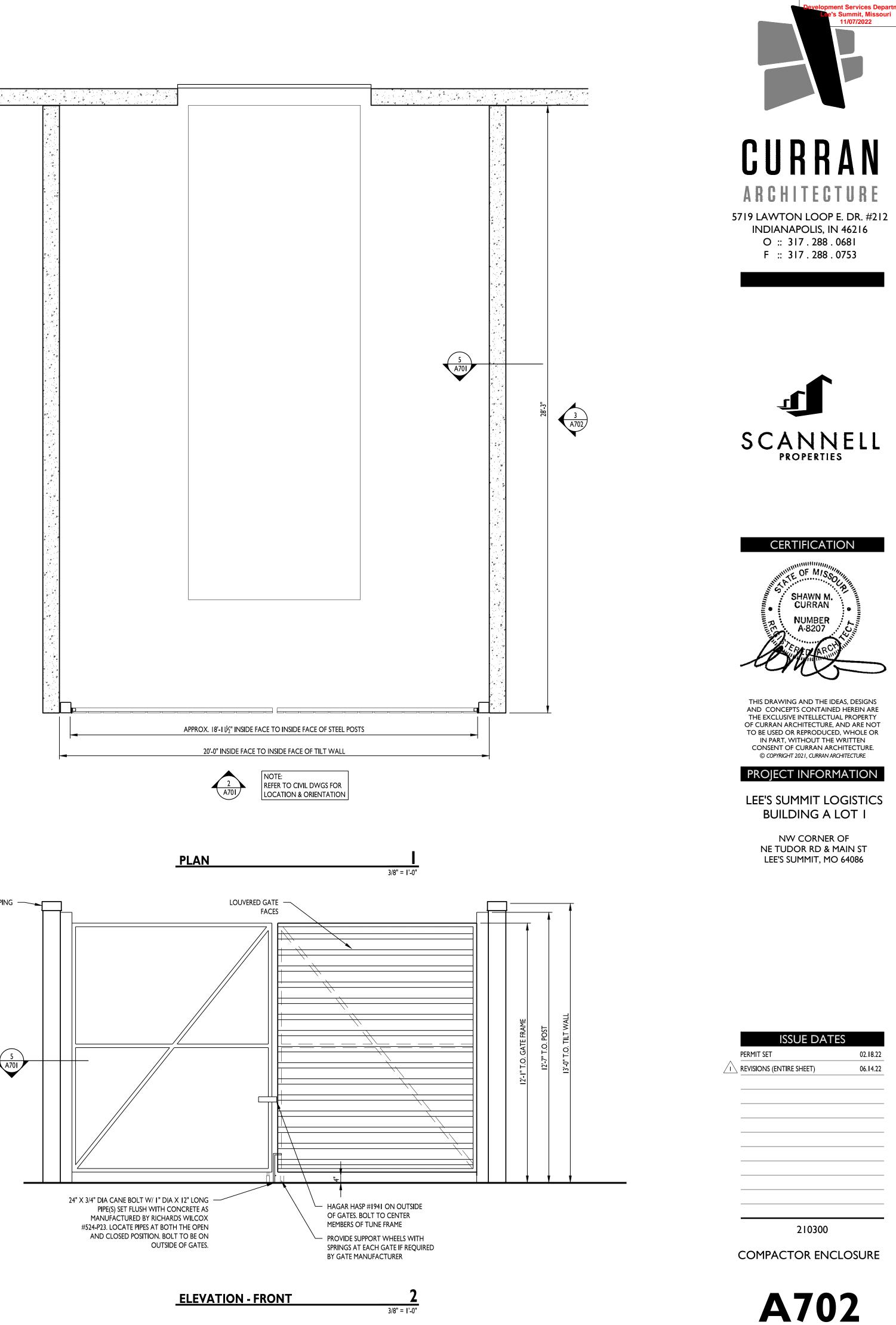




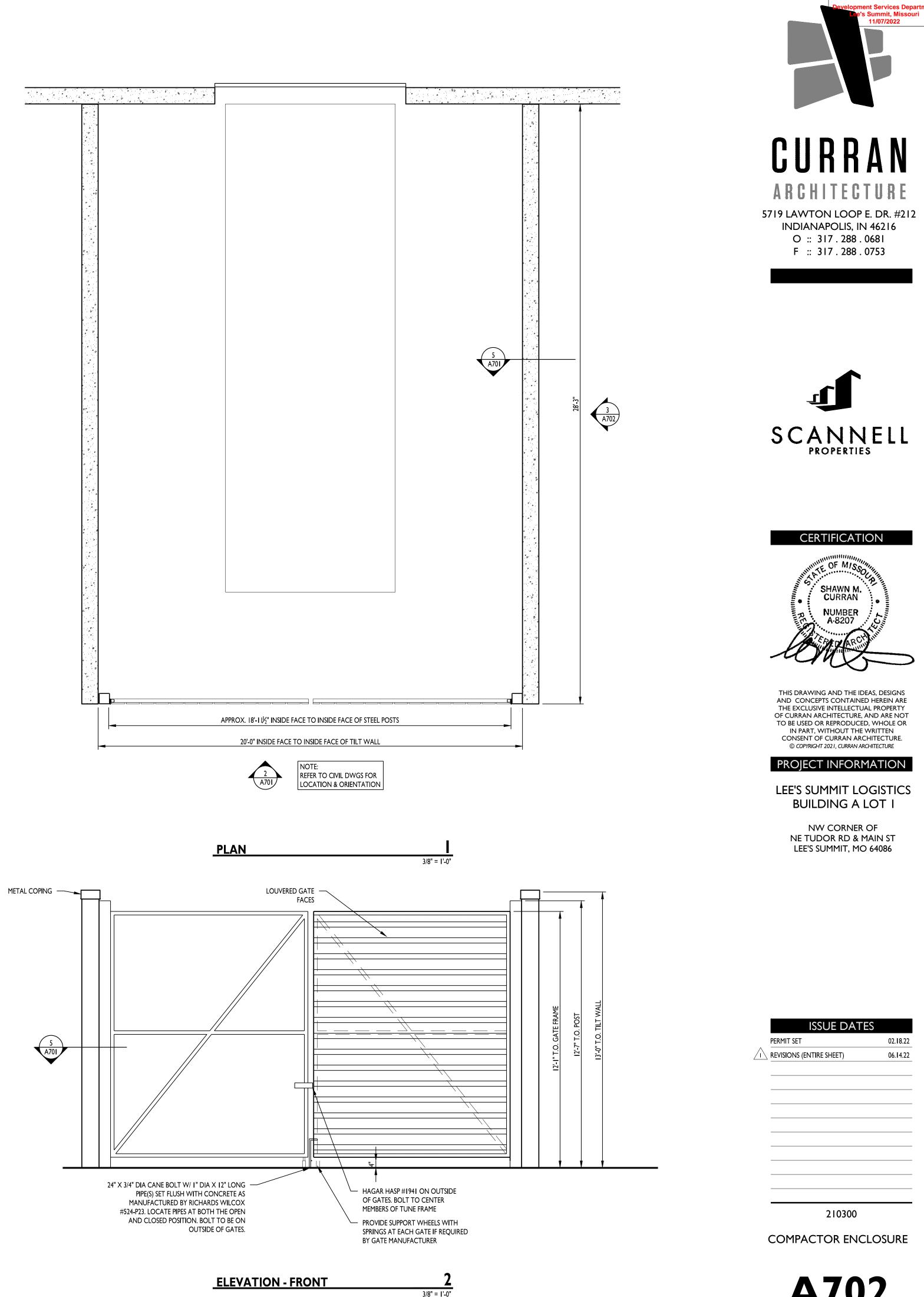
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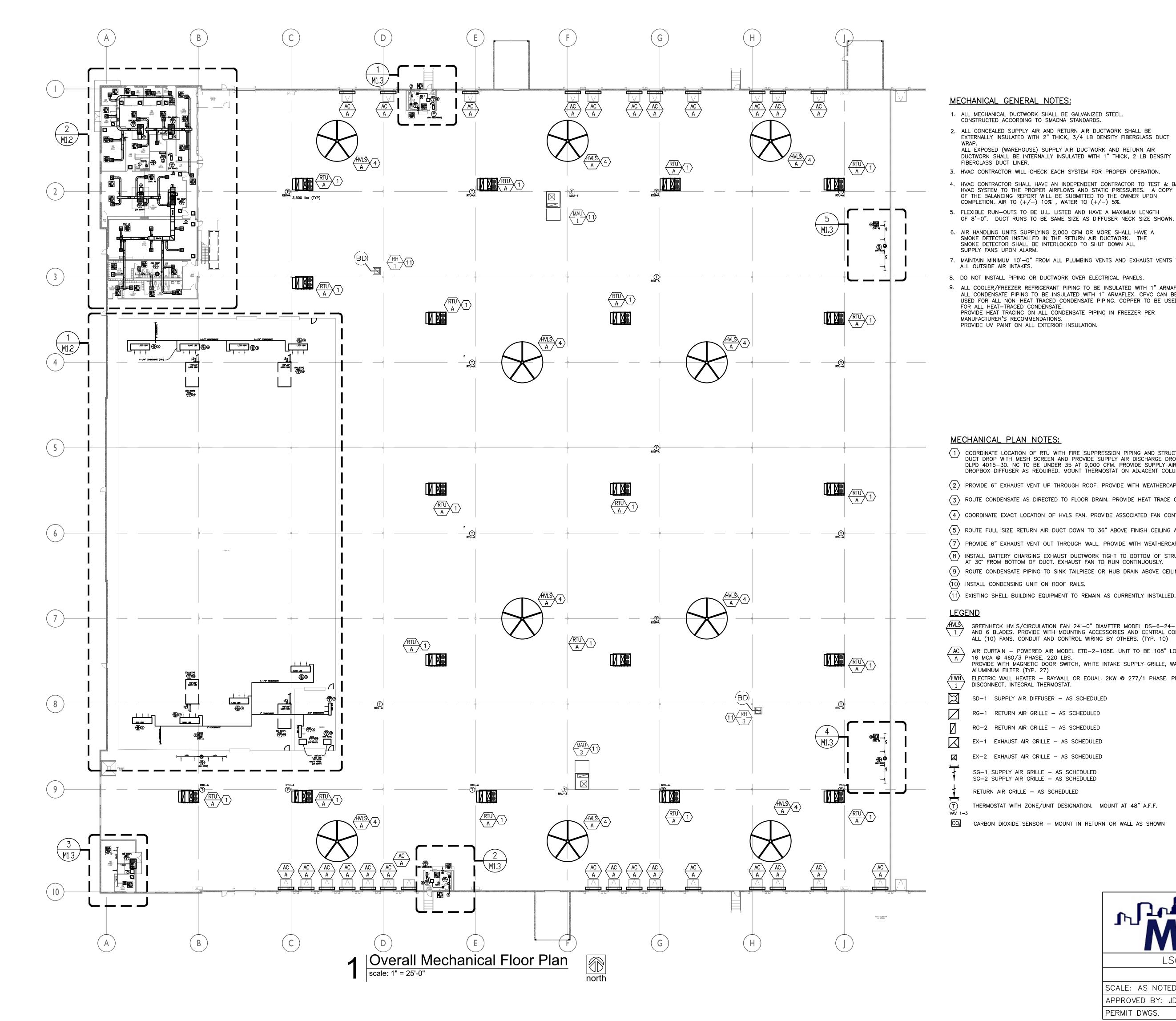
RELEASED FOR





RELEASED FOR CONSTRUCTION As Noted on Plans Review





### **MECHANICAL GENERAL NOTES:**

1. ALL MECHANICAL DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTED ACCORDING TO SMACNA STANDARDS.

2. ALL CONCEALED SUPPLY AIR AND RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 2" THICK, 3/4 LB DENSITY FIBERGLASS DUCT

ALL EXPOSED (WAREHOUSE) SUPPLY AIR DUCTWORK AND RETURN AIR DUCTWORK SHALL BE INTERNALLY INSULATED WITH 1" THICK, 2 LB DENSITY

3. HVAC CONTRACTOR WILL CHECK EACH SYSTEM FOR PROPER OPERATION. 4. HVAC CONTRACTOR SHALL HAVE AN INDEPENDENT CONTRACTOR TO TEST & BALANCE HVAC SYSTEM TO THE PROPER AIRFLOWS AND STATIC PRESSURES. A COPY OF THE BALANCING REPORT WILL BE SUBMITTED TO THE OWNER UPON COMPLETION. AIR TO (+/-) 10%, WATER TO (+/-) 5%. 5. FLEXIBLE RUN-OUTS TO BE U.L. LISTED AND HAVE A MAXIMUM LENGTH

6. AIR HANDLING UNITS SUPPLYING 2,000 CFM OR MORE SHALL HAVE A SMOKE DETECTOR INSTALLED IN THE RETURN AIR DUCTWORK. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO SHUT DOWN ALL

7. MAINTAIN MINIMUM 10'-0" FROM ALL PLUMBING VENTS AND EXHAUST VENTS TO

8. DO NOT INSTALL PIPING OR DUCTWORK OVER ELECTRICAL PANELS. 9. ALL COOLER/FREEZER REFRIGERANT PIPING TO BE INSULATED WITH 1" ARMAFLEX. ALL CONDENSATE PIPING TO BE INSULATED WITH 1" ARMAFLEX. CPVC CAN BE USED FOR ALL NON-HEAT TRACED CONDENSATE PIPING. COPPER TO BE USED FOR ALL HEAT-TRACED CONDENSATE. PROVIDE HEAT TRACING ON ALL CONDENSATE PIPING IN FREEZER PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE UV PAINT ON ALL EXTERIOR INSULATION.



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CERTIFICATION

### MECHANICAL PLAN NOTES:

(1) COORDINATE LOCATION OF RTU WITH FIRE SUPPRESSION PIPING AND STRUCTURE. PROVIDE INTERNALLY LINED RETURN AIR DUCT DROP WITH MESH SCREEN AND PROVIDE SUPPLY AIR DISCHARGE DROP BOX DIFFUSER SIMILAR TO CURBS PLUS DLPD 4015-30. NC TO BE UNDER 35 AT 9,000 CFM. PROVIDE SUPPLY AIR TRANSITION FROM RTU OPENING TO DROPBOX DIFFUSER AS REQUIRED. MOUNT THERMOSTAT ON ADJACENT COLUMN.

 $\langle 2 \rangle$  provide 6" exhaust vent up through roof. Provide with weathercap.

 $\langle 3 \rangle$  route condensate as directed to floor drain. Provide heat trace on all freezer condensate piping.

 $\langle 4 
angle$  coordinate exact location of HVLS fan. Provide associated fan controller on adjacent column.

 $\overline{(5)}$  ROUTE FULL SIZE RETURN AIR DUCT DOWN TO 36" ABOVE FINISH CEILING AND PROVIDE WITH SCREENED MESH OPENING.  $\langle 7 \rangle$  provide 6" exhaust vent out through wall. Provide with weathercap.

(8) INSTALL BATTERY CHARGING EXHAUST DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. PROVIDE EXHAUST GRILLES AS NOTED AT 30° FROM BOTTOM OF DUCT. EXHAUST FAN TO RUN CONTINUOUSLY.

 $\langle 9 \rangle$  route condensate piping to sink tailpiece or hub drain above ceiling furnished by plumber

 $\langle 10 \rangle$  INSTALL CONDENSING UNIT ON ROOF RAILS.

 $\langle 11 \rangle$  existing shell building equipment to remain as currently installed.

GREENHECK HVLS/CIRCULATION FAN 24'–O" DIAMETER MODEL DS–6–24–170HV – 2HP, 460/3 PHASE, 250 LBS AND 6 BLADES. PROVIDE WITH MOUNTING ACCESSORIES AND CENTRAL CONTROL PANEL WITH BACNET INTERFACE FOR ALL (10) FANS. CONDUIT AND CONTROL WIRING BY OTHERS. (TYP. 10)

AIR CURTAIN – POWERED AIR MODEL ETD-2-108E. UNIT TO BE 108" LONG WITH 10 KW ELECTRIC HEATING. 16 MCA @ 460/3 PHASE, 220 LBS. PROVIDE WITH MAGNETIC DOOR SWITCH, WHITE INTAKE SUPPLY GRILLE, WALL MOUNTED THERMOSTAT AND WASHABLE ALUMINUM FILTER (TYP. 27) ELECTRIC WALL HEATER - RAYWALL OR EQUAL. 2KW @ 277/1 PHASE. PROVIDE WITH RECESS MOUNTING FRAME, DISCONNECT, INTEGRAL THERMOSTAT.

SD-1 SUPPLY AIR DIFFUSER - AS SCHEDULED

RG-1 RETURN AIR GRILLE - AS SCHEDULED

RG-2 RETURN AIR GRILLE - AS SCHEDULED

EX-1 EXHAUST AIR GRILLE - AS SCHEDULED

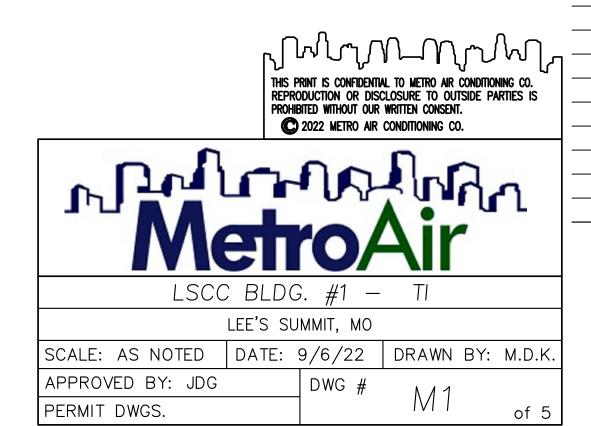
EX-2 EXHAUST AIR GRILLE - AS SCHEDULED

SG-1 SUPPLY AIR GRILLE - AS SCHEDULED SG-2 SUPPLY AIR GRILLE - AS SCHEDULED

RETURN AIR GRILLE – AS SCHEDULED

THERMOSTAT WITH ZONE/UNIT DESIGNATION. MOUNT AT 48" A.F.F.

CARBON DIOXIDE SENSOR - MOUNT IN RETURN OR WALL AS SHOWN



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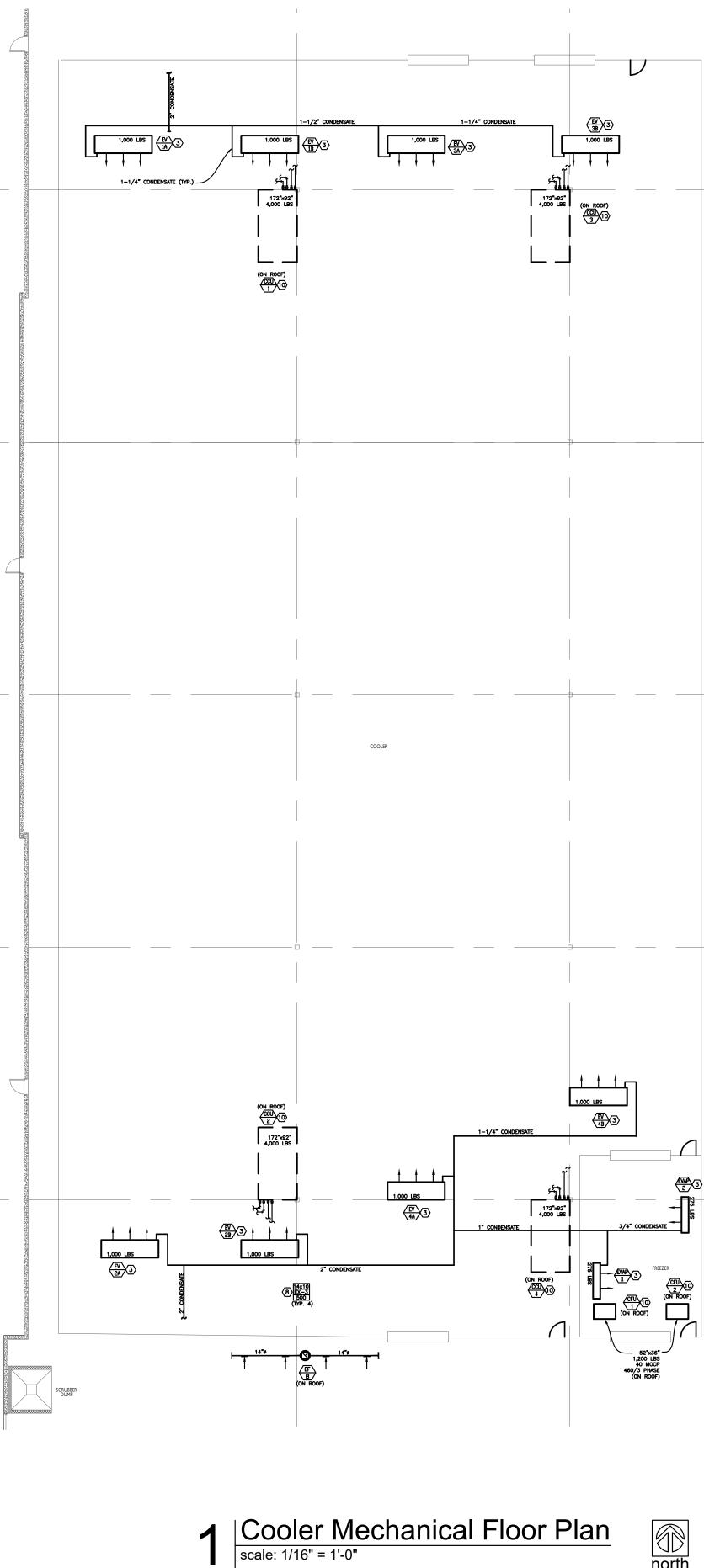
LEE'S SUMMIT LOGISTICS BUILDING A LOT I

ROJECT INFORMATION

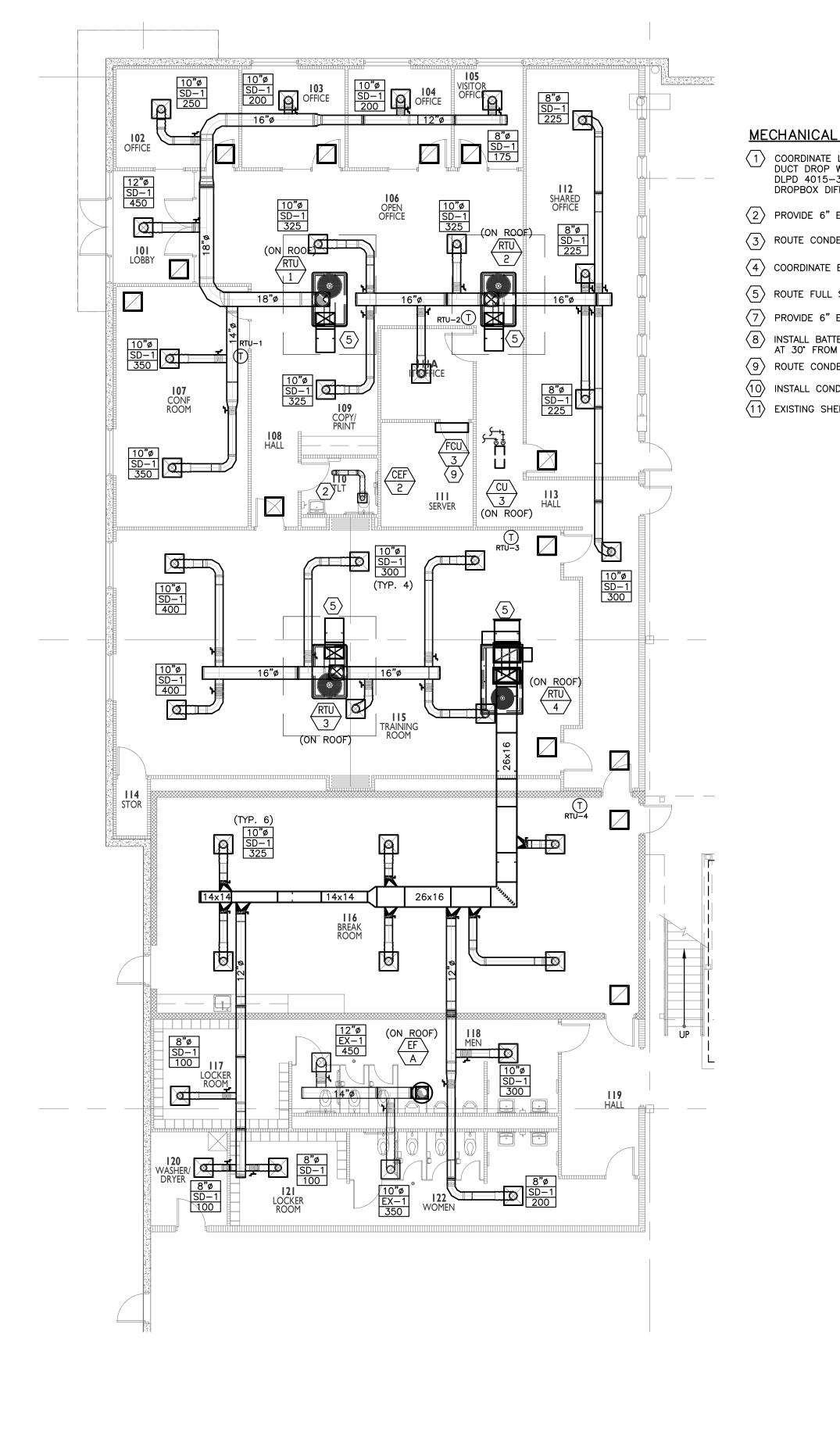
NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

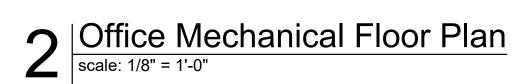


ISSUE DATES PERMIT SET 04.21.22











# MECHANICAL PLAN NOTES:

(1) COORDINATE LOCATION OF RTU WITH FIRE SUPPRESSION PIPING AND STRUCTURE. PROVIDE INTERNALLY LINED RETURN AIR DUCT DROP WITH MESH SCREEN AND PROVIDE SUPPLY AIR DISCHARGE DROP BOX DIFFUSER SIMILAR TO CURBS PLUS DLPD 4015-30. NC TO BE UNDER 35 AT 9,000 CFM. PROVIDE SUPPLY AIR TRANSITION FROM RTU OPENING TO DROPBOX DIFFUSER AS REQUIRED. MOUNT THERMOSTAT ON ADJACENT COLUMN.

 $\langle 2 \rangle$  provide 6" exhaust vent up through roof. Provide with weathercap.

 $\langle 3 \rangle$  ROUTE CONDENSATE AS DIRECTED TO FLOOR DRAIN. PROVIDE HEAT TRACE ON ALL FREEZER CONDENSATE PIPING.

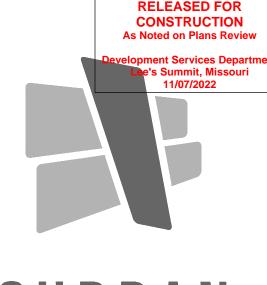
 $\langle 4 \rangle$  coordinate exact location of HVLS fan. Provide associated fan controller on adjacent column.

 $\langle 5 \rangle$  ROUTE FULL SIZE RETURN AIR DUCT DOWN TO 36" ABOVE FINISH CEILING AND PROVIDE WITH SCREENED MESH OPENING.  $\langle 7 \rangle$  provide 6" exhaust vent out through wall. provide with weathercap.

INSTALL BATTERY CHARGING EXHAUST DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. PROVIDE EXHAUST GRILLES AS NOTED AT 30° FROM BOTTOM OF DUCT. EXHAUST FAN TO RUN CONTINUOUSLY.  $\langle 9 \rangle$  route condensate piping to sink tailpiece or hub drain above ceiling furnished by plumber

 $\langle 10 \rangle$  INSTALL CONDENSING UNIT ON ROOF RAILS.

 $\langle 11 \rangle$  existing shell building equipment to remain as currently installed.



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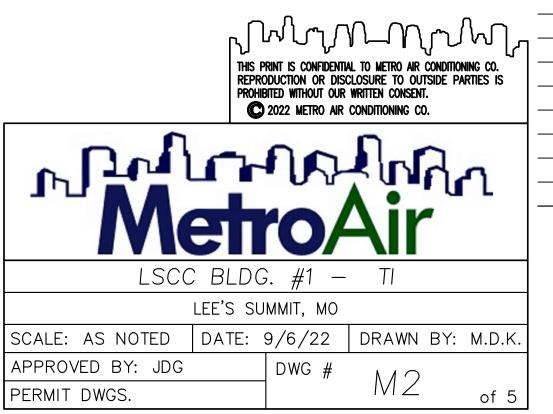
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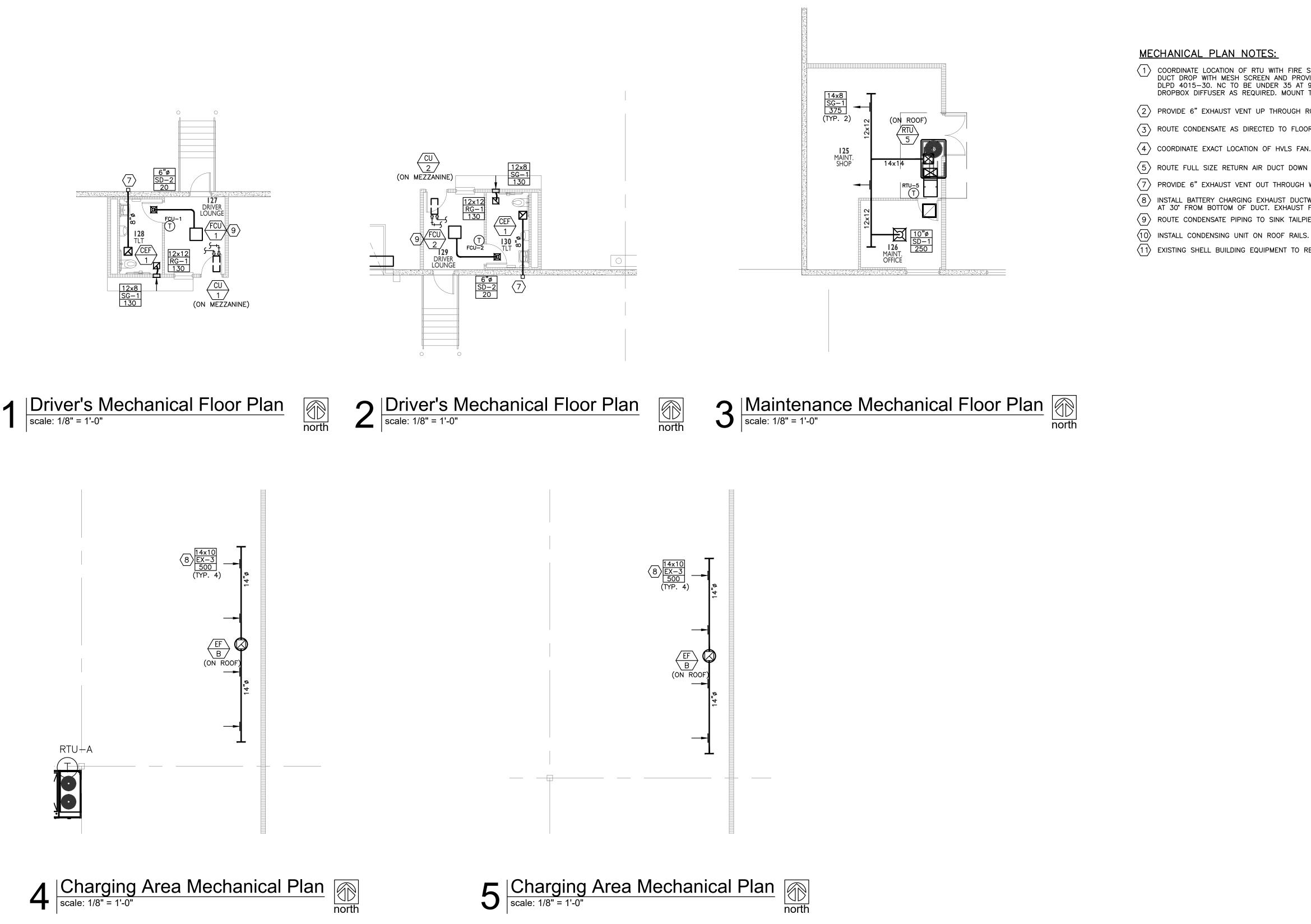
**ROJECT INFORMATION** 

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086



ISSUE DATES PERMIT SET 04.21.22





(1) COORDINATE LOCATION OF RTU WITH FIRE SUPPRESSION PIPING AND STRUCTURE. PROVIDE INTERNALLY LINED RETURN AIR DUCT DROP WITH MESH SCREEN AND PROVIDE SUPPLY AIR DISCHARGE DROP BOX DIFFUSER SIMILAR TO CURBS PLUS DLPD 4015-30. NC TO BE UNDER 35 AT 9,000 CFM. PROVIDE SUPPLY AIR TRANSITION FROM RTU OPENING TO DROPBOX DIFFUSER AS REQUIRED. MOUNT THERMOSTAT ON ADJACENT COLUMN.

 $\langle 2 \rangle$  provide 6" exhaust vent up through roof. Provide with weathercap.

 $\overline{3}$  ROUTE CONDENSATE AS DIRECTED TO FLOOR DRAIN. PROVIDE HEAT TRACE ON ALL FREEZER CONDENSATE PIPING.

 $\langle 4 \rangle$  coordinate exact location of HVLS fan. Provide associated fan controller on adjacent column.

 $\langle 5 \rangle$  ROUTE FULL SIZE RETURN AIR DUCT DOWN TO 36" ABOVE FINISH CEILING AND PROVIDE WITH SCREENED MESH OPENING.  $\langle 7 \rangle$  provide 6" exhaust vent out through wall. Provide with weathercap.

(8) INSTALL BATTERY CHARGING EXHAUST DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. PROVIDE EXHAUST GRILLES AS NOTED AT 30° FROM BOTTOM OF DUCT. EXHAUST FAN TO RUN CONTINUOUSLY.

 $\langle 9 \rangle$  ROUTE CONDENSATE PIPING TO SINK TAILPIECE OR HUB DRAIN ABOVE CEILING FURNISHED BY PLUMBER

 $\langle 11 \rangle$  EXISTING SHELL BUILDING EQUIPMENT TO REMAIN AS CURRENTLY INSTALLED.



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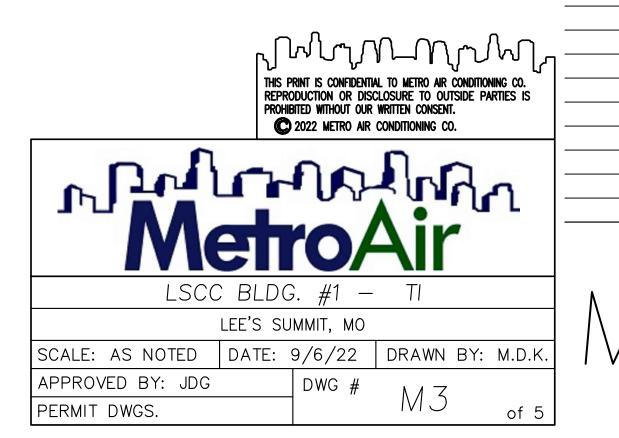
LEE'S SUMMIT LOGISTICS BUILDING A LOT I

**PROJECT INFORMATION** 

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086



ISSUE DATES PERMIT SET 04.21.22



### SECTION 1500 - MECHANICAL GENERAL PROVISIONS

### 1.1 DESCRIPTION:

- A. Division 15 shall be governed by all applicable provisions of the Contract Documents. The Mechanical Contractor shall furnish, install and connect all materials, equipment, apparatus, mechanical systems and incidentals required for complete and working installation. The Contractor shall supply all necessary labor, equipment, tools, insurance, taxes services; and The Contractor shall assume full responsibility for all obligations associated with completion of mechanical work as provided by the Contract Documents.
- 1.2 STANDARDS, REGULATIONS AND CODES:
- A. The work shall comply with the edition of the applicable standards, regulations and codes currently in force of all State and location authorities having jurisdiction. Where quantities, sizes, or other requirements indicated on the drawings or herein specified are in excess of the standard or code requirements, the specifications and/or drawings shall govern. In the absence of other applicable local codes, acceptable to the Architect/Engineer, the Uniform Plumbing and Mechanical Codes shall apply to this work.
- B. The Contractor shall comply with rules and regulations of public utilities and municipal departments affected by connections of services. The Contractor shall pay all fees associated there with.
- C. The Mechanical Contractor shall be licensed to perform mechanical work in the municipality in which the project is located.
- D. All products and types of construction shall meet or exceed the latest edition of applicable standards of manufacturer, testing, performance and installation.

### 1.3 LOCAL CONDITIONS:

- A. The Contractor shall carefully examine the local conditions and existing installations and shall thoroughly familiarize himself with all existing conditions which may affect his work. The Contractor shall locate all existing utilities and protect them during the execution of the work.
- B. The Contractor shall examine the Architectural, Mechanical and Electrical Drawings and Specifications to familiarize himself with the type of construction, materials, and equipment to be used for all work and how it will affect the installation of his contract.

### 1.4 CUTTING AND PATCHING:

- A. All necessary cutting, drilling and patching shall be provided by this Contractor. Structural members shall not be disturbed without prior approval of the Architect. All areas disturbed by work performed under this Contract shall be neatly repaired and refinished to the condition of adjoining surfaces in a manner suitable to the Architect.
- 1.5 OPERATION DURING CONSTRUCTION:
- A. Mechanical equipment shall not be used during construction unless instructed by the General Contractor. The mechanical contractor is responsible for the installation and operation, service and maintenance of all new equipment during construction and prior to acceptance by the Owner of the completed project at additional costs to the GC and/or owner.
- B. Warranty periods shall not commence until final acceptance by the Owner/Substantial Completion.

### 1.6 SAFETY REGULATIONS:

A. All Mechanical work shall be performed in compliance with all applicable governing safety regulations, including OSHA regulations. Provide safety lights, guards and signs required.

### 1.7 HOUSEKEEPING:

- A. The Contractor shall be responsible for keeping stocks of material and equipment stored on the premises in a neat GAS PIPE MAINand orderly manner. B. The Contractor shall clean and maintain his portion of the work as specified in the General Conditions.
- C. The Contractor shall remove from the premises all waste material present as a result of his work.
- 1.8 GRAPHIC REPRESENTATION AND JOB CONDITIONS:
- A. The drawings shall serve as working drawings for the general layout of the various items of equipment; are diagrammatic unless specifically dimensioned; and do not necessarily indicate every required item
- B. The Architectural drawings take precedence over the mechanical drawings in the representation of the general construction work.
- C. Arrange work in a neat, well organized manner. Coordinate work with other trades involved.

### 1.9 GUARANTEES:

A. The Contractor shall guarantee all work performed and materials and equipment furnished under this contract, against defects in materials and workmanship for a period of one year from the Date of the Owner's Final Acceptance of the Work, or as noted in each section.

### 1.10 MOTORS AND CONTROLS:

- A. All motors furnished under this specification shall be recognized manufacturer, of adequate capacity for the loads involved. All motors shall conform to the standards of manufacturer and performance of the National Electrical Manufacturers Association as shown in their latest publications.
- 1.11 PIPING IN ELECTRICAL ROOMS:
- A. No piping except specifically noted otherwise will be permitted in electrical rooms. In rooms, where piping is indicated over electrical equipment, a suitable galvanized sheetmetal pan or gutter piped to the drainage system shall be provided.

### END OF SECTION

### SECTION 15100 - HEATING, VENTILATION AND AIR CONDITIONING

### 1.1 SCOPE:

A. The work included under this contract consists of providing all labor, materials, tools, transportation, services, etc., necessary to complete the installation of the heating, ventilating, and air conditioning systems and other items herein listed and as described in these specifications, as illustrated in the accompanying drawings or as directed by the Architect.

### 1.2 SHEET METAL:

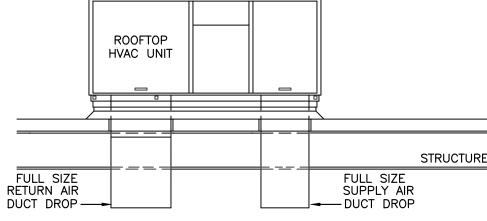
- A. Provide ductwork shown with necessary dampers. Construction of new galvanized prime grade steel sheets per ASHRAE and SMACNA Standards. Provide round or rectangular duct as indicated. Fabricate for the pressure and SMACNA seal class required.
- B. Flexible duct shall be Wiremold WCK or acceptable equal maximum length shall be 8' 0" or as noted/detailed. C. All duct sizes shown are actual size and include liner, where required.
- 1.3 GRILLES, REGISTERS, INLETS AND OUTLETS:
- A. All supply grilles, registers and diffusers shall be as scheduled on the drawings and shall be ADC rated.
- 1.4 DUCTWORK ACCESSORIES:
- A. Provide single thickness turning vanes in all supply duct turns.
- B. Provide duct access doors for all internal mounted equipment.
- C. Provide 45° take-off fittings with volume damper for all round takeoffs to diffusers.
- D. Provide dampers where shown and required. Balance and control dampers shall be opposed blade except air
- mixing dampers shall be parallel blade.
- 1.5 AIR CONDITIONING UNITS:
- A. Air conditioning units shall be as scheduled. Units shall be standard catalogued products with the appropriate approval or certification by AGA, ARI and UL. Efficiencies shall conform to ASHRAE 90.1 standards.

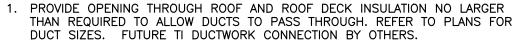
### 1.6 FANS:

- A. Fans with accessories shall be as scheduled and shall be AMCA rated.
- 1.7 VIBRATION ISOLATION:
- A. Duct flexible connection shall be non-combustible, 16 ounce canvas. Piping flexible connection shall be Flexonics 401H or acceptable equal
- 1.8 MISCELLANEOUS MECHANICAL EQUIPMENT:
- A. Provide constant, variable volume and/or fan powered boxes and accessories as scheduled. Acceptable manufacturers are E.H. Price or acceptable equal.
- 1.9 CLEANING:
- A. Clean system by operating at least three hours prior to final acceptance with temporary filters. Remove all filters and replace with clean.
- B. Use precleaned precharged refrigerant tube. Clean per manufacturers recommendations.

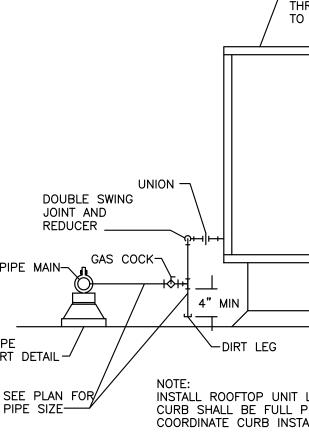
### 1.10 TESTING AND ADJUSTING:

A. Contractor shall operate and test the air conditioning and ventilation systems and instruct the Owner in its operation. Perform a series of general capacity and operating tests. The tests shall demonstrate the specified capacities of various pieces of equipment.





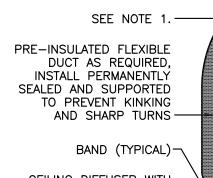






SEE PLAN FOR

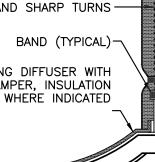
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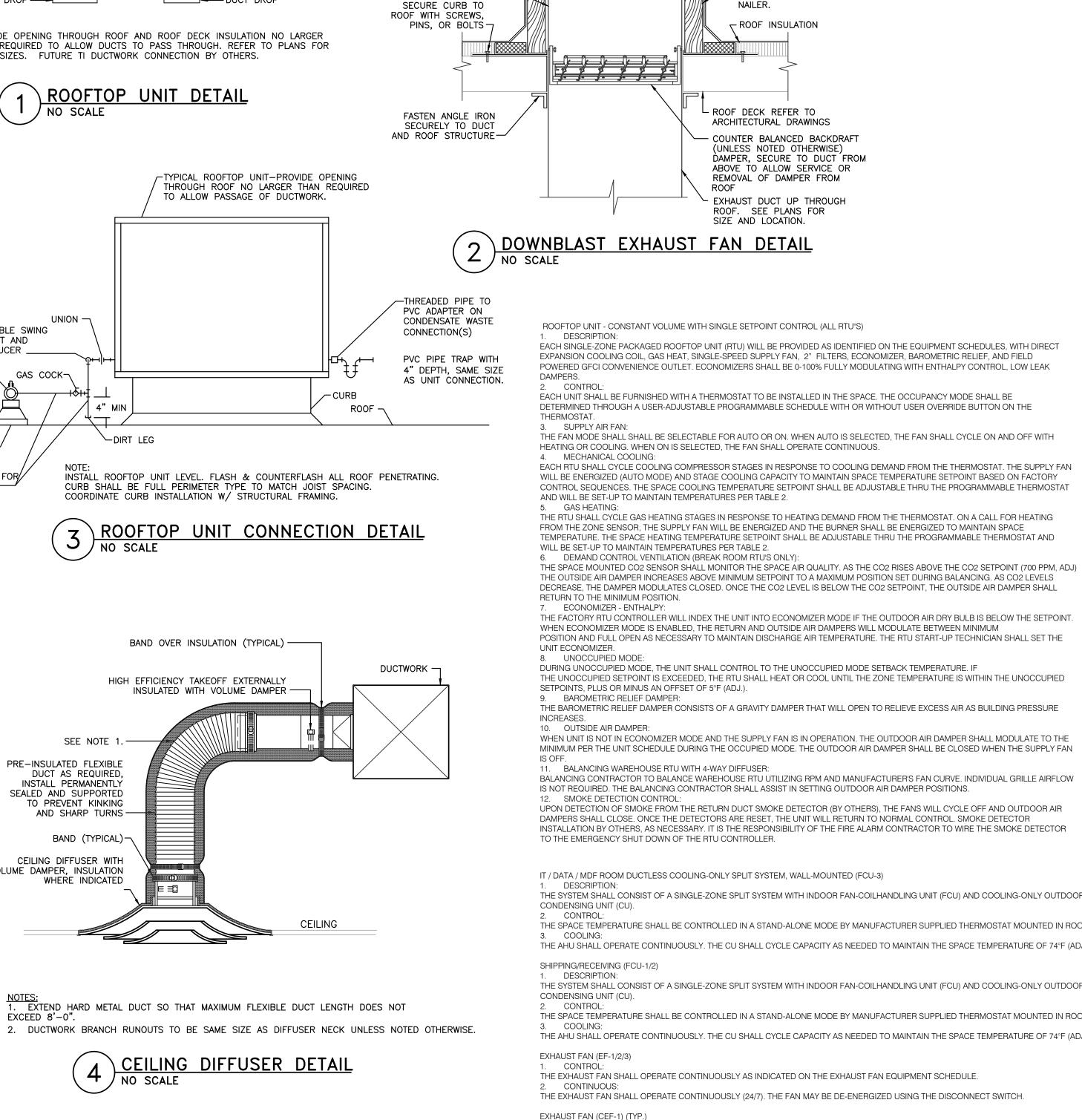


CEILING DIFFUSER WITH VOLUME DAMPER, INSULATION

EXCEED 8'-0".







CONTROL:

AIR CURTAIN (AC-A)

1. DESCRIPTION:

ROOM LIGHT SWITCH

DOOR LIMIT CONTROL

WHEN THE DOOR HAS CLOSED. 3. HEAT-OFF-FAN CONTROL:

LIGHTS ARE ON IN THE ROOM. (WIRING BY OTHERS)

SCHEDULE.

LIMIT SWITCH

4. HEATING

CEILING DIFFUSER DETAIL

FACTORY-INSTALLED 24V TRANSFORMER, MAGNETIC DOOR LIMIT SWITCH, HEAT-OFF-FAN SWITCH, AND THERMOSTAT.

AIR CURTAINS HAVING SINGLE (ONE-STAGE) HEATING ELEMENTS, ARE CONTROLLED BY A SINGLE STAGE THERMOSTAT. WHEN THE AIR CURTAIN CONTROL CIRCUIT CLOSES. THE AIR CURTAIN FAN WILL RUN AND THROUGH INTERLOCKING. WILL ENABLE THE HEATER CIRCUIT ON A CALL FOR HEAT, THE THERMOSTAT WILL ENERGIZE THE HEATER CONTROL CONTACTOR. THE THERMOSTAT WILL THEN CYCLE THE HEATER AS NEEDED, AS LONG AS THE AIR CURTAIN CONTROL CIRCUIT IS CLOSED (FAN IS RUNNING). WHEN THE AIR CURTAIN CONTROL CIRCUIT OPENS, THE HEATER CIRCUIT IS DISABLED, THE HEATER WILL DE-ENERGIZE AND THE FAN WILL SHUT OFF.

WHEN THE SWITCH IS IN THE OFF POSITION THE AIR CURTAIN IS INOPERABLE. IN THE HEAT POSITION, THE AIR CURTAIN WILL RUN WITH

HEAT BASED ON THE LIMIT SWITCH OR THERMOSTAT. IN THE FAN POSITION, THE AIR CURTAIN WILL RUN WITHOUT HEAT BASED ON THE

THE EXHAUST FAN SHALL BE INTERLOCKED WITH THE RESTROOM LIGHT SWITCH, AS INDICATED ON THE EXHAUST FAN EQUIPMENT

EACH UNIT SHALL CONSIST OF A HEATED ELECTRIC AIR CURTAIN FOR ENVIRONMENTAL SEPARATION. UNIT SHALL BE PROVIDED WITH

THE SPACE TEMPERATURE SHALL BE CONTROLLED IN A STAND-ALONE MODE BY MANUFACTURER SUPPLIED THERMOSTAT MOUNTED IN ROOM THE AHU SHALL OPERATE CONTINUOUSLY. THE CU SHALL CYCLE CAPACITY AS NEEDED TO MAINTAIN THE SPACE TEMPERATURE OF 74°F (ADJ.).

THE SYSTEM SHALL CONSIST OF A SINGLE-ZONE SPLIT SYSTEM WITH INDOOR FAN-COILHANDLING UNIT (FCU) AND COOLING-ONLY OUTDOOR

THE AHU SHALL OPERATE CONTINUOUSLY. THE CU SHALL CYCLE CAPACITY AS NEEDED TO MAINTAIN THE SPACE TEMPERATURE OF 74°F (ADJ.).

INSTALLATION BY OTHERS, AS NECESSARY. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO WIRE THE SMOKE DETECTOR THE SYSTEM SHALL CONSIST OF A SINGLE-ZONE SPLIT SYSTEM WITH INDOOR FAN-COILHANDLING UNIT (FCU) AND COOLING-ONLY OUTDOOR THE SPACE TEMPERATURE SHALL BE CONTROLLED IN A STAND-ALONE MODE BY MANUFACTURER SUPPLIED THERMOSTAT MOUNTED IN ROOM

BALANCING CONTRACTOR TO BALANCE WAREHOUSE RTU UTILIZING RPM AND MANUFACTURER'S FAN CURVE. INDIVIDUAL GRILLE AIRFLOW UPON DETECTION OF SMOKE FROM THE RETURN DUCT SMOKE DETECTOR (BY OTHERS), THE FANS WILL CYCLE OFF AND OUTDOOR AIR DAMPERS SHALL CLOSE. ONCE THE DETECTORS ARE RESET, THE UNIT WILL RETURN TO NORMAL CONTROL. SMOKE DETECTOR

THE BAROMETRIC RELIEF DAMPER CONSISTS OF A GRAVITY DAMPER THAT WILL OPEN TO RELIEVE EXCESS AIR AS BUILDING PRESSURE WHEN UNIT IS NOT IN ECONOMIZER MODE AND THE SUPPLY FAN IS IN OPERATION. THE OUTDOOR AIR DAMPER SHALL MODULATE TO THE MINIMUM PER THE UNIT SCHEDULE DURING THE OCCUPIED MODE. THE OUTDOOR AIR DAMPER SHALL BE CLOSED WHEN THE SUPPLY FAN

POSITION AND FULL OPEN AS NECESSARY TO MAINTAIN DISCHARGE AIR TEMPERATURE. THE RTU START-UP TECHNICIAN SHALL SET THE THE UNOCCUPIED SETPOINT IS EXCEEDED, THE RTU SHALL HEAT OR COOL UNTIL THE ZONE TEMPERATURE IS WITHIN THE UNOCCUPIED

THE OUTSIDE AIR DAMPER INCREASES ABOVE MINIMUM SETPOINT TO A MAXIMUM POSITION SET DURING BALANCING. AS CO2 LEVELS DECREASE, THE DAMPER MODULATES CLOSED. ONCE THE CO2 LEVEL IS BELOW THE CO2 SETPOINT, THE OUTSIDE AIR DAMPER SHALL THE FACTORY RTU CONTROLLER WILL INDEX THE UNIT INTO ECONOMIZER MODE IF THE OUTDOOR AIR DRY BULB IS BELOW THE SETPOINT.

CONTROL SEQUENCES. THE SPACE COOLING TEMPERATURE SETPOINT SHALL BE ADJUSTABLE THRU THE PROGRAMMABLE THERMOSTAT THE RTU SHALL CYCLE GAS HEATING STAGES IN RESPONSE TO HEATING DEMAND FROM THE THERMOSTAT. ON A CALL FOR HEATING FROM THE ZONE SENSOR, THE SUPPLY FAN WILL BE ENERGIZED AND THE BURNER SHALL BE ENERGIZED TO MAINTAIN SPACE TEMPERATURE. THE SPACE HEATING TEMPERATURE SETPOINT SHALL BE ADJUSTABLE THRU THE PROGRAMMABLE THERMOSTAT AND

THE FAN MODE SHALL SHALL BE SELECTABLE FOR AUTO OR ON. WHEN AUTO IS SELECTED, THE FAN SHALL CYCLE ON AND OFF WITH EACH RTU SHALL CYCLE COOLING COMPRESSOR STAGES IN RESPONSE TO COOLING DEMAND FROM THE THERMOSTAT. THE SUPPLY FAN WILL BE ENERGIZED (AUTO MODE) AND STAGE COOLING CAPACITY TO MAINTAIN SPACE TEMPERATURE SETPOINT BASED ON FACTORY

DETERMINED THROUGH A USER-ADJUSTABLE PROGRAMMABLE SCHEDULE WITH OR WITHOUT USER OVERRIDE BUTTON ON THE

EACH SINGLE-ZONE PACKAGED ROOFTOP UNIT (RTU) WILL BE PROVIDED AS IDENTIFIED ON THE EQUIPMENT SCHEDULES, WITH DIRECT EXPANSION COOLING COIL, GAS HEAT, SINGLE-SPEED SUPPLY FAN, 2" FILTERS, ECONOMIZER, BAROMETRIC RELIEF, AND FIELD POWERED GFCI CONVENIENCE OUTLET. ECONOMIZERS SHALL BE 0-100% FULLY MODULATING WITH ENTHALPY CONTROL, LOW LEAK

EXHAUST FAN WITH

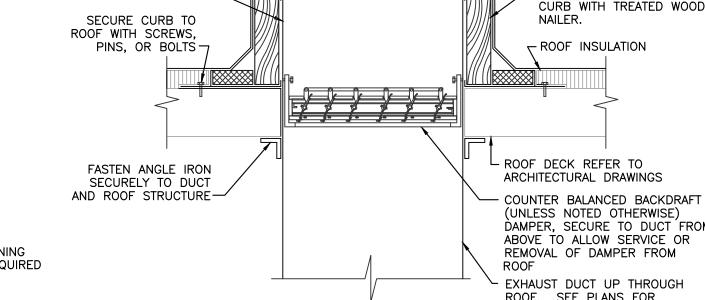
ISOLATORS

- SECURE EXHAUST FAN TO

- PREFABRICATED INSULATED

ROOF CURB WITH VIBRATION

BIRDSCREEN



EXTEND DUCTWORK

SECURE DUCTWORK

TO CURB NAILER

OVER TOP OF CURB.



ABCHITECTURF 5719 LAWTON LOOP E. DR. #212 INDIANAPOLIS, IN 46216 O :: 317.288.0681 F :: 317.288.0753



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LEE'S SUMMIT LOGISTICS BUILDING A LOT I

OIECT INFORMATION

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086



ISSUE DATES PERMIT SET

04.21.22

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210300

THE EXHAUST FAN SHALL BE INTERLOCKED WITH THE ROOM LIGHT CONTROL OR WALL SWITCH AND SHALL BE ENERGIZED ANY TIME THE

AIR CURTAIN SHALL ENERGIZE AS DOOR BEGINS TO OPEN AS INDICATED BY THE MAGNETIC DOOR LIMIT SWITCHES. UNIT SHALL DE-ENERGIZE

							ROO	FTOF	P UN	IT SC	HEDU	JLE (N	ATURA	L GAS H	EAT)									
MARK	MANUFACTURER	MODEL	SERVICE	QUANTITY	NOMINAL		SUPPLY	FAN		COOLI	NG COIL		GAS HEATING		ELECTR	RIC HEATING		ELECTR	CAL	WEIGHT	MIN. OUTSIDE	MAX. OUTSIDE	MIN.	NOTES
					TONNAGE	CFM	ESP (IN)	MODE	ΗP	TH (MBH)	SH (MBH)	INPUT (MBH)	OUTPUT (MBH)	STAGES	INPUT (KW)	STAGES	MCA	MOCP	V/PH	(LBS) W/ CURB	AIR (CFM)	AIR (CFM)	EER	
RTU-A	TRANE	YSD300G4RHC	WAREHOUSE	19	25	9,000	0.50	CV	7.5	300	234	400	320	2			56	70	460/3	3,200	800	800	10.0	A - H
RTU-1	TRANE	YSC060	MAIN OFFICE	1	5	1,975	0.75	CV	1.0	58	48	100	81	2			15	20	460/3	1,000	200	200	12.0	A - H
RTU-2	TRANE	YSC060	MAIN OFFICE	1	5	1,950	0.75	CV	1.0	58	48	100	81	2			15	20	460/3	1,000	175	175	12.0	<mark>A - H</mark>
RTU-3	TRANE	YSC060	MAIN OFFICE	1	5	2,000	0.75	CV	1.0	58	48	100	81	2			15	20	460/3	1,000	300	300	12.0	A - H
RTU-4	TRANE	YSC092F	MAIN OFFICE	1	7.5	2,750	0.75	CV	2.0	90	68	150	120	2			18	20	460/3	1,500	450	450	11.0	A - H
RTU-5	TRANE	YSC036	MAINTENANCE	1	3	1,000	0.50	CV	<mark>0.</mark> 5	35	26	80	60	2			10	15	460/3	1,000	70	70	12.0	A - H
																							1	

NOTES:

STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.

EQUIPMENT SIZED FOR 100 DEGREE F AMBIENT TEMPERATURE. PROVIDE 2", 30% EFFICIENT PLEATED THROWAWAY AIR FILTERS.

PROVIDE MANUFACTURER'S STANDARD SRPING VIBRATION ISOLATION ROOF CURB WITH MINIMUM HEIGHT OF 14".

PROVIDE FACTORY MOUNTED DISCONNECT SWITCH, FIELD POWERED GFI OUTLET AND HAIL GUARDS. PROVIDE WITH TRANE AIRFI CONTROLS TO INTEGRATE INTO BAS.

PROVIDE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF DAMPER.

ELECTRICAL/FIRE ALARM CONTRACTOR TO FURNISH AND INSTALL SMOKE DETECTOR IN RETURN AIR DUCT.

PROVIDE WITH HOT-GAS REHEAT COIL, DEHUMIDIFICATION CONTROLS AND WALL MOUNTED CO2 SENSOR. CO2 SENSOR TO MODULATE OA FROM MINIMUM TO MAXIMUM AIRFLOWS. PROVIDE WITH VARIABLE FREQUENCY DRIVE FOR SINGLE ZONE VAV OPERATION.

UNIT SHALL BE VVT. PROVIDE WITH BYPASS DAMPER AND REQUIRED CONTROLS FOR PROPER OPERATION.

PROVIDE WITH CO2 SENSOR MOUNTED AS SHOWN ON PLANS (WALL OR DUCT MOUNT) AND MODULATE VENTILATION FROM MINIMUM TO MAXIMUM SCHEDULED VALUES.

MARK	MANUFACTURER	MODEL	SERVICE	QUANTITY	TYPE	SI	JPPLY FAN	(S)	PI	PING CONNECT			ELECTRI		WEIGHT	HEIGHT	NOTES
						CFM	HP	QTY.	LIQUID	SUCTION	CONDENSATE	MCA	MOCP	V/PH		W/ O RAILS	
CFU-1	HEATCRAFT/BOHN	BCH0075LDACD		1	CONDENSING UNIT		7.5		7/8"	1-5/8"		38	40	460/3	1,000	40"	A - D
EVAP-1	HEATCRAFT/LARKIN	BEM0325MS4EMA	- (-) 10 F FREEZER	1	EVAPORATOR	7,100	1/4	3	<mark>1</mark> -1/8"	1-5/8"	3/4"	18		460/1	300	30"	A - B
			1	T	1 1				_		Т					r	
CFU-2	HEATCRAFT/BOHN	BCH0075LDACD	(-) 10 F FREEZER	1	CONDENSING UNIT		7.5		7/8"	1-5/8"		38	40	460/3	1,000	40"	A - D
EVAP-2	HEATCRAFT/LARKIN	BEM0325MS4EMA	()	1	EVAPORATOR	7,100	1/4	3	1-1/8"	1-5/8"	3/4"	18		460/1	300	30"	A - B
CCU-1	HEATCRAFT/BOHN	BCD0400MDACD		1	CONDENSING UNIT		40		1-5/8" x (2)	2-1/8" x (2)		142	150	460/3	4,500	56"	A - D
EV-1A	HEATCRAFT/BOHN	BHA1400SA	(+) 38 F COOLER	1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	<u>1-1/4"</u>	7		460/3	800	51"	A - B,
EV-1B	HEATCRAFT/BOHN	BHA1400SA	-	1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7		460/3	800	<mark>51</mark> "	A - B,
									1		1						1
CCU-2	HEATCRAFT/BOHN	BCD0400MDACD	_	1	CONDENSING UNIT		40		1-5/8" x (2)	2-1/8" x (2)		142	150	460/3	4,500	56"	A - D
EV-2A	HEATCRAFT/BOHN	BHA1400SA	(+) 38 F COOLER	1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7		460/3	800	51"	A - B,
EV-2B	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	<mark>1</mark> -1/4"	7		460/3	800	51"	A - B,
CCU-3	HEATCRAFT/BOHN	BCD0400MDACD		1	CONDENSING UNIT		40		1-5/8" x (2)	2-1/8" x (2)		142	150	460/3	4,500	56"	A - D
EV-3A	HEATCRAFT/BOHN	BHA1400SA	(+) 38 F COOLER	1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7		460/3	800	51"	A - B,
EV-3B	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7		460/3	800	51"	A - B,
					· · ·				-			· · ·	I				
CCU-4	HEATCRAFT/BOHN	BCD0400MDACD		1	CONDENSING UNIT		40		1-5/8" x (2)	2-1/8" x (2)		142	150	460/3	4,500	56"	A - D
EV-4A	HEATCRAFT/BOHN	BHA1400SA	(+) 38 F COOLER	1	EVAPORATOR	20,700	1	3	<mark>1-5/8</mark> "	2-1/8"	1-1/4"	7		460/3	800	51"	A - B,
EV-4B	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7		460/3	800	51"	A - B, I

OTES:

PROVIDE LOW AMBIENT CONTROL AND R448A REFRIGERANT AND 5YR COMPRESSOR WARRANTY.

EQUIPMENT SIZED FOR 100 DEGREE F AMBIENT TEMPERATURE.

PROVIDE WITH HEATCRAFT VANTAGE AUTO-ROTATE THERMOSTAT CONTROLLER FOR REFRGERATION SYSTEM. PROVIDE WITH TEMPERATURE SENSORS FOR MOU UNIT SHALL BE PROGRAMMED TO CALL OUT DURING TEMPERATURE ALARMS.

ADD 16" EQUIPMENT SUPPORT RAILS TO CALCULATE OVERALL EQUIPMENT HEIGHT ON ROOF. PROVIDE WITH HIGH AIRFLOW COLLAR.

UNIT SERVED	OCCUPANCY CLASSIFICATION	AREA (SQ. FT.)	PEOPLE PER 1,000	FIXED SEATING QUANTITY	QUANTITY OF PEOPLE	REQUIRED OUTSIDE AIR PER PERSON	REQUIRED OUTSIDE AIR PER SF	TOTAL REQUIRED AIRFLOW	NOTES
RTU-1	OFFICE	470	7		3	5	0.06	45	А
	CORRIDOR	105					0.06	6	А
	CONFERENCE	385	50		19	5	0.06	119	А
·		•				•	REQUIRED VENTILATION	170	CFM C
RTU-2	OFFICE	1,390	7		10	5	0.06	132	А
	CORRIDOR	340					0.06	20	A
·			•				REQUIRED VENTILATION	152	CFM C
RTU-3	CONFERENCE	1,280	50	43	64	5	0.06	292	А
·			•		•		REQUIRED VENTILATION	292	CFM C
RTU-4	BREAK ROOM	1,250	25	60	31	5	0.06	375	A
	RESTROOMS	950					0.06	57	A
·			•				REQUIRED VENTILATION	432	CFM C
FCU-1	OFFICE	105	7		1	5	0.06	10	A
	RESTROOMS	70					0.06	4	A
							REQUIRED VENTILATION	14	CFM D
FCU-2	OFFICE	105	7		1	5	0.06	10	A
	RESTROOMS	70					0.06	4	A
							REQUIRED VENTILATION	14	CFM D
FCU-4	OFFICE	600	7		4	5	0.06	57	A
			•				REQUIRED VENTILATION	57	CFM C

. VENTILATION PROVIDED BY OPERABLE DOORS.

	OUTSIDE AIR CALCULATIONS												
UNIT SERVED	OCCUPANCY CLASSIFICATION	AREA (SQ. FT.)	PEOPLE PER 1,000 SQ. FT.	FIXED SEATING QUANTITY	QUANTITY OF PEOPLE	REQUIRED OUTSIDE AIR PER PERSON	REQUIRED OUTSIDE AIR PER SQ. FT.	TOTAL REQUIRED (CFM)	NOTES				
RTU-A	RTU-A         WAREHOUSE         180,000            0.08         14,400         A           REQUIRED VENTILATION         14,400         CFM         B												

NOTES: A. VALUES TAKEN FROM ASHRAE 62.1-2010 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY. B. TOTAL VENTILATION FOR WAREHOUSE TO BE DIVIDED AMOUNG ALL RTU-A. REFER TO EQUIPMENT SCHEDULE FOR ACTUAL AMOUNT.

UNTING IN COOLER/FREEZER	

MARK	MANUFACTURER	MODEL			PPLY FAN	COOLIN			ELECTR		VENTILATION	WEIGHT	NOTES
MAINS	MANOLACIONEN	MODEL		CFM	ESP (IN)	TH	SH		MOCP	V/PH	(CFM)	(LBS)	NOILS
						(MBH)	(MBH)						
FCU-1	LENNOX	M22A012S4-2P	CEILING MOUNT CASSETTE	400		12	8	1				45	F, G
CU-1	LENNOX	MPB012S4S-1P	CONDENSING UNIT		-		-	12	15	208/1		150	A - E
FCU-2	LENNOX	M22A012S4-2P	CEILING MOUNT CASSETTE	400		12	8	1			-	45	F, G
CU-2	LENNOX	MPB012S4S-1P	CONDENSING UNIT	·	_			12	15	208/1	-	150	A - E
FCU-3	LENNOX	MWMA036S4	WALL MOUNT FAN-COIL	1,000		36	28	1				45	F
CU-3	LENNOX	MPB036S4S	CONDENSING UNIT					35	50	208/1		250	A - E
NOTES:													

PROVIDE WITH WIRELESS TEMPERATURE CONTROLLER AND LOW-AMBIENT WIND BAFFLE KIT.

FAN-COIL TO BE POWERED FROM CONDENSING UNIT POWER CIRCUIT. REFER TO INSTALLATION INSTRUCTIONS. INSTALL CONDENSING UNIT ON TREATED 4X4 WOOD BLOCKING.

PROVIDE WITH 50'-0" PRE-INSULATED LINESET AS REQUIRED.

ELECTRICAL CONTRACTOR TO PROVIDE ASSOCIATED POWER WIRING BETWEEN CU AND FCU. PROVIDE WITH CONDENSATE PUMP AND DISCHARGE CONDENSATE PER PLANS AS REQUIRED.

VENTILATION PROVIDED BY OPERABLE DOORS.

	G	RILLE, F	REGISTER	& DIFFUS		DULE		
MARK	MANUFACTURER	MODEL	TYPE	SIZE	MOUNTING	FINISH	MATERIAL	NOTES
SD-1	PRICE	SPD	SQUARE PLAQUE	24" x 24"	LAY-IN	WHITE	STEEL	
SD-2	PRICE	SPD	SQUARE PLAQUE	24" x 24"	SURFACE	WHITE	STEEL	В
SD-3	PRICE	SPD	SQUARE PLAQUE	12" x 12"	LAY-IN	WHITE	STEEL	
SD-4	PRICE	SPD	SQUARE PLAQUE	12" x 12"	SURFACE	WHITE	STEEL	В
VAV-1	PRICE	VARITHERM	VAV	24" x 24"	LAY-IN	WHITE	STEEL	
LSD-1	PRICE	TBD	LINEAR SLOT	4'-0" X (4) 1" SLOT	LAY-IN	WHITE	STEEL	Н
SG-1	PRICE	520DL	WALL MOUNT	AS NOTED	WALL/DUCT	WHITE	STEEL	А
SG-2	PRICE	SDGE	SPIRAL MOUNT	AS NOTED	DUCT	MILL	STEEL	A, C
RG-1	PRICE	PDDR	PERFORATED	24" x 24"	LAY-IN	WHITE	STEEL	
RG-2	PRICE	PDDR	PERFORATED	12" x 24"	LAY-IN	WHITE	STEEL	
RG-3	PRICE	530DL	WALL MOUNT	AS NOTED	WALL/DUCT	WHITE	STEEL	
EX-1	PRICE	APDDR	PERFORATED	24" x 24"	SURFACE	WHITE	ALUMINUM	A, B
EX-2	PRICE	APDDR	PERFORATED	24" x 24"	LAY-IN	WHITE	ALUMINUM	
EX-3	PRICE	APDDR	PERFORATED	12" x 12"	LAY-IN	WHITE	ALUMINUM	

NOTES:

A. PROVIDE WITH DAMPER OPERABLE FROM FACE OF DEVICE. . PROVIDE WITH SURFACE MOUNT FRAME KIT FOR MOUNTING IN HARD CEILING/WALL

. PROVIDE WITH OPPOSED BLADE DAMPER AND MILL FINISH.

. PERFORATED SUPPLY AIR GRILLE TO BE INSTALLED WITHOUT DEFLECTORS.

. PROVIDE WITH 2KW ELECTRIC HEAT, WALL MOUNTED WIRELESS THERMOSTAT.

PROVIDE WITH RETURN AIR LIGHT SHIELD.

. PROVIDE WITH INSULATED BACKING . PROVIDE WITH FACTORY INSULATED SUPPLY PLENUM.

EXHAUST FAN	SCHEDULE
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MARK	MANUFACTURER	QUANTITY	MODEL	LOCATION/	SERVICE	FAN			ELECTRICAL	WEIGHT	NOTES	
				MOUNTING		CFM	ESP (IN)	RPM	HP/WATTS	(V/PH)	(LBS)	
EF-A	GREENHECK	1	G-099	ROOF	RESTROOM EXHAUST	800	0.5	1435	1/4	120/1	100	A, B, E
EF-B	GREENHECK	3	GB-130	ROOF	BATTERY EXHAUST	2,000	0.5	1600	3/4	120/1	120	A, B, C,
CEF-1	GREENHECK	2	SPA-190	CEILING	RESTROOM EXHAUST	150	0.25	800	50	120/1	25	A, E, F
CEF-2	GREENHECK	1	SPA-090	CEILING	RESTROOM EXHAUST	75	0.25	800	50	120/1	25	A, E,

NOTES:

. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.

3. PROVIDE WITH 14" INSULATED ROOF CURB, BACKDRAFT DAMPER AND INSECT SCREEN.

. FAN TO RUN CONTINUOUSLY. D. FURNISH WITH WALL MOUNTED LINE VOLTAGE THERMOSTAT. THERMOSTAT TO BE INSTALLED BY ELECTRICAL CONTRACTOR.

E. INTERLOCK EXHAUST FAN WITH LIGHTSWITCH.

FAN TO BE CONTROLLED BY WALL MOUNTED SWITCH.

. PROVIDE WITH REQUIRED ACCESSORIES FOR GREASE EXHAUST. FAN TO BE CONTROLLED BY HOOD MOUNTED SWITCH.

PROVIDE WITH UNIT MOUNTED SPEED CONTROLLER, HANGING BRACKET, BACKDRAFT DAMPER AND INLET GUARD.

FAN TO BE EXPLOSION PROOF.



RELEASED FOR CONSTRUCTION As Noted on Plans Review

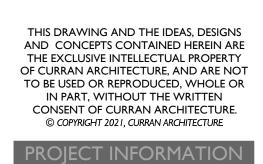
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5719 LAWTON LOOP E. DR. #212 INDIANAPOLIS, IN 46216 O :: 317.288.0681 F :: 317.288.0753



CERTIFICATION

# DUCTLESS SPLIT SYSTEM EQUIPMENT SCHEDULE



# LEE'S SUMMIT LOGISTICS BUILDING A LOT I

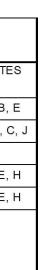
NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

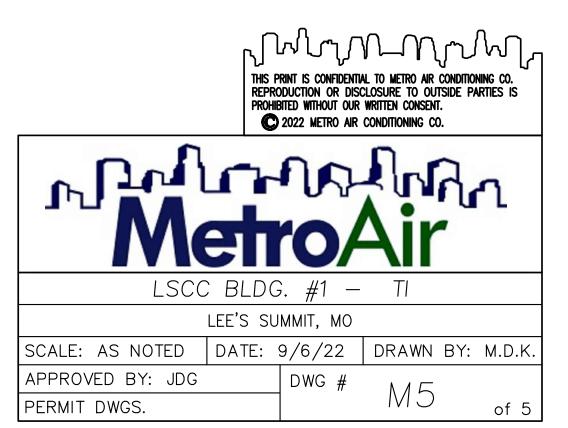


ISSUE DATES

04.21.22

PERMIT SET





- 1. GENERAL PROVISIONS A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, NECESSARY FOR THE COMPLETE INSTALLATION OF THE PLUMBING AND MECHANICAL SYSTEMS OUTLINED.
- B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR
- APPROVAL AS REQUIRED BY THE AUTHORITIES.
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.
- D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK. E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL ACCEPTANCE
- NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY. SO THAT THE EXISTING ROOFING WARRANTY WILL BE MAINTAINF
- FROM FINAL ACCEPTANCE. 2. OPERATION AND MAINTENANCE MANUALS
- A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION THE OPERATION AND MAINTENANCE MANUALS. C. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE BOUND IN A
- 3-RING BINDER AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER, CONTRACTORS, ETC. 3. MANUFACTURERS
- A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.
- 4. TESTING, BALANCING, AND CLEANING:
- COVERED WITH INSULATION. B. SEWER AND VENT PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF HEAD FOR A PERIOD OF NOT LESS THAN 15 MINUTES, PER THE LOCAL PLUMBING CODE, WITH NO LEAKS.
- C. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 60 PSI, FOR A PERIOD OF NOT LESS THAN 2 HOURS, WITH NO LEAKS.
- TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 50 PSI, FOR A PERIOD OF NOT LESS THAN 2 HOURS, WITH NO LEAKS.
- E. BEFORE DOMESTIC WATER PIPING IS PLACED IN SERVICE, ALL DOMESTIC WATER DISTRIBUTION SYSTEMS, INCLUDING THOSE FOR COLD WATER AND HOT WATER SYSTEMS, SHALL BE FLUSHED STERILIZED AND CHLORINATED IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS. THE SYSTEMS SHALL BE THOROUGHLY FLUSHED OF ALL DIRT AND FOREIGN MATTER, THEN FILLED WITH WATER TREATED WITH 50 PPM OF CHLORINE. DURING THE FILLING PROCESS, VALVES AND FAUCETS SHALL BE OPENED SEVERAL TIMES TO ASSURE TREATMENT OF THE ENTIRE SYSTEM. THE TREATED WATER SHALL BE LEFT IN THE SYSTEM FOR 24 HOURS AFTER WHICH TIME THE SYSTEM SHALL BE FLUSHED; IF THE RESIDUAL CHLORINE IS NOT LESS THAN 10 PPM, THE FLUSHING SHALL BE REPEATED. AFTER STERILIZATION, SAMPLES OF WATER IN THE SYSTEM SHALL BE APPROVED BY THE BOARD OF HEALTH.
- 5. PLUMBING:
- REQUIRED BY FIXTURE MANUFACTURER.
- B. ALL EXPOSED WASTE PIPE SHALL BE CHROME PLATED BRASS PIPE, NO FERROUS PIPE. C. PROVIDE CLEANOUTS AT EACH CHANGE OF DIRECTION AND AT 100 FOOT INTERVALS IN STRAIGHT RUNS. D. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND TRAPS.
- E. CLEANOUTS:
- 1) VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL 2) QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL. 3) CARPETED FLOOR: JR SMITH #4020-Y, OR EQUAL.
- 4) UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL. 5) WALL: JR SMITH #4472, OR EQUAL, 24" ABOVE THE FLOOR. 6) WAREHOUSE FLOORS/FORK TRUCK AREAS: JR SMITH #4100, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND ROUND ADJUSTABLE SCORIATED EXTRA HEAVY DUTY NICKEL BRONZE TOP.
- 1) GRADE: JR SMITH #4256, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND COVER. F. PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END CONNECTIONS TO MATCH THE PIPE SYSTEM IN WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED). PROVIDE DIELECTRIC UNIONS ON ALL PIPING CONNECTIONS TO HOT WATER HEATERS AND EXPANSION TANKS.
- G. WATER HEATERS 1) EVERY WATER HEATER SHALL HAVE AN APPROVED MEANS INSTALLED ON THE COLD WATER SUPPLY LINE ABOVE THE EQUIPMENT TO PREVENT SIPHONING OF A STORAGE WATER HEATER OR TANK.
- 2) BOTTOM FED WATER HEATERS AND TANKS CONNECT TO WATER HEATERS SHALL HAVE A VACCUM RELIEF VALVE INSTALLED. ANSI Z21.22. 3) STORAGE HEATERS OPERATING ABOVE ATMOSPHERIC PRESSURE SHALL HAVE AN APPROVED PRESSURE RELIEF VALVE AND/OR TEMPERATURE RELIEF VALVE.
- H. ALL SEWER PIPING LOCATED INSIDE THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING SLOPES. 1) INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FALL. 2) INSTALL 3" - 6" PIPE AT 1/8" PER FOOT FALL 3) INSTALL 8" AND LARGER PIPE AT 1/16" PER FOOT FALL.
- 6. PIPING: A. DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATING (ABOVEGROUND).
  - 1) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88. a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B75 ALLOY C12200. ANSI B16.22. MS5 SP-104. b) MECHANICAL PRESS COPPER FITTINGS FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS. ASME B16.22, ASME B16.51, Or ASME B16.18. MECHANICAL PRESS COPPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR
  - ASME B16.51. 2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING SHALL BE MANUFACTURED TO THE REQUIREMENTS OF ASTM F876 AND MEET THE STANDARD GRADE HYDROSTATIC PRESSURE RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANCE WITH TR-4/03.
  - (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE) a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSF312 STANDARDS FOR POTABLE WATER SAFETY AND LEAD-FREE STANDARDS AND MUST BE MARKED WITH "PW-G", "NSF-61-G" OR OTHER NSF-APPROVED MARKING. ASTM F2023 FOR USE WITH CHLORINATED WATER. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE) b) PEX MECHANICAL CRIMP/INSERT OR EXPANSION FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE.
  - INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER FOR SUPPLY MAINS. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE) 3) VALVES a) TO BE INSTALLED ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE.
  - b) TO BE INSTALLED ON THE WATER SUPPLY SIDE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT. 1. GATE VALVE: JOMAR T/S-301G OR EQUAL. LEAD-FREE NSF 61, ANSI B1.20.1. 2. GLOBE VALVE: JOMAR TGG OR EQUAL.
  - 3. BALL VALVE: JOMAR JP100PXP OR EQUAL COMPACT LEAD FREE BRASS BALL VALVE. UL842, CSA 3371-12 & 3371-92, FM, CALIFORNIA CODE AB1953, NSF61 ANNEX & APPROVED. 4. BALL VALVE: JOMAR T-100NE OR EQUAL. UL842, FM, CSA, NSF 61-8, MSS SP-110
- B. DOMESTIC COLD, AND HOT WATER (UNDERGROUND). 1) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88.
- a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B75 ALLOY C12200, ANSI B16.22, MS5 SP-104. b) MECHANICAL PRESS COPPER FITTINGS FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS, ASME B16,22 ASME B16.51, Or ASME B16.18. MECHANICAL PRESS COPPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR ASME B16.51. 2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING SHALL BE MANUFACTURED TO THE
- REQUIREMENTS OF ASTM F876 AND MEET THE STANDARD GRADE HYDROSTATIC PRESSURE RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANCE WITH TR-4/03.
- LEAD-FREE STANDARDS AND MUST BE MARKED WITH "PW-G", "NSF-61-G" OR OTHER NSF-APPROVED MARKING. ASTM F2023 FOR USE WITH CHLORINATED WATER.
- INSTRUCTIONS. PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE
- c) HDPE, PIGMENTED BLVE THROUGHOUT, CTS SIZES 1"-2" AWWA C901 4710 DR9 PC250 IPS SIZES 2"-3", AWWA C901 4710 DR11 PC200.
- C. DOMESTIC WATER SERVICE, 1"-3"
- 1) TYPE K SOFT DRAWN COPPER TUBING, ASTM B-88. a) Cast Copper Alloy Fittings for Flared Copper Tube, ASME/ANSI B16.26:
- 2) HDPE, PIGMENTED BLUE THROUGHOUT, CTS SIZES 1"-2" AWWA C901 4710 DR9 PC250 IPS SIZES 2"-3", AWWA C901 4710 DR11 PC200
- MATERIAL AND INSTALLATION MUST CONFORM TO WATER DEPARTMENT REQUIREMENTS. D. LEAD CONTENT OF WATER SUPPLY PIPE AND FITTINGS: 1) PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, UTILIZED IN THE WATER SUPPLY SYSTEM
- SHALL NOT HAVE MORE THAN 8% LEAD CONTENT. 2) PIPE, PIPE FITTINGS, JOINTS, VALVES, FAUCETS, AND FIXTURE FITINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED AVERAGE LEAD CONTENT OF 0.25% OR LESS.

- F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS
- G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR
- A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR
- D. NATURAL GAS PIPING SHALL BE PNEUMATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2
- A. PROVIDE AN APPROVED WATER HAMMER ARRESTOR FOR EACH PLUMBING FIXTURE SUPPLY AS

- a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSF372 STANDARDS FOR POTABLE WATER SAFETY AND
- b) PEX MECHANICAL, CRIMP/INSERT OR EXPANSION FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S
- INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER FOR SUPPLY MAINS.

- PLUMBING SPECIFICATIONS (CONTINUED)
- E. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (UNDERGROUND, INTERIOR TO THE BUILDING).
- ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628 FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235.
- 2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: (ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 891. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. 3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM:(ASTM D2665)
- PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
- 4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL. 5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS
- SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74. F. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS.
- ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628 FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235. (NOT FOR USE IN A RETURN AIR PLENUM)
- 2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 891. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (NOT FOR USE IN A RETURN AIR PLENUM)
- 3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM: (ASTM D 2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1765 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (WHERE APPROVED BY LOCAL JURISDICTIONS)
- (NOT FOR USE IN A RETURN AIR PLENUM) 4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.
- 5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74. G. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS.
- (UNDERGROUND, EXTERIOR TO THE BUILDING).

(ABOVE GROUND, INTERIOR TO THE BUILDING).

- 1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: (ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 2680 FITTINGS SHALL CONFORM TO ASTM D 2680. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235. 2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: (ASTM F1488)
- PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 891. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM F 794. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
- 3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM: (ASTM D 2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 794. FITTINGS SHALL CONFORM TO ASTM F 794. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
- 4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.
- 5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS. SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
- 6) COPPER DWV: DRAINAGE TUBE SHALL CONFORM TO ASTM B306, WROUGHT COPPER FITTINGS, ANSI B-16.29. GALVANIZED STEEL PIPE, WITH MALLEABLE IRON, THREADED FITTINGS, DRAINAGE PATTERN FOR SEWERS SHALL CONFORM TO ASTM A 53.
- H. NATURAL GAS.
- 1) BLACK STEEL PIPE, SCHEDULE 40, ASTM A53. a) PIPE 3" AND SMALLER; 150 LB. MALLEABLE IRON, THREADED FITTINGS.
- b) PIPE 4" AND SMALLER; VIEGA MEGAPRESS & FOR WATER AND GAS. CSA LC4, TSSA/ASME B31
- FOR USE WITH ASTM A53 SCHEDULE 40 BLACK IRON PIPE. c) PIPE 2-1/2" AND LARGER, WELDED.
- d) PLUG VALVE: ROCKWELL NORDSTROM FIGURE NO. 142 OR 143.
- e) BALL VALVE: JOMAR T-100NE. APPROVALS- UL842, FM, CSA, NSF 61-8, MSS SP-110
- 2) GAS PIPING LABELING a) ALL ELEVATED PRESSURE GAS PIPING SHALL BE LABELED EVERY 40 FEET WITH SIGNS INDICATING "ELEVATED PRESSURE"
- 3) GAS PIPING PAINTING
- a) ALL BLACK STEEL GAS PIPING LOCATED EXTERIOR TO THE BUILDING SHALL BE PRIMED AND PAINTED TO EITHER MATCH ADJACENT EXTERIOR WHERE LOCATED ON OR NEAR EXTERIOR WALL AND PAINTED SAFETY YELLOW WHERE LOCATED ON THE ROOF.
- I. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASON, OR ELCEN. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-69.
- J. SLEEVES 1) PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. ALL SLEEVES SHALL BE OF SUFFICIENT SIZE TO PERMIT PIPE MOVEMENT DUE TO EXPANSION AND CONTRACTION
- AND TO ACCOMMODATE PIPE INSULATION.
- 2) INTERIOR PARTITIONS: 16 GAGE GALVANIZED STEEL, PACK BETWEEN PIPE AND SLEEVE WITH FIRE SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT
- 3) ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WATERPROOF SEAL COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY
- 4) PROTECTION AGAINST CONTACT: METALLIC PIPING, EXCEPT FOR CAST IRON, DUCTILE IRON AND GALVANIZED STEEL SHALL NOT BE PLACED IN DIRECT CONTACT WITH STEEL FRAMING MEMBERS, CONCRETE, OR CINDER WALLS AND FLOORS OR OTHER MASONRY. METALLIC PIPING SHALL NOT BE PLACED IN DIRECT CONTACT WITH CORROSIVE SOIL. SHEATHING USED TO PREVENT DIRECT CONTACT SHALL HAVE A THICKNESS OF GREATER THAN .008: AND THE SHEATHING SHALL BE MADE OF PLASTIC, ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL OR FOOTING SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE SHALL BE TWO SIZES GREATER THAN THE PIPE PASSING THOUGH THE WALL OR FOOTING.
- 5) PLUMBING VENTS: FLASH ROOF VENT INTO ROOFING SYSTEM AS REQUIRED BY THE ROOFING CONTRACTOR TO MAINTAIN EXISTING ROOF WARRANTY. ALL PLUMBING VENT TERMINALS SHALI TERMINATE A MINIMUM OF 12" ABOVE ROOF OR EQUAL TO HEIGHT OF PARAPET, WHICHEVER IS GREATER.
- K. COMPRESSED AIR PIPING
- 1) PARKER TRANSAIR PIPING, EXTRUDED ALUMINUM PIPE, CONFORMS TO ASTM B241.
- a) PARKER TRANSAIR FITTINGS CONFORMING TO UL94HB b) PARKER TRANSAIR MOUNTING CLIPS, CONFORMING TO UL94V-2
- 2) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88.
- a) WROUGHT BRONZE SOLDERED FITTINGS.
- 7. WATER HEATERS
- A. COMMERCIAL, LIGHT-DUTY, STORAGE, ELECTRIC, DOMESTIC-WATER HEATERS:
- 1. STANDARD: UL 174 2. STORAGE-TANK CONSTRUCTION: STEEL, VERTICAL ARRANGEMENT.
- a. PRESSURE RATING: 150 PSIG.
- b. INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING LINING MATERIAL INTO TAPPINGS. 3. FACTORY-INSTALLED, STORAGE-TANK APPURTENANCES:
- a. ANODE ROD: REPLACEABLE MAGNESIUM.
- b. DIP TUBE: REQUIRED UNLESS COLD-WATER INLET IS NEAR BOTTOM OF TANK.
- C. DRAIN VALVE: CORROSION-RESISTANT METAL WITH HOSE-END CONNECTION. d. INSULATION: COMPLY WITH ASHRAE/IES 90.1
- e. JACKET: STEEL WITH ENAMELED FINISH OR HIGH-IMPACT COMPOSITE MATERIAL.
- F. HEAT-TRAP FITTINGS: INLET TYPE IN COLD-WATER INLET AND OUTLET TYPE IN HOT-WATER OUTLET.
- g. HEATING ELEMENTS: ELECTRIC, SCREW-IN IMMERSION TYPE.
- h. TEMPERATURE CONTROL: ADJUSTABLE THERMOSTAT. i. SAFETY CONTROL: HIGH-TEMPERATURE-LIMIT CUTOFF DEVICE OR SYSTEM
- j. RELIEF VALVE: ASME RATED AND STAMPED FOR COMBINATION TEMPERATURE-AND-PRESSURE RELIEF
- VALVES. INCLUDE RELIEVING CAPACITY AT LEAST AS GREAT AS HEAT INPUT, AND INCLUDE PRESSURE SETTING LESS THAN WORKING-PRESSURE RATING OF DOMESTIC-WATER HEATER. SELECT RELIEF VALVE WITH SENSING ELEMENT THAT EXTENDS INTO STORAGE TANK.
- B. DOMESTIC-WATER EXPANSION TANKS:

INCLUDE ASME B1.20.1 PIPE THREAD.

a. WORKING-PRESSURE RATING: 150 PSIG

C. AIR-CHARGING VALVE: FACTORY INSTALLED.

1. DESCRIPTION: STEEL, PRESSURE-RATED TANK CONSTRUCTED WITH WELDED JOINTS AND FACTORY-INSTALLED, BUTYL-RUBBER DIAPHRAGM. INCLUDE AIR PRECHARGE TO MINIMUM

a. TAPPINGS: FACTORY-FABRICATED STEEL, WELDED TO TANK BEFORE TESTING AND LABELING.

b. INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER

TANK LININGS, INCLUDING EXTENDING FINISH INTO AND THROUGH TANK FITTINGS AND OUTLETS.

SYSTEM-OPERATING PRESSURE AT TANK. 2. CONSTRUCTION:

3. CAPACITY AND CHARACTERISTICS:

- C. FLOW-CONTROL, ELECTRIC, TANKLESS, DOMESTIC-WATER HEATERS:
- 1. STANDARD: UL 499 FOR ELECTRIC, TANKLESS, (DOMESTIC-WATER-HEATER) HEATING APPLIANCE. 2. CONSTRUCTION: COPPER PIPING OR TUBING COMPLYING WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE WATER, WITHOUT STORAGE CAPACITY.
- a. JACKET: ALUMINUM OR STEEL WITH ENAMELED FINISH OR PLASTIC
- b. PRESSURE RATING: 150 PSIG c. HEATING ELEMENT: RESISTANCE HEATING SYSTEM.
- d. TEMPERATURE CONTROL: FLOW-CONTROL FITTING.
- e. SAFETY CONTROL: HIGH-TEMPERATURE-LIMIT CUTOFF DEVICE OR SYSTEM.
- 3. SUPPORT: BRACKET FOR WALL MOUNTING

### A. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME SPREAD RATING OF NOT OVER 25, A FUEL CONTRIBUTION RATING OF NOT OVER 50, AND A SMOKE DEVELOPED RATING OF NOT OVER 50, IN ACCORDANCE WITH NFPA.

### B. PIPE INSULATION - ABOVE GRADE:

8. INSULATION:

1) THE PIPING INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 Btu PER in/hr\*sqft\*F° OR LESS. 2) FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER, ASJ JACKET, FACTORY APPLIED PRESSURE SEALING LONGITUDE LAP JOINT, NO STAPLES, ZESTON PREMOLDED PVC FITTING COVERS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

3) FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRESSURE SENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO ARMSTRONG AP ARMAFLEX OR ARMAFLEX 2000.

4) FOR NON CIRCULATING SYSTEMS, THE FIRST & FEET OF INLET AND OUTLET PIPING BETWEEN THE TANK AND THE HEAT TRAP (INCLUDING THE HEAT TRAP) MUST BE INSULATED.

5) FOR CIRCULATING SYSTEMS, ALL HOT WATER PIPING IN THE CIRCULATION LOOP MUST BE INSULATED AS SPECIFIED BELOW.

### 6) INSULATION SCHEDULE:

a) DOMESTIC COLD WATER 1" FOR PIPING UP TO 1-1/4"Φ, & 1-1/2" FOR PIPING 1-1/2"Φ AND LARGER b) DOMESTIC HOT WATER c) HOT WATER RECIRCULATING

### d) CONDENSATE DRAINS INSIDE BUILDING 1/2" e) REFRIGERANT SUCTION

3/4" FOR PIPING UP TO 1-1/4"\$\Phi, \$ 1" FOR PIPING 1-1/2"\$\Phi AND LARGER F) HORIZONTAL STORM PIPE g) HORIZONTAL STORM OVERFLOW PIPE 1/2"

h) ROOF DRAINS 1" INSULATION SHALL BE PROVIDED AT ROOF DRAIN BODY AND A MINIMUM OF 10' OF HORIZONTAL PIPING OR A MINIMUM OF 5' IF COMBINATION OF HORIZONTAL AND VERTICAL STORM PIPING DOWNSTREAM OF ROOF DRAIN BODY.



**RELEASED FOR** CONSTRUCTION



5719 LAWTON LOOP E. DR. #212 INDIANAPOLIS, IN 46216 O :: 317.288.0681 F :: 317.288.0753





# LEE'S SUMMIT LOGISTICS

BUILDING A LOT I

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086





BC PROJECT #22208

MISSOURI PE<sup>°</sup>COA #2009003629

This drawing has been prepared by the Engineer, or under his supervision. This drawing is provided a

5720 Reeder Shawnee, KS 66203 (913)262-1772

NCORPORATED

210300 PLUMBING SPECIFICATION

CENTRAL PLUMBING, HEATING & AIR CONDITIONING, IN 201 East Walnut Cleveland, MO 64734

816-942-6355

PLUMBING GENERAL NOTES:

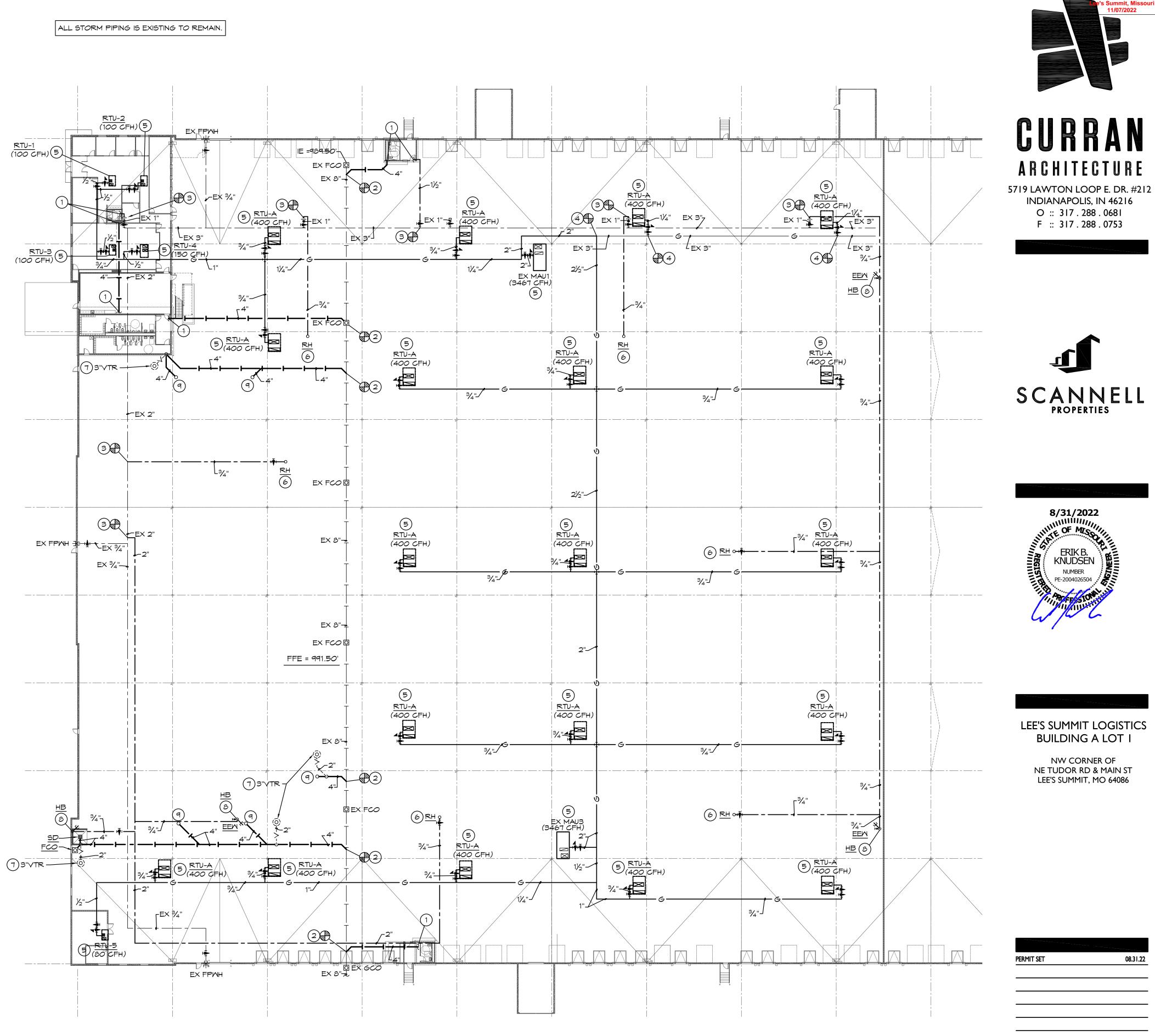
- 1. INSTALL ALL PIPE, ETC. AS HIGH AS POSSIBLE.
- 2. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES.
- 4. SAWCUT EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF UNDERFLOOR PIPING. PATCH FLOOR TO MATCH EXISTING.
- 5. NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
- 6. ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.

### PLUMBING PLAN NOTES:

- REFER TO ENLARGED PLUMBING PLAN ON SHEET P1.2 FOR CONTINUATION.
- CONNECT WASTE TO EXISTING SANITARY SEWER AS REQUIRED. VERIFY EXACT LOCATION AND ELEVATION PRIOR TO INSTALLATION OF ANY PIPING. (2)
- З CONNECT WATER TO EXISTING DOMESTIC WATER AS REQUIRED. VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
- (4)CONNECT GAS TO EXISTING NATURAL GAS AS REQUIRED. VERIFY EXACT SIZE, LOCATION AND PRESSURE PRIOR TO INSTALLATION OF ANY PIPING.
- 5 CONNECT GAS TO EQUIPMENT AS REQUIRED AND AS DETAILED. GAS PRESSURE REGULATOR SHALL BE ON ROOF.
- 6 INSTALL ROOF HYDRANT AS REQUIRED.
- $\bigcirc$ LOCATION OF 3" VTR. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. COORDINATE WITH GENERAL CONTRACTOR TO SEAL PENETRATION WEATHERTIGHT.
- 8 INSTALL HOSE BIBB AS REQUIRED.
- (१) INSTALL HUB DRAIN AS REQUIRED.

### PLUMBING SYMBOLS

— <b>—</b> —	SOIL AND WASTE PIPING BELOW FLOOR/GRADE
	SOIL AND WASTE PIPING ABOVE FLOOR/GRADE
—	SANITARY VENT PIPING ABOVE GRADE
V	SANITARY VENT PIPING BELOW GRADE
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RECIRCULATION PIPING
G	GAS PIPING
D	EQUIPMENT DRAIN LINE
A	COMPRESSED AIR PIPING BELOW FLOOR
<del>+</del> )	PIPING TURNING DOWN
+O	PIPING TURNING UP
, <b>I</b> ,	TEE TOP CONNECTION
——  <b>—</b> —	UNION
	BACKFLOW PREVENTER
$FD_{\bigotimes}$	FLOOR DRAIN
FCO O	FLOOR CLEAN OUT
WCO 🛏	WALL CLEAN OUT
600	GRADE CLEAN OUT
<del>+</del> ₩+	VALVE
<del>;</del> ₩	BALANCING VALVE
<del> </del> ₩	SOLENOID VALVE
	PRESSURE REGULATOR
Ø	CHECK VALVE
	CONNECT TO EXISTING
I.E.	INVERT ELEVATION OF PIPE
$\langle A \rangle$	MATCH MARKS ON PLUMBING RISER DIAGRAM
$\sim$	CONTROL WIRING
	REFRIGERANT PIPING
ΪZ	CHECK VALVE
Ш "Щ	THERMOMETER
2 = +1 @ +1	PRESSURE GUAGE
¢	TEMPERATURE AND PRESSURE RELIEF VALVE
	PETE'S PLUG
×	Y STRAINER
□v∳v	VACUUM RELIEF VALVE







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210300 PLUMBING PLAN

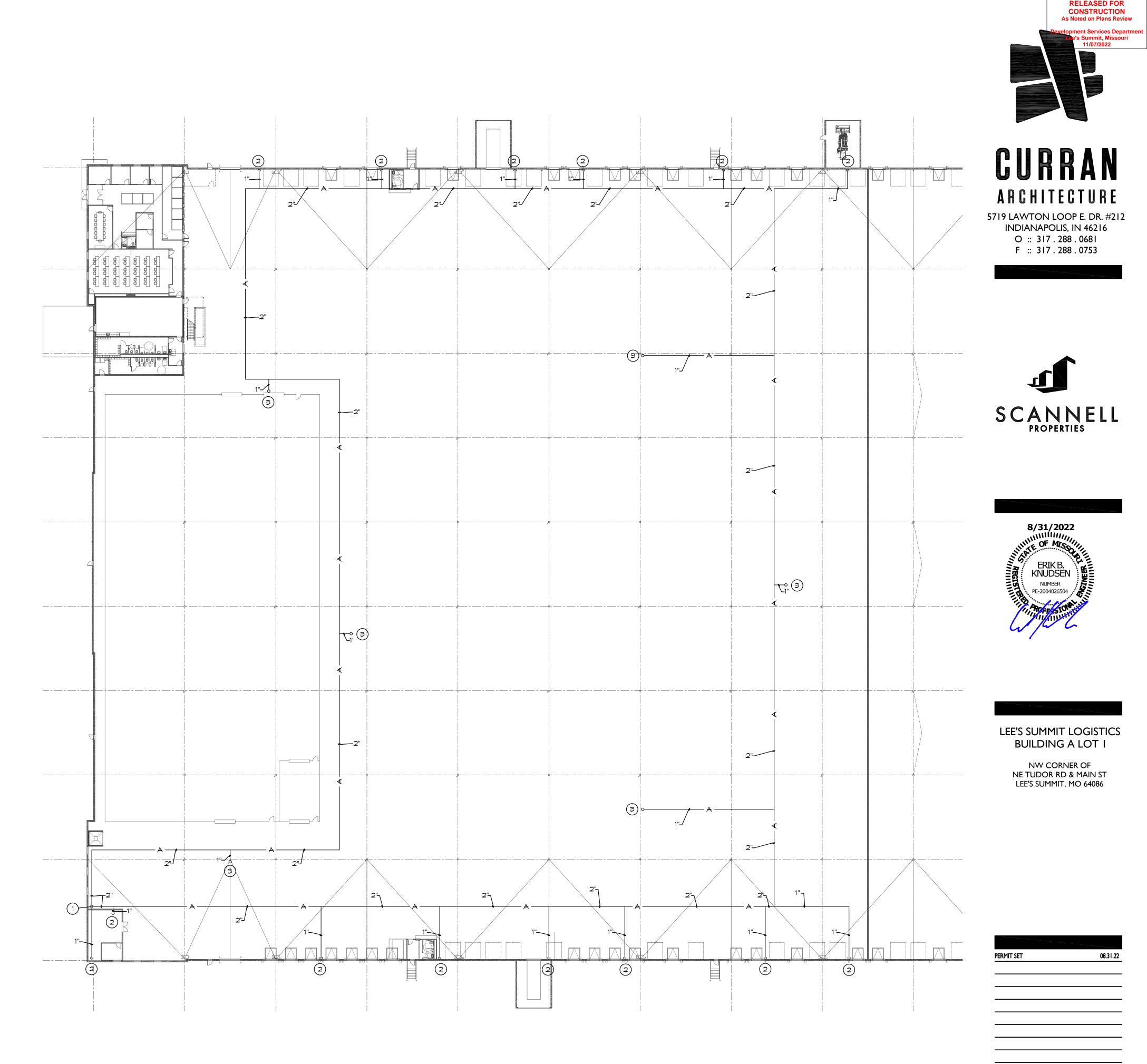
RELEASED FOR CONSTRUCTION As Noted on Plans Review



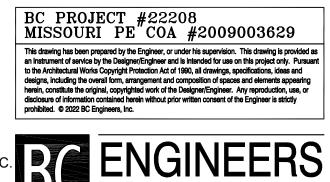
201 East Walnut Cleveland, MO 64734 816-942-6355

# PLUMBING PLAN NOTES:

- 1 AIR PIPE WITH SHUT OFF VALVE DOWN TO AIR COMPRESSOR AND REGULATOR FURNISHED BY OTHERS. VERIFY EXACT LOCATION OF AIR CONNECTION AND COMPRESSED AIR REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS.
- 2 AIR PIPE WITH SHUT OFF VALVE 4'-0" AFF. SUPPORT AS REQUIRED.
- (3) AIR PIPE WITH SHUT OFF VALVE ABOVE ROOF. SUPPORT AS REQUIRED.







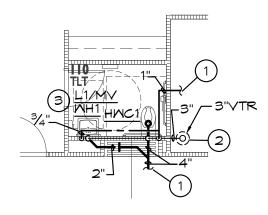
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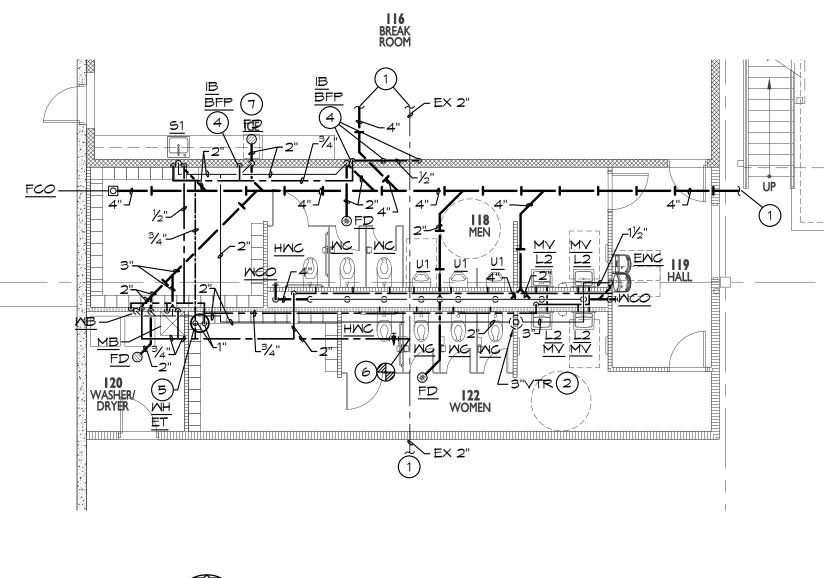
210300 COMPRESSED AIR PLAN



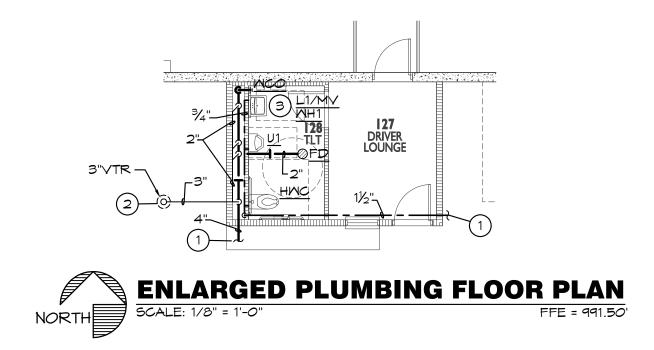
CENTRAL PLUMBING, HEATING & AIR CONDITIONING, INC. 201 East Walnut Cleveland, MO 64734 816-942-6355 5720 Reede

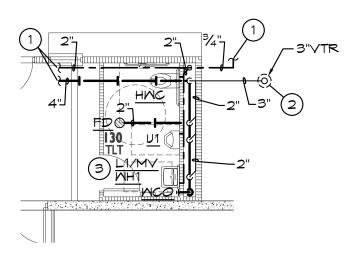














PLUMBING PLAN NOTES:

- REFER TO PARTIAL PLUMBING PLAN ON P1.0 FOR CONTINUATION. (1)
- 2 LOCATION OF 3" VTR. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.
- (3) INSTANTANEOUS WATER HEATER LOCATED BELOW SINK/LAV. SUPPORT FROM WALL PER THE MANUFACTURES REQUIREMENTS.
- 4 PROVIDE BFP AND CONNECT CW TO ICE MAKER AND COFFEE MAKER AS REQUIRED. 5 SUPPORT WATER HEATER FROM STRUCTURE ABOVE CEILING. PROVIDE GALVANIZED DRAIN PAIN UNDER WATER HEATER WITH DRAIN. ROUTE INDIRECT DRAIN PIPING TO MOP BASIN WITH AIR GAP.
- 6 CONNECT WATER TO EXISTING DOMESTIC WATER AS REQUIRED. VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
- PROVIDE INDIRECT DRAIN FROM ICE MAKER TO FLOOR DRAIN WITH AIR GAP.  $\overline{(7)}$





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SCANNELL PROPERTIES



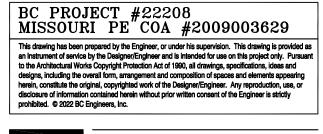
LEE'S SUMMIT LOGISTICS BUILDING A LOT I

> NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086





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210300 ENLARGED PLUMBING PLANS

P1.2

FIXTURE WATER CLOSETS URINAL LAVAT*O*RIES SINKS WATER BOXES CLOTHES WASHER MOP SINK WATER COOLER

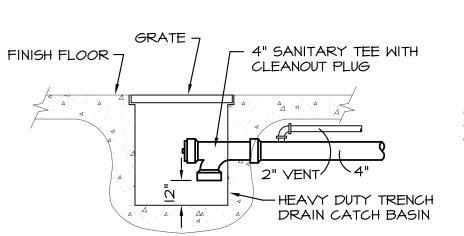
QUANTITY

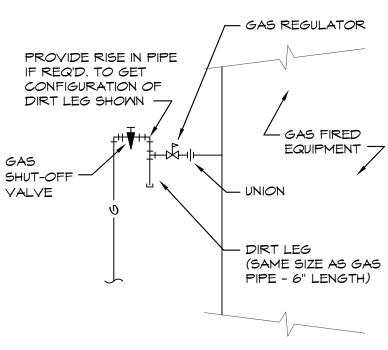
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PIPE HANGER SCHEDULE								
PIPE MATERIAL	MAXIMUM HANGER SPACING	HANGER ROD DIAMETER						
ABS (All sizes)	4'	3/8"						
PVC (All Sizes)	4'	3/8"						
CPVC, 1 inch and smaller	3'	1/2"						
CPVC, 1-1/4 inches and larger	4'	1/2"						
Cast Iron (All Sizes)	ц	5/8"						
Cast Iron (All Sizes) with 10 foot length of pipe	10'	5/8"						
Copper Tube, 1-1/4 inches and smaller	6	1/2"						
Copper Tube, 1-1/2 inches and larger	10'	1/2"						
Steel, 3 inches and smaller	12'	1/2"						
Steel, 4 inches and larger	12'	5/8"						
Pex, 1" and below without support channel	32"	3/8"						
Pex, 1-1/4" and above without support channel	48"	3/8"						
Pex ¾" and below with support channel	6	3/8"						
Pex 1" and above with support channel	8'	3/8"						

PEX PIPING REQUIREMENTS

PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE. IF PEX PIPING IS USED, INCREASE PEX PIPING ONE SIZE ABOVE LISTED SIZES AS REQUIRED TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER.



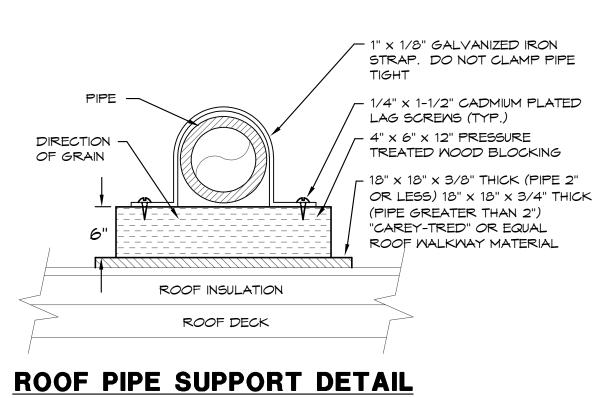


GAS PRESSURE REGULATORS FOR GAS FIRED EQUIPMENT SHALL BE SENSUS #243-8, 5 PSI INLET / 7" WC OUTLET PRESSURE WITH THE ORIFICE & SPRING SIZE AS RECOMMENDED BY THE MANUFACTURER.

PROVIDE GAS REGULATOR FOR EVERY PIECE OF GAS FIRED EQUIPMENT. VENT ON REGULATOR SHALL BE VENTED WITH FULL SIZE PIPE TO EXTERIOR OF BLDG. FLASH BLDG PENETRATION WEATHER TIGHT.







SCALE: NONE

**CATCH BASIN DETAIL** SCALE: NONE

		FIXTURE		C	QUANTITY	FU 1	TOTAL FU	
		WATER CL URINAL (1.0 LAVATORI SINKS FLOOR DF FLOOR SIN SCRUBBEF WASHER B MOP SINK ELECTRIC TOTAL	O GPF) ES RAIN NK R DRAIN	OLER	10 5 7 1 7 5 1 1 1	4 2 1 2 2 2 3 2 5	40 10 7 2 14 10 2 3 2 5 90.5	
		TOTAL		AINS - 3" MAIN - 4"			-10.01	U
PLL	JMBING	FIXTURE M	NATER CO	OUNT				
TITY	CM FU	CM TOTAL FU	HM FU	HM TOTAL FL	J COMBIN	ED FU	COMBIN TOTAL	
)	10 5	100 25	-		-		100 25	)
	1.5	10.5	1.5	10.5	2		14	
	2.25 25	2.25 1	2.25 -	2.25 -	3		3 1	

2.25

3

PLUMBING DRAINAGE CALCULATIONS

.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25 з .25 .25 .25 -143.5 FU 17.25 FU 149.25 FI COLD WATER MAIN - 2" HOT WATER MAIN - 1"

PLUMBING FIXTURE SCHEDULE (OR EQUAL):

- WATER CLOSET (HANDICAPPED): SAME AS WC, EXCEPT 18" HIGH BOWL FOR HMC HANDICAPPED.
- WATER CLOSET: AMERICAN STANDARD #2257.001, VITREOUS CHINA, WALL HUNG,  $\underline{\mathsf{MC}}$ ELONGATED BOWL, SIPHON JET ACTION, SLOAN #111 FLUSH VALVE, 1.6 GAL/FLUSH CENTOCO #STSCC-001 OPEN FRONT ELONGATED SEAT, FLOOR MOUNTED FIXTURE SUPPORT (HEAVY DUTY 500 LB CAPACITY).
- HWC1 WATER CLOSET (HANDICAPPED): AMERICAN STANDARD, #3043.001 "MADERA ADA", VITREOUS CHINA, FLOOR MOUNTED, FLOOR OUTLET, 17-1/2" HIGH ELONGATED BOWL, SIPHON-JET ACTION, SLOAN "ROYAL" #111 FLUSH VALVE, 1.6 GAL/FLUSH, CENTOCO #STSCC-001 OPEN FRONT ELONGATED SEAT WITH CHECK HINGE. HANDLE ON WIDE SIDE OF FIXTURE.
- URINAL, WALL HUNG: AMERICAN STANDARD, #6561.017 "TRIMBROOK", VITREOUS CHINA, UI 0.5 GPM WASH OUT ACTION, WALL HUNG URINAL WITH 3/4" TOP SPUD, SLOAN #186-1.0 FLUSH VALVE, FLOOR MOUNTED FIXTURE SUPPORT. SET RIM HEIGHT PER ARCHITECTURAL DRAWINGS.
- HANDICAP LAVATORY, WALL HUNG: AMERICAN STANDARD #03553012 "LUCERN", <u>L1</u> 20"X 18", VITREOUS CHINA, FRONT OVERFLOW, DELTA #B501LF FAUCET WITH SINGLE METAL LEVER FAUCET, OFFSET GRID ELBOW DRAIN AND 1-1/4" TAILPIECE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT (MOUNTED PARALLEL WITH WALL), CHROME PLATED LOOSE KEY ANGLE STOPS AND RISERS, FLOOR MOUNTED CONCEALED ARM LAVATORY SUPPORT, INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION.
- HANDICAP LAVATORY, COUNTERTOP: AMERICAN STANDARD, #0476.028 "AQUALYN", L2 VITREOUS CHINA, 20"X 17" OVAL BASIN, DELTA #B501LF FAUCET WITH SINGLE METAL LEVER HANDLE, OFFSET GRID DRAIN WITH 1-1/4" TAILPIECE, CHROME PLATED P-TRAP (MOUNTED PARALLEL WITH WALL), CHROME PLATED ANGLE STOPS AND RISERS, INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION.
- SINK:ELKAY, #LRAD-2222, 19"X16"X 6-1/2" DEEP BONL,21-3/8"X 21-3/8" CUT-OUT, ADA 51 COMPLIANT, SINGLE COMPARTMENT, SELF-RIMMING STAINLESS STEEL SINK WITH SATIN FINISH AND SOUND DAMPENING UNDERCOATING, #LK-1000CR FAUCET, SWING SPOUT, AERATOR, SINGLE LEVER HANDLE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED ANGLE STOPS AND RISERS, IN-SINK-ERATOR #BADGER 5 DISPOSAL, 1/2 HP, 120 VOLT.
- MOP BASIN: FIAT, #MSB-2424, MOLDED STONE MOP BASIN, 2" DRAIN, 24"X 24" BASIN, MB VINYL BUMPER GUARD, STERN WILLIAMS #T-10-VB FAUCET, SPRING CHECKS, VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE & PAIL HOOK, WALL BRACKET WITH 30" HOSE.
- EWC ELECTRIC WATER COOLER: OASIS, #PG8ACSL, BARRIER FREE TWO-STATION WATER COOLER, 8.0 GPH, 50 DEGREES F WATER WITH 90 DEGREES F AIR TEMPERATURE, 120 VOLT, COLOR TO BE SELECTED BY ARCHITECT AFTER AWARD OF CONTRACT, FRONT AND SIDE ANTIMICROBIAL PUSH PADS, ANITMICROBIAL FLEX BUBBLERS, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED LOOSE KEY ANGLE STOP, FLOOR MOUNTED CARRIER AND CANE APRON.
- FD FLOOR DRAIN: JR SMITH, #2005-A, CAST IRON FLOOR DRAIN WITH ADJUSTABLE TOP, 6" NIKALOY STRAINER. PROVIDE WITH #2692 QUAD CLOSE TRAP SEAL DEVICE.
- PORTABLE EYE WASH STATION: BRADLEY #S19-921, SELF-CONTAINED. LOCATED AT EEM EACH CHARGING STATION.
- <u>HB</u> HOSE BIBB: PRIER, #P-164, 3/4" HOSE NOZZLE OUTLET, SATIN NICKEL PLATED BODY FINISH, HANDWHEEL OPERATED, INTEGRAL VACUUM BREAKER.
- ICE BOX: SIOUX CHIEF #696-1000, ICE BOX WITH 1/2" INLET AND CONNECTION AND IB 1/4-TURN SHUT OFF VALVE.
- MH1 TANKLESS HOT WATER HEATER: STIEBEL ELTRON MINI 3, 120 VOLT, 3.0 KW.
- HOT WATER HEATER: AO SMITH #DEL-40, 40 GALLON STORAGE, 208 VOLT/1 PHASE,  $\overline{\mathsf{MH}}$ (2) 6000 WATT ELEMENT, NON-SIMULTANEOUS, ASME TEMPERATURE AND PRESSURE RELIEF VALVE.
- HOT WATER EXPANSION TANK: AMTROL, #ST-5, 2 GALLON EXPANSION TANK WITH EΤ DIAPHRAGM.
- MIXING VALVE: WATTS, #LFUSG-B, THERMOSTATIC CONTROLLED MIXING VALVE, LEAD MVFREE BRONZE BODY, LOCKED TEMPERATURE ADJUSTMENT CAP (VANDAL RESISTANT), COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH BRASS SHUTTLE. STAINLESSSTEEL SPRINGS, INTEGRAL CHECK VALVES ON HOT AND COLD INLETS. (SET TO 110°F). ASSE 1070 LISTED.
- BACKFLOW PREVENTOR: WATTS #SD-3, DUAL CHECK VALVE WITH ATMOSPHERIC BFP PORT & STRAINER FOR CARBONATED BEVERAGE MACHINES
- FREEZELESS ROOF HYDRANT: WOODFORD #RHY2-MS, HEAVY-DUTY CAST IRON <u>RH</u> MOUNTING SYSTEM, AUTOMATICALLY DRAIN WHEN SHUT OFF, ASSE 1052 DOUBLE CHECK BACKFLOW PREVENTER.
- WASHER BOX : SIOUX CHIEFS "OXBOX" 696 SERIES WASHER OUTLET BOX WITH BUILT IN MB WATER HAMMER ARRESTER WITH 1-1/2" DRAIN OUTLET AND TAILPIECE, AND 1/2" HOT & COLD WATER CONNECTION.
- SCRUBBER DRAIN: RELIABLE CONCRETE 3030/21585C CATCH BASIN REINFORCED, SD CLAY & BAILEY 2158BG 135# GRATE.

WHA WATER HAMMER ARRESTOR: JR SMITH 'HYDROTROL' #5000 LEAD-FREE WATER HAMMER ARRESTOR, SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.

FCO/WCO VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL. QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL. CARPETED FLOOR: JR SMITH #4020-Y, OR EQUAL. UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL.

201 East Walnut

Cleveland, MO 64734 816-942-6355

PLUMBING FIXTURE BRANCH PIPING SCHEDULE								
FIXTURE	WASTE	VENT	CM	ΗМ				
WATER CLOSET (FLUSH VALVE)	4"	2"	1"					
URINAL	2"	1-1/2"	3/4"					
LAVATORY	1-1/4"	1-1/4"	1/2"	1/2"				
SINK	1-1/2"	1-1/2"	1/2"	1/2"				
FLOOR DRAIN	2"	2"						
MOP BASIN	2"	2"	1/2"	1/2"				
ELECTRIC WATER COOLER (BI-LEVEL)	1-1/2"	1-1/2"	1/2"					
NOTE: INDIVIDUAL VENTS FOR FIXTURES ON P	LANS AN	D RISER						

DIAGRAMS HAVE BEEN INCREASED WHERE HORIZONTAL VENT LENGTH IS IN EXCESS OF THE MAXIMUM DISTANCE INDICATED BY THE CODE.







**RELEASED FOR** CONSTRUCTION

# ARCHITECTURE

5719 LAWTON LOOP E. DR. #212 INDIANAPOLIS, IN 46216 O :: 317.288.0681 F :: 317.288.0753





### LEE'S SUMMIT LOGISTICS BUILDING A LOT I

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086



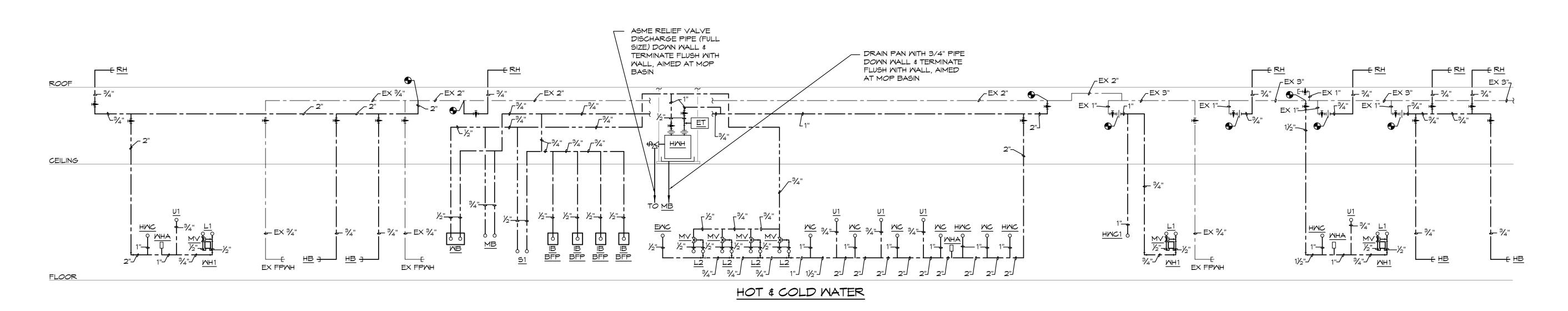
210300 PLUMBING SCHEDULES AND DETAILS

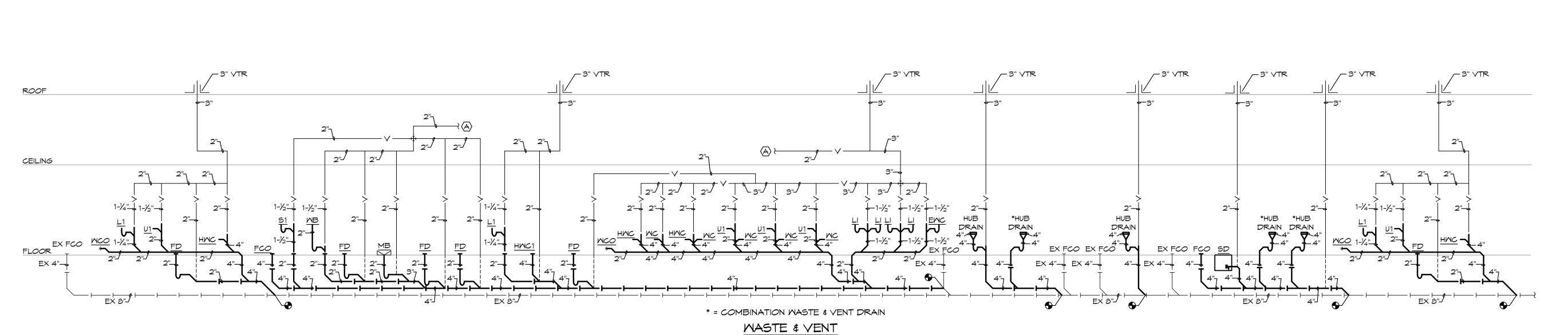


5720 Reeder Shawnee, KS 66203 (913)262-1772

BC PROJECT #22208 MISSOURI PE COA #2009003629

This drawing has been prepared by the Engineer, or under his supervision. This drawing is provided as









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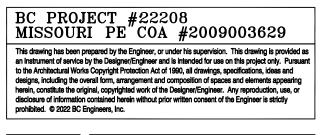




# LEE'S SUMMIT LOGISTICS BUILDING A LOT I

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086





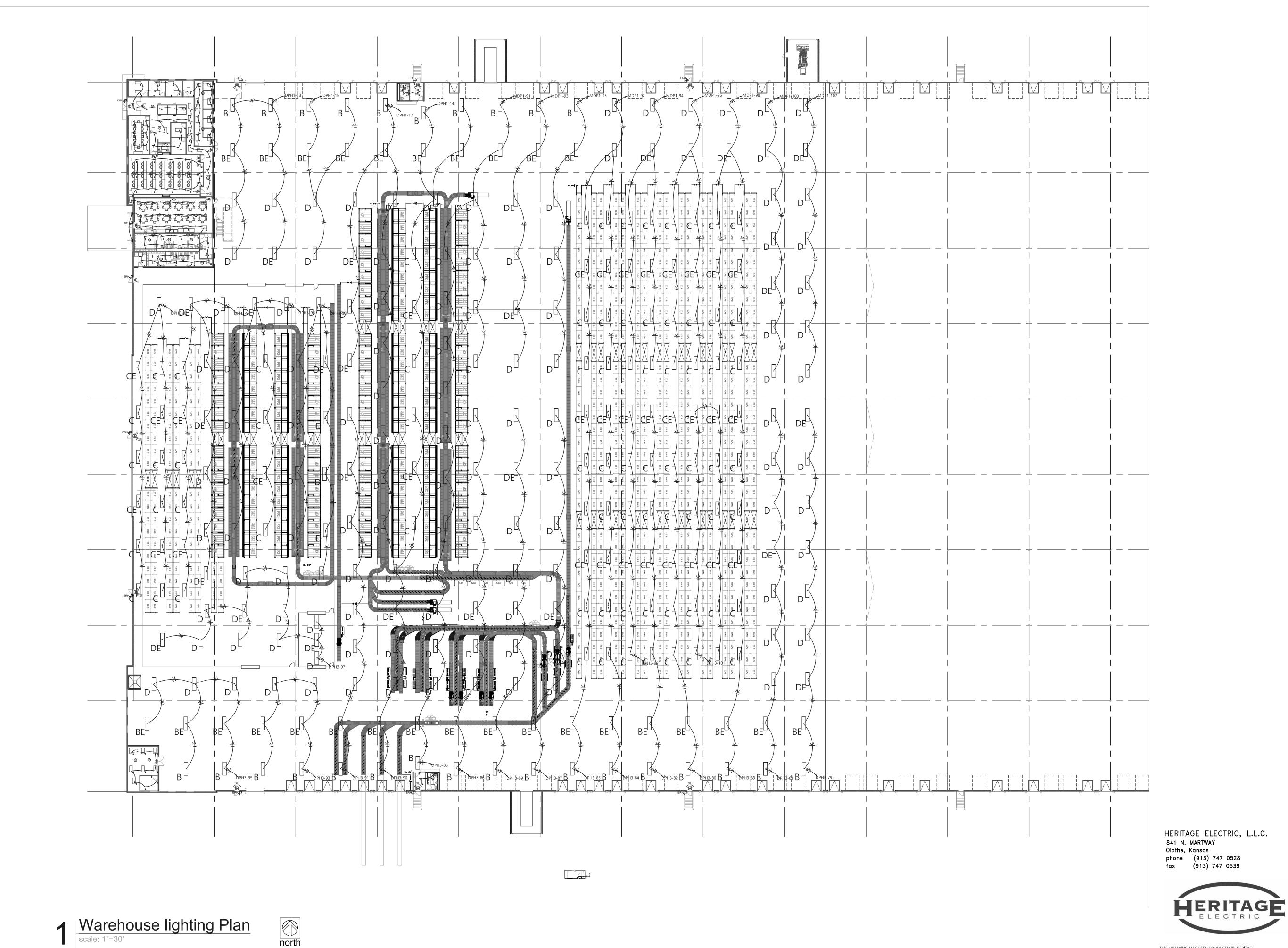


210300 Plumbing risers

P2.1

CENTRAL PLUMBING, HEATING & AIR CONDITIONING, INC

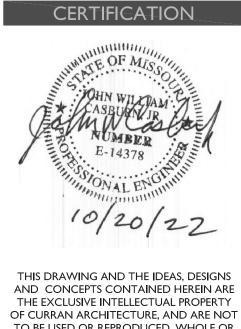
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LEE'S SUMMIT LOGISTICS BUILDING A LOT I

> NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

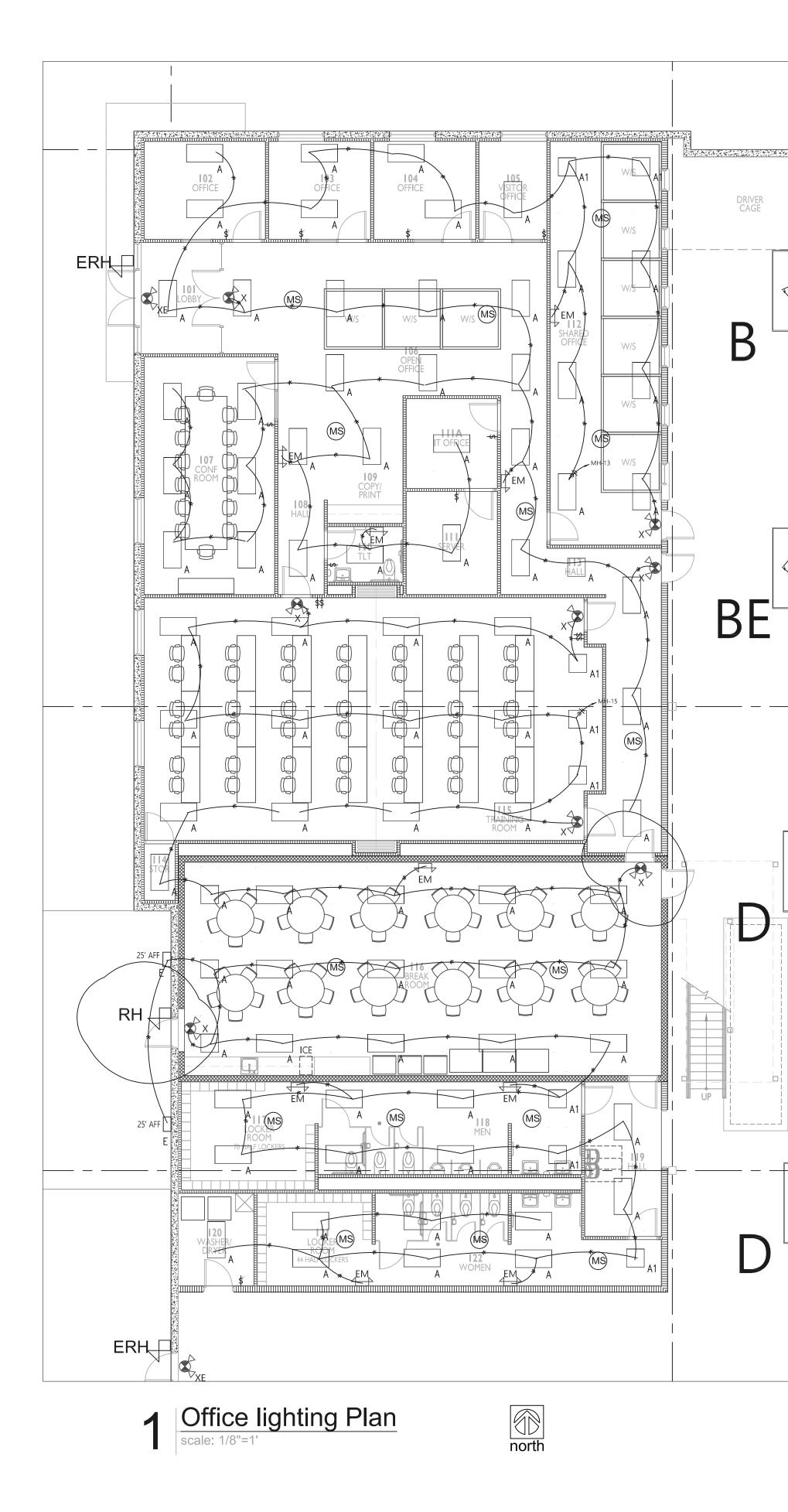
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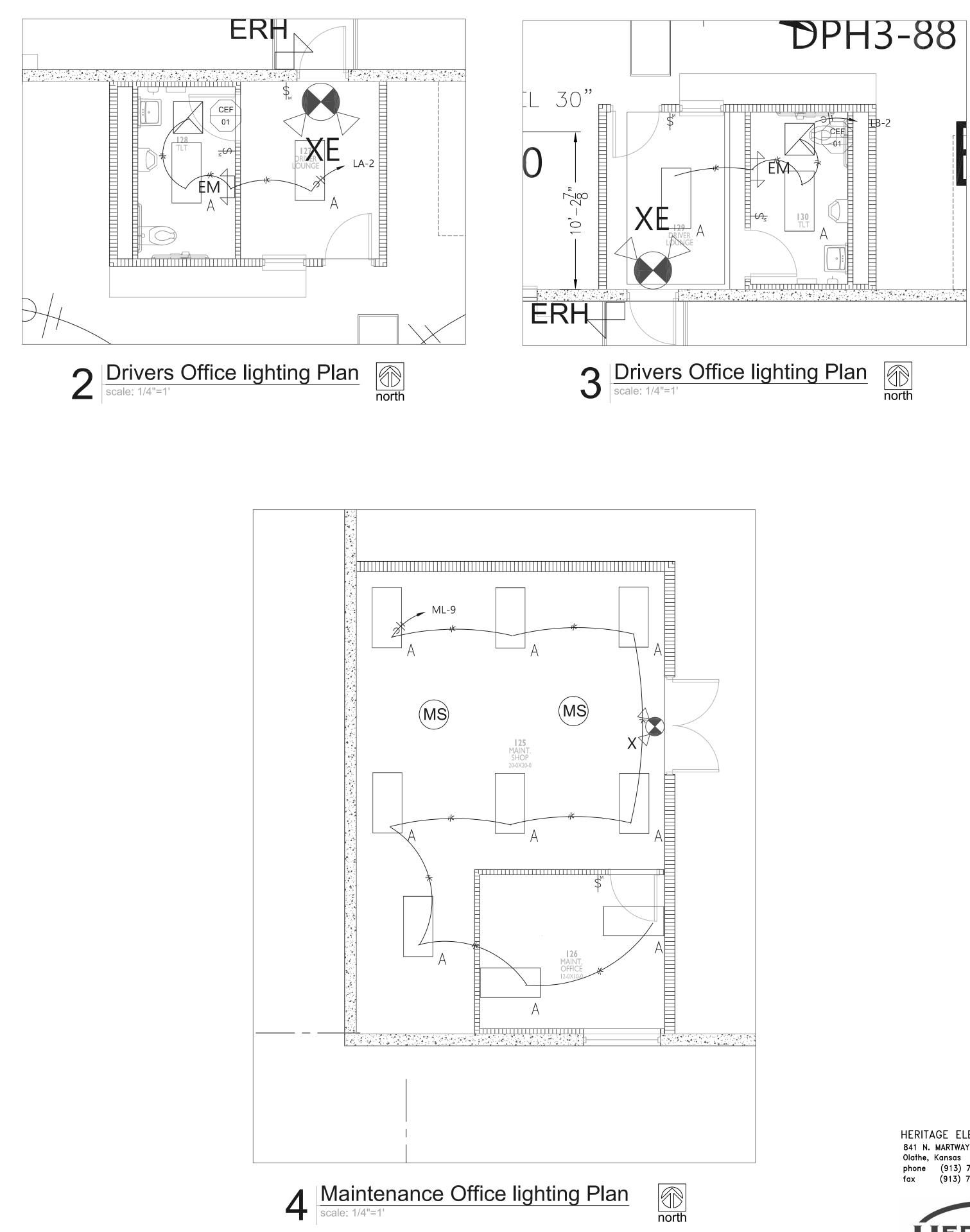
ISSUE DATES PERMIT SET 02.18.22 10.17.22 CITY COMMENTS

210300

WAREHOUSE LIGHTING







HERITAGE ELECTRIC, L.L.C. 841 N. MARTWAY Olathe, Kansas phone (913) 747 0528 fax (913) 747 0539

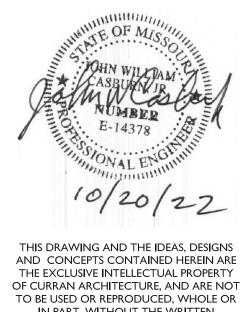


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CERTIFICATION

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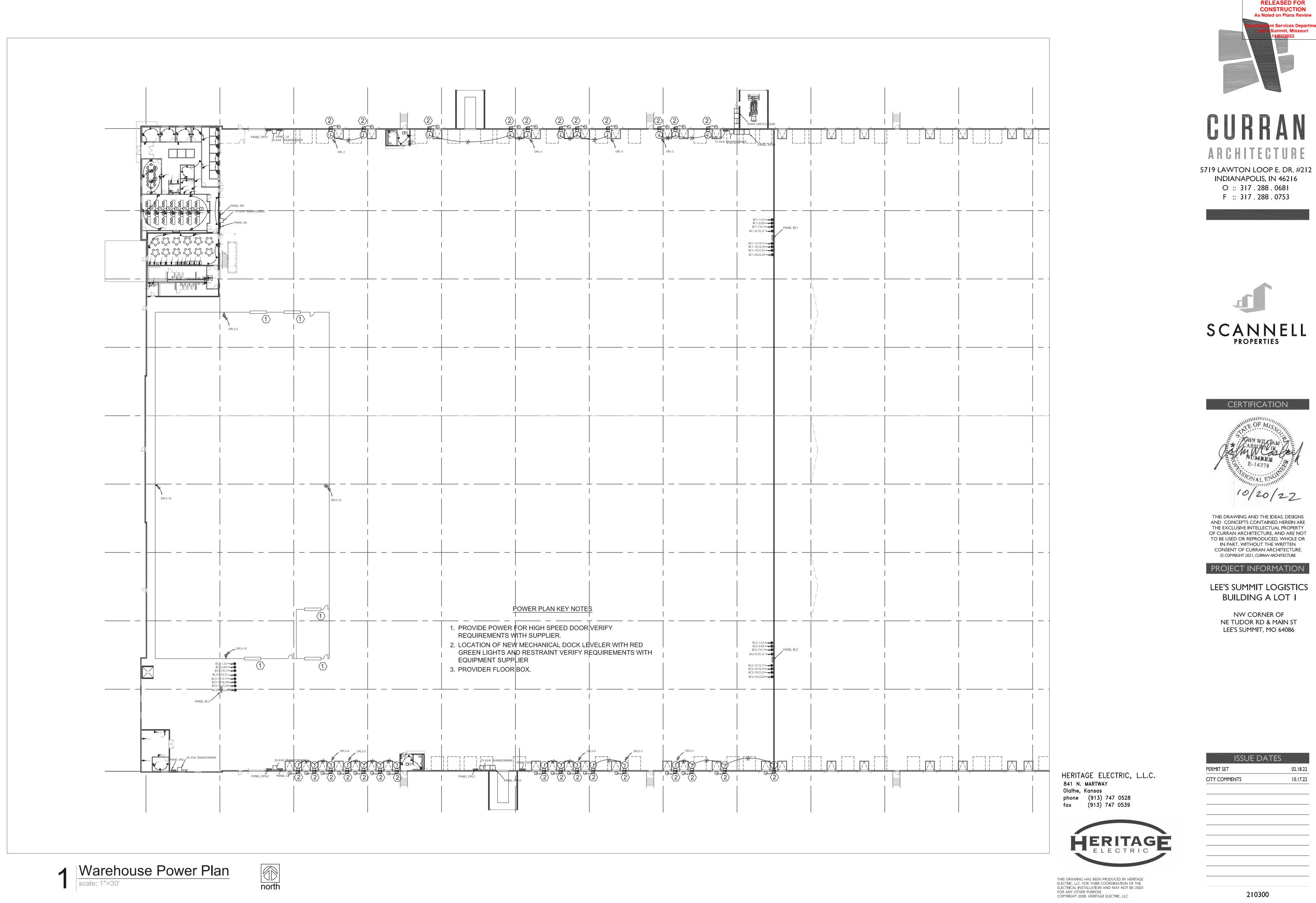
LEE'S SUMMIT LOGISTICS BUILDING A LOT I

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ISSUE DATES	
PERMIT SET	02.18.22
CITY COMMENTS	10.17.22
210200	





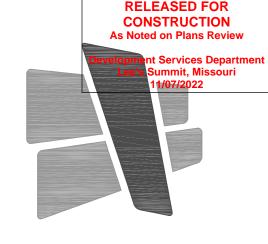


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WAREHOUSE POWER

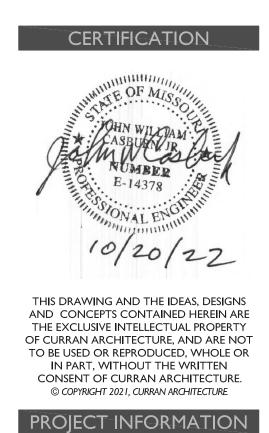






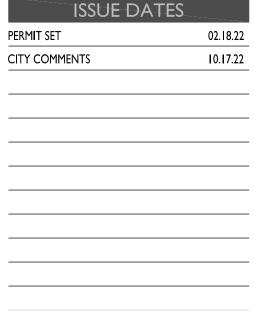
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LEE'S SUMMIT LOGISTICS BUILDING A LOT I

> NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086



210300

OFFICE POWER



north

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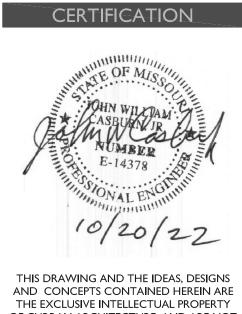
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LEE'S SUMMIT LOGISTICS BUILDING A LOT I

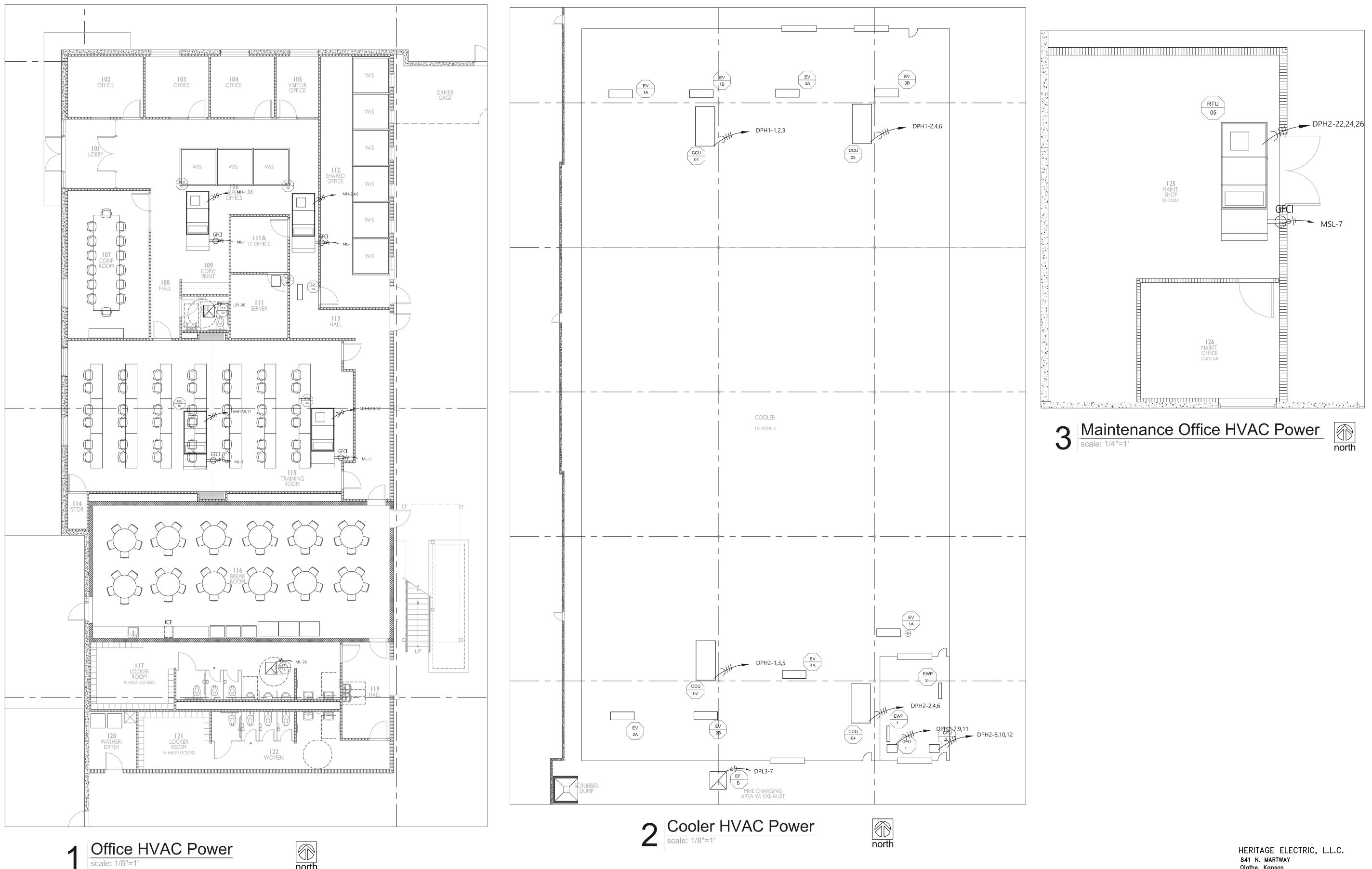
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HVAC POWER



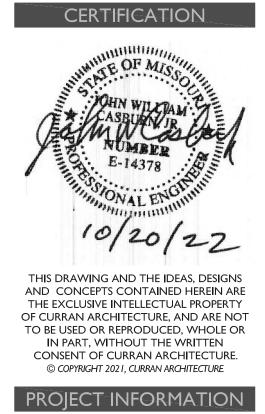


north



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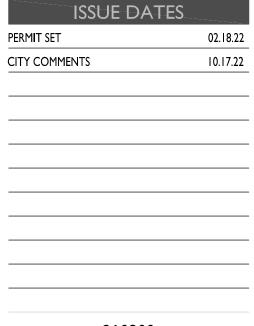
LEE'S SUMMIT LOGISTICS BUILDING A LOT I

> NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086





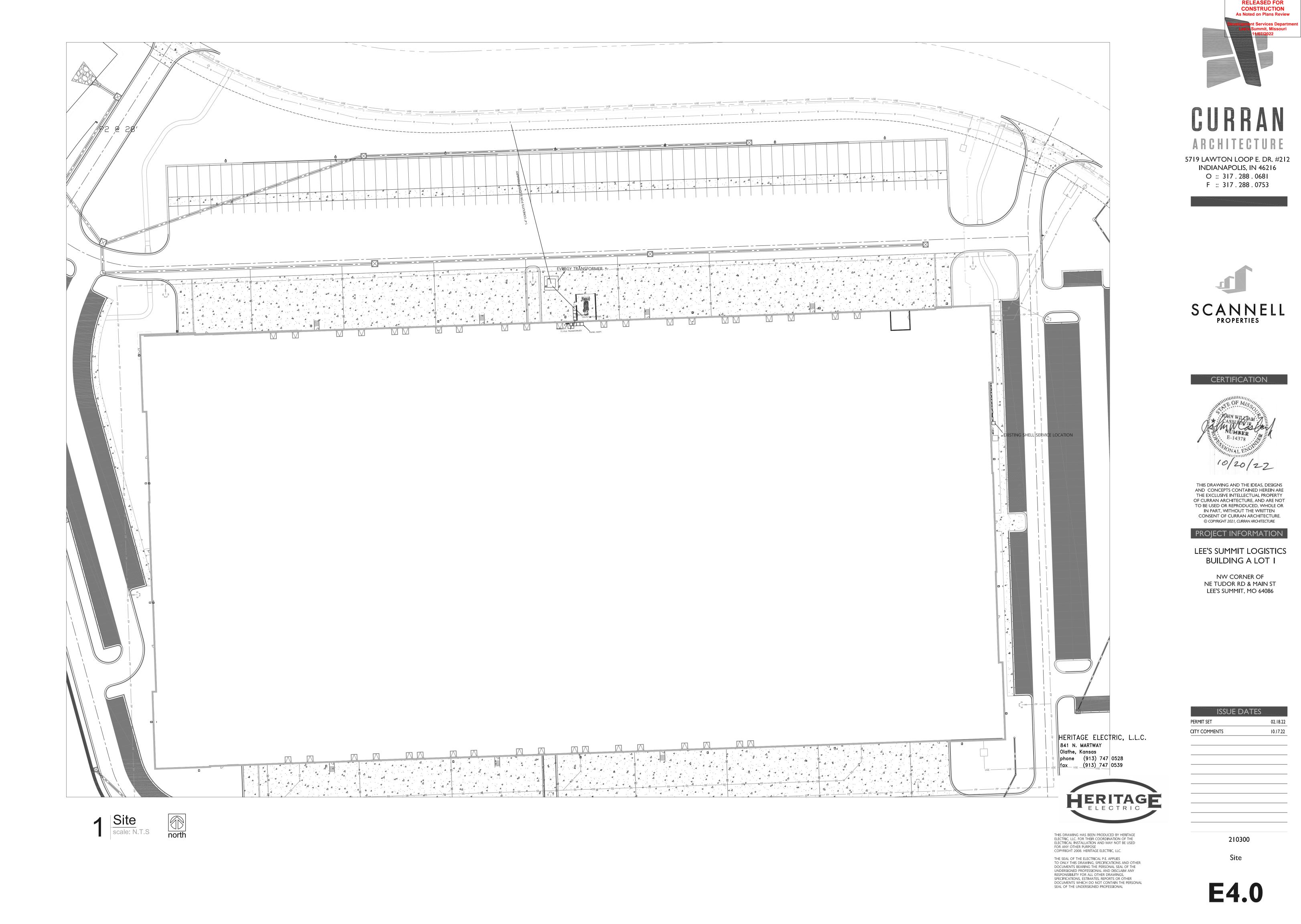
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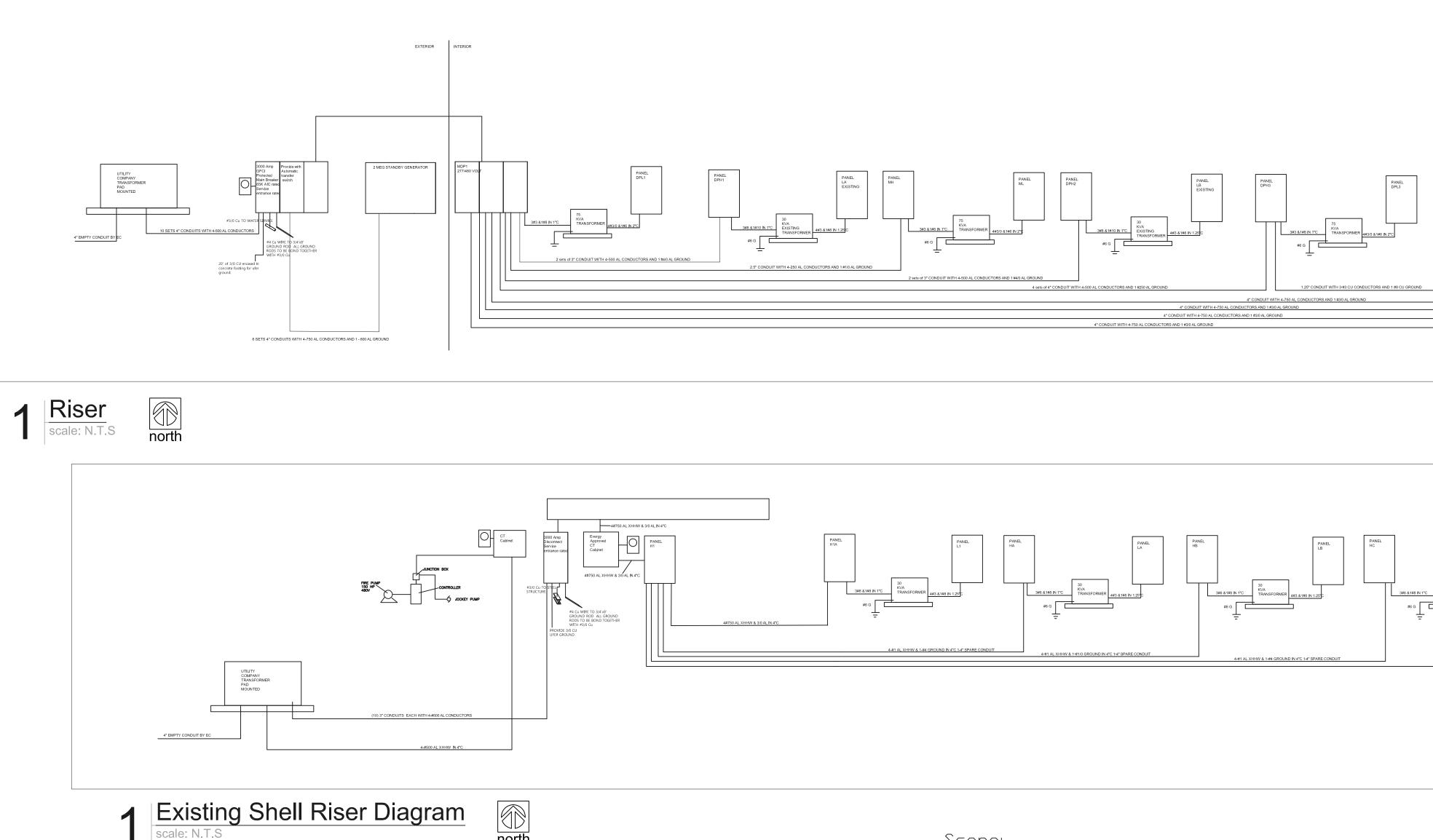


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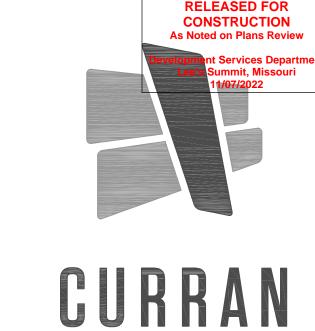
OFFICE HVAC







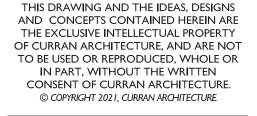
	ידי כסאטעוד פין פר	0 AL CONDUCTORS 44 GU WHE TO 3/4/8" (ROUND ROB ALL BOUND RODS TO BE BOND TOGETHER WITH #3/0 CU WITH #3/0 CU 8 SETS 4* CONDUITS WITH 4-750 AL CONDUCTORS AND 1 - 600 AL GROUND			UIT WITH 4-500 AL CONDUCTORS AND 1 #40 AL GF	ROUND	UND 2 sets of 3° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4 sets of 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4 sets of 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4 sets of 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4 sets of 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND 4° CONDUIT WITH 4-500 AL CONDUCTORS AND 1 6400 AL GROUND
1 Ris	er N.T.S north						
	4° EMPTY CONDUIT BY EC	UTIUTY COMPANY COMPANY PAD MOUNTED (10) 3° CONE	UUITS EACH WITH 44500 AL CONDUCTORS	#3/0 Cu TOISTEL #3/0 Cu TOISTEL #4 Cu WIRI	E VOS JAL XHHW & 30 AL IN 4°C E VOS VOS AL XHHW & 30 AL IN 4°C CT Cabinet #750 AL XHHW & 30 AL IN 4°C E TO 3/4'-8° YOD AL GROUND E BOND TOGETHER Cu	4#750 AL XHHW & 30 AL IN 4°C	
	1 Existing scale: N.T.S	ng Shell Riser Di		north			Scope: Provide electrical for new TI in existing warehouse All Electrical work shall be as per NEC 2017. All work shall be done by qualified electricians.
							All branch wiring shall be copper. Devices shall be 20a commercial orade and color shall be
TYPE	MANUFACTURER	CATALOG NO.	LAMPS	MOUNTING	VOLTS	REMARKS	All branch wiring shall be copper. Devices shall be 20a commercial grade and color shall be
TYPE A	MANUFACTURER Columbia Lighting	CATALOG NO. CBT24-LS40			VOLTS 277	REMARKS DR EQUAL	All branch wiring shall be copper. Devices shall be 20a commercial grade and color shall be
			LAMPS	MOUNTING			All branch wiring shall be copper. Devices shall be 20a commercial grade and color shall be
A	Columbia Lighting	CBT24-LS40	LAMPS LED	MOUNTING CEILING	277	OR EQUAL	All branch wiring shall be copper. Devices shall be 20a commercial grade and color shall be
A A1	Columbia Lighting	CBT24-LS40 CBT22-LS40	LAMPS LED LED	MOUNTING CEILING CEILING	277	DR EQUAL DR EQUAL DR EQUAL PROVIDE WITH INTEGRAL DCCUPANCY SENSOR SAME AS TYPE B WITH	All branch wiring shall be copper. Devices shall be 20a commercial grade and color shall be
A A1 B	Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting	CBT24-LS40 CBT22-LS40 PEL2-40MV-EDU	LAMPS LED LED	MOUNTING CEILING CEILING CEILING	277 277 277	OR EQUAL         OR EQUAL         OR EQUAL         PROVIDE WITH INTEGRAL         OCCUPANCY SENSOR         SAME AS TYPE B WITH         EMERGENCY BALLAST         PROVIDE WITH INTEGRAL	All branch wiring shall be copper. Devices shall be 20a commercial grade and color shall be
A A1 B BE	Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting	CBT24-LS40 CBT22-LS40 PEL2-40MV-EDU PEL2-40MV-EDU	LAMPS LED LED LED LED	MOUNTING CEILING CEILING CEILING CEILING	277 277 277 277 277	OR EQUAL         OR EQUAL         OR EQUAL         PROVIDE WITH INTEGRAL         DCCUPANCY SENSOR         SAME AS TYPE B WITH         EMERGENCY BALLAST         PROVIDE WITH INTEGRAL         DCCUPANCY SENSOR         SAME AS TYPE C WITH	All branch wining shall be copper. Devices shall be 20a commercial grade and color shall be
A A1 B BE C	Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting GE Lighitng	CBT24-LS40 CBT22-LS40 PEL2-40MV-EDU PEL2-40MV-EDU ABC1X30473C×××	LAMPS LED LED LED LED LED	MOUNTING CEILING CEILING CEILING CEILING CEILING	277 277 277 277 277 277 277	OR EQUAL         OR EQUAL         OR EQUAL         PROVIDE WITH INTEGRAL         DCCUPANCY SENSOR         SAME AS TYPE B WITH         EMERGENCY BALLAST         PROVIDE WITH INTEGRAL         DCCUPANCY SENSOR         SAME AS TYPE C WITH         SAME AS TYPE C WITH         PROVIDE WITH INTEGRAL         DCCUPANCY SENSOR         SAME AS TYPE C WITH         PROVIDE WITH INTEGRAL         PROVIDE WITH INTEGRAL	Devices shall be 20a commercial grade and color shall be <u>SPECIFICATIONS</u>
A A1 B BE C CE	Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting GE Lighitng GE Lighitng GE Lighitng	CBT24-LS40 CBT22-LS40 PEL2-40MV-EDU PEL2-40MV-EDU ABC1X30473C××× ABC1X30473C×××	LAMPS LED LED LED LED LED LED	MOUNTING CEILING CEILING CEILING CEILING CEILING CEILING	277 277 277 277 277 277 277 277	OR EQUAL         OR EQUAL         OR EQUAL         PROVIDE WITH INTEGRAL         DCCUPANCY SENSOR         SAME AS TYPE B WITH         EMERGENCY BALLAST         PROVIDE WITH INTEGRAL         DCCUPANCY SENSOR         SAME AS TYPE C WITH         SAME AS TYPE C WITH         EMERGENCY BALLAST	Devices shall be 20a commercial grade and color shall be
A A1 B BE C C CE D	Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting GE Lighitng GE Lighitng GE Lighitng GE Lighitng	CBT24-LS40 CBT22-LS40 PEL2-40MV-EDU PEL2-40MV-EDU ABC1X30473C××× ABC1X30473C××× ABC1X30475C×××	LAMPS LED LED LED LED LED LED LED	MOUNTING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING	277 277 277 277 277 277 277 277 277 277	Image:	Devices shall be 20a commercial grade and color shall be <u>SPECIFICATIONS</u> 1. CONDUIT ABOVE GRADE SHALL BE EMT UNLESS OTHERWISE NOTED 2. CONDUIT BELOW GRADE SHALL BE EMT UNLESS OTHERWISE NOTED 3. CONNECTIONS SHALL BE MALL BE SIGN PVC UNLESS OTHERWISE NOTED 3. CONNECTIONS SHALL BE MALL BE SIGN SCREW CONNECTORS
A A1 B BE C C CE D E	Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting GE Lighitng GE Lighitng GE Lighitng GE Lighitng GE Lighitng	CBT24-LS40         CBT22-LS40         PEL2-40MV-EDU         PEL2-40MV-EDU         ABC1X30473C×××         ABC1X30473C×××         ABC1X30475C×××         EWS3-4-E3-D1-40-3-DKBZ	LAMPS LED LED LED LED LED LED LED LED	MOUNTING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING WALL	277 277 277 277 277 277 277 277 277 277	Image:	Devices shall be 20a commercial grade and color shall be         SPECIFICATIONS         1. CONDUT BROVE GRADE SHALL BE EMI UNLESS OTHERWISE NOTED.         2. CONDUT BROVE GRADE SHALL BE EMI UNLESS OTHERWISE NOTED.         2. CONDUT BLOW GRADE SHALL BE EMI UNLESS OTHERWISE NOTED.         2. CONDUT BLOW GRADE SHALL BE EMI UNLESS OTHERWISE NOTED.         2. CONDUCT SHALL BE MIGH DIVICUAL SES OTHERWISE NOTED.         2. CONNECTIONS SHALL BE MIGH DIVICUAL SES OTHERWISE NOTED.         2. CONNECTIONS SHALL BE MIGH DIVICUAL SES OTHERWISE NOTED.         3. CONNECTIONS SHALL BE MIGH DIVICUAL SES OTHERWISE NOTED.         3. CONNECTIONS SHALL BE MIGH DIVICUAL SES OTHERWISE NOTED.         4. CONNECTIONS SHALL BE MIGH DIVICUAL SES OTHERWISE NOTED.         5. SEARCH WEING SHALL BE FOR FINAL CONNECTIONS TO LIGHT FITTURES PROVIDE WITH 10' WHIP ON ALL HIGHBAYS.         8. SEARCH WEING SHALL BE AS FRE CURRENT INCE 2005         8. WING SHALL BE AS FRE CURRENT INCE 2005         8. WING DEVICES SHALL BE OF COMMERCIAL GRADE RATED AT 20 AMP.         8. WING DEVICES SHALL BE OF COMMERCIAL GRADE RATED AT 20 AMP.         8. WING DEVICES SHALL BE AS FRE CURRENT INCE 2005         8. WING DEVICES SHALL BE AS FRE CURRENT INCE 2005         8. WING DEVICES SHALL BE AS FRE CURRENT INCE 2005         8. WING DEVICES SHALL BE COMMERCIAL GRADE RATED AT 20 AMP.         8. WING DEVICES MALL BE AS FRE CURRENT INCE 2005         8. WING DEVICES COMMERCIAL GRADE
A A1 B BE C C CE D E DE	Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting GE Lighitng GE Lighitng GE Lighitng GE Lighitng GE Lighitng GE Lighitng	CBT24-LS40         CBT22-LS40         PEL2-40MV-EDU         PEL2-40MV-EDU         ABC1X30473C×××         ABC1X30473C×××         ABC1X30475C×××         EWS3-4-E3-D1-40-3-DKBZ         ABC1X30475C×××	LAMPS LED LED LED LED LED LED LED LED LED	MOUNTING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING WALL CEILING	277 277 277 277 277 277 277 277 277 277	Image:	Devices shall be 20a commercial grade and color shall be         SPECIFICATIONS         1. CONDUT ABOVE GRADE SHALL BE EMT UNLESS OTHERWISE NOTED         2. CONDUT BELOW GRADE SHALL BE EMT UNLESS OTHERWISE NOTED         3. CONDUT BELOW GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED         3. CONDUT BELOW GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED         3. CONDUT BELOW GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED         3. CONDUCT CONS SHALL BE HADE USING SET SCREW CONNECTORS         3. CONNECTIONS SHALL BE HADE USING SET SCREW CONNECTORS         3. CONNECTIONS SHALL BE HADE USING SET SCREW CONNECTORS         3. CONNECTIONS SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED         3. MAILEN MINING SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED         3. WINING SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED         3. WINING SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED         3. WINING SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED         3. WINING SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED         3. WINING SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED         3. WINING SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED         3. WINING SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED         3. WINING SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED         3. WINING SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED         3. WINING SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED         3. WINING
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A A1 B BE C C C C C C C C C C C C C C C C C	Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting Columbia Lighting GE Lighitng	CBT24-LS40 CBT22-LS40 PEL2-40MV-EDU PEL2-40MV-EDU ABC1X30473C××× ABC1X30473C××× ABC1X30473C××× EWS3-4-E3-D1-40-3-DKBZ ABC1X30475C××× CCR CUWZ-PC	LAMPS LED	MOUNTING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING CEILING WALL WALL WALL	277 277 277 277 277 277 277 277 277 277	OR EQUAL         OR EQUAL         OR EQUAL         PROVIDE WITH INTEGRAL         OCCUPANCY SENSOR         SAME AS TYPE B WITH         EMERGENCY BALLAST         PROVIDE WITH INTEGRAL         OCCUPANCY SENSOR         SAME AS TYPE C WITH         BREGENCY BALLAST         PROVIDE WITH INTEGRAL         OCCUPANCY SENSOR         SAME AS TYPE C WITH         EMERGENCY BALLAST         OR EQUAL         OR EQUAL         OR EQUAL         OR EQUAL         OR EQUAL         OR EQUAL	Devices shall be 20a commercial grade and color shall be         SPECIFICATIONS         1. CONDUIT ABOVE GRADE SHALL BE EMT UNLESS OTHERWISE NOTED.         2. CONDUIT ABOVE GRADE SHALL BE FIRIT UNLESS OTHERWISE NOTED.         2. CONDUIT ABOVE GRADE SHALL BE FIRIT UNLESS OTHERWISE NOTED.         2. CONDUIT ABOVE GRADE SHALL BE FIRIT PVC UNLESS OTHERWISE NOTED.         3. CONDUIT ABOVE GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED.         4. CONDUIT ABOVE GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED.         5. CONDUIT ABOVE GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED.         6. CONDUIT ABOVE GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED.         6. CONDUIT ABOVE GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED.         6. CONDUIT ABOVE GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED.         8. CONDUCTIONS SHALL BE ADDING STICK SCHORE CONNECTIONS TO UGHT FIXTURES PROVIDE WITH 10' WHIP ON ALL HIGHBAYS.         8. MICH WARKING SHALL BE AS DER CURRENT NEC 2008         9. WIENS DEVICES SHALL BE CONTERCIONS TO UGHT FIXTURES PROVIDE WITH 10' WHIP ON ALL HIGHBAYS.         9. WIENS DEVICES SHALL BE CONTERCICL GRADE RATED AT 20 AMP.         1. WIENS DEVICES SHALL BE CONTERCICL GRADE RATED AT 20 AMP.         1. NISALLATION SHALL ADHERE TO ADA STANDARDS         1. ALUMENT WARVARUS LISADARDEN SER LARGER THEN 42 OTHERWISE COPPER         1. ALUMENT MARVARUS LOR ADE SERVICES
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ARCHITECTURE 5719 LAWTON LOOP E. DR. #212 INDIANAPOLIS, IN 46216 O :: 317.288.0681 F :: 317.288.0753



CERTIFICATION



PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT I

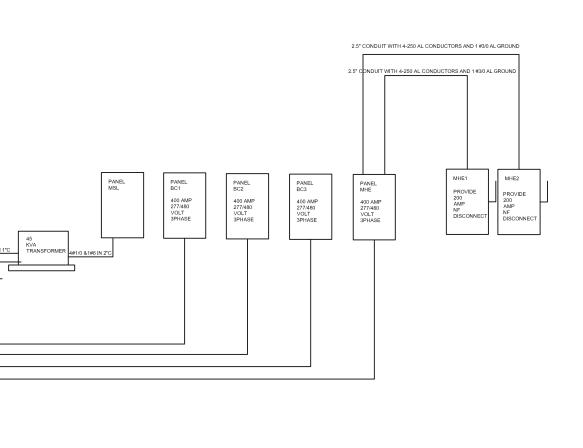
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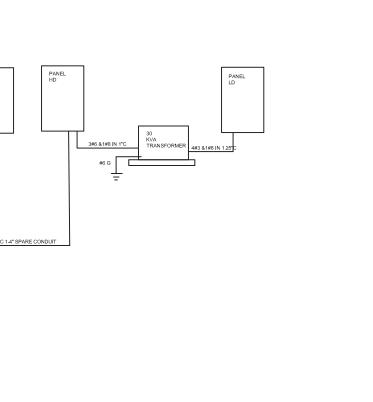
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100 AMP 600 VOLT NON-FUSED DISCCONECT



HERITAGE ELECTRIC, L.L.C. 841 N. MARTWAY Olathe, Kansas phone (913) 747 0528 fax (913) 747 0539



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by architect.

# ELECTRICAL GENERAL NOTES

- 1. WORK INCLUDED. FURNISH ALL LABOR, MATERIAL, SERVICES AND SKILLED SUPERVISION NECESSARY FOR THE CONSTRUCTION, ERECTION, INSTALLATION CONNECTIONS, TESTING AND ADJUSTMENTS OF ALL CIRCUITS AND ELECTRICAL EQUIPMENT SPECIFIED HEREIN, OR NOTED ON THE DRAWINGS, AND ITS DELIVERY TO THE OWNER COMPLETE IN ALL RESPECTS READY FOR USE.
- 2. CONTRACT DRAWINGS THE CONTRACT DRAWINGS ARE SHOWN IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK. INDICATING THE GENERAL ARRANGEMENT OF EQUIPMENT, CONDUIT AND OUTLETS. VERIFY SPACES FOR THE INSTALLATION OF THE MATERIALS BASED ON ACTUAL DIMENSIONS OF EQUIPMENT FURNISHED. IF A QUESTION EXISTS AS TO THE EXACT INTENDED LOCATION OF OUTLETS OR EQUIPMENT, OBTAIN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK.
- 3. MINIMUM SIZE OF CONDUIT SHALL BE 1/2" UNLESS NOTED OTHERWISE.
- 4. ALL WIRING FOR LIGHTING, RECEPTACLE AND POWER CIRCUITS WHERE NOT SHOWN ON DRAWINGS SHALL BE WITH #12 CONDUCTORS, NUMBER AS REQUIRED IN CONDUIT SIZED PER N.E.C. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR ALL BRANCH CIRCUITS AND FEEDERS. HOMERUNS TO PANEL SHALL BE IN INDIVIDUAL CONDUITS, UNLESS NOTED OTHERWISE, WITH CIRCUITS AS SHOWN.
- 5. THE USE OF TYPE 'MC' AND TYPE 'AC' CABLE IS PERMITTED IN ALL AREAS PER NEC AND LOCAL CODE REQUIREMENTS.
- 6. THE USE OF ALUMINUM CONDUCTORS WITH AMPACITY EQUIVALENT TO COPPER IS PERMITTED IN ALL AREAS PER NEC REQUIREMENTS.
- 7. ALL JUNCTION BOXES, PULL BOXES, AND PANELBOARDS SHALL BE RIGIDLY ATTACHED TO STRUCTURE.
- 8. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACE AVAILABLE, AND WITHOUT INTERFERENCES.
- 9. ALL CONDUIT, BOXES, ETC. SHALL BE CONCEALED OR MOUNTED FLUSH WITH CEILING OR WALL CONSTRUCTION, CONDUITS SHALL BE MOUNTED AS HIGH AS POSSIBLE. NO SURFACE MOUNTED CONDUIT, BOXES, ETC. WILL BE PERMITTED WITHOUT PERMISSION OF THE ENGINEER PRIOR TO INSTALLATION. ALL CONDUIT PENETRATIONS SHALL BE FIRE-CAULKED AS REQUIRED.

3         15512           5         15512           7         RTU A         15512           9         15512         15512           11         15512         15512           13         RTU A         15512           15         15512         15512           16         15512         15512           17         15512         15512           19         RTU A         15512           23         15512         15512           24         15512         15512           25         RTU A         15512           26         RTU A         15512           27         15512         15512           28         HVLS FAN         1000           35         HVLS FAN         1000           36         HVLS FAN         1000           37         AIR CURTAIN         3333           34         AIR CURTAIN         3333           35         AIR CURTAIN         3333           35         AIR CURTAIN         3333           35         AIR CURTAIN         3333           361         AIR CURTAIN         3333	5512           000           333           333           333           333           333           333           333           333           333           333           333           333           333           333           333	· · /3 4#4, 1-#8G · · /3 4#4, 1-#8G · · /3 4#4, 1-#8G	PHASE         WIRE           A         4#4, 1#8G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         4#12, 1#12G           C         -           A         -      <	OCP           70/3           20/3           70/3           70/3           70/3           20/3           20/3           20/3           20/3           20/3           20/3           20/3           20/3           20/3           20/3	15512           15512           15512           15512           500           15512           500           15512           501           15512           7501           15512           15512           15512           15512           15512           15512           15512           15512           15512           15512           500           HVLS FAN           500           HVLS FAN           500           HVLS FAN           3333           3333           3333           3333           3333	CCT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40	CCT         SERVES           1         DOCK EQUIPMENT           3         DOCK EQUIPMENT           5         DOCK EQUIPMENT           7         EXHAUSTFAN           9         SPARE           11         SPARE           13         SPARE           14         SPARE           15         SPARE           17         19           21         23           25         27           29         31           33         35           37         37	VA 800 400 560 560 	OCP         WIRE           20/1         2#12,1-#12G           20/1         2#12,1-#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         A           B         C           A         B           C         A           B         C           A         B           C         A		OCP 7 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	VA SERVES 600 DOCK EQUIPMENT 800 GFCI RECEP 800 GFCI RECEP SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	
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RTU A         15512           IVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           AIR CURTAIN         3333           AIR CURT AIN         3333           AIR CURT AIN         3333           AIR CURT AIN         3333           AIR CURTAIN         3333           <	5512           5000           3333           333           333           333           333           333           333	/3       4#4, 1-#8G         /3       4#4, 1-#8G         /3       4#4, 1-#8G         /3       4#4, 1-#8G         /3       4#12, 1-#12G         /3       4#12, 1.#12G         /3       4#12, 1.#12G	C         -           A         4#4, 1#8G           B         -           C         -           A         4#40, 1#10G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         4#12, 1#12G           B         -           C         -           A         4#12, 1#12G           A         -	20/3 20/3 20/3 20/3 20/3	15512           15512         RTU A           15512         S00           15512         RTU A           15512         RTU A           15512         RTU A           15512         RTU A           15512         IS512           15512         RTU A           15512         S00           15512         HVLS FAN           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN	6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38	5         DOCK EQUIPMENT           7         EXHAUSTFAN           9         SPARE           11         SPARE           13         SPARE           15         SPARE           17         19           21         23           25         27           29         31           33         35	600	20/1         2#12,1-#12G           20/1         2#12,1-#12G           20/1         2#12,1-#12G           20/1         2#12,1-#12G           20/1         2#12,1-#12G           20/1         2-#12,1-#12G           20/1         2-#12,1-#12G	C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         A           B         C           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           B         C           B         C           B         C           B         C           B         C           B         C           B         C           C         C           A         B           C         C           A         B           C         C           A         B           C         C           A         B           B         C     <		20/1 20/1 20/1 20/1 20/1	800 GFCI RECEP SPARE SPARE SPARE SPARE SPARE	
RTU A         15512           ITST         15512           RTU A         15512           IVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           AIR CURTAIN         3333           AIR CURTAIN         3333           AIR CURT AIN         3333           AIR CURT AIN         3333           AIR CURTAIN         3333 <td< td=""><td>5512         70/3           5512         5512           5512         70/3           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           000         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3</td><td>/3       4#4, 1-#8G         /3       4#4, 1-#8G         /3       4#4, 1-#8G         /3       4#4, 1-#8G         /3       4#12, 1-#12G         /3       4#12, 1.#12G         /3       4#12, 1.#12G</td><td>A         4#4, 1#8G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -<td>20/3 20/3 20/3 20/3 20/3</td><td>15512         RTU A           15512         500           15512         RTU A           15512         RTU A           15512         RTU A           15512         IS512           15512         RTU A           15512         IS512           15512         IS512           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN</td><td>8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38</td><td>7         EXHAUSTFAN           9         SPARE           11         SPARE           13         SPARE           15         SPARE           17         19           21         23           25         27           29         31           33         35</td><td></td><td>20/1         2#12,1-#12G           20/1         2#12,1-#12G           20/1         2#12,1-#12G           20/1         2-#12,1-#12G           20/1         2-#12,1-#12G</td><td>A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         B           C         B           B         C           A         B           C         B           B         C           A         B           C         C           A         B           B         C           B         C           B         C           B         C           B         C           B         C           B         C           C         C           C         C</td><td></td><td>20/1 20/1 20/1 20/1</td><td>SPARE SPARE SPARE SPARE SPARE</td><td></td></td></td<>	5512         70/3           5512         5512           5512         70/3           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           000         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3	/3       4#4, 1-#8G         /3       4#4, 1-#8G         /3       4#4, 1-#8G         /3       4#4, 1-#8G         /3       4#12, 1-#12G         /3       4#12, 1.#12G         /3       4#12, 1.#12G	A         4#4, 1#8G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         - <td>20/3 20/3 20/3 20/3 20/3</td> <td>15512         RTU A           15512         500           15512         RTU A           15512         RTU A           15512         RTU A           15512         IS512           15512         RTU A           15512         IS512           15512         IS512           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN</td> <td>8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38</td> <td>7         EXHAUSTFAN           9         SPARE           11         SPARE           13         SPARE           15         SPARE           17         19           21         23           25         27           29         31           33         35</td> <td></td> <td>20/1         2#12,1-#12G           20/1         2#12,1-#12G           20/1         2#12,1-#12G           20/1         2-#12,1-#12G           20/1         2-#12,1-#12G</td> <td>A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         B           C         B           B         C           A         B           C         B           B         C           A         B           C         C           A         B           B         C           B         C           B         C           B         C           B         C           B         C           B         C           C         C           C         C</td> <td></td> <td>20/1 20/1 20/1 20/1</td> <td>SPARE SPARE SPARE SPARE SPARE</td> <td></td>	20/3 20/3 20/3 20/3 20/3	15512         RTU A           15512         500           15512         RTU A           15512         RTU A           15512         RTU A           15512         IS512           15512         RTU A           15512         IS512           15512         IS512           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN	8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38	7         EXHAUSTFAN           9         SPARE           11         SPARE           13         SPARE           15         SPARE           17         19           21         23           25         27           29         31           33         35		20/1         2#12,1-#12G           20/1         2#12,1-#12G           20/1         2#12,1-#12G           20/1         2-#12,1-#12G           20/1         2-#12,1-#12G	A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         B           C         B           B         C           A         B           C         B           B         C           A         B           C         C           A         B           B         C           B         C           B         C           B         C           B         C           B         C           B         C           C         C           C         C		20/1 20/1 20/1 20/1	SPARE SPARE SPARE SPARE SPARE	
RTU A         15512           ITU A         15512           RTU A         15512           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           AIR CURTAIN         3333	5512         70/3           5512         5512           5512         70/3           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           000         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3	/3       4#4, 1-#8G         /3       4#4, 1-#8G         /3       4#4, 1-#8G         /3       4#4, 1-#8G         /3       4#12, 1-#12G         /3       4#12, 1.#12G         /3       4#12, 1.#12G	A         4#4, 1#8G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         - <td>20/3 20/3 20/3 20/3 20/3</td> <td>15512         RTU A           15512         500           15512         RTU A           15512         RTU A           15512         RTU A           15512         IS512           15512         RTU A           15512         IS512           15512         IS512           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN</td> <td>8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38</td> <td>9         SPARE           11         SPARE           13         SPARE           15         SPARE           17         19           21         23           25         27           29         31           33         35</td> <td></td> <td>20/1         2-#12,1-#12G           20/1         2-#12,1-#12G           20/1         2-#12,1-#12G</td> <td>B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         B           C         B           B         C           A         B           B         C           B         C           B         C           B         C           B         C           B         C           B         C           B         C           C         C           B         C           B         C           B         C           C         C           C         C           B         C</td> <td></td> <td>20/1 20/1 20/1</td> <td>SPARE SPARE SPARE</td> <td></td>	20/3 20/3 20/3 20/3 20/3	15512         RTU A           15512         500           15512         RTU A           15512         RTU A           15512         RTU A           15512         IS512           15512         RTU A           15512         IS512           15512         IS512           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN	8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38	9         SPARE           11         SPARE           13         SPARE           15         SPARE           17         19           21         23           25         27           29         31           33         35		20/1         2-#12,1-#12G           20/1         2-#12,1-#12G           20/1         2-#12,1-#12G	B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         B           C         B           B         C           A         B           B         C           B         C           B         C           B         C           B         C           B         C           B         C           B         C           C         C           B         C           B         C           B         C           C         C           C         C           B         C		20/1 20/1 20/1	SPARE SPARE SPARE	
15512           RTU A         15512           15512         15512           RTU A         15512           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           AIR CURTAIN         3333           AIR CURTAIN <td>5512           5512           70/3           5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           000           20/3           333           333           333           333           333           333           333           333           333           333           333           333           333           333           333           333</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>C         -           A         4#4, 1#8G           B         -           C         -           A         4#4, 1#8G           B         -           C         -           A         4#4, 1#8G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           A         -           A         -</td> <td>20/3 20/3 20/3 20/3 20/3</td> <td>15512           500           15512         RTU A           15512         IS512           15512         IS512           15512         RTU A           15512         IS512           15512         IS512           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN</td> <td>12           14           16           18           20           22           24           26           28           30           32           34           36           38</td> <td>11       SPARE         13       SPARE         15       SPARE         17       19         21       23         25       27         29       31         33       35</td> <td></td> <td>20/1 2-#12,1-#12G 20/1 2-#12,1-#12G</td> <td>C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C</td> <td></td> <td>20/1 20/1</td> <td>SPARE SPARE</td> <td></td>	5512           5512           70/3           5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           000           20/3           333           333           333           333           333           333           333           333           333           333           333           333           333           333           333           333	· · · · · · · · · · · · · · · · · · ·	C         -           A         4#4, 1#8G           B         -           C         -           A         4#4, 1#8G           B         -           C         -           A         4#4, 1#8G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           A         -           A         -	20/3 20/3 20/3 20/3 20/3	15512           500           15512         RTU A           15512         IS512           15512         IS512           15512         RTU A           15512         IS512           15512         IS512           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN	12           14           16           18           20           22           24           26           28           30           32           34           36           38	11       SPARE         13       SPARE         15       SPARE         17       19         21       23         25       27         29       31         33       35		20/1 2-#12,1-#12G 20/1 2-#12,1-#12G	C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C		20/1 20/1	SPARE SPARE	
RTU A         15512           ITU A         15512           RTU A         15512           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           AIR CURTAIN         3333	5512         70/3           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           000         20/3           033         20/3           333         333           333         333           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3	· · · · · · · · · · · · · · · · · · ·	A         4#4, 1#8G           B         -           C         -           A         4#4, 1#8G           B         -           C         -           A         4#41, 1#8G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           A         -           A         -	20/3 20/3 20/3 20/3 20/3	15512         RTU A           15512         15512           15512         RTU A           15512         RTU A           15512         N           550         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN	14           16           18           20           22           24           26           28           30           32           34           36           38	13       SPARE         15       SPARE         17       19         21       23         25       27         29       31         33       35		20/1 2-#12,1-#12G	A         2#12,1#12G           B         2#12,1#12G           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A		20/1	SPARE	
RTU A         15512           ITU A         15512           RTU A         15512           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           AIR CURTAIN         3333           AIR CURTAIN         3333           AIR CURT AIN         3333           AIR CURTAIN         3333 <tr< td=""><td>5512         70/3           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           000         20/3           033         20/3           333         333           333         333           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3</td><td>· · · · · · · · · · · · · · · · · · ·</td><td>A         4#4, 1#8G           B         -           C         -           A         4#4, 1#8G           B         -           C         -           A         4#41, 1#8G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           A         -           A         -</td><td>20/3 20/3 20/3 20/3 20/3</td><td>15512         RTU A           15512         15512           15512         RTU A           15512         RTU A           15512         N           550         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN</td><td>14           16           18           20           22           24           26           28           30           32           34           36           38</td><td>15       SPARE         17       19         21       23         25       27         29       31         33       35</td><td></td><td></td><td>A         2#12,1#12G           B         2#12,1#12G           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A</td><td></td><td>20/1</td><td></td><td></td></tr<>	5512         70/3           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           5512         5512           000         20/3           033         20/3           333         333           333         333           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3	· · · · · · · · · · · · · · · · · · ·	A         4#4, 1#8G           B         -           C         -           A         4#4, 1#8G           B         -           C         -           A         4#41, 1#8G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           A         -           A         -	20/3 20/3 20/3 20/3 20/3	15512         RTU A           15512         15512           15512         RTU A           15512         RTU A           15512         N           550         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN	14           16           18           20           22           24           26           28           30           32           34           36           38	15       SPARE         17       19         21       23         25       27         29       31         33       35			A         2#12,1#12G           B         2#12,1#12G           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A		20/1		
15512           RTU A         15512           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           AIR CURTAIN         3333           AIR CURTAIN         3333           AIR CURT AIN         3333           AIR CURTAIN         3333           AIR	5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           000           20/3           333           333           333           333           333           333           333           333           333           333           333           333           333           333           333           333           333           333	· · · · · · · · · · · · · · · · · · ·	B         -           C         -           A         4#4, 1#8G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           A         -           A         -	20/3 20/3 20/3 20/3 20/3	15512           15512           15512           15512           15512           15512           15512           15512           500           HVLS FAN           500           HVLS FAN           500           HVLS FAN           3333           3333           3333           3333           AIR CURTAIN           3333	16           18           20           22           24           26           28           30           32           34           36           38	15         SPARE           17         19           21			B         2#12,1#12G           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           B         C           B         C           B         C           B         C           B         C           B         C           B         C           B         C           B         C           B         C			SPARE	
RTU A         15512           RTU A         15512           IS512         15512           RTU A         15512           RTU A         15512           IS512         15512           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           AIR CURTAIN         3333           AIR CURTAIN         333	5512           5512           5512           5512           5512           5512           5512           5512           5512           5512           000           20/3           333	· · · · · · · · · · · · · · · · · · ·	C         -           A         4#4, 1#8G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         -           C         -           B         -           C         -           A         -	20/3 20/3 20/3 20/3	15512           15512         RTU A           15512           15512           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN	18           20           22           24           26           28           30           32           34           36           38	17       19       21       23       25       27       29       31       33       35			C           A           B           C           A           B           C           A           B           C           A           B           C           A           B           C           B           C           B           C           B           B				
RTU A         15512           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           AIR CURTAIN         3333           AIR CURTAIN         3333           AIR CURT AIN         3333           AIR CURT AIN         3333           AIR CURTAIN         3333           BIT DEL DEL DEL	5512         70/3           5512         5512           5512         5512           5512         5512           5512         5512           000         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3	· · · · · · · · · · · · · · · · · · ·	A         4#4, 1#8G           B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           A         4#12, 1#12G           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           A         4#12, 1#12G           A         -	20/3 20/3 20/3 20/3	15512         RTU A           15512         15512           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           300         HVLS FAN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN	20 22 24 26 28 30 32 34 36 38	19       21       23       25       27       29       31       33       35			A           B           C           A           B           C           A           B           C           B           C           B           B           B           B           B           B				
Instant         15512           RTU A         15512           RTU A         15512           HVLS FAN         1000           AIR CURTAIN         3333           AIR CURT AIN         3333           AIR CURTAIN         3333           BEC         35456	5512         5512           5512         20/3           5512         5512           5512         000           20/3         20/3           333         20/3           333         20/3           333         333           333         333           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3	· · · · · · · · · · · · · · · · · · ·	B         -           C         -           A         4#10, 1#10G           B         -           C         -           A         4#12, 1.#12G           B         -           C         -           A         4#12, 1.#12G           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           B         -           C         -           A         4#12, 1.#12G           A         -	20/3 20/3 20/3 20/3	15512           15512           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN	22 24 26 28 30 32 34 36 38	21       23       25       27       29       31       33       35			B         C           A         B           C         A           B         C           A         B           B         B           B         B				
Instant         15512           RTU A         15512           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           AIR CURTAIN         3333           BEC         35456	5512         5512         20/3           5512         5512         5512           5512         000         20/3           000         333         20/3           333         333         333           333         20/3         333           333         20/3         333           333         20/3         333           333         20/3         333           333         20/3         333           333         20/3         333           333         20/3         333           333         20/3         333           333         20/3         333           333         20/3         333           333         20/3         333           333         20/3         333	/3 4#12, 1.#12G /3 4#12, 1.#12G /3 4#12, 1.#12G	C         -           A         4#10, 1#10G           B         C           A         4#12, 1#12G           B         C           A         4#12, 1#12G           B         C           A         4#12, 1#12G           B         C           B         C           B         C           B         C           B         C           A         4#12, 1#12G           A         4#12, 1#12G           A         A	20/3 20/3 20/3	15512           500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN	24 26 28 30 32 34 36 38	23           25           27           29           31           33           35			C A B C A A A A A A A A A A A A A A A A				
RTU A         15512           IVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           HVLS FAN         1000           AIR CURTAIN         3333           BEC         113566           BC2         35456	5512         20/3           5512	/3 4#12, 1.#12G /3 4#12, 1.#12G /3 4#12, 1.#12G	A 4#10, 1.#10G B C A 4#12, 1.#12G B C A 4#12, 1.#12G B C B B 4#12, 1.#12G C B 4#12, 1.#12G C A	20/3 20/3 20/3	500         HVLS FAN           500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN	26 28 30 32 34 36 38	25           27           29           31           33           35			A B C A A B A A A A A A A A A A A A A A				
15512           HVLS FAN           HVLS FAN           1000           HVLS FAN           1000           HVLS FAN           1000           HVLS FAN           1000           AIR CURTAIN           3333	5512           5512           000         20/3           000         333           333         20/3           333         20/3           333         20/3           333         20/3           333         333           333         20/3           333         20/3           333         333           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3	/3 4#12, 1.#12G /3 4#12, 1.#12G /3 4#12, 1.#12G	B           C           A           B           C           A           4#12, 1#12G           B           C           A           4#12, 1#12G           B           C           B           C           B           C           B           C           A           4#12, 1#12G           C           A           A           A           A	20/3 20/3 20/3	500         HVLS FAN           500         HVLS FAN           3333         AIR CURTAIN           3333         3333           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN	28 30 32 34 36 38	27 29 31 33 35			B C A B				
9         15512           1         HVLS FAN         1000           3         HVLS FAN         1000           5         HVLS FAN         1000           7         AIR CURTAIN         3333           9	5512           000         20/3           000         333           333         20/3           333         333           333         20/3           333         20/3           333         333           333         333           333         20/3           333         333           333         333           333         20/3           333         333           333         20/3           333         333           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3	/3	C           A         4#12, 1#12G           B         C           A         4#12, 1#12G           B         C           B         C           B         C           B         C           B         C           B         C           C         A#12, 1#12G           C         A           A         4#12, 1#12G           A         A#12, 1#12G           C         A	20/3	500         HVLS FAN           3333         AIR CURTAIN           3333         3333           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN	30 32 34 36 38	29 31 33 35			C A B				
I         HVLS FAN         1000           3         HVLS FAN         1000           5         HVLS FAN         1000           7         AIR CURTAIN         3333           9         3333         3333           9         3333         3333           9         AIR CURTAIN         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333	000         20/3           000         000           333         20/3           333         333           333         20/3           333         333           333         20/3           333         333           333         333           333         333           333         333           333         20/3           333         333           333         333           333         333	/3	A         4#12, 1#12G           B         C           A         4#12, 1#12G           B         C           B         C           B         4#12, 1#12G           C         C           B         4#12, 1#12G           C         A           A         4#12, 1#12G           A         A           C         A           A         A	20/3	3333         AIR CURTAIN           3333         3333           3333         AIR CURTAIN           3333         AIR CURTAIN           3333         AIR CURTAIN	32 34 36 38	31 33 35			A B				
3         HVLS FAN         1000           5         HVLS FAN         1000           7         AIR CURTAIN         3333           9         3333           1         3333           1         3333           1         3333           3         AIR CURT AIN           333         3333           7         3333           9         AIR CURT AIN           3333         3333           1         3333           3         3333           5         AIR CURT AIN           3333         3333           7         3333           9         3333           7         3333           9         3333           7         3333           9         3333           1         AIR CURTAIN         3333           3         3333           5         3333         3333           6         3333         3333           7         3333         3333           8         3333         3333           9         3333         3333           1         3333	000         000           333         20/3           333         333           333         20/3           333         333           333         333           333         20/3           333         333           333         333           333         333           333         333           333         20/3           333         333           333         333	/3	B C A 4#12, 1#12G B C B 4#12, 1#12G C C A	20/3	3333         3333           3333         AIR CURTAIN           3333         AIR CURTAIN	34 36 38	33 35			В				
5         HVLS FAN         1000           7         AIR CURTAIN         3333           3         AIR CURTAIN         3333           3         AIR CURTAIN         3333           3         AIR CURTAIN         3333           5         3333         3333           6         AIR CURTAIN         3333           7         3333         3333           8         3333         3333           9         AIR CURTAIN         3333           1         3333         3333           2         3333         3333           3         AIR CURTAIN         3333           3         3333         3333           4         AIR CURTAIN         3333           3         3333         3333           5         AIR CURTAIN         3333           6         3333         3333           7         AIR CURTAIN         3333           8         3333         3333           9         3333         3333           10         3333         3333           11         3333         3333           11         88640         88640 <td>000         333         20/3           333         333         333           333         20/3         333           333         20/3         333           333         20/3         333           333         20/3         333           333         333         333           333         20/3         333           333         333         333           333         333         333</td> <td>/3 4#12, 1.#12G</td> <td>C A 4#12, 1#12G B C C B 4#12, 1#12G C C C A A</td> <td></td> <td>3333         3333         AIR CURTAIN           3333         3333         AIR CURTAIN</td> <td>36 38</td> <td>35</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	000         333         20/3           333         333         333           333         20/3         333           333         20/3         333           333         20/3         333           333         20/3         333           333         333         333           333         20/3         333           333         333         333           333         333         333	/3 4#12, 1.#12G	C A 4#12, 1#12G B C C B 4#12, 1#12G C C C A A		3333         3333         AIR CURTAIN           3333         3333         AIR CURTAIN	36 38	35							
AIR CURTAIN         3333	333         20/3           333         333           333         20/3           333         20/3           333         333           333         20/3           333         333           333         333           333         333           333         333           333         333           333         333           333         333	/3 4#12, 1.#12G	A 4#12, 1#12G B C B 4#12, 1#12G C C A		3333         AIR CURTAIN           3333         3333	38								
3333         3333           AIR CURTAIN         3333           3333           PANEL MHE EQUIPMENT         88640           PANEL MHE EQUIPMENT         88640           PANEL DPH2         1151386           113366         113366           BC2         35456	333	/3 4#12, 1.#12G	B C B 4#12, 1#12G C A		3333		37			C	,			
3333         3333           AIR CURT AIN         3333           3333         3333           AIR CURT AIN         3333           AIR CURT AIN         3333           AIR CURT AIN         3333           AIR CURTAIN         3333           BEC DPH2         115138           BC 2         35456	333	/3 4#12, 1.#12G	C B 4#12, 1-#12G C A	20/3		40				A				
3333         3333           AIR CURT AIN         3333           3333         3333           AIR CURT AIN         3333           AIR CURT AIN         3333           3333         3333           AIR CURT AIN         3333           AIR CURTAIN         3333           BIR CURTAI	333         20/3           333         333           333         20/3           333         20/3           333         20/3           333         333           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3		C B 4#12, 1-#12G C A	20/3	2222		39			В				
3         AIR CURT AIN         3333           5         3333           6         3333           7         3333           8         3333           9         AIR CURT AIN           3333         3333           9         AIR CURT AIN           3333         3333           9         3333	333         20/3           333         333           333         20/3           333         20/3           333         20/3           333         333           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3		B 4#12, 1#12G C A	20/3	3333	42	41			с				
3333         3333           AIR CURTAIN         3333           3333         3333           3333         3333           3333         3333           3333         3333           3335         AIR CURTAIN           3336         3333           3337         3333           3338         3333           3339         3333           3331         AIR CURTAIN           3333         3333 <tr< td=""><td>333         333           333         20/3           333         20/3           333         333           333         20/3           333         333           333         20/3           333         333           333         333</td><td></td><td>C A</td><td></td><td></td><td>44</td><td></td><td>I</td><td></td><td>I I</td><td></td><td></td><td>I</td><td></td></tr<>	333         333           333         20/3           333         20/3           333         333           333         20/3           333         333           333         20/3           333         333           333         333		C A			44		I		I I			I	
3333         3333           AIR CURTAIN         3333           3333         3333           AIR CURTAIN         3334           AIR CURTAIN         3334           AIR CURTAIN         3334           AIR CURTAIN         3334           BEG         88640           PANEL DPH2         115138           I13386         113386           BC2         35456	333         20/3           333         20/3           333         333           333         20/3           333         333           333         20/3           333         20/3           333         333           333         333	3 4#12, 1#12G	A		3333	46	NOT ES:			LOAD SUMMARY	CONN	NEC	DEM LOAD BALANCE PER PHASE	
AIR CURTAIN         3333           Image: State St	333         20/3           333         333           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3           333         20/3	'3 4#12, 1-#12G			3333	48	1 NEMA 1 ENCLOSURE			1-LIGHTING				
1         3333           3         3333           3         3333           5         AIR CURTAIN         3333           7         3333           9         3333           1         AIR CURTAIN         3333           3         3333           3         3333           3         3333           5         3333           6         3333           7         AIR CURTAIN         3333           7         AIR CURTAIN         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         9         9         9           9         PANEL MHE EQUIPMENT         88640           9         PANEL DPH2         115138           1         113266         113386           5         BC2         35456	333         333           333         20/3           333         20/3           333         333		U T#12, 1#120	20/3		50						1.25		
3333         3333           5         AIR CURTAIN         3333           7         3333           9         3333           1         AIR CURTAIN         3333           3         3333         3333           3         3333         3333           5         3333         3333           6         3333         3333           7         AIR CURTAIN         3333           8         PANEL CURTAIN         3333           9         3333         3333           9         3333         3333           9         PANEL MHE EQUIPMENT         88640           9         PANEL DPH2         115138           10         113566         113366           36         C2         35456	333 333 20/3 333 333 333			20/3	3333	52	2 PROVIDE BOLT ON BREAKERS			2-RECEPTACLES	4560		4560 PHASE B	
5         AIR CURTAIN         3333           7         3333           9         3333           1         AIR CURTAIN         3333           3         3333           5         3333           7         AIR CURTAIN         3333           5         3333           7         AIR CURTAIN         3333           9         3333         3333           9         3333         3333           1         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           1         3333         3333           1         3333         3333           1         88640         88640           5         C         88640           6         88640         115138           1         113586         113386           3         113386         113386           5         BC2         35456	333 20/3 333 333		C		3333		3			3-KITCHEN		0.65	0 PHASE C	
7         3333           9         3333           1         AIR CURTAIN         3333           3         3333           5         3333           7         AIR CURTAIN         3333           9         3333           1         3333           9         3333           1         3333           9         3333           1         3333           1         3333           2         33333           9         3333           1         3333           3         2           3         3333           1         3333           3         3333           9         3333           3333         3333           3         3333           3         3333           3         3333           3         3333           3         3333           3         3333           3         3333           3         3333           3         3333           3         3333           3334         3334	333 333	0 1 #40 4 #400	A	00/0		54				4-HVAC	0		0 LOWEST PHASE PLUS 10%	
9         3333           1         AIR CURTAIN         3333           3         3333           5         3333           7         AIR CURTAIN         3333           9         3333           1         3333           9         3333           1         3333           9         3333           1         3333           9         3333           9         3333           1         3333           9         88640           5         88640           6         88640           9         PANEL MHE EQUIPMENT         88640           8         88640         88640           9         PANEL DPH2         115138           1         113586         113386           5         BC2         35456           7         35456         35456	333	/3 4-#12, 1-#12G	B 4-#12, 1-#12G	20/3		56				5-NON-CONT	0	1	0 1200 + 10%	
1         AIR CURTAIN         3333           3         3333           5         3333           7         AIR CURTAIN         3333           9         3333           1         3333           3         PANEL MHE EQUIPMENT         88640           5         88640           7         88640         88640           9         PANEL DPH2         115138           1         113586         113386           5         BC2         35456           7         35456         35456			C		3333	58				LARGEST MOTOR	0	0.25	0 REBALANCE LOADS	
3333         3333           AIR CURTAIN         3333           AIR CURTAIN         3333           9         3333           9         PANEL MHE EQUIPMENT           88640         88640           7         88640           9         PANEL DPH2           115138         113586           9         BC2           35456         35456			В		3333	60				T OT AL VA	4560		4560	
5         3333           7         AIR CURTAIN         3333           8         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         3333         3333           9         9         9         9           9         PANEL MHE EQUIPMENT         88640           9         PANEL DPH2         115138           9         113586         113386           9         BC2         35456           7         35456	333 20/3	/3 4-#12, 1-#12G	C 2 SETS '4-#500 A	AL, 1-#4/0 ALG 600/3		62				TOTAL AMPS	12.7		12.7	
7         AIR CURTAIN         3333           9         3333           1         3333           3         PANEL MHE EQUIPMENT         88640           5         88640           7         88640           9         PANEL DPH2         115138           1         113586           3         113386           5         BC2         35456	333		A		120325	64							•	
9         3333           1         3333           3         PANEL MHE EQUIPMENT         88640           5         88640           7         88640           9         PANEL DPH2         115138           1         113586           3         113386           5         BC2         35456           7         35456	333		В		121175	66								
1         3333           13         PANEL MHE EQUIPMENT         88640           15         88640           17         88640           19         PANEL DPH2         115138           11         113586         113386           13         113386         113386           15         BC2         35456           17         35456         35456	333 20/3	/3 4-#12, 1-#12G	C 4-#250 AL, 1-#1/0	0 AL G 200/3	18220 PANEL MH	68								
73         PANEL MHE EQUIPMENT         88640           75         88640           77         88640           79         PANEL DPH2         115138           31         113586         113386           33         113386         113386           35         BC2         35456           37         35456         35456	333		В		18580	70								
5         88640           7         88640           9         PANEL DPH2         115138           1         113586         113386           3         113386         113386           5         BC 2         35456           7         35456         35456	333		С		16620	72	PANEL: DPL3	200 MLO	120/ 208 V, 3PH, 4	W.+GRND.			NEW PANEL	
7         88640           9         PANEL DPH2         115138           1         113586         113586           3         113386         113386           5         BC2         35456           7         35456         35456	8640 400/3	0/3 4#750 AL, 1-#3/0 AL G	B 4 SETS '4-#500 A	AL, 1-#250 AL G 1200/3	178924 PANEL DPH3	74	CCT SERVES	VA	OCP WIRE	PHASE WIRE		OCP	VA SERVES	CC
7         88640           9         PANEL DPH2         115138           1         113586         113586           3         113386         113386           5         BC 2         35456           7         35456         35456	8640		C		178924	76	1 DOCK EQUIPMENT	800	20/1 2-#12,1-#12G	A 2-#12,1-#12G		20/1	600 DOCK EQUIPMENT	
PANEL DPH2         115138           31         113586           33         113386           35         BC2         35456           37         35456	8640		В		178924	78	3 DOCK EQUIPMENT	400	20/1 2-#12,1-#12G	B 2-#12,1-#12G		20/1	800 DOCK EQUIPMENT	
11         113586           13         113386           15         BC2         35456           17         35456		0/3 2 SETS '4-#500 AL, 1-#4/0 ALG	C 4-#750 AL, 1-#3/0	DALG 400/3		80	5 DOCK EQUIPMENT	600	20/1 2-#12,1-#12G	<b>c</b> 2-#12,1-#12G		20/1	800 GFCI RECEP	
3         113386           5         BC2         35456           7         35456			A		35456	82	7 EXHAUST FAN		20/1 2-#12,1-#12G	A 2-#12,1-#12G	]	20/1	800 GFCI RECEP	
5 BC2 35456 7 35456					35456			560		-	]			
35456		0/3 4#750 AL, 1-#3/0 AL G	C 4-#750 AL, 1-#3/0	ALC 400/2		84	9 COOLER RECEP	1200	20/1 2-#12,1-#12G	B 2-#12,1-#12G	]	20/1	1200 COOLER RECEP	
		.5 4#730 AL, 1-#3/0 AL G		0 AL G 400/3		86	11 SPARE		20/1 2-#12,1-#12G	C 2-#12,1-#12G	!	20/1	1200 COOLER RECEP	
1 25/56			B		35456	88	13 SPARE		20/1 2-#12,1-#12G	A 2-#12,1-#12G	'		1200 COOLER RECEP	
	5456		C		35456	90	15 SPARE		20/1 2-#12,1-#12G	<b>B</b> 2-#12,1-#12G		20/1	SPARE	
WAREHOUSE LIGHTS 1260		/1 3-#12, 1-#12G	A 3-#12, 1-#12G	20/1	1260 WAREHOUSE LIGHTS	92	17			С				
3 WAREHOUSE LIGHTS 1260			B 3#12, 1-#12G	20/1		94	19			A				
WAREHOUSE LIGHTS 1260		/ <b>1</b> 3#12, 1-#12G	C 3-#12, 1-#12G	20/1		96	21			В				
TRANSFORMER	100/3	0/3 43#3, 1-#8G	A 3-#12, 1-#12G	20/1	2110 WAREHOUSE LIGHTS	98	23			с				
			B 3-#12, 1-#12G	20/1	1470 WAREHOUSE LIGHTS	100	25	<u> </u>		A				
			C 3#12, 1-#12G	20/1		102	27			B				
I	1	I			1 1		29			C	]	+		
:			LOAD SUMMARY	CONN NEC	DEM LOAD BALANCE PER PHASE		31			A		+		
1 NEMA 3R ENCLOSURE			1-LIGHTING	14310 1.25		200500					)	├		
						322598	33			В	/			
2 PROVIDE BOLT ON BREAKERS			2-RECEPT ACLES	0 NEC	0 PHASE B	321516	35			C		<b>↓</b>		
3			3-KITCHEN	0 0.65		305394	37			A	/			
			4HVAC	2394604 1	2394604 LOWEST PHASE PLUS 10%		39			В	/			
			5-NON-CONT	4500 1		335933.4	41			С				
			LARGEST MOTOR	0 0.25	0 PHASES ARE BALANCED			· · · · · · · · · · · · · · · · · · ·						
			TOTAL VA	2413414	2416991.5		NOT ES:			LOAD SUMMARY	CONN	NEC	DEM LOAD BALANCE PER PHASE	
			TOTAL AMPS	2903.0	2907.3		1 NEMA 1 ENCLOSURE			1-LIGHTING	0		0 PHASE A	
							2 PROVIDE BOLT ON BREAKERS			2-RECEPTACLES	10160		10080 PHASE B	
											10100		0 PHASE B	
							3			3-KITCHEN		0.65		
										4HVAC		1	0 LOWEST PHASE PLUS 10%	
										5-NON-CONT	0	1	0 2600 + 10%	
			<u> </u>			1				LARGEST MOTOR	0	0.25	0 REBALANCE LOADS	
L: DPH3 1200 MB					NEWPANEL					TOTAL VA	10160		10080	

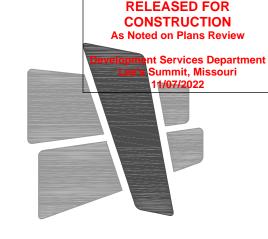
PARE. PPYate <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>LARGEST M</th><th></th><th>0 0</th><th>0.25</th><th>0 2600 + 10% 0 REBALANCE LOADS</th><th></th></t<>															LARGEST M		0 0	0.25	0 2600 + 10% 0 REBALANCE LOADS	
	3 1200 ME	B	277/ 480 V 3PH 4W	TCBND				NEWPANEL		ן ו ר								0.20	10080	
0         0			, ,																28.0	
									CCT											
1         0			70/3 4#4, 1#8G		4#4, 1-#8G	70/3	_	RTU A												
0         0			-		-															
			-		-					PANE		600A N	NI O	277/ 480 V 3PH 4	4W.+GRND			NF	WPANEL	
v         v			70/3 4-#4, 1-#8G		4#4, 1-#8G	70/3		RIUA			-					14405				
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q     q     k     k     k     q </td <td></td> <td></td> <td>7012 4 #4 1 #90</td> <td></td> <td>-</td> <td>70/2</td> <td></td> <td>1:</td> <td></td> <td></td> <td></td>			7012 4 #4 1 #90		-	70/2											1:			
			70/3 4/14/00		-	10/3														
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n <th< td=""><td></td><td></td><td>70/3 4.#4 1.#8G</td><td></td><td>4.#4 1.#8G</td><td>70/3</td><td></td><td>RTUA</td><td></td><td></td><td></td><td></td><td></td><td>40/5 2-#12, 1-#120</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>			70/3 4.#4 1.#8G		4.#4 1.#8G	70/3		RTUA						40/5 2-#12, 1-#120						
			-		-	10/0														
R         R			-		-									20/1 2#12 1#12G						
vi <td></td> <td></td> <td>20/3 4#10, 1-#10G</td> <td></td> <td>4#10, 1-#10G</td> <td>20/3</td> <td></td> <td>HVLS FAN</td> <td></td> <td>925 MAU1</td> <td></td>			20/3 4#10, 1-#10G		4#10, 1-#10G	20/3		HVLS FAN											925 MAU1	
n Norm n				В			-													
n       n	AN ·	1000					500	HVLS FAN												
	RTAIN ;	3333	20/3 4-#12, 1-#12G	A	4#12, 1-#12G	20/3	3333	AIR CURTAIN	32							3-#8,1-#10G	2			
V         V <th< td=""><td>:</td><td>3333</td><td></td><td>В</td><td></td><td></td><td>3333</td><td></td><td>34</td><td></td><td></td><td></td><td></td><td></td><td></td><td>,</td><td></td><td></td><td></td><td></td></th<>	:	3333		В			3333		34							,				
n <th< td=""><td></td><td>3333</td><td></td><td>С</td><td></td><td></td><td>3333</td><td></td><td>36</td><td>25</td><td></td><td></td><td></td><td></td><td>A</td><td></td><td></td><td>5</td><td>817</td><td></td></th<>		3333		С			3333		36	25					A			5	817	
0			20/3 4-#12, 1-#12G	A	4#12, 1-#12G	20/3	3333	AIR CURTAIN	38											
n) no <td></td> <td>3333</td> <td></td> <td>В</td> <td></td> <td></td> <td>3333</td> <td></td> <td>40</td> <td>29</td> <td></td>		3333		В			3333		40	29										
n <td< td=""><td></td><td></td><td></td><td>С</td><td></td><td></td><td>3333</td><td></td><td>42</td><td>31</td><td></td><td></td><td></td><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td></td<>				С			3333		42	31					A					
n         n	RTAIN	3333	20/3 4-#12, 1-#12G	В	4#12, 1-#12G	20/3	3333	AIR CURTAIN	44	33				-	В					
a       Name       Nam       Name       Name <t< td=""><td></td><td></td><td></td><td>С</td><td></td><td></td><td></td><td></td><td>46</td><td>35</td><td></td><td></td><td></td><td>-</td><td>С</td><td></td><td></td><td></td><td></td><td></td></t<>				С					46	35				-	С					
n         n														50/3 3-#8, 1-#10G				-		
0			20/3 4#12, 1-#12G	В	4#12, 1#12G	20/3	3333	AIR CURTAIN	50	39	TRANSFORMER		2248		В			-		
0         0										41	TRANSFORMER		2048	-	C			•		
0																				
n         n			20/3 4-#12, 1-#12G			20/3		AIR CURTAIN		NOT ES:					LOAD SUM	MARY C	ONN N	NEC DEM	LOAD BALANCE PER PHASE	
0       0					-						1 NEMA 1 ENCLOSURE				1-LIGHTING	i i	8000 1	1.25	10000 PHASE A	
n         n			0010 A 1/40 A 1/400		4 1440 4 14400						2 PROVIDE BOLT ON BREAKERS						6096 N	NEC	6096 PHASE B	
n <th< td=""><td></td><td></td><td>20/3 4-#12, 1-#12G</td><td></td><td>4#12, 1-#12G</td><td>20/3</td><td></td><td>AIR CURIAIN</td><td></td><td></td><td>3</td><td></td><td></td><td></td><td></td><td></td><td>0 0</td><td></td><td>0 PHASE C</td><td></td></th<>			20/3 4-#12, 1-#12G		4#12, 1-#12G	20/3		AIR CURIAIN			3						0 0		0 PHASE C	
n       No																	327414	1	327414 LOWEST PHASE PLUS 10%	
n     n <td></td> <td></td> <td>0010 4 #10 1 #100</td> <td></td> <td>4.#40_4.#400</td> <td>0010</td> <td></td> <td>600 113386 + 10%</td> <td>1</td>			0010 4 #10 1 #100		4.#40_4.#400	0010													600 113386 + 10%	1
n       n			20/3 4#12, 1-#125		4#12, 1#125	20/3		AIR CORIAIN											0 PHASES ARE BALANCED	
n     N     N     P </td <td></td> <td>344110</td> <td></td>																			344110	
n <td< td=""><td></td><td></td><td>20/2 4.#12 1.#12G</td><td></td><td>4#12 1.#12G</td><td>20/2</td><td></td><td>AIR CURTAIN</td><td></td><td></td><td></td><td></td><td></td><td></td><td>TOTAL AM</td><td>PS</td><td>411.5</td><td></td><td>413.9</td><td></td></td<>			20/2 4.#12 1.#12G		4#12 1.#12G	20/2		AIR CURTAIN							TOTAL AM	PS	411.5		413.9	
n         n			2013 4112, 11125		4112, 11120	2013														
n m <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																				
in       memory       in       j			20/1 3#12, 1-#12G		3#12, 1-#12G	20/1		WAREHOUSE LIGHTS												
10     memory     10																				
1/2     0	DUSE LIGHT S	1680					1680	WAREHOUSE LIGHTS												
0     0<	DUSE LIGHT S	1680	20/1 3#12, 1-#12G	В	3#12, 1-#12G	20/1	1890	WAREHOUSE LIGHTS	86	PANEL:	DPH1	600A MLC	0 2	277/ 480 V.3PH.4W	/.+GRND.			NEW	PANEL	
####CodeC Lents         ###C         ###C        ###C#	DUSE LIGHT S	1890	20/1 3-#12, 1-#12G	С	3#12, 1-#12G	20/1	1890	WAREHOUSE LIGHTS	88							DE	OCB			ССТ
n       number	DUSE LIGHT S	1890	20/1 3-#12, 1-#12G	A	3#12, 1-#12G	20/1	2520	WAREHOUSE LIGHTS	90											
90       VARH-VLOSE LIDIFIS       100       010       482, 147.30       C       687, 147.20       210       100       0.01       303       242, 147.30       C       242, 147.30	OUSE LIGHTS	1890		В	3#12, 1-#12G	20/1	2110	WAREHOUSE LIGHTS	92		00.01						100/3			2
0       0	OUSE LIGHTS	1260	20/1 3-#12, 1-#12G	С	3#12, 1-#12G	20/1	1890	WAREHOUSE LIGHTS	94											6
0/1       0/4		1680				20/1					TU A						70/3			8
##       #       #       _       _       _       _       _       _       _       100       100         ##       #				С	3#12, 1-#12G	20/1	2730	WAREHOUSE LIGHTS									10/3			10
1       2x0       2x																				10
103     103     104     1     <	DUSE LIGHTS	2520	20/1 3-#12, 1-#12G								AREHOUSE LIGHTS			0/1 2-#12,1-#12G			20/1		WAREH OU SE LIGHTS	12
105     1																				14
107       1 <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<>																				18
100     100 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>20</td> <td>00 20</td> <td>0/3 4-#10,1-#12G</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20</td>							_					20	00 20	0/3 4-#10,1-#12G						20
111     113     114     115     124 NSFORMER     116     123     124 NSFORMER     126     124 NSFORMER     126														· ·						20
13     143 <td></td> <td>24</td>																				24
15       100/3       90/1       90/3       90/1       90/3       90/1       90/3       90/1       90/3      <	CODINER .		10000 21/2 4 1/02		2//2 4 //22		_	TRANSFORMER												26
11/1       11/2       1/2       1/2       1/2       <	URMER		100/3 3#3, 1-#86		3#3, 1-#8G	75/3		IKANSFURMER												28
119																				30
I NEMA 3R ENCLOSURE       LOAD SUMMARY       CONN       NEC       DEM       LOAD BALANCE PER PHASE       178924         1 NEMA 3R ENCLOSURE       1LIGHTING       42890       1.25       53562.5       PHASE A       178924         2 PROVIDE BOLT ON BREAKERS       3       0       NEC       0       PHASE B       178924         3       3       1RANSFORMER       3/8(1.#10G)       A       C				С					120											32
TES:       LOAD SUMMARY       CONN       NEC       DEM       LOAD BALANCE PER PHASE       1         1 NEMA 3R ENCLOSURE       1.1GHT ING       4280       1.25       5356.5       PHASE A       178924       178924         2 PROVIDE BOLT ON BREAKERS       3       0       NEC       0       PHASE C       178924       178924       198914       178924       178924       198914       178924       198916.4       3       1       5       178924       198914       198916.4       178924       1       178924       1       178924       1       198916.4       1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>00000</td><td>0000</td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>34</td></t<>						00000	0000							-						34
1 NEMA 3R ENCLOSURE       1.LIGHTING       42850       1.25       53562 3 PHASE A       178924         2 PROVIDE BOLT ON BREAKERS       2 RECEPTACLES       0       NEC       0 PHASE B       178924         3 NITCHEN       0       0.65       0 PHASE C       178924         4 HNAC       53227       1       532272       LOWEST PHASE PLUS 100       178924         4 HNAC       532272       1       532272       LOWEST PHASE PLUS 100       178924         4 HNAC       532272       1       532272       LOWEST PHASE PLUS 100       178924         4 HNAC       532272       1       532272       LOWEST PHASE PLUS 100       178924         1 NEMA 3R ENCLOSURE       2048       -       0       0       -       -       -         1 NEMA 1 ENCLOSURE       1       400       178924       + 10%       196816.4       - <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>36</td>														-						36
2 PROVIDE BOLT ON BREAKERS											RANSFORMER	180	800 50	D/3 3-#8, 1-#10G			-			38
3 MITCHEN       0       0.65       0 PHASE C       178924         4.HVAC       532272       1       532272       LOWEST PHASE PLUS 10%       - <t< td=""><td>E BOLT ON BREAKERS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td></t<>	E BOLT ON BREAKERS																			4
4.HVAC       532272       1       532272 LOWEST PHASE PLUS 10%       1         5.NO.CONT       4500       1       4500       178924       + 10%       196816.4         LARGEST MOTOR       0       0.25       0       PHASES ARE BALANCED       1       NOTES:       LOAD SUMMARY       CONN       NEC       DEM       LI         TOTAL VAMPS       579622       590334.5									178924					-						42
LARGEST MOTOR       0       0.25       0       PHASES ARE BALANCED       NOTES:       LOAD SUMMARY       CON       NEC       DEM       L         TOTAL VA       579622       590334.5       590334.5       1       NEMA 1 ENCLOSURE       1       1.11GHTING       6930       1.25       8662.5       P         TOTAL AMPS       697.2       7/10.1       7/10.1       7/10.1       2       PROVIDE BOLT ON BREAKERS       2       PROVIDE BOLT ON BREAKERS       6096       NEC       6096       NEC       6096       NEC       6096       P							-					20-	-							*
LARGEST MOTOR       0       0.25       0       PHASES ARE BALANCED       1       NEMA 1 ENCLOSURE         TOTAL VA       579622       590334.5       590334.5       1       1       NEMA 1 ENCLOSURE       1.1GHTING       6930       1.25       8662.5       P         TOTAL VA       579622       590334.5       2       7101       2       PROVIDE BOLT ON BREAKERS       2       PROVIDE BOLT ON BREAKERS       6096       NEC       6096       P									196816.4	NOTES							NEC.	DEM	LOAD BALANCE PER PHASE	
1 OT AL VA         5/96/22         590/334.5           1 OT AL VA         5/96/22         590/334.5           1 OT AL VA         5/96/22         7/10.1           1 OT AL VA         6/97.2         7/10.1											EMA 1 ENCLOSURE									12
1101ALAMPS 69/21 /101									1										23 PHASE A	12
3 3KITCHEN 0 0.65 0 P				TOTALAM	PS	697.2	710.1	1											0 PHASEC	12
4HVAC 349851 1 348851 L										」  ĭ										

PANEL:	DPH1 600A	MLO	277	480 V, 3PH,	4W.+GRND.				NEW P	ANEL	
CCT	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	CCT
1	CCU 01	39334	150/3	2-#12, 1-#12G	A	2-#12,1-#12G		150/3	39334	CCU 03	2
3		39334		2-#12, 1-#12G	В	2-#12,1-#12G			39334		4
5		39334		2-#12, 1-#12G	С	2-#12,1-#12G			39334		6
7	RTU A	15512	70/3	2-#12, 1-#12G	A	2-#12,1-#12G		70/3	15512	RTU A	8
9		15512			В	2-#12,1-#12G			15512		10
11		15512			С	2-#12,1-#12G			15512		12
13	WAREHOUSE LIGHTS	1680	20/1	2-#12, 1-#12G	A	2-#12,1-#12G		20/1	1680	WAREHOUSE LIGHTS	14
15	WAREHOUSE LIGHTS	1260	20/1	2-#12, 1-#12G	В	3-#8,1-#10G		50/3	6925	MAU1	16
17	WAREHOUSE LIGHTS	2310	20/1	2-#12, 1-#12G	С				6925		18
19	OVERHEAD DOOR	200	20/3	4-#10,1-#12G	A				6925		20
21		200			В						22
23		200			С						24
25					A						26
27					В						28
29					С						30
31					A						32
33			-		В						34
35			-		С						36
37	TRANSFORMER	1800	50/3	3-#8,1-#10G	A			-			38
39	TRANSFORMER	2248			В			-			40
41	TRANSFORMER	2048	-		C			-			42
NOT ES:					LOAD SUN	IMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1	NEMA 1 ENCLOSURE				1-LIGHTING	G	6930	1.25	8662.5	PHASE A	121977
2	PROVIDE BOLT ON BREAKERS				2-RECEPT	ACLES	6096	NEC	6096	PHASE B	120325
3					3-KITCHEN		0	0.65	0	PHASE C	121175
					4-HVAC		349851	1	349851	LOWEST PHASE PLUS 10%	
					5-NON-CO	NT	600	1	600		132357.5
					LARGEST	MOTOR	0	0.25	0	PHASES ARE BALANCED	·
					TOTAL VA		363477		365209.5		
					TOTAL AN	IPS	437.2		439.3		

PANE	EL: LB 1	00 ML
CCT	SERVES	VA
1	RECEP	8
3	FCU-2	1:
5		11
7	DOCK RECEP	8
9	DOCK RECEP	8
<b>1</b> 1	DOCK RECEP	8
13	SPARE	
15	SPARE	
17		
19		
21		
23		
25		
27		
29		
31		
33		
35		
37		
39		
41		
	•	
NOT ES:		
	1 NEMA 1 ENCLOSURE	
	2 PROVIDE BOLT ON BREAKERS	
	3	

PANE	L: MSL 150	MLO	120	/ 208 V, 3PH,	4W.+GRND.					NEW PANEL	
СТ	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	CCT
1	RECEP	1000	20/1	2-#12,1-#12G	A	2-#12,1-#12G		20/1	1000	RECEP	2
3	RECEP	1000	20/1	2-#12,1-#12G	В	2-#12,1-#12G		20/1	600	RECEP	4
5	RECEP	1000	20/1	2-#12,1-#12G	С	2-#12,1-#12G		50/2	4160	WELDING RECEP	6
7	GFCI RECEP	200	20/1	2-#12,1-#12G	A				4160		8
9	SPARE		20/1	2-#12,1-#12G	В	2-#12,1-#12G		20/1		SPARE	10
11	SPARE		20/1	2-#12,1-#12G	С	2-#12,1-#12G		20/1		SPARE	12
13	SPARE		20/1	2-#12,1-#12G	A	2-#12,1-#12G		20/1		SPARE	14
15	SPARE		20/1	2-#12,1-#12G	В	2-#12,1-#12G		20/1		SPARE	16
17					С						18
19					A						20
21					В						22
23					C						24
25					A						26
27					В						28
29					C						30
31					A						32
33					В						34
35					C						36
37					A						38
39					В						40
41					C						42
DT ES:					LOAD SU	ΜΜΔΡΥ	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHTIN		0			0 PHASE A	
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT	-	4800	NEC		D PHASE B	
	3				3-KIT CHE			0.65		0 PHASE C	
	-				4-HVAC	•	0			LOWEST PHASE PLUS 10%	
					5-NON-CO	NT	8320	1	832		
					LARGEST		0010	0.25		REBALANCE LOADS	
					TOTAL VA		13120		1312		
					TOTAL V		13120		36.4		

PANEL	: MHE 40	0 MLO	277	/ 480 V, 3PH,	4W.+GRND.					NEW PANEL	
ст	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	ССТ
1	MHE EQUIPMENTFEED	44320	200/3	2-#12,1-#12G	A	2-#12,1-#12G		200/3	44320	MHE EQUIPMENT FEED	2
3		44320			В				44320		4
5		44320			C				44320		6
7					A						8
9					В						10
11					С						12
13					A						14
15					В						1
17					С						1
19					A						2
21					В						2
23					С						2
25					A						2
27					В						2
29					C						3
31					A						3
33					В						3
35					C						3
37					A						3
39					В						4
41					C						42
DTES					LOAD SU	MMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	NEMA 1 ENCLOSURE				1-LIGHTIN		0			0 PHASE A	
	PROVIDE BOLT ON BREAKERS				2-RECEPT		221600			0 PHASE B	
3					3-KIT CHE		0			0 PHASE C	
					4-HVAC		0			0 LOWEST PHASE PLUS 10%	
					5-NON-CO	NT	44320	1	4432		
					LARGEST		0			0 PHASES ARE BALANCED	I
					TOTAL V	A	265920		16012	0	
					TOTAL A		319.9		192.		



CURRAN ARCHITECTURE 5719 LAWTON LOOP E. DR. #212 INDIANAPOLIS, IN 46216 O :: 317 . 288 . 0681 F :: 317 . 288 . 0753





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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT I

> NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

ILO	120	/ 208 V, 3PH,	4W.+GRND.					EXISTING		
	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES		ССТ
800	20/1	2-#12,1-#12G	Α	2-#12, 1-#12G		20/1	120	LIGHTS		2
1248	15/2	2-#12,1-#12G	В	2-#12, 1-#12G		20/1	200	GFCI RECEP		4
1248			C	2-#12, 1-#12G		20/1		SPARE		6
800	20/1	2-#12,1-#12G	Α	2-#12, 1-#12G		20/1		SPARE		8
800	20/1	2-#12,1-#12G	В	2-#12, 1-#12G		20/1		SPARE		10
800	20/1	2-#12,1-#12G	C	2-#12, 1-#12G		20/1		SPARE		12
	20/1	2-#12,1-#12G	A	2-#12, 1-#12G		20/1		SPARE		14
	20/1	2-#12,1-#12G	В	2-#12, 1-#12G		20/1		SPARE		16
			C							18
			A							20
			В							22
			C							24
			Α							26
			В							28
			C							30
			Α							32
			В							34
			C							36
			Α							38
			В							40
			С							42
			LOAD SUM		CONN	NEC	DEM	LOAD BALANCE PE		
									K PHASE	(700
			1-LIGHTING		120			PHASE A		1720
			2-RECEPTA	CLES	5696	NEC		PHASE B		2248
			3-KITCHEN		0	0.65		PHASE C	10 100	2048
			4-HVAC	-	200	1		LOWEST PHASE PL		
			5-NON-CON LARGEST N		0		0	1720 REBALANCE LOADS	+ 10%	1892
			TOTAL VA		6016		6046			
			TOTAL AM		16.7		16.8			

HERITAGE ELECTRIC, L.L.C. 841 N. MARTWAY Olathe, Kansas phone (913) 747 0528 fax (913) 747 0539
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ISSUE DA	TES
PERMIT SET	02.18.22
CITY COMMENTS	10.17.22

210300

Panel Schedule



ANEL: LA 10	100 MLO 120/ 208 V, 3PH, 4V	W.+GRND.		EXISTING		PANEL: BC1	400 MLO	277/ 480 V, 3PH,	4W.+GRND.	NEW	PANEL		PANEL: BC2 400	MLO 277/	480 V, 3PH, 4W.+GF	ND.	NEV	PANEL	
SERVES	VA OCP WIRE	PHASE WIRE	OCP V	A SERVES	ССТ	CCT SERVES	VA	OCP WIRE	PHASE WIRE	OCP VA	SERVES	ССТ	CCT  SERVES	VA OCP WIR		PHASE WIRE	OCP VA	SERVES	
RECEP	800 20/1 2-#12,1-#12G	A 2#12,1#12G	20/1		2	1 BATTERY CHARGER	4432	30/3 3.#10,1.#10G	A 3-#10,1-#10G	30/3 4432	BATTERY CHARGER	2	1 BATTERY CHARGER	4432 30/3 3-#*	±10,1-#10G	A 3-#10,1-#10G	30/3 443	2 BATTERY CHARGER	
FCU-1	1248 15/2 2-#12,1-#12G	<b>B</b> 2#12,1#12G		200 GFCI RECEP	4	3 BATTERY CHARGER	4432		В		BATTERY CHARGER	4	3 BATTERY CHARGER	4432		B	443	2 BATTERY CHARGER	
	1248	<b>C</b> 2#12,1#12G	20/1	SPARE	6	5 BATTERY CHARGER	4432		С	4432	BATTERY CHARGER	6	5 BATTERY CHARGER	4432		C		2 BATTERY CHARGER	
DOCK RECEP	800 20/1 2-#12,1-#12G	A 2#12,1#12G	20/1		8	7 BATTERY CHARGER		30/3 3-#12, 1-#10G	A 3-#12,1-#10G		BATTERY CHARGER	8	7 BATTERY CHARGER	4432 30/3 3-#*	±12,1-#10G	A 3-#12,1-#10G		2 BATTERY CHARGER	
DOCK RECEP	800 20/1 2-#12,1-#12G	B 2#12,1#12G	20/1		10	9 BATTERY CHARGER	4432		В		BATTERY CHARGER	10	9 BATTERY CHARGER	4432		В		2 BATTERY CHARGER	
DOCK RECEP	800 20/1 2-#12,1-#12G	C 2#12,1#12G	20/1	SPARE	12	11 BATTERY CHARGER	4432		С		BATTERY CHARGER	12	11 BATTERY CHARGER	4432		С		2 BATTERY CHARGER	
SPARE	20/1 2-#12,1-#12G	A 2#12,1-#12G	20/1	SPARE	14	13 BATTERY CHARGER		30/3 3-#12,1-#10G	<b>A</b> 3-#12, 1-#10G		BATTERY CHARGER	14	13 BATTERY CHARGER	4432 30/3 3-#1	±12,1-#10G	A 3-#12,1-#10G		2 BATTERY CHARGER	
5 SPARE	20/1 2-#12,1-#12G	<b>B</b> 2-#12, 1-#12G	20/1	SPARE	16	15 BATTERY CHARGER	4432		В		BATTERY CHARGER	16	15 BATTERY CHARGER	4432		В		2 BATTERY CHARGER	
7		c			18	17 BATTERY CHARGER	4432		C		BATTERY CHARGER	18	17 BATTERY CHARGER	4432		c		2 BATTERY CHARGER	
9		Α			20	19 BATTERY CHARGER		30/3 3-#12,1-#10G	A 3-#12,1-#10G		BATTERY CHARGER	20	19 BATTERY CHARGER	4432 30/3 3-#* 4432	#12,1-#10G	A 3-#12,1-#10G		2 BATTERY CHARGER 2 BATTERY CHARGER	
		В			22	21 BATTERY CHARGER 23 BATTERY CHARGER	4432 4432		В	=	BATTERY CHARGER	22	21 BATTERY CHARGER 23 BATTERY CHARGER	4432 4432		B C		2 BATTERY CHARGER 2 BATTERY CHARGER	
		С			24	23 DATIERT CHARGER	4432			4432	BATTERT CHARGER	24	23 BATTERY CHARGER 25	4432		A	443		
· · · · · · · · · · · · · · · · · · ·		A			26	25			B			28							
		B			28	29			В			28	2/			В			
		С А			30	31			A			30	31			A			
					32	33			B			34	33			В			
		C B			36	35			6			34	35			C			
· · · · · · · · · · · · · · · · · · ·		C			38	37			Ä			38	37	-		A			
, A		B			40	39		+ +	B	-		40	39			B			
		C			40	41			C			40	41			C			
		, , , , , , , , , , , , , , , , , , ,		1	<b>7</b>		I									• I		I	
ş.		LOAD SUMMARY	ONN NEC D	EM LOAD BALANCE PER PHASE		NOTES:			LOAD SUMMARY	CONN NEC DEM	LOAD BALANCE PER PHASE		NOT ES:			LOAD SUMMARY		LOAD BALANCE PER PHASE	
1 NEMA 1 ENCLOSURE		1-LIGHTING	200 1.25	250 PHASE A	1800	1 NEMA 1 ENCLOSURE			1-LIGHTING	0 1.25	0 PHASE A	35456	1 NEMA 1 ENCLOSURE			1-LIGHTING	0 1.25	0 PHASE A	
2 PROVIDE BOLT ON BREAKERS		2-RECEPTACLES	5696 NEC	5696 PHASE B	2248	2 PROVIDE BOLT ON BREAKERS			2-RECEPTACLES	0 NEC	0 PHASE B	35456	2 PROVIDE BOLT ON BREAKERS			2-RECEPT ACLES	0 1.23	0 PHASE B	
3		3-KITCHEN	0 0.65	0 PHASE C	2048	3			3-KITCHEN	0 0.65	0 PHASE C	35456	3			3-KIT CHEN	0 0.65	0 PHASE C	
·		4-HVAC	200 1	200 LOWEST PHASE PLUS 10%	2010				4-HVAC	0 1	0 LOWEST PHASE PLUS 10%					4-HVAC	0 1	0 LOWEST PHASE PLUS 10%	
		5-NON-CONT	0 1	0 1800 + 10%	1980				5-NON-CONT		6368 35456 + 10%	39001.6				5-NON-CONT	106368 1 1	6368 35456 + 10%	
		LARGEST MOTOR	0 0.25	0 REBALANCE LOADS					LARGEST MOTOR	0 0.25	0 PHASES ARE BALANCED					LARGEST MOTOR	0 0.25	0 PHASES ARE BALANCED	
		TOTAL VA	6096	6146					TOTAL VA	106368 10	6368					TOTAL VA	106368 1	6368	
		TOTAL AMPS	16.9	17.1					TOTAL AMPS	127.9 1	27.9					TOTAL AMPS	127.9	127.9	
	400 MLO 277/ 400 V 2011 4		· ·				2004 MI O	277/ 400 1/ 2011						A MLO 120/	208 V 3DH 4W+C		NE	VDANEL	
	400 MLO 277/ 480 V, 3PH, 4			NEW PANEL		PANEL: MH	200A MLO	277/ 480 V, 3PH		NE	WPANEL				208 V, 3PH, 4W.+GI			VPANEL	
SERVES	VA OCP WIRE	PHASE WIRE	OCP	VA SERVES	ССТ	PANEL: MH	VA	OCP WIRE	PHASE WIRE	OCP VA	SERVES		CCT SERVES	VA OCP WI	/IRE	PHASE WIRE	OCP VA	SERVES	
T SERVES 1 BATTERY CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1-#10G	PHASE         WIRE           A         3#10,1-#10G	OCP 30/3	VA SERVES 4432 BATTERY CHARGER		CCT SERVES	<b>VA</b> 4155	OCP         WIRE           5         20/3         3#10,1#12G	PHASE WIRE A 3#10,1#12G	OCP VA 20/3 41	SERVES 55 RTU 2	2	CCT SERVES 1 GFCI RECEP	VA         OCP         WI           400         20/1         2#	<b>IIRE</b> #12,1 <b>#</b> 12G	PHASE         WIRE           A         2-#12,1-#12G	OCP VA 20/1 60	SERVES 0 RECEPS	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1-#10G           4432         30/3         3#10,1-#10G	PHASE WIRE	OCP 30/3	VA         SERVES           4432         BATTERY CHARGER           4432         BATTERY CHARGER		CCT SERVES	VA	OCP         WIRE           5         20/3         3#10,1#12G	PHASE WIRE A 3#10,1-#12G B	OCP VA 20/3 41 41	SERVES           55         RTU 2           55         RTU 2	2 4	CCT         SERVES           1         GFCI RECEP           3         RECEPS	VA         OCP         WI           400         20/1         2#           1400         20/1         2#	<b>IRE</b> #12,1#12G #12,1#12G	PHASE         WIRE           A         2-#12,1-#12G           B         2-#12,1-#12G	OCP VA 20/1 60 20/1 66	SERVES 0 RECEPS 0 RECEPS	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER	VA         OCP         WIRE           4432         30/3         3-#10,1-#10G           4432         4432         3-#10,1-#10G	PHASE         WIRE           A         3#10,1-#10G           B         C	OCP 30/3	VA         SERVES           4432         BATTERY CHARGER           4432         BATTERY CHARGER           4432         BATTERY CHARGER           4432         BATTERY CHARGER		CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1	VA 4155 4155 4155	OCP         WIRE           5         20/3         3#10,1#12G           5	PHASE WIRE A 3#10,1#12G B C	OCP VA 20/3 41 41 41	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 2	2	CCT SERVES 1 GFCI RECEP	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#	<b>IRE</b> #12,1.#12G #12,1.#12G #12,1.#12G	PHASE         WIRE           A         2#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G	OCP VA 20/1 60 20/1 60 20/1 10	SERVES 0 RECEPS 0 RECEPS 0 RECEPS	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER           7         BATTERY CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432         4432         30/3           4432         30/3         3#12,1#10G	PHASE         WIRE           A         3#10,1#10G           B         C           C         A           A         3#12,1#10G	OCP 30/3 30/3	VA         SERVES           4432         BATTERY CHARGER		CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3	VA 4155 4155 4155 4155 4155	OCP         WIRE           5         20/3         3#10,1#12G           5	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4	2 4 6 8	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#	<b>IRE</b> #12,1#12G #12,1#12G #12,1#12G #12,1#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         60           20/1         10           20/1         60	SERVES           0         RECEPS           0         RECEPS           00         RECEPS           00         RECEPS           00         RECEPS           00         RECEPS	
SERVES       1     BATTERY CHARGER       3     BATTERY CHARGER       5     BATTERY CHARGER       7     BATTERY CHARGER       9     BATTERY CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1-#10G           4432	PHASE         WIRE           A         3#10,1-#10G           B         C	OCP 30/3 30/3	VA         SERVES           4432         BATTERY CHARGER		CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1	VA 4155 4155 4155	OCP         WIRE           5         20/3         3#10,1#12G           5	PHASE WIRE A 3#10,1#12G B C A 3#10,1#12G B B C	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           41         41           20/3         41           41         41	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#	<b>IRE</b> #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G	PHASE         WIRE           A         2+#12,1+#12G           B         2+#12,1+#12G           C         2+#12,1+#12G           A         2+#12,1+#12G           B         2+#12,1+#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10	SERVES           0         RECEPS           0         RECEPS           00         RECEPS           00         RECEPS           00         RECEPS           00         RECEPS           00         RECEPS           00         RECEPS	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER           7         BATTERY CHARGER           9         BATTERY CHARGER           11         BATTERY CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B	0CP 30/3 30/3	VA         SERVES           4432         BATTERY CHARGER	2 4 6 8 10 12	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3	VA 4155 4155 4155 4155 4155 4155 4155	OCP         WIRE           5         20/3         3#10,1#12G           5         5         5           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           41         41           20/3         41           41         41           41         41           41         41           41         41	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4	2 4 6 8 10 12	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#	<b>IRE</b> #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G	PHASE         WIRE           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           C         2-#12,1-#12G           C         2-#12,1-#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10	SERVES           0         RECEPS           0         RECEPS           00         RECEPS           00         RECEPS           00         RECEPS           00         RECEPS           00         RECEPS           00         RECEPS	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER           7         BATTERY CHARGER           9         BATTERY CHARGER           11         BATTERY CHARGER           13         BATTERY CHARGER           14         BATTERY CHARGER           15         BATTERY CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B            C            A         3#12,1#10G           B	OCP 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATTERY CHARGER	2 4 6 8 10	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3	VA 4155 4155 4155 4155 4155 4155 4155 1600	OCP         WIRE           5         20/3         3#10,1#12G           5         20/3         2#12,1#12G	PHASE         WIRE           A         3#10,1#12G           B         C           A         3#10,1#12G           B         C           B         C           C         A           A         2#12,1#12G	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/3         41           20/3         41	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           15         RECEPS	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#	<b>IRE</b> #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G	PHASE         WIRE           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           A         2-#12,1-#12G           A         2-#12,1-#12G           A         2-#12,1-#12G           A         2-#12,1-#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         40           20/1         40           20/1         40	SERVES           0         RECEPS           0         RECEPS           00         RECEPS	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER           7         BATTERY CHARGER           9         BATTERY CHARGER           11         BATTERY CHARGER           13         BATTERY CHARGER           14         BATTERY CHARGER           15         BATTERY CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B	OCP 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATTERY CHARGER	2 4 6 8 10 12	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS	VA 4155 4155 4155 4155 4155 4155 4155 1600 1960	OCP         WIRE           5         20/3         3#10,1#12G           5         20/1         2#12,1#12G           0         20/1         2#12,1#12G	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           41         41           20/3         41           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14 16	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           15         RECEPS           17         RECEPS           17         RECEPS	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           0000         20/1         2#           0000         20/1         2#           0000         20/1         2#	<b>IRE</b> #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G	PHASE         WIRE           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           B         2-#12,1-#12G           A         2-#12,1-#12G           B         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           C         2-#12,1-#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60	SERVES           0         RECEPS           0         RECEPS           00         RECEPS	
SERVES       1     BATTERY CHARGER       3     BATTERY CHARGER       5     BATTERY CHARGER       7     BATTERY CHARGER       9     BATTERY CHARGER       11     BATTERY CHARGER       13     BATTERY CHARGER       14     BATTERY CHARGER       15     BATTERY CHARGER       16     BATTERY CHARGER       17     BATTERY CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1.#10G           B	OCP 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATTERY CHARGER	2 4 6 8 10 12	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS	VA 4155 4155 4155 4155 4155 4155 4155 1600 1960	OCP         WIRE           5         20/3         3#10,1#12G           5         20/3         2#12,1#12G	PHASE         WIRE           A         3#10,1#12G           B         C           A         3#10,1#12G           B         C           B         C           C         A           A         2#12,1#12G	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           15         RECEPS           17         RECEPS           17         RECEPS           19         RECEPS           19         RECEPS	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#	<b>IRE</b> #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G	PHASE         WIRE           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           B         2-#12,1-#12G           A         2-#12,1-#12G           B         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           A         2-#12,1-#12G           A         2-#12,1-#12G	OCP         VA           20/1         66           20/1         66           20/1         10           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60	SERVES           0         RECEPS           0         RECEPS           00         RECEPS	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER           7         BATTERY CHARGER           9         BATTERY CHARGER           11         BATTERY CHARGER           13         BATTERY CHARGER           14         BATTERY CHARGER           15         BATTERY CHARGER           16         BATTERY CHARGER           17         BATTERY CHARGER           19         BATTERY CHARGER           21         BATTERY CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1.#10G           B            C            A         3#12,1.#10G           B            C            A         3#12,1.#10G           B            C            A         3#12,1.#10G           B            C            A         3#12,1.#10G           B            C            B            C            B            C            B	OCP 30/3 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATIERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         I	VA 4155 4155 4155 4155 4155 4155 4155 1600 1960	OCP         WIRE           5         20/3         3#10,1#12G           5         20/1         2#12,1#12G           5         20/1         2#12,1#12G           0         20/1         2#12,1#12G           20/1         2#12,1#12G         20/1           20/1         2#12,1#12G         20/1           20/1         2#12,1#12G         20/1           20/1         2#12,1#12G         20/1	PHASE         WIRE           A         3#10,1#12G           B         C           A         3#10,1#12G           B         C           A         3#10,1#12G           B         C           C         A           B         C           C         A           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14 14 16 18 20 22	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           15         RECEPS           17         RECEPS           19         RECEPS           19         RECEPS           21         RECEPS	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           800         20/1         2#           800         20/1         2#	<b>IRE</b> #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G #12,1.#12G	PHASE         WIRE           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           B         2-#12,1-#12G           A         2-#12,1-#12G           B         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           C         2-#12,1-#12G	OCP         VA           20/1         66           20/1         66           20/1         10           20/1         10           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         40           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60	SERVES           0         RECEPS           0         RECEPS           00         RECEPS	
SERVES         1       BATTERY CHARGER         3       BATTERY CHARGER         5       BATTERY CHARGER         7       BATTERY CHARGER         9       BATTERY CHARGER         11       BATTERY CHARGER         13       BATTERY CHARGER         14       BATTERY CHARGER         15       BATTERY CHARGER         17       BATTERY CHARGER         19       BATTERY CHARGER         21       BATTERY CHARGER         23       BATTERY CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1+#10G           B            C            A         3#12,1+#10G           C            A         3#12,1+#10G	OCP 30/3 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATIERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 22 24	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23	VA 4155 4155 4155 4155 4155 4155 4155 1600 1960	OCP         WIRE           5         20/3         3#10,1#12G           5         20/1         2#12,1#12G           5         20/1         2#12,1#12G           0         20/1         2#12,1#12G           20/1         2#12,1#12G         20/1	PHASE         WIRE           A         3#10,1#12G           B         C           A         3#10,1#12G           B         C           A         3#10,1#12G           B         C           C         A           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14 14 16 18 20 22 24	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           15         RECEPS           17         RECEPS           19         RECEPS           21         RECEPS           23         RECEPS	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           800         20/1         2#           400         20/1         2#	<b>IRE</b> #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G	PHASE         WIRE           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           A         2-#12,1-#12G           A         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           A         2-#12,1-#12G           B         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G           B         2-#12,1-#12G           C         2-#12,1-#12G	OCP         VA           20/1         66           20/1         66           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         40           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60	SERVES           0         RECEPS           0         RECEPS           00         REFRIGERATOR	
SERVES         1       BATTERY CHARGER         3       BATTERY CHARGER         5       BATTERY CHARGER         7       BATTERY CHARGER         9       BATTERY CHARGER         11       BATTERY CHARGER         13       BATTERY CHARGER         14       BATTERY CHARGER         15       BATTERY CHARGER         16       BATTERY CHARGER         17       BATTERY CHARGER         19       BATTERY CHARGER         21       BATTERY CHARGER         23       BATTERY CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B         C           A         3#12,1#10G           B         C           A         3#12,1#10G           B         C           A         3#12,1#10G           B         C           A         3#12,1#10G           B         C           C         3#12,1#10G           B         C           A         3#12,1#10G           A         3#12,1#10G           A         3#12,1#10G	OCP 30/3 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATIERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 22 24 26	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         25	VA 4155 4155 4155 4155 4155 4155 4155 1600 1960	OCP         WIRE           5         20/3         3#10,1#12G           5         20/1         2#12,1#12G           5         20/1         2#12,1#12G           0         20/1         2#12,1#12G           20/1         2#12,1#12G         20/1           20/1         2#12,1#12G         20/1           20/1         2#12,1#12G         20/1           20/1         2#12,1#12G         20/1	PHASE         WIRE           A         3#10,1#12G           B         C           A         3#10,1#12G           B         C           A         3#10,1#12G           B         C           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           A         A	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14 14 16 18 20 22 22 24 26	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           15         RECEPS           17         RECEPS           19         RECEPS           21         RECEPS           23         RECEPS           25         REFRIGERATOR	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           600         20/1         2#           400         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#	<b>IRE</b> #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           G         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G	OCP         VA           20/1         66           20/1         66           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1	SERVES           0         RECEPS           0         RECEPS           00         REFRIGERATOR           00         BREAK ROOM RECEP	
SERVES         1       BATTERY CHARGER         3       BATTERY CHARGER         5       BATTERY CHARGER         9       BATTERY CHARGER         11       BATTERY CHARGER         13       BATTERY CHARGER         14       BATTERY CHARGER         15       BATTERY CHARGER         16       BATTERY CHARGER         17       BATTERY CHARGER         19       BATTERY CHARGER         21       BATTERY CHARGER         23       BATTERY CHARGER         24       BATTERY CHARGER         25       Sattery CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B            C            A         3#12,1#10G	OCP 30/3 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATIERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 22 24 24 26 28	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27	VA 4155 4155 4155 4155 4155 4155 4155 1600 1960	OCP         WIRE           5         20/3         3#10,1#12G           5         20/1         2#12,1#12G           5         20/1         2#12,1#12G           0         20/1         2#12,1#12G           20/1         2#12,1#12G         20/1	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14 14 16 18 20 22 22 24 24 26 28	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           15         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           23         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           800         20/1         2#           600         20/1         2#           400         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#	<b>IRE</b> #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10	SERVES           0         RECEPS           0         REFRIGERATOR           00         BREAK ROOM RECEP           00         BREAK ROOM RECEP	
SERVES         1       BATTERY CHARGER         3       BATTERY CHARGER         5       BATTERY CHARGER         7       BATTERY CHARGER         9       BATTERY CHARGER         11       BATTERY CHARGER         13       BATTERY CHARGER         14       BATTERY CHARGER         15       BATTERY CHARGER         16       BATTERY CHARGER         17       BATTERY CHARGER         19       BATTERY CHARGER         21       BATTERY CHARGER         23       BATTERY CHARGER         24       BATTERY CHARGER         25       Sattery CHARGER	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B         C           A         3#12,1#10G           B         C           A         3#12,1#10G           B         C           A         3#12,1#10G           B         C           A         3#12,1#10G           B         C           C         3#12,1#10G           B         C           A         3#12,1#10G           A         3#12,1#10G           A         3#12,1#10G	OCP 30/3 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATIERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 22 24 26	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         1	VA 4155 4155 4155 4155 4155 4155 4155 1600 1960	OCP         WIRE           5         20/3         3#10,1#12G           5         20/1         2#12,1#12G           5         20/1         2#12,1#12G           0         20/1         2#12,1#12G           20/1         2#12,1#12G         20/1	PHASE         WIRE           A         3#10,1#12G           B         C           A         3#10,1#12G           B         C           A         3#10,1#12G           B         C           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           A         A	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14 14 16 18 20 22 22 24 26 28 30	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           15         RECEPS           17         RECEPS           19         RECEPS           21         RECEPS           23         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           400         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#	NRE #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         10           20/1         10           20/1         40           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10	SERVES           0         RECEPS           0         REFRIGERATOR           00         BREAK ROOM RECEP           00         BREAK ROOM RECEP           00         BREAK ROOM RECEP	
SERVES         1       BATTERY CHARGER         3       BATTERY CHARGER         5       BATTERY CHARGER         7       BATTERY CHARGER         9       BATTERY CHARGER         11       BATTERY CHARGER         13       BATTERY CHARGER         15       BATTERY CHARGER         17       BATTERY CHARGER         19       BATTERY CHARGER         21       BATTERY CHARGER         23       BATTERY CHARGER         24       BATTERY CHARGER         25       27         29       31	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B	OCP 30/3 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATIERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 22 24 24 26 28	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31	VA 4155 4155 4155 4155 4155 4155 4155 1600 1960	OCP         WIRE           5         20/3         3#10,1#12G           5         20/1         2#12,1#12G           5         20/1         2#12,1#12G           0         20/1         2#12,1#12G           20/1         2#12,1#12G         20/1	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14 14 16 18 20 22 22 24 24 26 28 30 30 32	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           15         RECEPS           17         RECEPS           19         RECEPS           21         RECEPS           23         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           31         BREAK ROOM RECEP	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           400         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#	<b>IRE</b> #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         10           20/1         60           20/1         40           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10	SERVES           0         RECEPS           0         REFRIGERATOR           00         BREAK ROOM RECEP	
SERVES       1     BATTERY CHARGER       3     BATTERY CHARGER       5     BATTERY CHARGER       7     BATTERY CHARGER       9     BATTERY CHARGER       11     BATTERY CHARGER       13     BATTERY CHARGER       14     BATTERY CHARGER       15     BATTERY CHARGER       16     BATTERY CHARGER       17     BATTERY CHARGER       19     BATTERY CHARGER       21     BATTERY CHARGER       22     BATTERY CHARGER       23     BATTERY CHARGER       24     BATTERY CHARGER       25     27       29     31       33     3	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1.#10G           B	OCP 30/3 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATIERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 22 24 24 26 28	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         33	VA 4155 4155 4155 4155 4155 4155 4155 1600 1960	OCP         WIRE           5         20/3         3#10,1#12G           5         20/1         2#12,1#12G           5         20/1         2#12,1#12G           0         20/1         2#12,1#12G           20/1         2#12,1#12G         20/1	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14 14 16 18 20 22 22 24 24 26 28 30 30 32 34	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           15         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           400         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G #12,1#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           G         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         60           20/1         10           20/1         60           20/1         10           20/1         60           20/1         40           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10	SERVES           0         RECEPS           0         REFRIGERATOR           00         BREAK ROOM RECEP	
SERVES         1       BATTERY CHARGER         3       BATTERY CHARGER         5       BATTERY CHARGER         7       BATTERY CHARGER         9       BATTERY CHARGER         11       BATTERY CHARGER         13       BATTERY CHARGER         14       BATTERY CHARGER         15       BATTERY CHARGER         16       BATTERY CHARGER         17       BATTERY CHARGER         18       BATTERY CHARGER         21       BATTERY CHARGER         22       BATTERY CHARGER         23       BATTERY CHARGER         24       BATTERY CHARGER         25       27         28       31         33       33         35       5	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B            C            A         3#12,1#10G           B            C            A            B            C            A            B            C            A            B            C            A </td <td>OCP 30/3 30/3 30/3 30/3 30/3</td> <td>VA         SERVES           4432         BATIERY CHARGER           4432         BATIERY CHARGER</td> <td>2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 30 32 34 36</td> <td>CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35</td> <td>VA 4155 4155 4155 4155 4155 4155 4155 1600 1960</td> <td>OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           6         -         -           6         -         -           70/1         2#12,1#12G         -</td> <td>PHASE         WIRE           A         3#10,1#12G           B        </td> <td>OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1</td> <td>SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4</td> <td>2 4 6 8 10 12 14 16 16 18 20 22 24 24 26 28 30 32 34 36</td> <td>CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           35         BREAK ROOM RECEP</td> <td>VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1</td> <td><b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G</td> <td>PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G</td> <td>OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         40           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         12           20/1         20/1</td> <td>SERVES           0         RECEPS           0         REFRIGERATOR           00         BREAK ROOM RECEP           00         BRENKING FOUNTAIN           00         BATHROOM GFI</td> <td></td>	OCP 30/3 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATIERY CHARGER	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 30 32 34 36	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35	VA 4155 4155 4155 4155 4155 4155 4155 1600 1960	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           6         -         -           6         -         -           70/1         2#12,1#12G         -	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14 16 16 18 20 22 24 24 26 28 30 32 34 36	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           35         BREAK ROOM RECEP	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         40           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         12           20/1         20/1	SERVES           0         RECEPS           0         REFRIGERATOR           00         BREAK ROOM RECEP           00         BRENKING FOUNTAIN           00         BATHROOM GFI	
SERVES         1       BATTERY CHARGER         3       BATTERY CHARGER         5       BATTERY CHARGER         7       BATTERY CHARGER         9       BATTERY CHARGER         11       BATTERY CHARGER         13       BATTERY CHARGER         14       BATTERY CHARGER         15       BATTERY CHARGER         16       BATTERY CHARGER         17       BATTERY CHARGER         19       BATTERY CHARGER         21       BATTERY CHARGER         22       BATTERY CHARGER         23       BATTERY CHARGER         24       BATTERY CHARGER         25       27         29       31         33       33         35       37	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B            C            A         3#12,1#10G           B            C            A            B            C            A            B            C            A            B            C            A            A	OCP 30/3 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATIERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 24 24 26 28 30 32 32 34 33 8	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37<	VA 4155 4155 4155 4155 4155 4155 4155 1600 1960	OCP         WIRE           5         20/3         3#10,1#12G           5         20/1         2#12,1#12G           5         20/1         2#12,1#12G           0         20/1         2#12,1#12G           20/1         2#12,1#12G         20/1	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14 16 16 18 20 22 24 24 26 28 30 32 34 36	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BREAK ROOM RECEP           35         BREAK ROOM RECEP           37         DRYER RECEP	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         60           20/1         10           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         14           20/1         10           20/1         10           20/1         10           20/1         10           20/1         40	SERVES           0         RECEPS           0         RECEPS           00         REAK ROOM RECEP           00         BREAK ROOM RECEP           00         BREAK ROOM RECEP           00         BREAK ROOM RECEP           00         BREAK ROOM RECEP           00         BRAK ROOM RECEP           00         BREAK ROOM RECEP           00         BREAK ROOM RECEP           00         BREAK ROOM RECEP           00         BREAK ROOM RECEP           00         BATHROOM GFI           00         WASHER	
SERVES         1       BATTERY CHARGER         3       BATTERY CHARGER         5       BATTERY CHARGER         7       BATTERY CHARGER         9       BATTERY CHARGER         11       BATTERY CHARGER         13       BATTERY CHARGER         14       BATTERY CHARGER         15       BATTERY CHARGER         16       BATTERY CHARGER         17       BATTERY CHARGER         19       BATTERY CHARGER         21       BATTERY CHARGER         22       BATTERY CHARGER         23       BATTERY CHARGER         24       BATTERY CHARGER         25       27         29       31         33       33         34       33         35       37         39	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B            C            A         3#12,1#10G           B            C            A            B            C            A            B            C            A            B            C            A            B            C            A <t< td=""><td>OCP 30/3 30/3 30/3 30/3 30/3</td><td>VA         SERVES           4432         BATIERY CHARGER           4432         BATIERY CHARGER</td><td>2 4 6 8 10 12 14 14 16 18 20 22 24 24 26 28 30 30 32 34 34 36 38 40</td><td>CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37         TRANSFORMER</td><td>VA 4155 4155 4155 4155 4155 4155 4155 1600 1960</td><td>OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           6         -         -           6         -         -           70/1         2#12,1#12G         -</td><td>PHASE         WIRE           A         3#10,1#12G           B        </td><td>OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1</td><td>SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4</td><td>2 4 6 8 10 12 12 14 16 18 20 22 22 24 24 26 28 30 30 32 34 34 36 38</td><td>CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BREAK ROOM RECEP           35         BREAK ROOM RECEP           37         DRYER RECEP           39         S</td><td>VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1</td><td><b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G</td><td>PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G</td><td>OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         60           20/1         10           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         60</td><td>SERVES           0         RECEPS           0         REFRIGERATOR           00         BREAK ROOM RECEP           00         BRAK ROOM RECEP           00         BRAK ROOM RECEP           00         BRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE</td><td></td></t<>	OCP 30/3 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATIERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 24 24 26 28 30 30 32 34 34 36 38 40	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37         TRANSFORMER	VA 4155 4155 4155 4155 4155 4155 4155 1600 1960	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           6         -         -           6         -         -           70/1         2#12,1#12G         -	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 12 14 16 18 20 22 22 24 24 26 28 30 30 32 34 34 36 38	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BREAK ROOM RECEP           35         BREAK ROOM RECEP           37         DRYER RECEP           39         S	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         60           20/1         10           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         60	SERVES           0         RECEPS           0         REFRIGERATOR           00         BREAK ROOM RECEP           00         BRAK ROOM RECEP           00         BRAK ROOM RECEP           00         BRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE	
SERVES         1       BATTERY CHARGER         3       BATTERY CHARGER         5       BATTERY CHARGER         9       BATTERY CHARGER         11       BATTERY CHARGER         13       BATTERY CHARGER         14       BATTERY CHARGER         15       BATTERY CHARGER         16       BATTERY CHARGER         17       BATTERY CHARGER         19       BATTERY CHARGER         21       BATTERY CHARGER         22       BATTERY CHARGER         23       BATTERY CHARGER         24       BATTERY CHARGER         25       27         29       31         33       33         35       37         39       Satter	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B            C            A         3#12,1#10G           B            C            A            B            C            A            B            C            A            B            C            A            A	OCP 30/3 30/3 30/3 30/3 30/3	VA         SERVES           4432         BATIERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 24 24 26 28 30 32 32 34 33 8	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37<	VA 4155 4155 4155 4155 4155 1600 1960 	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           5         -         -           6         -         -           6         -         -           70/1         2#12,1#12G         -	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20	SERVES           55         RTU 2           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14 16 16 18 20 22 24 24 26 28 30 32 34 36	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BREAK ROOM RECEP           35         BREAK ROOM RECEP           36         BREAK ROOM RECEP           37         DRYER RECEP           39         41	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         60           20/1         10           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         60           20/1         60           20/1         20/1	SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE	
SERVES         1       BATTERY CHARGER         3       BATTERY CHARGER         5       BATTERY CHARGER         9       BATTERY CHARGER         11       BATTERY CHARGER         13       BATTERY CHARGER         14       BATTERY CHARGER         15       BATTERY CHARGER         16       BATTERY CHARGER         17       BATTERY CHARGER         19       BATTERY CHARGER         21       BATTERY CHARGER         22       BATTERY CHARGER         23       BATTERY CHARGER         24       BATTERY CHARGER         25       27         29       31         33       33         33       33         34       33	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B            C            A         3#12,1#10G           B            C            A            B            C            A            B            C            A            B            C            A            B            C            A <t< td=""><td>OCP 30/3 30/3 30/3 30/3 30/3 30/3 30/3  30/3  30/3  30/3   30/3       </td><td>VA     SERVES       4432     BATTERY CHARGER       4432     BATTERY CHARGER</td><td>2 4 6 8 10 12 14 14 16 18 20 22 24 24 26 28 30 30 32 34 34 36 38 40</td><td>CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37         TRANSFORMER</td><td>VA 4155 4155 4155 4155 4155 1600 1960 </td><td>OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         -         -           5         20/1         2#12,1#12G           20/1         2#12,1#12G         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -</td><td>PHASE         WIRE           A         3#10,1#12G           B        </td><td>OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20</td><td>SERVES           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           55         RTU 4           55         RTU 4           56         RTU 4           57         RTU 4           58         RTU 4           59         RTU 4           50         RTU 4           55         RTU 4</td><td>2 4 6 8 10 12 12 14 16 18 20 22 22 24 24 26 28 30 30 32 34 34 36 38</td><td>CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         SPARE</td><td>VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1500         30/2         3#           1500         20/1         20/1  </td><td><b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G</td><td>PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G</td><td>OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         60           20/1         10           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         60           20/1         60           20/1         20/1</td><td>SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE         SPARE           SPARE</td><td></td></t<>	OCP 30/3 30/3 30/3 30/3 30/3 30/3 30/3  30/3  30/3  30/3   30/3       	VA     SERVES       4432     BATTERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 24 24 26 28 30 30 32 34 34 36 38 40	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37         TRANSFORMER	VA 4155 4155 4155 4155 4155 1600 1960 	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         -         -           5         20/1         2#12,1#12G           20/1         2#12,1#12G         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20	SERVES           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           55         RTU 4           55         RTU 4           56         RTU 4           57         RTU 4           58         RTU 4           59         RTU 4           50         RTU 4           55         RTU 4	2 4 6 8 10 12 12 14 16 18 20 22 22 24 24 26 28 30 30 32 34 34 36 38	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         SPARE	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1500         30/2         3#           1500         20/1         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         60           20/1         10           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         60           20/1         60           20/1         20/1	SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE         SPARE           SPARE	
SERVES         1       BATTERY CHARGER         3       BATTERY CHARGER         5       BATTERY CHARGER         7       BATTERY CHARGER         9       BATTERY CHARGER         11       BATTERY CHARGER         13       BATTERY CHARGER         14       BATTERY CHARGER         15       BATTERY CHARGER         16       BATTERY CHARGER         17       BATTERY CHARGER         19       BATTERY CHARGER         21       BATTERY CHARGER         22       BATTERY CHARGER         23       BATTERY CHARGER         24       BATTERY CHARGER         25       27         28       31         33       33         34       33         35       34         36       37         39       41	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B         C           A         3#12,1#10G           B         C           C         A           A         3#12,1#10G           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         C           A         B           C         C           A         B           C         C           A         C           A         C           C         C           C	OCP 30/3 30/3 30/3 30/3 30/3 30/3 30/3 30/3 30/3  30/3  30/3  30/3  30/3  30/3  30/3       	VA     SERVES       4432     BATTERY CHARGER       4432     BATTERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 24 24 26 28 30 30 32 34 34 36 38 40	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         33           35         37           39         TRANSFORMER           41         TRANSFORMER	VA 4155 4155 4155 4155 4155 1600 1960 	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         -         -           5         20/1         2#12,1#12G           20/1         2#12,1#12G         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         41           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 4           55         RTU 4           55         RTU 4           55         RTU 4           56         RTU 4           57         RTU 4           58         RTU 4           59         RTU 4           50         RTU 4           51         RTU 4           52         RTU 4           53         RTU 4           54         RTU 4           55         RTU 4           56         RTU 4	2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 30 32 34 34 36 38 40 42	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BAPEAK           39	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER           7         BATTERY CHARGER           9         BATTERY CHARGER           11         BATTERY CHARGER           13         BATTERY CHARGER           14         BATTERY CHARGER           15         BATTERY CHARGER           16         BATTERY CHARGER           17         BATTERY CHARGER           19         BATTERY CHARGER           21         BATTERY CHARGER           22         BATTERY CHARGER           23         BATTERY CHARGER           24         BATTERY CHARGER           25	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B         C           A         3#12,1#10G           B         C           C         A           A         3#12,1#10G           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         C           A         B           C         C           A         B           C         C           A         C           A         B           C         C           B	OCP 30/3 30/3 30/3 30/3 30/3 30/3 	VA     SERVES       4432     BATTERY CHARGER       4432     BATTERY CHARGER	2 4 6 8 10 12 12 14 16 18 20 22 24 24 26 28 30 30 32 34 34 36 38 40 42	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37         TRANSFORMER           39         TRANSFORMER           41         TRANSFORMER           11         TRANSFORMER	VA 4155 4155 4155 4155 4155 1600 1960 	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         -         -           5         20/1         2#12,1#12G           20/1         2#12,1#12G         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	PHASE         WIRE           A         3#10,1#12G           B         C           C         A           A         3#10,1#12G           B         C           A         3#10,1#12G           B         C           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         B           C         C           A         B           C         A           B         C           A         B           C         A           B         C           C         A           B         C           C         A           B         C           C         A           B         C           C         C           C <td< td=""><td>OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         41           20/1         20/1</td><td>SERVES           55         RTU 2           55         RTU 2           55         RTU 4           50         RTU 4           50         RTU 4           50         RTU 4           50         RTU 4</td><td>2 4 6 8 10 12 12 14 16 18 20 22 24 24 26 28 30 30 32 32 34 34 36 38 40 42</td><td>CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         SPARE           43         SPARE           44         SPARE           45         SPARE           47         SPARE</td><td>VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1500         30/2         3#           1500         20/1         20/1  </td><td><b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G</td><td>PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G</td><td>OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         60           20/1         10           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         60           20/1         60           20/1         20/1</td><td>SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE         SPARE           SPARE</td><td></td></td<>	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         41           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 4           50         RTU 4           50         RTU 4           50         RTU 4           50         RTU 4	2 4 6 8 10 12 12 14 16 18 20 22 24 24 26 28 30 30 32 32 34 34 36 38 40 42	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         SPARE           43         SPARE           44         SPARE           45         SPARE           47         SPARE	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1500         30/2         3#           1500         20/1         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         60           20/1         10           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         60           20/1         60           20/1         20/1	SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE         SPARE           SPARE	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER           7         BATTERY CHARGER           9         BATTERY CHARGER           11         BATTERY CHARGER           13         BATTERY CHARGER           14         BATTERY CHARGER           15         BATTERY CHARGER           16         BATTERY CHARGER           17         BATTERY CHARGER           19         BATTERY CHARGER           21         BATTERY CHARGER           22         BATTERY CHARGER           23         BATTERY CHARGER           24         BATTERY CHARGER           25         27           29         31           33         33           34         33           35         37           39         41	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B         C           A         3#12,1#10G           B         C           C         A           A         3#12,1#10G           B         C           C         A           B         C           C         A           B         C           C         A           B         C           C         A           B         C           C         A           B         C           C         C           A         B           C         C           A         B           C         C           A         C           C         C           C         C           C	OCP 30/3 30/3 30/3 30/3 30/3 30/3 30/3 	VA     SERVES       4432     BATTERY CHARGER       4432     BATTERY CHARGER	2 4 6 8 10 12 12 14 16 18 20 22 24 24 26 28 30 30 32 32 34 34 36 38 40 42	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         33           35         37           39         TRANSFORMER           41         TRANSFORMER	VA 4155 4155 4155 4155 4155 1600 1960 	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         -         -           5         20/1         2#12,1#12G           20/1         2#12,1#12G         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 4           56         RTU 4	2 4 6 8 10 12 12 14 16 18 20 22 24 26 28 30 30 32 24 26 28 30 30 32 34 34 36 38 40 42	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BREAK ROOM RECEP           35         BREAK ROOM RECEP           36         BREAK ROOM RECEP           37         DRYER RECEP           38         SPARE           41         SAPRE           43         SPARE           44         SPARE           47         SPARE           49         SPARE	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         20/1           20/1         20/1           20/1         20/1	SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE         SPARE           SPARE	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER           7         BATTERY CHARGER           9         BATTERY CHARGER           11         BATTERY CHARGER           13         BATTERY CHARGER           14         BATTERY CHARGER           15         BATTERY CHARGER           16         BATTERY CHARGER           17         BATTERY CHARGER           19         BATTERY CHARGER           21         BATTERY CHARGER           22         BATTERY CHARGER           23         BATTERY CHARGER           24         BATTERY CHARGER           25	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B         C           A         3#12,1#10G           B         C           C         A           A         3#12,1#10G           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         C           A         B           C         C           A         B           C         C           A         C           A         B           C         C           B	OCP 30/3 30/3 30/3 30/3 30/3 30/3 30/3 	VA     SERVES       4432     BATTERY CHARGER       6     0       6     0       6     0       7     0       7     0       8     0       8     0       9     0       9     0	2 4 6 8 10 12 12 14 16 18 20 22 24 24 26 28 30 30 32 34 34 36 38 40 42	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37         TRANSFORMER           39         TRANSFORMER           41         TRANSFORMER           11         TRANSFORMER	VA 4155 4155 4155 4155 4155 1600 1960 	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         -         -           5         20/1         2#12,1#12G           20/1         2#12,1#12G         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	PHASE         WIRE           A         3#10,1#12G           B         C           C         A           A         3#10,1#12G           B         C           A         3#10,1#12G           B         C           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         B           C         C           A         B           C         A           B         C           A         B           C         A           B         C           C         A           B         C           C         A           B         C           C         A           B         C           C         C           C <td< td=""><td>OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         41           20/1         20/1</td><td>SERVES           55         RTU 2           55         RTU 2           55         RTU 4           56         RTU 4           57         RTU 4           56         RTU 4           57         RTU 4           56         RTU 4           57         RTU 4           58         RTU 4           59         RTU 4           50         RTU 4</td><td>2 4 6 8 10 12 12 14 16 18 20 22 24 24 26 28 30 30 32 32 34 34 36 38 40 42</td><td>CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BREAK ROOM RECEP           35         BREAK ROOM RECEP           36         BREAK ROOM RECEP           37         DRYER RECEP           39         41           41         SAPRE           42         SPARE           43         SPARE           44         SPARE           45         SPARE           46         SPARE           47         SPARE           49</td><td>VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1</td><td><b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G</td><td>PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G</td><td>OCP         VA           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         20/1           20/1         20/1</td><td>SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE         SPARE           SPARE</td><td></td></td<>	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         41           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 4           56         RTU 4           57         RTU 4           56         RTU 4           57         RTU 4           56         RTU 4           57         RTU 4           58         RTU 4           59         RTU 4           50         RTU 4	2 4 6 8 10 12 12 14 16 18 20 22 24 24 26 28 30 30 32 32 34 34 36 38 40 42	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           21         RECEPS           23         RECEPS           24         RECEPS           25         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BREAK ROOM RECEP           35         BREAK ROOM RECEP           36         BREAK ROOM RECEP           37         DRYER RECEP           39         41           41         SAPRE           42         SPARE           43         SPARE           44         SPARE           45         SPARE           46         SPARE           47         SPARE           49	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         20/1           20/1         20/1	SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE         SPARE           SPARE	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER           7         BATTERY CHARGER           9         BATTERY CHARGER           11         BATTERY CHARGER           13         BATTERY CHARGER           14         BATTERY CHARGER           15         BATTERY CHARGER           16         BATTERY CHARGER           17         BATTERY CHARGER           19         BATTERY CHARGER           21         BATTERY CHARGER           22         BATTERY CHARGER           23         BATTERY CHARGER           25         27           28         31           33         33           35         37           39         41           TES:           1         NEMA 1 ENCLOSURE	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B         C           A         3#12,1#10G           B         C           A         B           C         A           B         C           A         B           C         A           B         C           C         A           B         C           C         C           A         B           C         C           A         B           C         C           C         C           C         C           C         C           C         C           C	OCP 30/3 30/3 30/3 30/3 30/3 30/3 	VA     SERVES       4432     BATTERY CHARGER       4432     BATTERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 24 24 26 28 30 30 32 24 24 26 28 30 30 32 34 34 36 38 40 42	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37         TRANSFORMER           39         TRANSFORMER           41         TRANSFORMER           11         TRANSFORMER	VA 4155 4155 4155 4155 4155 1600 1960 	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         -         -           5         20/1         2#12,1#12G           20/1         2#12,1#12G         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         20/1           20/1         20	SERVES           55         RTU 2           55         RTU 2           55         RTU 4           56         RTU 4           57         RTU 4           58         RTU 4           59         RTU 4           50         RTU 4           50         RTU 4           50         RTU 4           51         RTU 4           55         RTU 4           56         RTU 4           57         RTU 4           58         Regression           59         PHASE A           9         PHASE C           49600 LOWEST PHASE PLUS 10%	2 4 6 8 10 12 12 14 16 18 20 22 24 26 28 30 30 32 24 26 28 30 32 34 34 36 38 40 42	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           24         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BREAK ROOM RECEP           35         BREAK ROOM RECEP           36         BREAK ROOM RECEP           37         DRYER RECEP           39         41           41         SAPRE           42         SPARE           43         SPARE           44         SPARE           49         51           53         S	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         20/1           20/1         20/1	SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE         SPARE           SPARE	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER           7         BATTERY CHARGER           9         BATTERY CHARGER           11         BATTERY CHARGER           13         BATTERY CHARGER           14         BATTERY CHARGER           15         BATTERY CHARGER           16         BATTERY CHARGER           17         BATTERY CHARGER           19         BATTERY CHARGER           21         BATTERY CHARGER           22         BATTERY CHARGER           23         BATTERY CHARGER           24         BATTERY CHARGER           25	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B         C           A         3#12,1#10G           B         C           A         B           C         A           B         C           A         B           C         A           B         C           A         B           C         A           B         C           C         A           B         C           C         C           A         B           C         C           A         B           C         C           C         C           C         C           C         C           C	OCP 30/3 30/3 30/3 30/3 30/3 30/3 	VA     SERVES       4432     BATTERY CHARGER       4432     BATTERY CHARGER	2 4 6 8 10 12 12 14 16 18 20 22 24 24 26 28 30 30 32 32 34 34 36 38 40 42	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37         TRANSFORMER           39         TRANSFORMER           41         TRANSFORMER           11         TRANSFORMER	VA 4155 4155 4155 4155 4155 1600 1960 	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         -         -           5         20/1         2#12,1#12G           20/1         2#12,1#12G         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         41           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 4           56         RTU 4           57         RTU 4           58         100           59         PHASE A           0         PHASE PLUS 10%           0         16620	2 4 6 8 10 12 12 14 16 18 20 22 24 26 28 30 30 32 24 26 28 30 30 32 34 34 36 38 40 42	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           24         REFRIGERATOR           25         REFRIGERATOR           26         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BREAK ROOM RECEP           35         BREAK ROOM RECEP           36         BREAK ROOM RECEP           37         DRYER RECEP           38         SPARE           41         SAPRE           43         SPARE           44         SPARE           47         SPARE           49         51	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           B         2           C         2#12,1#12G           B         2           <	OCP         VA           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         20/1           20/1         20/1	SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE         SPARE           SPARE	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER           7         BATTERY CHARGER           9         BATTERY CHARGER           11         BATTERY CHARGER           13         BATTERY CHARGER           14         BATTERY CHARGER           15         BATTERY CHARGER           16         BATTERY CHARGER           17         BATTERY CHARGER           19         BATTERY CHARGER           21         BATTERY CHARGER           22         BATTERY CHARGER           23         BATTERY CHARGER           25	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B         C           A         3#12,1#10G           B         C           A         B           C         A           B         C           A         B           C         A           B         C           C         A           B         C           C         C           A         B           C         C           A         B           C         C           C         C           C         C           C         C           C         C           C	OCP 30/3 30/3 30/3 30/3 30/3 30/3 30/3 	VA     SERVES       4432     BATTERY CHARGER       4432     BATTERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 24 24 26 28 30 30 32 24 24 26 28 30 30 32 34 34 36 38 40 42	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37         TRANSFORMER           39         TRANSFORMER           41         TRANSFORMER           11         TRANSFORMER	VA 4155 4155 4155 4155 4155 1600 1960 	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         -         -           5         20/1         2#12,1#12G           20/1         2#12,1#12G         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         41           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 4           56         RTU 4           57         RTU 4           58         RTU 4           59         RTU 4           50         RTU 4           50         RTU 4           50         RTU 4           51         RTU 4           55         RTU 4           56         RTU 4           57         RTU 4           58         Regression           59         PHASE A           9         PHASE C           49600 LOWEST PHASE PLUS 10%	2 4 6 8 10 12 12 14 16 18 20 22 24 26 28 30 30 32 24 26 28 30 32 34 34 36 38 40 42	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           24         REFRIGERATOR           25         REFRIGERATOR           26         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BREAK ROOM RECEP           35         BREAK ROOM RECEP           36         BREAK ROOM RECEP           37         DRYER RECEP           38         SPARE           41         SAPRE           43         SPARE           44         SPARE           47         SPARE           49	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2           C         2#12,1#12G           B         2           C         2           A         2           B	OCP         VA           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         20/1           20/1         20/1	SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE         SPARE           SPARE	
SERVES           1         BATTERY CHARGER           3         BATTERY CHARGER           5         BATTERY CHARGER           7         BATTERY CHARGER           9         BATTERY CHARGER           11         BATTERY CHARGER           13         BATTERY CHARGER           14         BATTERY CHARGER           15         BATTERY CHARGER           16         BATTERY CHARGER           17         BATTERY CHARGER           19         BATTERY CHARGER           21         BATTERY CHARGER           22         BATTERY CHARGER           23         BATTERY CHARGER           24         BATTERY CHARGER           25	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#103           B         C           A         3#12,1#103           B         C           A         B           C         A           B         C           A         B           C         A           B         C           C         A           B         C           C         A           B         C           C         A           B         C           C         S	OCP 30/3 30/3 30/3 30/3 30/3 30/3 30/3 30/3 30/3 30/3 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	VA     SERVES       4432     BATTERY CHARGER       4432     BATTERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 24 24 26 28 30 30 32 24 24 26 28 30 30 32 34 34 36 38 40 42	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37         TRANSFORMER           39         TRANSFORMER           41         TRANSFORMER           11         TRANSFORMER	VA 4155 4155 4155 4155 4155 1600 1960 	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         -         -           5         20/1         2#12,1#12G           20/1         2#12,1#12G         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         41           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 4           56         RTU 4           57         RTU 4           58         100           59         PHASE A           0         PHASE PLUS 10%           0         16620	2 4 6 8 10 12 12 14 16 18 20 22 24 26 28 30 30 32 24 26 28 30 32 34 34 36 38 40 42	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           17         RECEPS           21         RECEPS           23         REFRIGERATOR           25         REFRIGERATOR           26         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BREAK ROOM RECEP           35         BREAK ROOM RECEP           36         BREAK ROOM RECEP           37         DRYER RECEP           39         41           41         SAPRE           42         SPARE           43         SPARE           44         SPARE           45         SPARE           47         SPARE	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G	OCP         VA           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         20/1           20/1         20/1	SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE         SPARE           SPARE	
SERVES         1       BATTERY CHARGER         3       BATTERY CHARGER         5       BATTERY CHARGER         7       BATTERY CHARGER         9       BATTERY CHARGER         11       BATTERY CHARGER         13       BATTERY CHARGER         14       BATTERY CHARGER         15       BATTERY CHARGER         16       BATTERY CHARGER         17       BATTERY CHARGER         19       BATTERY CHARGER         21       BATTERY CHARGER         22       BATTERY CHARGER         23       BATTERY CHARGER         24       BATTERY CHARGER         25       27         28       31         33       33         33       33         34       33         35       37         39       41         ES:       1         1       NEMA 1 ENCLOSURE	VA         OCP         WIRE           4432         30/3         3#10,1#10G           4432	PHASE         WIRE           A         3#10,1#10G           B         C           A         3#12,1#10G           B         C           A         B           C         A           B         C           A         B           C         A           B         C           C         A           B         C           C         C           A         B           C         C           A         B           C         C           C         C           C         C           C         C           C         C           C	OCP 30/3 30/3 30/3 30/3 30/3 30/3 30/3 	VA     SERVES       4432     BATTERY CHARGER       4432     BATTERY CHARGER	2 4 6 8 10 12 14 14 16 18 20 22 24 24 26 28 30 30 32 24 24 26 28 30 30 32 34 34 36 38 40 42	CCT         SERVES           1         RTU 1           3         RTU 1           5         RTU 1           7         RTU 3           9         RTU 3           11         RTU 3           13         OFFICE LIGHTS           15         OFFICE LIGHTS           17         19           21         23           25         27           29         31           33         35           37         TRANSFORMER           39         TRANSFORMER           41         TRANSFORMER           11         TRANSFORMER	VA 4155 4155 4155 4155 4155 1600 1960 	OCP         WIRE           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         -         -           5         20/3         3#10,1#12G           5         20/3         3#10,1#12G           5         -         -           5         20/1         2#12,1#12G           20/1         2#12,1#12G         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	PHASE         WIRE           A         3#10,1#12G           B	OCP         VA           20/3         41           41         41           20/3         41           20/3         41           20/3         41           20/1         41           20/1         41           20/1         20/1	SERVES           55         RTU 2           55         RTU 2           55         RTU 4           56         RTU 4           57         RTU 4           58         100           59         PHASE A           0         PHASE PLUS 10%           0         16620	2 4 6 8 10 12 12 14 16 18 20 22 24 26 28 30 30 32 24 26 28 30 32 34 34 36 38 40 42	CCT         SERVES           1         GFCI RECEP           3         RECEPS           5         RECEPS           7         PRINTER           9         PRINTER           11         RECEPS           13         RECEPS           14         RECEPS           15         RECEPS           16         RECEPS           17         RECEPS           21         RECEPS           23         RECEPS           24         REFRIGERATOR           25         REFRIGERATOR           26         REFRIGERATOR           27         REFRIGERATOR           29         BREAK ROOM RECEP           31         BREAK ROOM RECEP           33         BREAK ROOM RECEP           34         BREAK ROOM RECEP           35         BREAK ROOM RECEP           36         BREAK ROOM RECEP           37         DRYER RECEP           38         SPARE           41         SAPRE           43         SPARE           44         SPARE           47         SPARE           49	VA         OCP         WI           400         20/1         2#           1400         20/1         2#           1600         20/1         2#           1200         20/1         2#           1200         20/1         2#           1200         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           600         20/1         2#           600         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1         2#           1000         20/1	<b>IRE</b> #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G #12,1,#12G	PHASE         WIRE           A         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           A         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           C         2#12,1#12G           C         2#12,1#12G           B         2#12,1#12G           B         2#12,1#12G           A         2#12,1#12G           B         2           C         2#12,1#12G           B         2           C         2           A         2           B	OCP         VA           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         60           20/1         60           20/1         60           20/1         60           20/1         60           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         10           20/1         60           20/1         20/1           20/1         20/1	SERVES           0         RECEPS           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         BEAK ROOM RECEP           0         DRINKING FOUNTAIN           0         BATHROOM GFI           0         WASHER           SPARE         SPARE           SPARE	

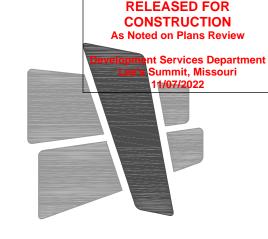
NOT ES:

1 NEMA 1 ENCLOSURE 2 PROVIDE BOLT ON BREAKERS

PANEL	_: BC3 400	MLO	277	/ 480 V, 3PH,	4W.+GRND.				NEW P	ANEL	
сст	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	CCT
1	BATTERY CHARGER	4432	30/3	3-#10,1-#10G	A	3-#10,1-#10G		30/3	4432	BATTERY CHARGER	2
3	BATTERY CHARGER	4432			В				4432	BATTERY CHARGER	4
5	BATTERY CHARGER	4432			C				4432	BATTERY CHARGER	6
7	BATTERY CHARGER	4432	30/3	3-#12,1-#10G	A	3-#12,1-#10G		30/3	4432	BATTERY CHARGER	8
9	BATTERY CHARGER	4432			В				4432	BATTERY CHARGER	10
11	BATTERY CHARGER	4432			C				4432	BATTERY CHARGER	12
13	BATTERY CHARGER	4432	30/3	3-#12,1-#10G	A	3-#12,1-#10G		30/3	4432	BATTERY CHARGER	14
15	BATTERY CHARGER	4432			В				4432	BATTERY CHARGER	16
17	BATTERY CHARGER	4432			С				4432	BATTERY CHARGER	18
19	BATTERY CHARGER	4432	30/3	3-#12,1-#10G	A	3-#12,1-#10G		30/3	4432	BATTERY CHARGER	20
21	BATTERY CHARGER	4432			В				4432	BATTERY CHARGER	22
23	BATTERY CHARGER	4432			С				4432	BATTERY CHARGER	24
25					A						26
27					В						28
29					C						30
31					A						32
33			-		В						34
35			-		C						36
37					A			-			38
39					В			-			40
41			-		C			-			42
							0000	NEO	ID FM		
OTES:					LOAD SUN		CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	I NEMA 1 ENCLOSURE				1-LIGHTIN		0	1.25		0 PHASE A	35
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT		0	NEC		0 PHASE B	35
3	3				3-KITCHEN	1	0	0.65		0 PHASE C	35
					4-HVAC		0	1		0 LOWEST PHASE PLUS 10%	
					5-NON-CO		106368	1	10636		3900
					LARGEST		0	0.25		0 PHASES ARE BALANCED	
					T OT AL VA		106368		10636		
					TOTALAM	/IPS	127.9		127.	9	

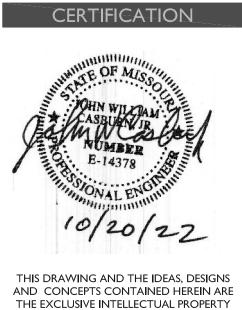
Project Information					
Energy Code:	90.1 (2016) Standard				
Project Title:	Lee's Summit Logistics Lot 1				
Project Type:	New Construction				
Construction Site: NW Corner of NE Tidpr Rd & Main St	Owner/Agent:	Designer/C			
Lee's Summit, MO 64086		Jeremy H Heritage	Electric		
		Olathe, I	artway Drive		
		913-747 jhansent	-0528 @heritage-ele	ectric.com	
Allowed Interior Lighting Power					
A Area Ca		B Floor Area	C Allowed	6 11	D ved Wat
Alea Ca	legoly	(ft2)	Watts / ft2		B X C)
1-Warehouse		208410	0.48 0.79		0037
2-Office		8100 Tc	otal Allowed Wa		6399 )6436
Proposed Interior Lighting Power	r				
	r A Lamp / Wattage Per Lamp / Balla <del>st</del>	B Lamps/	C # of	D Fixture	E (CXD
Fixture ID : Description / I	Α		-	-	E (CXD
Fixture ID : Description / I	Α	Lamps/	# of	Fixture	
Fixture ID : Description / I <u>1-Warehouse</u> LED 1: Other: 2 <u>-Office</u>	Α	Lamps/ Fixture	# of Fixtures 312	Fixture Watt. 210	(C X D
Fixture ID : Description / I <u>1-Warehouse</u> LED 1: Other:	Α	Lamps/ Fixture	# of Fixtures	Fixture Watt. 210 40	(C X D 65520 4120
Fixture ID : Description / I <u>1-Warehouse</u> LED 1: Other: 2 <u>-Office</u>	A Lamp / Wattage Per Lamp / Balla <del>st</del>	Lamps/ Fixture	# of Fixtures 312 103	Fixture Watt. 210 40	(C X D 65520 4120
Fixture ID : Description / I 1-Warehouse LED 1: Other: 2-Office LED 2: Other: Interior Lighting PASSES: Design	A Lamp / Wattage Per Lamp / Balla <del>st</del> n 35% better than code	Lamps/ Fixture	# of Fixtures 312 103	Fixture Watt. 210 40	(C X D 65520 4120
Fixture ID : Description / I 1-Warehouse LED 1: Other: 2-Office LED 2: Other: Interior Lighting PASSES: Design Interior Lighting Compliance State Compliance Statement: The proposed specifications, and other calculations s	A Lamp / Wattage Per Lamp / Ballast n 35% better than code tement Interior lighting design represented in ubmitted with this permit application.	Lamps/ Fixture 1 1	# of Fixtures 312 103 Total Propose	Fixture Watt. 210 40 ad Watts =	(C X D 65520 4120 69640 Jing plan ve been
Fixture ID : Description / I 1-Warehouse LED 1: Other: 2-Office LED 2: Other: Interior Lighting PASSES: Design Interior Lighting Compliance Stat Compliance Statement: The proposed specifications, and other calculations s designed to meet the 90.1 (2016) Stan	A Lamp / Wattage Per Lamp / Ballast n 35% better than code tement Interior lighting design represented in ubmitted with this permit application.	Lamps/ Fixture 1 1	# of Fixtures 312 103 Total Propose	Fixture Watt. 210 40 ad Watts =	(C X D 65520 4120 69640 Jing plan ve been
<u>1-Warehouse</u> LED 1: Other: <u>2-Office</u> LED 2: Other:	A Lamp / Wattage Per Lamp / Ballast n 35% better than code tement Interior lighting design represented in ubmitted with this permit application. Idard requirements in COMcheck Version nspection Checklist.	Lamps/ Fixture 1 1	# of Fixtures 312 103 Total Propose	Fixture Watt. 210 40 ad Watts = h the build stems ha by applica	(C X D 65520 4120 69640 Jing plan ve been ble
Fixture ID : Description / I 1-Warehouse LED 1: Other: 2-Office LED 2: Other: Interior Lighting PASSES: Design Interior Lighting Compliance State Compliance Statement: The proposed specifications, and other calculations s designed to meet the 90.1 (2016) Stan mandatory requirements listed in the fil	A Lamp / Wattage Per Lamp / Ballast n 35% better than code tement Interior lighting design represented in ubmitted with this permit application. Idard requirements in COMcheck Version nspection Checklist.	Lamps/ Fixture 1 1	# of Fixtures 312 103 Total Propose	Fixture Watt. 210 40 ad Watts = h the build stems ha by applica	(C X D 65520 4120 69640 Jing plan ve been
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LO	120	/ 208 V, 3PH, 4	4W.+GRND.		ANEL				
	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	CCT
400	20/1	2-#12, 1-#12G	A	2-#12,1-#12G		20/1	600	RECEPS	2
1400	20/1	2-#12, 1-#12G	В	2-#12,1-#12G		20/1	600	RECEPS	4
1600	20/1	2-#12, 1-#12G	C	2-#12,1-#12G		20/1	1000	RECEPS	6
1200	20/1	2-#12, 1-#12G	A	2-#12,1-#12G		20/1	600	RECEPS	8
1200	20/1	2-#12, 1-#12G	В	2-#12,1-#12G		20/1	1000	RECEPS	10
800	20/1	2-#12, 1-#12G	C	2-#12,1-#12G		20/1	1000	RECEPS	12
1000	20/1	2-#12, 1-#12G	A	2-#12,1-#12G		20/1	400	RECEPS	14
1000	20/1	2-#12,1-#12G	В	2-#12,1-#12G		20/1	600	RECEPS	16
600	20/1	2-#12,1-#12G	C	2-#12,1-#12G		20/1	600	RECEPS	18
600	20/1	2-#12,1-#12G	A	2-#12,1-#12G		20/1	400	RECEPS	20
800	20/1	2-#12,1-#12G	В	2-#12,1-#12G		20/1	600	RECEPS	22
400	20/1	2-#12,1-#12G	C	2-#12,1-#12G		20/1	1000	REFRIGERATOR	24
1000	20/1	2-#12,1-#12G	A	2-#12,1-#12G		20/1	1000	BREAK ROOM RECEP	26
1000	20/1	2-#12,1-#12G	В	2-#12,1-#12G		20/1	1000	BREAK ROOM RECEP	28
1000	20/1	2-#12,1-#12G	C	2-#12,1-#12G		20/1	1000	BREAK ROOM RECEP	30
1000	20/1	2-#12,1-#12G	A	2-#12,1-#12G		20/1	1000	BREAK ROOM RECEP	32
1000	20/1	2-#12, 1-#12G	В	2-#12,1-#12G		20/1	1200	DRINKING FOUNTAIN	34
1000	20/1	2-#12, 1-#12G	C	2-#12,1-#12G		20/1	400	BATHROOM GFI	36
1500	30/2	3-#10, 1-#12G	A	2-#12,1-#12G		20/1	600	WASHER	38
1500			В			20/1		SPARE	40
	20/1		C			20/1		SPARE	42
	20/1		A			20/1		SPARE	44
	20/1		В			20/1		SPARE	46
	20/1		C			20/1		SPARE	48
			A						50
			В						52
			C						54
			A						56
			В						58
			C						60
			A						62
			В						64
			С						66
			LOAD SUN			NEC	DEM	LOAD BALANCE PER PHASE	
			1-LIGHTIN			1.25		PHASE A	1130
2-RECEF				-	34600	1.25 NEC		PHASE A PHASE B	1130
			3-KITCHEN	2-RECEPT ACLES		0.65		PHASE D	1290
			4HVAC		0	0.65		LOWEST PHASE PLUS 10%	1040
			5-NON-CO	NT	0	1		10400 + 10%	114
			LARGEST		0	0.25		REBALANCE LOADS	114
			TOTAL VA		34600	0.25	22300		
			TOTAL VA		96.0		61.9		



CURRAN ARCHITECTURE 5719 LAWTON LOOP E. DR. #212 INDIANAPOLIS, IN 46216 O :: 317.288.0681 F :: 317.288.0753





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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT I

> NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

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