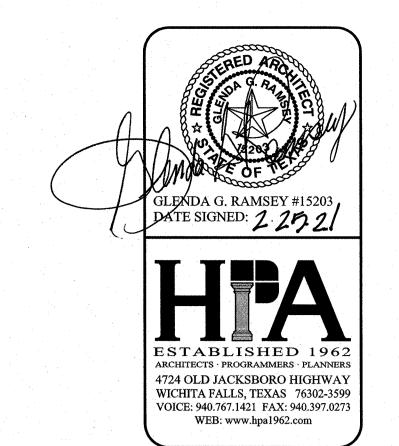
	STRUCTURAL
NO.	SHEET NAME
No are on the say	COVER SHEET
S101	STRUCTURAL NOTES & SCHEDULES
S201	FOUNDATION PLAN; ROOF FRAMING PLAN
S301	FOUNDATION DETAILS

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MECHANICAL / PLUMBING			
NO.	SHEET NAME		
M101	FLOOR PLAN - MECHANICAL DEMO.; FLOOR PLAN - MECHANICAL		

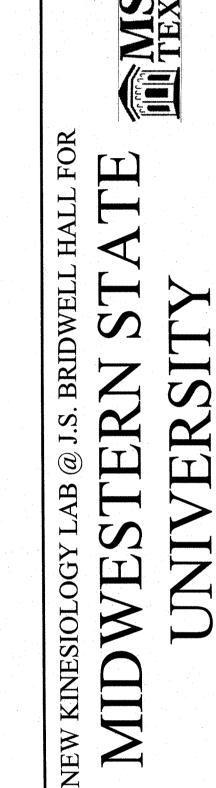
NO.	SHEET NAME
E101	FLOOR PLAN - ELECTRICAL DEMO.; FLOOR PLAN - ELECTRICAL
E102	ELECTRICAL SCHEDULES, LEGENDS, & DETAILS



A NEW KINESIOLOGY LAB FOR J.S. BRIDWELL HALL MIDWESTERN STATE UNIVERSITY

WICHITA FALLS, TEXAS

BUILD	OING CODE SUMMARY
FACILITY NAME	A NEW KINESIOLOGY LAB FOR J.S. BRIDWELL HALL - MSU TEXAS
BUILDING CODE YEAR	2015 INTERNATIONAL BUILDING CODE (IBC)
OCCUPANCY	EDUCATIONAL
AREA SQUARE FOOTAGE	2,373 S.F. TOTAL
BUILDING HEIGHT	40'-7"± (HIGHEST PEAK OF ROOF; 6:12 SLOPE); 20'-8" EAVE / ONE-STORY
CONSTRUCTION TYPE	TYPE IIB
OCCUPANT LOAD	119 TOTAL OCCUPANTS (TABLE 1004.1.2)





DRAWN BY: SAM K. KENSHALO

DATE: 25 FEBRUARY 2021

REVISIONS

NO. DESCRIPTION DATE

PROJECT NO.

18833.01

SET NO.

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GENERAL NOTES

- 1. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE PROVISIONS OF THE 2015 INTERNATIONAL BUILDING CODE.
- 2. THE BUILDING STRUCTURE HAS BEEN DESIGNED TO RESIST THE FOLLOWING CODE PRESCRIBED LOADS:

LIVE LOADS

SITE CLASS

SEISMIC DESIGN CATEGORY

ROOF FLOOR		20 PSF 100 PSF
SNOW LOADS		
GROUND SNOW LOAD, Pg. SNOW IMPORTANCE FACTOR SNOW EXPOSURE FACTOR, THERMAL FACTOR, Ct		5 PSF 1.0 0.9 1.0
WIND LOADS		
ULTIMATE DESIGN WIND SPE EXPOSURE CATEGORY SURFACE ROUGHNESS	EED (RISK CATEGORY III)	115 MPH B B
SEISMIC LOADS		
OCCUPANCY CATEGORY SEISMIC IMPORTANCE FACT SPECTRAL RESPONSE COEF SPECTRAL RESPONSE COEF	FFICIENT, SS	II 1.0 13.5%g 5.8%g

- 3. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION.
- 4. THE STRUCTURAL DRAWINGS SHALL NOT BE SCALED FOR DETERMINATION OF QUANTITY, LENGTH OR FIT OF MATERIALS.
- 5. PRINCIPAL OPENINGS ARE INDICATED ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, BLOCKOUTS, INSERTS, CURBS, OPENINGS AND SLAB DEPRESSIONS NOT SHOWN.
- 6. CONTRACTOR SHALL COMPARE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.
- 7. CONTRACTOR SHALL INSURE THAT CONSTRUCTION MATERIALS WHOSE WEIGHT EXCEEDS THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS ARE NOT STORED ON STRUCTURALLY SUPPORTED FLOOR OR ROOF FRAMING.
- 8. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH, IN HIS OR HER OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.
- 9. LOADINGS FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNIT(S) SHOWN ON THE STRUCTURAL DRAWINGS. ANY CHANGES IN TYPE, SIZE, WEIGHT OR NUMBER OF UNIT(S) SHALL BE REPORTED TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS OR MECHANICAL EQUIPMENT.
- 10. REPRODUCTION OF THE STRUCTURAL DRAWINGS, EITHER IN PART OR IN WHOLE, FOR SUBMITTALS OR SHOP DRAWINGS SIGNIFIES ACCEPTANCE OF INFORMATION SHOWN AS CORRECT AND OBLIGES THE USER TO ANY EXPENSE, REAL OR IMPLIED, ARISING FROM THEIR USE.
- 11. CONTRACTOR SHALL SCHEDULE SITE OBSERVATION VISITS WITH THE ENGINEER OF RECORD AND/OR TESTING LABORATORY A MINIMUM OF FORTY-EIGHT HOURS PRIOR TO THE REQUIRED TIME OF THE VISIT.
- 12. CONTRACTOR SHALL ALLOW TEN (10) WORKING DAYS FOR THE ENGINEER TO REVIEW EACH STRUCTURAL SUBMITTAL OR SHOP DRAWING.
- 13. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION OR INSTALLATION OF ANY NEW MATERIALS.

STRUCTURAL CONCRETE NOTES

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 AND ACI 318. ALL CONCRETE SHALL BE LABORATORYDESIGNED AND CONTROLLED.
- 2. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL HAVE SAND AND GRAVEL OR CRUSHED STONE COARSE AGGREGATES AND A CORRESPONDING TWENTY-EIGHT (28) DAY COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CONCRETE THAT WILL BE PERMANENTLY EXPOSED TO WEATHER SHALL CONTAIN AN AIR ENTRAINING AGENT THAT PROVIDES FOUR (4) TO SIX (6) PERCENT AIR BY VOLUME.
- 3. CONCRETE PROTECTION FOR STEEL REINFORCEMENT SHALL BE AS FOLLOWS (SEE ACI 318, SECTION 7.7 FOR CONDITIONS NOT INDICATED):

ALL CONCRETE PLACED AGAINST SOIL 3" SLABS ON GRADE AT SLAB MID-DEPTH 3" BOTTOM AND SIDES, 1 1/2" TOP TRENCHED GRADE BEAMS

- 4. LOCATE JOINTS TO LEAST IMPAIR STRENGTH AND APPEARANCE OF STRUCTURE. LOCATE HORIZONTAL JOINTS IN CONCRETE ONLY WHERE THEY NORMALLY OCCUR OR WHERE INDICATED ON PLAN. LOCATE VERTICAL JOINTS IN THE MIDDLE THIRD OF SPAN.
- 5. ROUGHEN SURFACE OF HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SO THAT AGGREGATE SHALL BE EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES OR DAMAGED CONCRETE.
- 6. THE PLACEMENT OF SLEEVES OR OPENINGS THRU CONCRETE MEMBERS IS PROHIBITED UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER OF RECORD.
- 7. PROVIDE CHAMFERS AND REVEALS AS INDICATED IN THE ARCHITECTURAL DRAWINGS.
- 8. THE BUILDING OWNER SHALL SECURE AN INDEPENDENT TESTING LABORATORY TO PERFORM AT LEAST ONE COMPRESSIVE STRENGTH TEST FOR EACH ONE HUNDRED (100) CUBIC YARDS, OR FRACTION THEREOF, OF EACH MIX DESIGN OF CONCRETE PLACED ON ANY ONE DAY. THE LABORATORY SHALL RECORD THE MIX DESIGN, LOCATION OF PLACEMENT, AND SLUMP OF EACH SPECIMEN.
- 9. A COMPRESSIVE STRENGTH TEST SHALL BE COMPRISED OF FOUR (4) 6"X12" OR FIVE (5) 4"X8" CYLINDER SPECIMENS OBTAINED IN ACCORDANCE WITH ASTM C31. ONE (1) CYLINDER SPECIMEN SHALL BE TESTED AT SEVEN (7) DAYS FOR INFORMATION AND TWO (2) 6"X12" CYLINDER SPECIMENS OR THREE (3) 4"X8" CYLINDER SPECIMENS SHALL BE TESTED AT TWENTY-EIGHT (28) DAYS FOR ACCEPTANCE. THE REMAINING CYLINDER SPECIMEN SHALL BE HELD FOR TESTING AS DIRECTED.

REINFORCING STEEL NOTES

- 1. ALL DETAILING OF STEEL REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI COMMITTEE 315 PUBLICATION SP-66, "ACI DETAILING MANUAL."
- 2. DEFORMED BAR REINFORCEMENT SHALL BE DOMESTIC NEW BILLET STEEL IN CONFORMANCE WITH ASTM A615, GRADE 60.

ADHESIVE ANCHOR AND DOWEL NOTES

- 1. WHERE NOTED IN THE PLANS AND DETAILS, ADHESIVE ANCHORS AND DOWELS SHALL BE INSTALLED WITH HILTI HY200 SAFE SET EPOXY IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
- 2. ADHESIVE ANCHORS AND/OR DOWELS NOT NOTED IN THE PLANS AND DETAILS ARE NOT ALLOWED WITHOUT PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER OF RECORD.
- 3. UNLESS NOTED OTHERWISE, THE MINIMUM EMBEDMENT DEPTH OF ADHESIVE ANCHORS AND DOWELS SHALL BE AS FOLLOWS:

ANCHOR/DOWEL	EMBEDMEN
3/8" DIA. OR #3 BAR	4 1/2"
1/2" DIA. OR #4 BAR.	6"
5/8" DIA. OR #5 BAR	9 5/8"
3/4" DIA. OR #6 BAR	11 1/4
7/8" DIA. OR #7 BAR	13 1/8
1" DIA. OR #8 BAR	15"

STRUCTURAL ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS ARE REFERENCED IN THE STRUCTURAL DRAWINGS. PLEASE CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ANY CLARIFICATION, PRIOR TO FABRICATION.

ACI	AMERICAN CONCRETE	LBS	POUNDS
	INSTITUTE ADD'L ADDITIONAL	LL	LIVE LOAD
AISC	AMERICAN INSTITUTE OF	LLH	LONG LEG HORIZONTAL
	STEEL CONSTRUCTION	LLV	LONG LEG VERTICAL
AISI	AMERICAN IRON AND STEEL	LSL	LAMINATED STRAND LUMBER
	INSTITUTE	LT. GAGE	LIGHT GAGE
ALT.	ALTERNATE	LVL	LAMINATED VENEER LUMBER
APA	AMERICAN PLYWOOD	LVL	D WINT (TED VEHEER COMBER
AI A		MAT'L	MATERIAL
	ASSOCIATION (ENGINEERED		
	WOOD ASSOCIATION)	MAX.	MAXIMUM
ARCH'L	ARCHITECTURAL, ARCHITECT	MECH'L	MECHANICAL
ASS'Y	ASSEMBLY	MFR.	MANUFACTURER
ASTM	ASTM INTERNATIONAL	MIN.	MINIMUM
	(FORMERLY AMERICAN		
	SOCIETY FOR TESTING AND	NDS	NATIONAL DESIGN
	MATERIALS)		SPECIFICATION FOR WOOD
			CONSTRUCTION
B/	BOTTOM OF	NTS	NOT TO SCALE
B/BEAM	BOTTOM OF BEAM		
BLDG.	BUILDING	O.C.	ON CENTER
BOT:	BOTTOM	O.D.	OUTSIDE DIAMETER
BRG.	BEARING	OPNG.	OPENING
C.L.	CENTERLINE	OPP.	OPPOSITE
CLG.	CEILING		
CMU	CONCRETE MASONRY	P.E.M.B.	PRE-ENGINEERED METAL
UNIT(S)		BUILDING	
COL.	COLUMN	PL.	PLATE
CONC.	CONCRETE	PLF	POUNDS PER LINEAR FOOT
CONC.	CONNECTION	PREFAB.	PRE-FABRICATED
CONT.	CONTINUOUS	PSF	POUNDS PER SQUARE FOOT
		PSI	
CONST.	CONSTRUCTION		POUNDS PER SQUARE INCH
COORD.	COORDINATE	PSL	PARALLEL STRAND LUMBER
CRSI	CONCRETE REINFORCING	P.T.	POST-TENSIONED
	STEEL INSTITUTE		
		R	REMAINING
DB	DROP BEAM	REF.	REFERENCE
D.B.A.	DEFORMED BAR ANCHOR	REINF.	REINFORCE, REINFORCED
DFL	DOUGLAS FIR/LARCH	REQ'D	REQUIRED
DIA.		REV.	REVISION
DIA. DIM.	DIAMETER	REV. RTU	REVISION ROOF TOP UNIT
DIM.	DIAMETER DIMENSION		REVISION ROOF TOP UNIT
DIM. DL	DIAMETER DIMENSION DEAD LOAD	RTU	ROOF TOP UNIT
DIM. DL DTL	DIAMETER DIMENSION DEAD LOAD DETAIL	RTU SCHED.	ROOF TOP UNIT SCHEDULE(D)
DIM. DL	DIAMETER DIMENSION DEAD LOAD	RTU SCHED. SIM.	ROOF TOP UNIT SCHEDULE(D) SIMILAR
DIM. DL DTL DWL	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL	RTU SCHED. SIM. SJI	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE
DIM. DL DTL DWL EL.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION	RTU SCHED. SIM. SJI SPA.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED
DIM. DL DTL DWL EL. EMBED.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT	RTU SCHED. SIM. SJI SPA. SQ.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE
DIM. DL DTL DWL EL.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION	RTU SCHED. SIM. SJI SPA. SQ. STD.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED
DIM. DL DTL DWL EL. EMBED.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT	RTU SCHED. SIM. SJI SPA. SQ.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE
DIM. DL DTL DWL EL. EMBED. EQ.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL	RTU SCHED. SIM. SJI SPA. SQ. STD.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD
DIM. DL DTL DWL EL. EMBED. EQ.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S)
DIM. DL DTL DWL EL. EMBED. EQ. EXP.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S)
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FLOOR	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FOOTING	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FOOTING GALVANIZED	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FOOTING	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FOOTING GALVANIZED GYPSUM	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIER	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PIER
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP. HORIZ.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FLOOR FOOTING GALVANIZED GYPSUM HORIZONTAL	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIER T/PILECAP	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PIER TOP OF PILECAP
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FOOTING GALVANIZED GYPSUM	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIER	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PIER
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP. HORIZ.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FLOOR FOOTING GALVANIZED GYPSUM HORIZONTAL	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIER T/PILECAP	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PIER TOP OF PILECAP
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP. HORIZ.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FLOOR FOOTING GALVANIZED GYPSUM HORIZONTAL HEATING, VENTILATION AND	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIER T/PIECAP T/SHEATHING T/SLAB	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PIER TOP OF PILECAP TOP OF SHEATHING
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP. HORIZ. HVAC	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FOOTING GALVANIZED GYPSUM HORIZONTAL HEATING, VENTILATION AND AIR CONDITIONING	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIER T/PIECAP T/SHEATHING T/SLAB T/STEEL	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PIER TOP OF PIER TOP OF SHEATHING TOP OF SLAB TOP OF STEEL
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP. HORIZ. HVAC	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FLOOR FOOTING GALVANIZED GYPSUM HORIZONTAL HEATING, VENTILATION AND	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIER T/PIECAP T/SHEATHING T/SLAB T/STEEL T/WALL	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PIER TOP OF PIER TOP OF SHEATHING TOP OF SLAB TOP OF WALL
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP. HORIZ. HVAC IBC CODE	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FOOTING GALVANIZED GYPSUM HORIZONTAL HEATING, VENTILATION AND AIR CONDITIONING	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIER T/PIECAP T/SHEATHING T/SLAB T/STEEL	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PIER TOP OF PIER TOP OF SHEATHING TOP OF SLAB TOP OF STEEL
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP. HORIZ. HVAC IBC CODE I.D.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FLOOR FOOTING GALVANIZED GYPSUM HORIZONTAL HEATING, VENTILATION AND AIR CONDITIONING INTERNATIONAL BUILDING	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIER T/PILECAP T/SHEATHING T/SLAB T/STEEL T/WALL TYP.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PIER TOP OF PIER TOP OF SHEATHING TOP OF SLAB TOP OF STEEL TOP OF WALL TYPICAL
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP. HORIZ. HVAC IBC CODE	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FOOTING GALVANIZED GYPSUM HORIZONTAL HEATING, VENTILATION AND AIR CONDITIONING	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIER T/PIECAP T/SHEATHING T/SLAB T/STEEL T/WALL TYP. U.N.O.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PILECAP TOP OF SHEATHING TOP OF SLAB TOP OF STEEL TOP OF WALL TYPICAL UNLESS NOTED OTHERWISE
DIM. DIL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP. HORIZ. HVAC IBC CODE I.D. INFO.	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FLOOR FOOTING GALVANIZED GYPSUM HORIZONTAL HEATING, VENTILATION AND AIR CONDITIONING INTERNATIONAL BUILDING INSIDE DIAMETER INFORMATION	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIER T/PILECAP T/SHEATHING T/SLAB T/STEEL T/WALL TYP.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PIER TOP OF PIER TOP OF SHEATHING TOP OF SLAB TOP OF STEEL TOP OF WALL TYPICAL
DIM. DL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP. HORIZ. HVAC IBC CODE I.D. INFO. KIP	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FLOOR FOOTING GALVANIZED GYPSUM HORIZONTAL HEATING, VENTILATION AND AIR CONDITIONING INTERNATIONAL BUILDING INSIDE DIAMETER INFORMATION KILOPOUND (1,000 POUNDS)	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIECAP T/SHEATHING T/SLAB T/STEEL T/WALL TYP. U.N.O. VERT.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PILECAP TOP OF SHEATHING TOP OF SLAB TOP OF STEEL TOP OF WALL TYPICAL UNLESS NOTED OTHERWISE VERTICAL
DIM. DIL DTL DWL EL. EMBED. EQ. EXP. FB F/ FLR. FTG. GALV. GYP. HORIZ. HVAC IBC CODE I.D. INFO. KIP KSI	DIAMETER DIMENSION DEAD LOAD DETAIL DOWEL ELEVATION EMBEDMENT EQUAL EXPANSION FLUSH BEAM FLOOR FINISHED FLOOR FLOOR FOOTING GALVANIZED GYPSUM HORIZONTAL HEATING, VENTILATION AND AIR CONDITIONING INTERNATIONAL BUILDING INSIDE DIAMETER INFORMATION	RTU SCHED. SIM. SJI SPA. SQ. STD. STIRR. SYP T/ T/CONC. T/FOOTING T/METAL T/PANEL T/PARAPET T/PIECAP T/SHEATHING T/SLAB T/STEEL T/WALL TYP. U.N.O. VERT.	ROOF TOP UNIT SCHEDULE(D) SIMILAR STEEL JOIST INSTITUTE SPACE(S), SPACED SQUARE STANDARD STIRRUP(S) SOUTHERN PINE TOP OF TOP OF CONC TOP OF FOOTING TOP OF METAL TOP OF PANEL TOP OF PARAPET TOP OF PIER TOP OF PIER TOP OF SLEAB TOP OF STEEL TOP OF WALL TYPICAL UNLESS NOTED OTHERWISE VERTICAL
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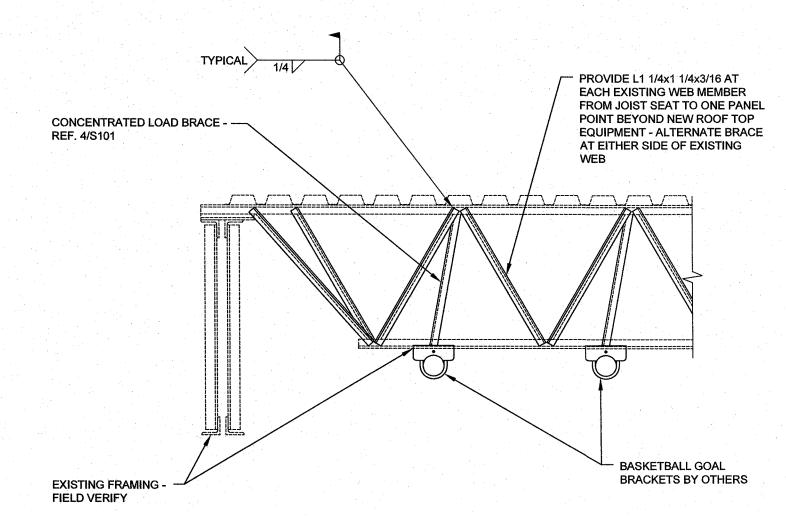
CONCRETE REINFORCING LAP SPLICE SCHEDULE			
BAR SIZE	LAP		
3	1'-6"		
4	2'-0"		
5	2'-6"		
6	3'-0"		
7	4'-2"		
8	4'-8"		
9	5'-4"		
10	6'-0"		
11	6'-8"		

01	SCHEDU	JLE	
U	NO SCALE		

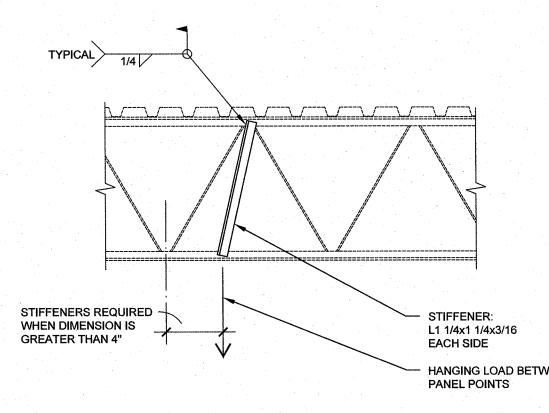
	В	Α		
	C			* .
MARK	SIZE	Α	В	С
DWL.	#4	2'-6"	1'-0"	-
DWL. B	#5	2'-9"	0'-8"	-
DWL. C	#3	1'-6"	1'-6"	•
DWL. D	#5	2'-0"	1'-0"	-
DWL. E	#4	2'-0"	AS REQ'D	
DWL. F	#4	AS REQ'D	0'-8"	-
DWL. G	#4	2'-6"	0'-8"	0'-8
NOTES:				

2. DOWEL SPACING TO BE THE SAME AS VERTICAL BEAM OR WALL REINFORCEMENT, UNLESS NOTED OTHERWISE.

3. STRAIGHT BARS SHALL BE PLACED WITH ONE HALF OF BAR LENGTH ON EACH SIDE OF COLD JOINT, UNLESS NOTED OTHERWISE.



TYPICAL DETAIL TO **REINFORCE EXISTING JOISTS**

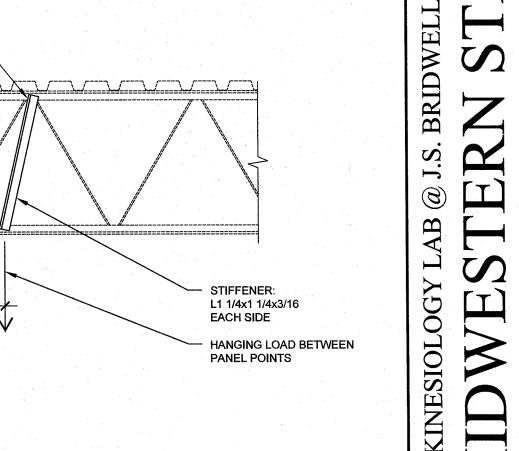


TYPICAL JOIST AT

E SEAL APPEARING

ON THIS DOCUMENT **WAS AUTHORIZED BY**

R. TRENT PERKINS, P.E. 84264



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GLENDA G. RAMSEY #15203

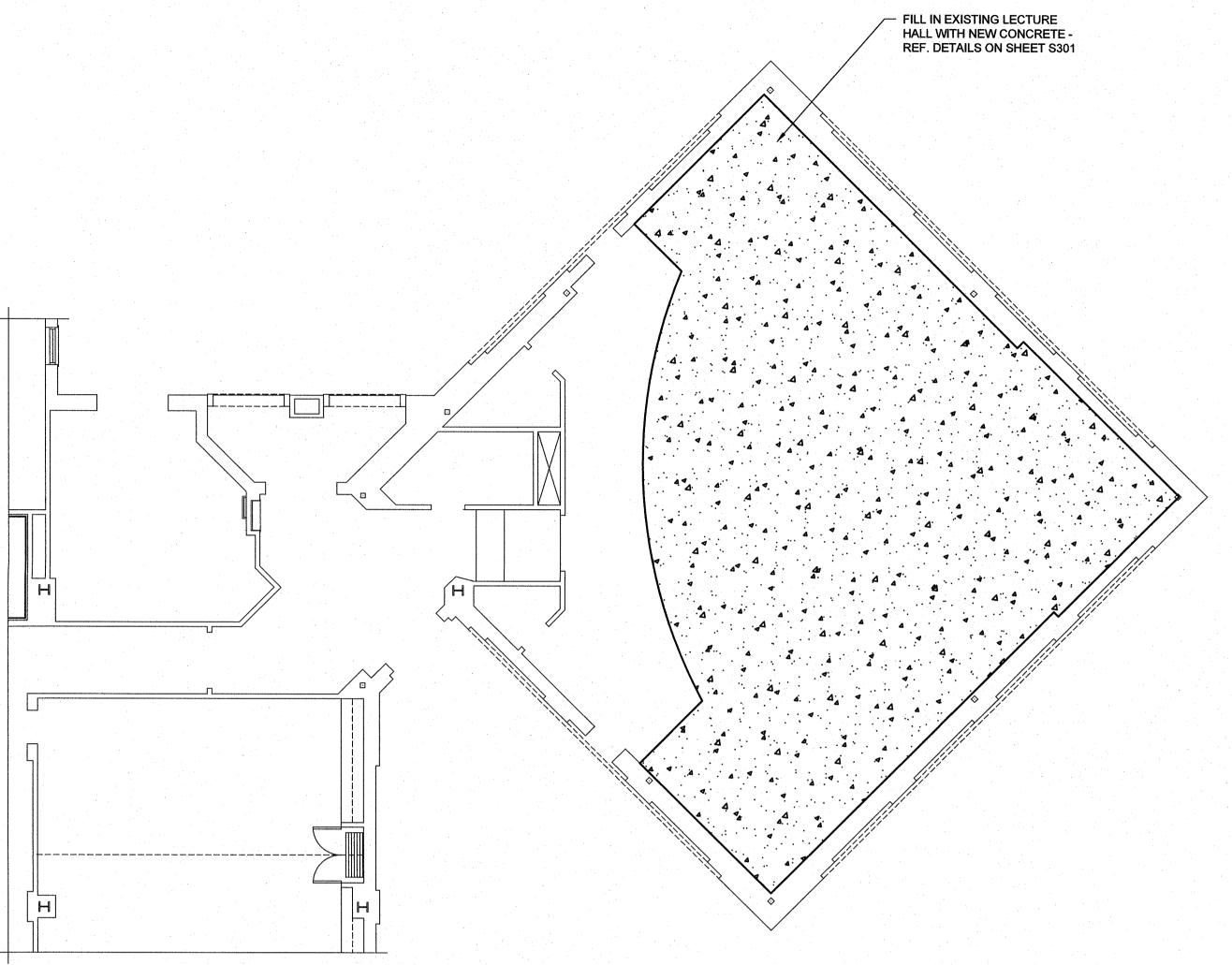
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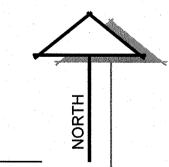
Texas Engineering Firm F-16159 P.O. Box 1599 Rockwall, Texas 75087 Phone 214-293-2503 | SHEET NO. RTP#: 21012

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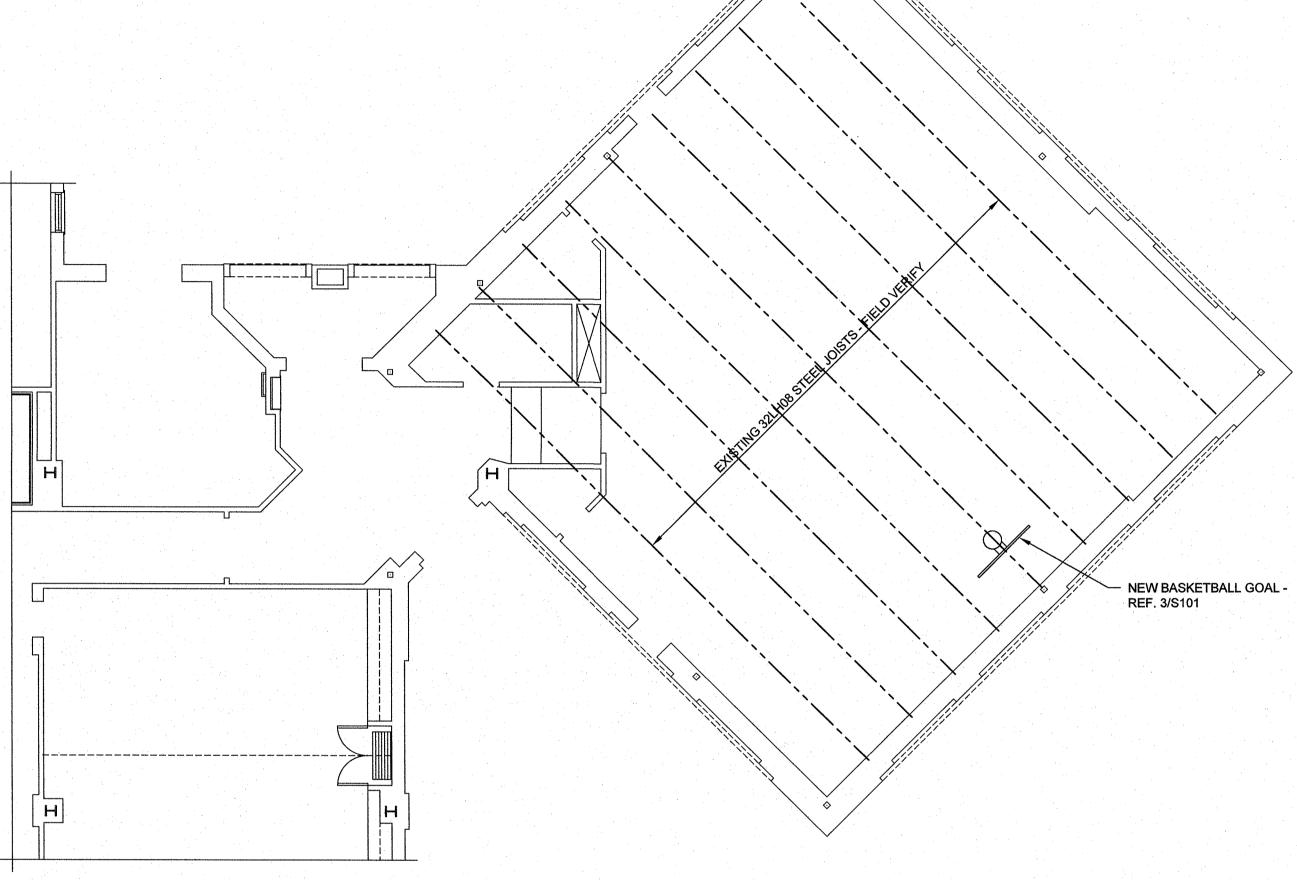
FOUNDATION PLAN NOTES:

- 1. REFER TO SHEET S101 FOR STRUCTURAL NOTES AND SCHEDULES.
- 2. REFER TO SHEET S301 FOR TYPICAL FOUNDATION DETAILS.
- 3. T/CONC. = TOP OF CONCRETE ELEVATION. T/CONC. AT EXISTING = 100'-0", UNLESS NOTED OTHERWISE. REFER TO CIVIL/SITE PLAN FOR RELATIVE DATUM ELEVATION.
- 4. COORDINATE FLOOR DEPRESSIONS, DROPS, SLOPES, AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.



FOUNDATION PLAN - LECTURE HALL

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



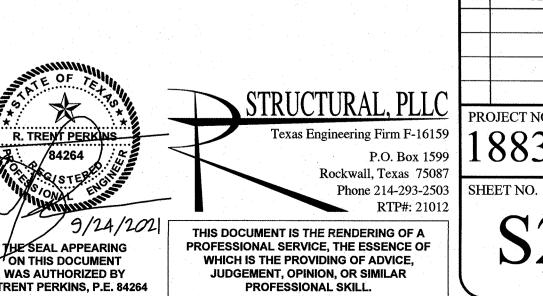
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- 4. COORDINATE FLOOR DEPRESSIONS, DROPS, SLOPES, AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

WAS AUTHORIZED BY R. TRENT PERKINS, P.E. 84264

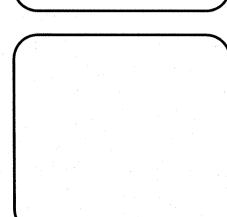
ROOF FRAMING PLAN - LECTURE HALL

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



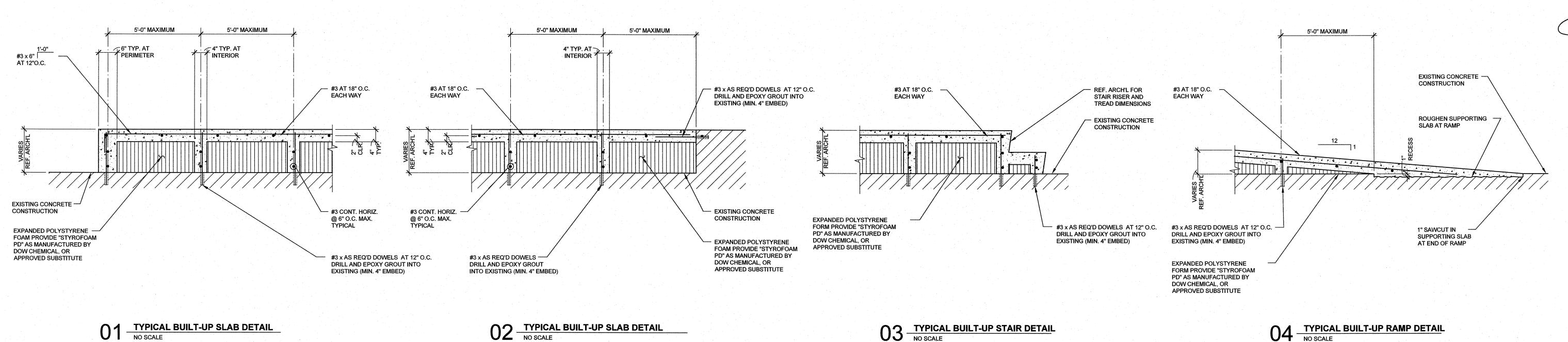
GLENDA G. RAMSEY #15203 DATE SIGNED: 2.27.21

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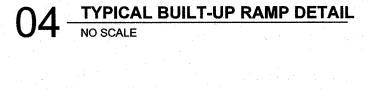
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03 TYPICAL BUILT-UP STAIR DETAIL NO SCALE

EDGE OF CONCRETE SLAB-ON-GRADE 2" FROM TOP OF CONCRETE PLAN

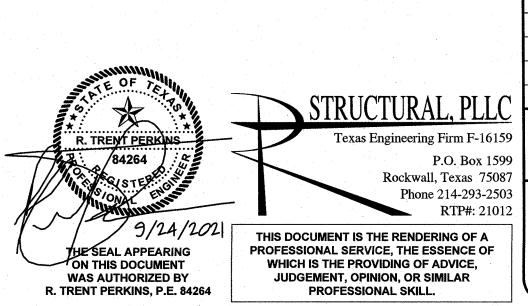
TYPICAL RE-ENTRANT SLAB
CORNER REINFORCING DETAIL
NO SCALE

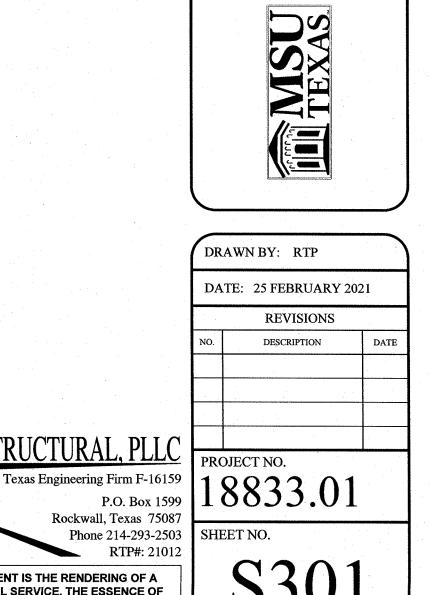




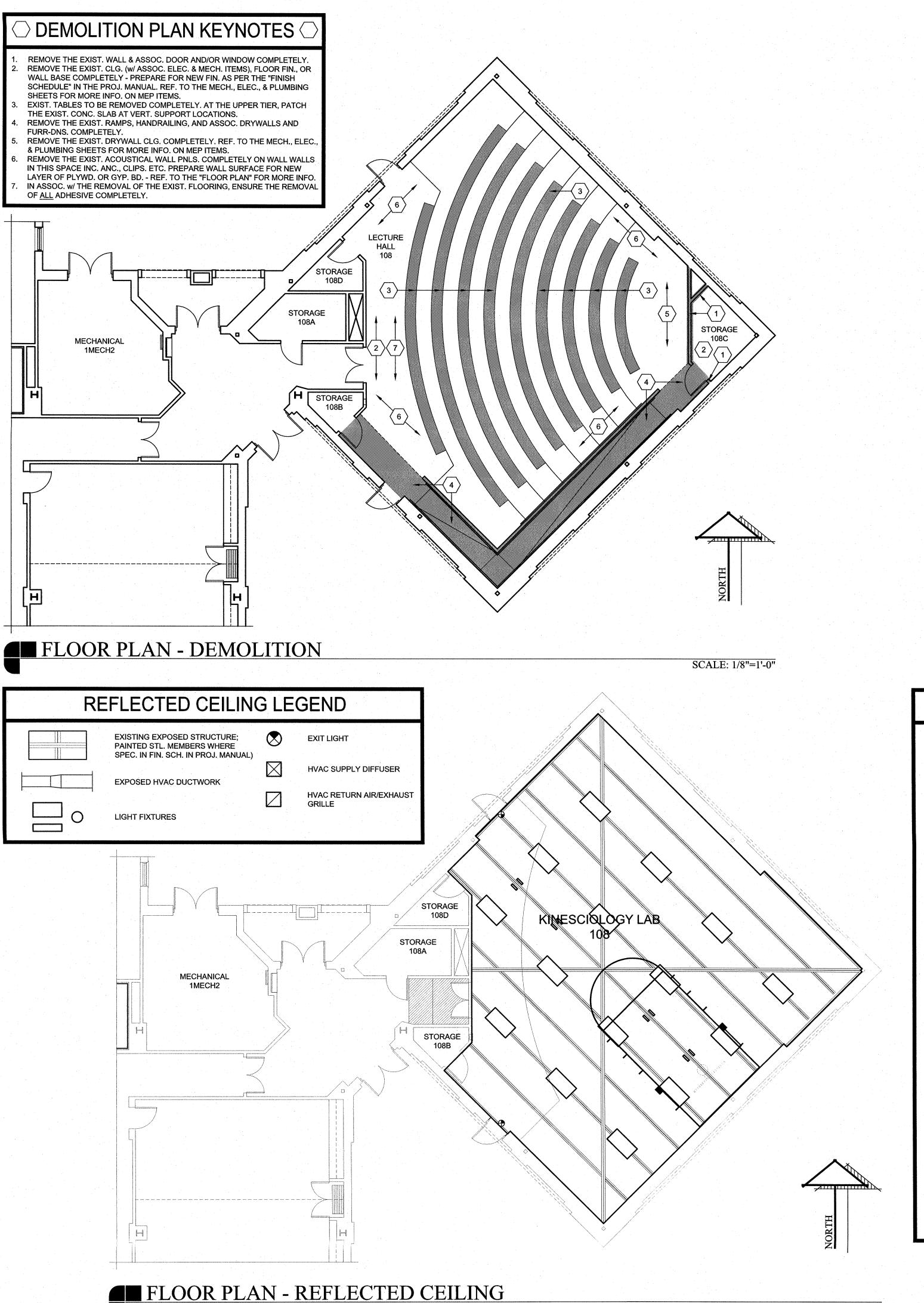
GLENDA G. RAMSEY #15208 DATE SIGNED: 2.20.21

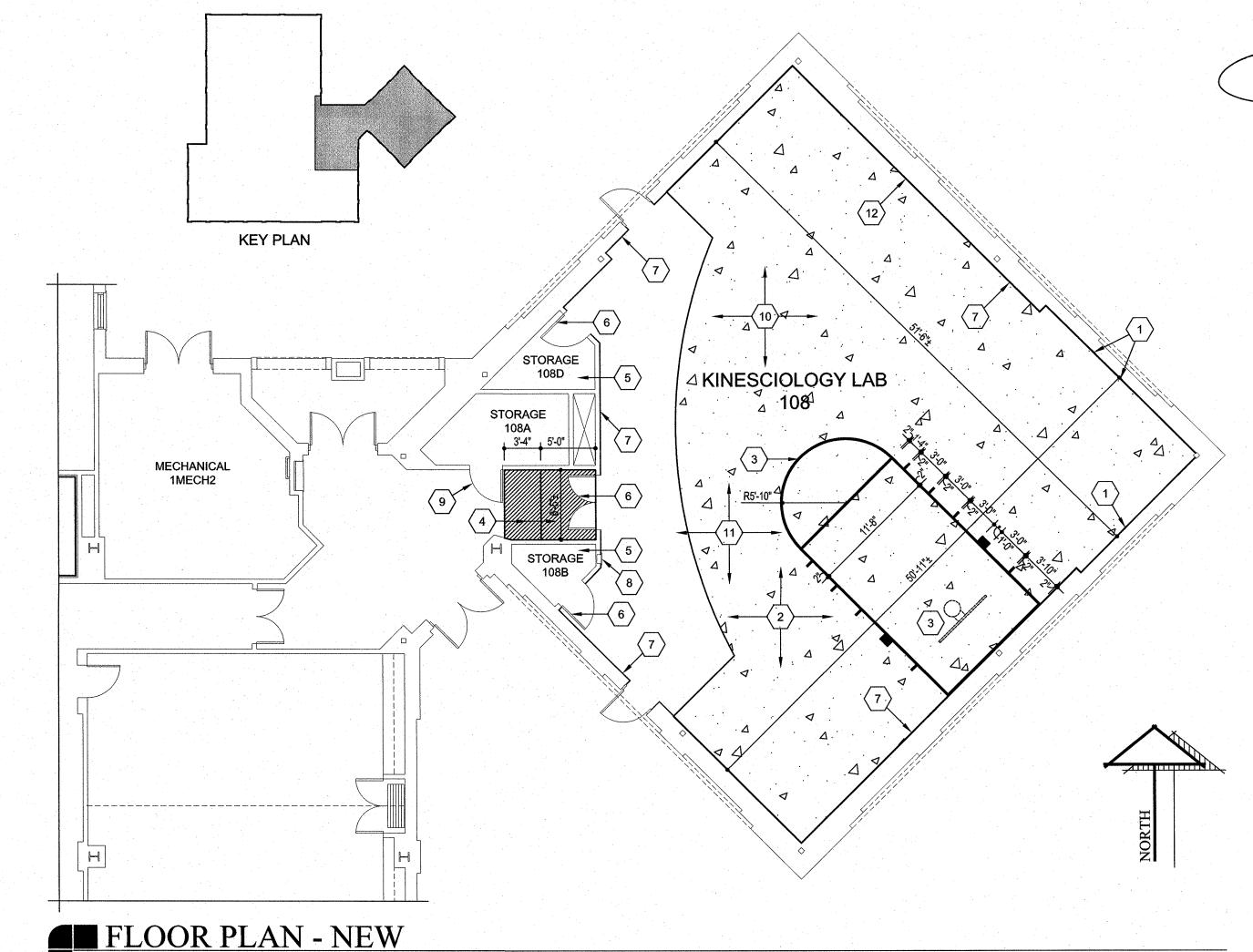
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○ FLOOR PLAN KEYNOTES ○

- PATCH EXIST. WALL AT LOCATION OF PREVIOUSLY REMOVED WALL. PATCH w/ MATCHING WALL MATERIALS & FIN.
- BASE BID: EXPOSED CONC. FLR. AREA; <u>ALTERNATE #1</u>: NEW WD. SPORTS FLOORING SYSTEM PAINTED COURT MARKINS INC. AS PART OF THE <u>BASE BID</u> SEE KEYNOTE #3 BELOW. REF. TO THE PROJ. MANUAL FOR MORE INFO. ON THE WD. FLOORING SYSTEM. BASE BID: NEW 2" THK. PAINTED COURT MARKINGS AND BASKETBALL GOAL - REF. TO
- THE PROJ. MANUAL FOR MORE INFO. ALTERNATE #1: PROVIDE A NEW LEVEL LANDING AND SLOPED TRANSITION COMPOSED OF ONE (1) LAYER OF 3" TREATED PLYWD. ON 2x6 TREATED WD. SLEEPERS/FRAMING @ 18" O.C.; PROVIDE FLR. FIN. AS SCH. - REF. TO THE "FINISH SCHEDULE" IN THE PROJ.
- MANUAL FOR MORE INFO. ALTERNATE #1: PROVIDE A NEW PLYWD. FLR. COMPOSED OF ONE (1) LAYER OF 3" TREATED PLYWD. ON 2x6 TREATED WD. SLEEPERS/FRAMING @ 16" O.C.; PROVIDE FLR. FIN. AS SCH. - REF. TO THE "FINISH SCHEDULE" IN THE PROJ. MANUAL FOR MORE INFO.
- ALTERNATE #1: EXIST. DR. TO REMAIN & REUSE; CUT & REMOVE 21 OR HT. AS NECESSARY TO CLEAR THE NEW WOOD SPORTS FLOORING AND PLYWD. FLR.; ALSO CUT & REMOVE A PORTION OF THE EXIST. SURFACE ROD DEVICES AS NECESSARY AND RETHREAD FOR NEW FLOORING.
- BASE BID: PROVIDE A NEW WAINSCOT COMPOSED OF ONE (1) LAYER OF $\frac{1}{2}$ " THK., 8'-0"H. TYPE "AC" PLYWD. OVER THE EXIST. WALLS - PAINT. ABOVE THE PLYWD., PROVIDE A NEW LAYER OF 8" FIRE-RATED GYP. BD. EXTENDING TO THE ROOF DECK - TAPE & BED AND FIN. AS SCH. AS PER THE "FINISH SCHEDULE" IN THE PROJ. MANUAL. PROVIDE NEW 6" BATT INS. BETWEEN THE EXIST. EXT. STR. STUD STUDS AND BEHIND THE NEW LAYER OF GYP. BD. ALONG THE SOUTH WALL, PROVIDE "HIGH-IMPACT RESISTANT" GYP. BD. BEHIND THE BASKETBALL GOAL. PROVIDE POLYETHYLENE VERT. TRIM AT PLYWD. JNTS. HORIZ. CONT. POLYETHYLENE TRIM ALONG THE PLYWD./GYP. BD. JNT. THE POLYETHYLENE TRIM SHALL BE EQ. TO OUTWATER #ZZ-1058-543, 12" FLEXIBLE, CENTER BARB TEE MOULDING IN 250' ROLLS - COLOR AS SELECTD BY THE OWNER & ARCHITECT FROM THE MFG. FULL LINE OF OCLORS. WALL BASE SHALL BE AS SCH. (REF. TO THE "FINISH SCHEDULE" IN THE PROJ. MANUAL). AT LOCATIONS WHERE THE PLYWD. ADJOINS EXIST. DR. FR., PROVIDE VERT. 1x WD. TRIM & PAINT.
- RELOCATE EXIST. FEC. AS NECESSARY TO FACE OF NEW PLYWD, WAINSCOT. PROVIDE A NEW FLR. MTD. DR. STOP FOR THIS EXIST. OPNG. THE DR. STOP SHALL BE EQ. TO ROCKWOOD #RM851 w/ A "BLACK" BUMPER. FIN. TO MATCH EXIST. DR. HDW. THE EXIST. STR. STL. TRUSSES/JSTS. ARE COVERED IN FIREPROOFING MATERIAL. THE G.C. SHALL PROVIDE NEW FIREPROOFING MATERIAL OVER ANY EXPOSED STL.

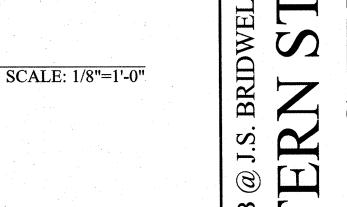
MATERIALS ON THE EXIST. TRUSSES/JSTS. AND ON ANY NEW STL. FRAMING ASSOC. w/

THE INSTALLATION OF THE NEW BASKETBALL GOALS.

- PROVIDE A NEW LAYER OF RIGID INS. w/ FACING AT THE EXIST. MTL. ROOF DECK. IN BETWEEN THE EXIST. MTL. DECK AND & RIGID INS., PROVIDE A LAYER OF NEW 6" BATT INS. ATTACH ALL INS. TO THE MTL. DECK. REF. TO THE PROJ. MANUAL FOR MORE INFO. ON THE RIGID INS. MATERIAL (DIFFERENT MATERIALS INC. IN BASE BID & ALTERNATE #2). ATTACH TO THE EXIST. MTL. DECK w/ CORROSION-RESISTANT FASTENERS & POLY WASHERS AS PER THE MFG. RECOMMENDATIONS (PENETRATION DEPTH & SPACING
- ALSO AS PER THE MFG. RECOMMENDATION). A PORTION OF THIS WALL AREA TO BE FOR A PROJECTION SCREEN SURFACE FROM APPROX. 8'-0" A.F.F. TO THE ROOF STR. THE TEXTURE ON THIS WALL AREA (FROM 8'-0" A.F.F. TO APPROX. 14'-0" A.F.F.) SHALL BE A "FLAT" TEXTURE FIN. - THE OWNER & ARCHITECT TO SELECT FINAL TEXTURE PRIOR TO APPLICATION. THE WALL AREA SHALL BE PAINTED w THE FOLLOWING PROJECTION PAINT EQ. TO PAINT ON SCREEN "DIGITAL THEATER WHITE" (VERY LIGHT GREY COLOR) OR PAINT ON SCREEN "S1 SCREEN PLUS" (LIGHT GREY SILVERISH COLOR). THE FINAL EXACT SIZE AND LOCATION OF THE SURFACE AREA SHALL BE COORDINATED w/ THE ARCHITECT & OWNER PRIOR TO APPLICATION.

FLOOR PLAN GENERAL NOTES

1. REFER TO SECTION 099990 AND 099999 IN THE PROJECT MANUAL FOR THE "FINISH SCHEDULE" AND "FINISH SCHEDULE KEY". 2. REFER TO SEC. 012300 IN THE PROJECT MANUAL FOR A LIST AND DESCRIPTIONS OF ALTERNATES AND ASSOCIATED SCOPE OF WORK.



AB KINESIOLOGY NEW

GLENDA G. RAMSEY #15203 DATE SIGNED: 2.27.21

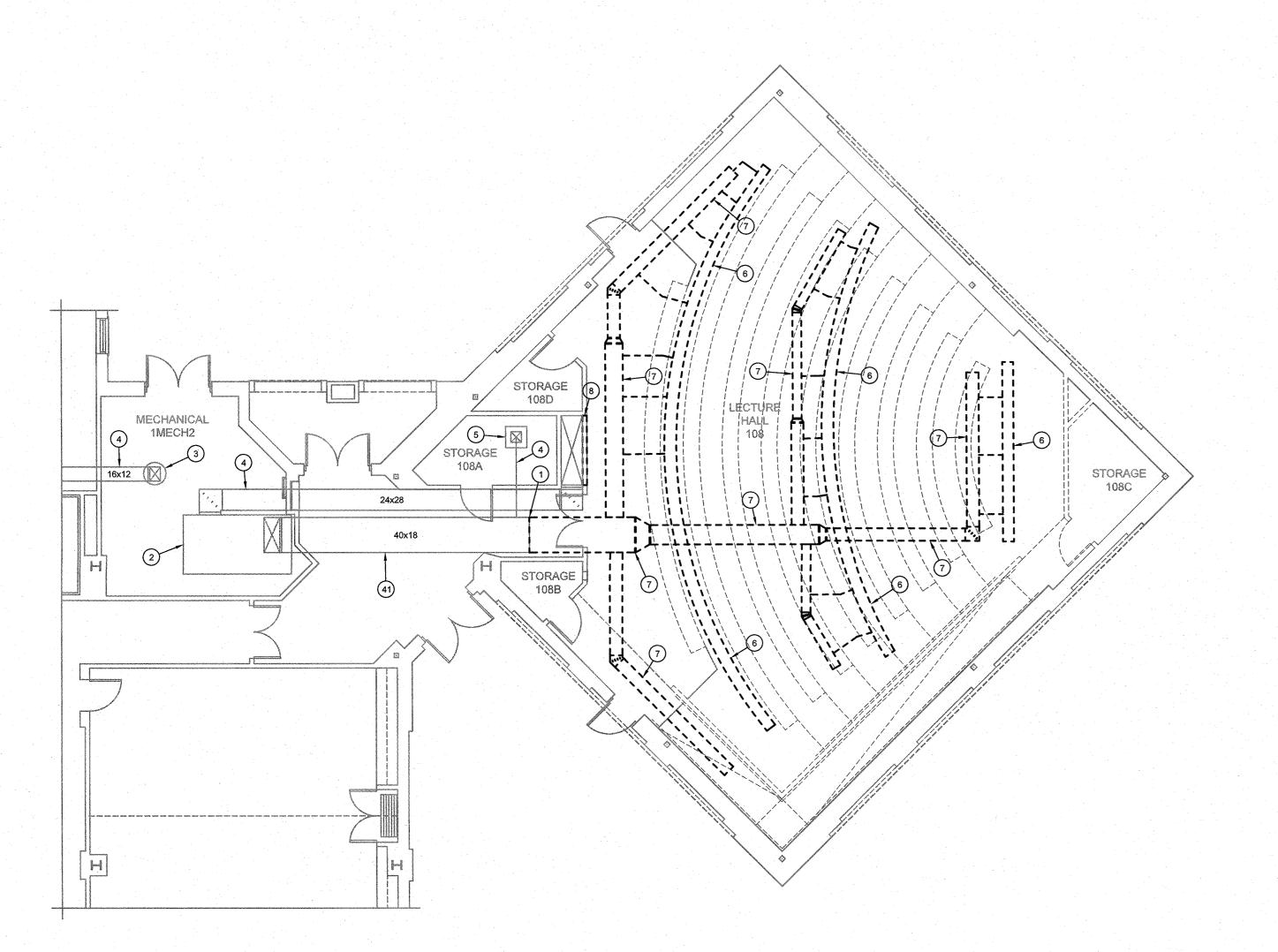
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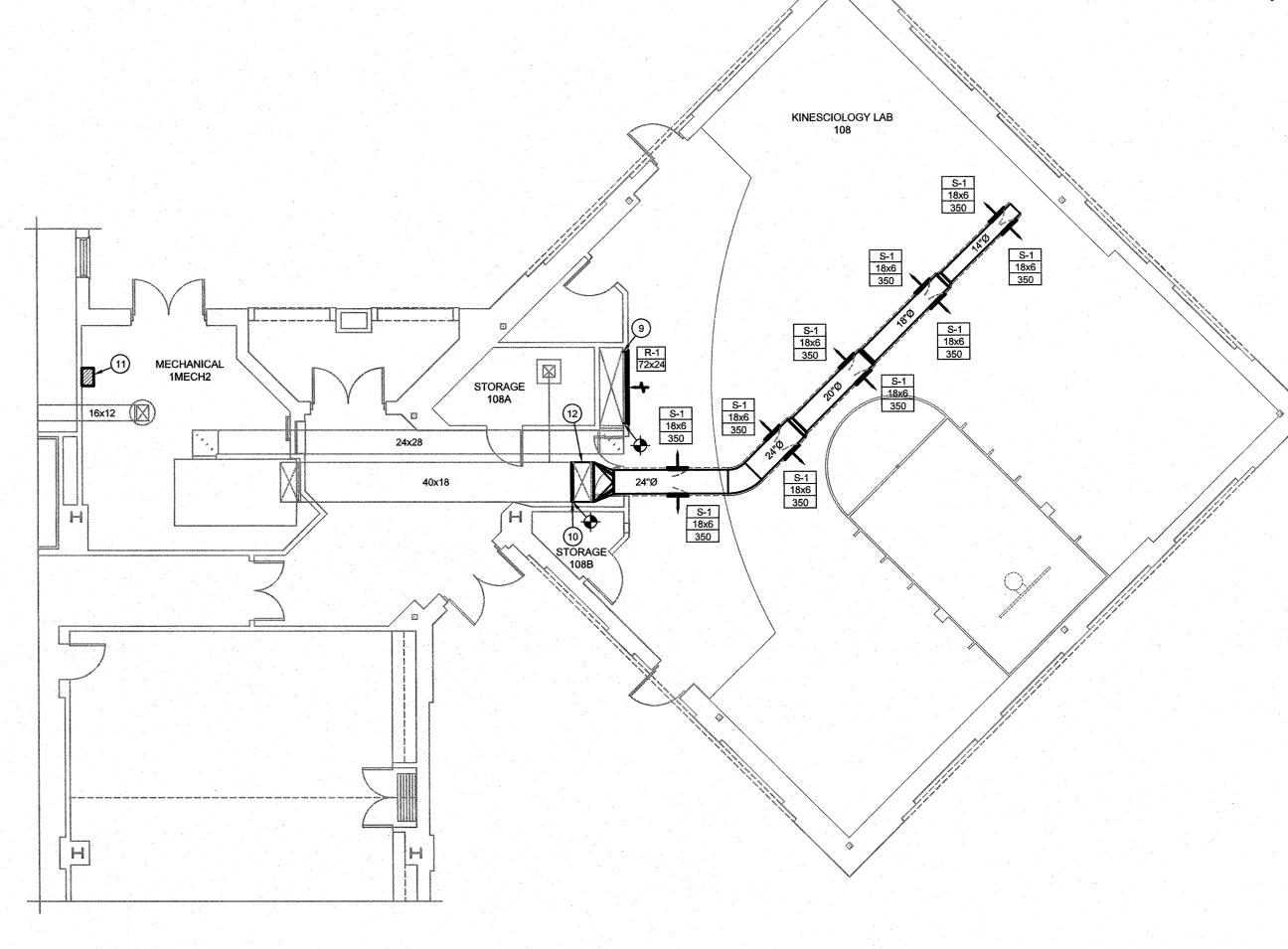


DRAWN BY: SAM K. KENSHALO DATE: 25 FEBRUARY 2021 REVISIONS DESCRIPTION 18833.01

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





FLOOR PLAN - MECHANICAL DEMOLITION

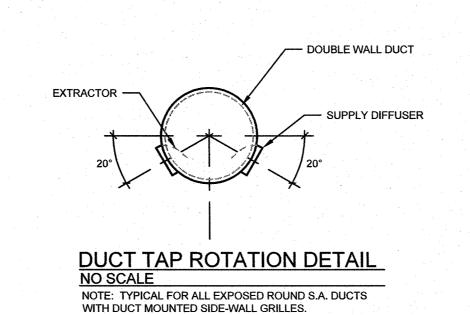
SCALE: 1/8" = 1'-0"

FLOOR PLAN - MECHANICAL

SCALE: 1/8" = 1'-0" HANGE

MECHANICAL LEGEND		
SYMBOL	DESCRIPTION	
AHU	AIR HANDLING UNIT	
EF	EXHAUST FAN	
CFM	CUBIC FEET PER MINUTE	
RPM	REVOLUTIONS PER MINUTE	
BTUH	BRITISH THERMAL UNITS PER HOUR	
MBH	BTUH X 1000	
EWT	ENTERING WATER TEMPERATURE	
LWT	LEAVING WATER TEMPERATURE	
PD	PRESSURE DROP	
SP	STATIC PRESSURE	
ESP	EXTERNAL STATIC PRESSURE	
HP	HORSEPOWER	
EAT	ENTERING AIR TEMPERATURE	
LAT	LEAVING AIR TEMPERATURE	
DB	DRY BULB TEMPERATURE	
WB	WET BULB TEMPERATURE	
OA	OUTSIDE AIR	
RA	RETURN AIR	
SA	SUPPLY AIR	
EA	EXHAUST AIR	
У Т Х	MANUAL BALANCING DAMPER	
Û	THERMOSTAT	
*	SUPPLY DIFFUSER WITH PATTERN	
- +	EXHAUST REGISTER	
- +	RETURN GRILLE	
У	SUPPLY DUCT - CROSS SECTION	
У ПД	EXHAUST DUCT - CROSS SECTION	
y 1 17	RETURN DUCT - CROSS SECTION	
•	CONNECT TO EXISTING	
<u> </u>	DOUBLE WALL DUCT	
DIFF X.# X" ###	FUSER/GRILLE LABEL AIR DISTRIBUTION TYPE NECK SIZE AIRFLOW (CFM)	

		Al	R DIST	RIBUTI	ON SCHEDULE
MARK	TYPE	LOCATION	FRAME	FINISH	EXAMPLE
S-1	SUPPLY	DUCT MOUNT	DM	WHITE	TITUS S300FL, EXT
R-1	RETURN	SIDEWALL	SM	WHITE	TITUS 30RL, HEAVY DUTY GYM GRILLE
2. EXT =	OPPOSED BLA EXTRACTOR SURFACE MO				



		GENE	ERAL NOT	ES			
A.	VERIFY EXACT LO		· · · · · · · · · · · · · · · · ·		VORK, DIFF	USERS,	
			· ·				

- B. CONTRACTOR SHALL COORDINATE ALL MECHANICAL DISCONNECTIONS AND INTERRUPTIONS WITH BUILDING OWNER.
- C. CONTRACTOR SHALL WALK THE SITE AND BECOME FAMILIAR WITH ALL EXISTING SYSTEMS AND INSTALLATIONS. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL OPERATIONAL SYSTEMS. ANY EXISTING SYSTEMS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- D. CONTRACTOR SHALL VERIFY ALL EXISTING SYSTEMS THAT REQUIRE DEMOLITION TO ACCOMMODATE THE NEW FLOOR PLAN. CONTRACTOR SHALL REMOVE ALL UNUSED SYSTEMS AND PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES.
- . LOCATE ALL THERMOSTATS A MINIMUM OF SIX INCHES FROM WALL CORNERS, DOOR FRAMES AND OTHER DEVICES. MOUNT THERMOSTATS AT 48" A.F.F. COORDINATE THE LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION.
- G. WHEREVER THE MANUAL BALANCING DAMPERS ARE RENDERED INACCESSIBLE BEHIND NON-REMOVABLE CEILINGS OR FURRINGS, OR OTHER CONSTRUCTION THAT IS NOT EASILY REMOVABLE TO PERMIT ACCESS TO THE DAMPERS, THE DAMPERS SHALL BE EQUAL TO YOUNG REGULATOR NO. 1200 RIGHT ANGLE WORM GEAR REGULATOR, FLEX SHAFT, AND 301-FS CONCEALED DAMPER REGULATOR WITH PRIMER COVER PLATE FOR FIELD PAINTING TO MATCH CEILING.
- H. THE CONTRACTOR SHALL VERIFY ALL STRUCTURAL CONDITIONS FOR CEILING SPACE AND EXACT DUCT ROUTE PRIOR TO FABRICATION. FIELD VERIFY EXACT ROUTING OF DUCTWORK TO ALLOW PROPER LOCATION OF LIGHTS AS SHOWN ON LIGHTING PLAN AND REQUIRED CEILING HEIGHTS.

ł	<	E,	Y	E	D	N	O	T	E	S	

- . REMOVE EXISTING SUPPLY DUCT BACK TO THIS APPROXIMATE LOCATION.
- 2. EXISTING AIR HANDLER TO REMAIN.
- 3. EXISTING EXHAUST FAN TO REMAIN.4. EXISTING DUCTWORK TO REMAIN.
- 5. EXISTING SUPPLY DIFFUSER TO REMAIN.
- 6. REMOVE EXISTING SLOT DIFFUSERS, SHOWN DASHED.
- 7. REMOVE EXISTING DUCTWORK, SHOWN DASHED.
- 8. REMOVE EXISTING SIDEWALL RETURN GRILLE SHOWN DASHED.

9. CONNECT NEW SIDEWALL RETURN GRILLE TO EXISTING DUCTWORK.

- 10. CONNECT NEW SUPPLY DUCTWORK TO EXISTING SUPPLY DUCTWORK AT THIS
- APPROXIMATE LOCATION.

 11. NEW VARIABLE FREQUENCY DRIVE SHALL BE YASKAWA OR SQUARE D, REFER TO SPECIFICATIONS. INTERLOCK VFD WITH EXISTING AIR HANDLING UNIT WITH 7.5 HP
- MOTOR FOR BALANCING PURPOSES ONLY. CONNECT NEW CONTROLS TO EXISTING ANDOVER SYSTEM CONTROLS AND BALANCE AIR HANDLING UNIT TO 3500 CFM SUPPLY AIR AND 700 CFM OUTSIDE AIR.
- 12. TURN SUPPLY DUCT UP AS HIGH AS POSSIBLE TO BOTTOM OF STRUCTURE AND ROUTE THRU GYM AS HIGH AS POSSIBLE.

GLENDA G. RAMSEY #15203 DATE SIGNED: 2.25.2

JUSTIN M. FINCHER





MSU TEXAS

BRIDWELL

AB @ J.S.

NEW

WESTERN S UNIVERSIT

.

MSU TEXAS

DRAWN BY: FINCHER

DATE: 25 FEBRUARY 2021

REVISIONS

REVISIONS

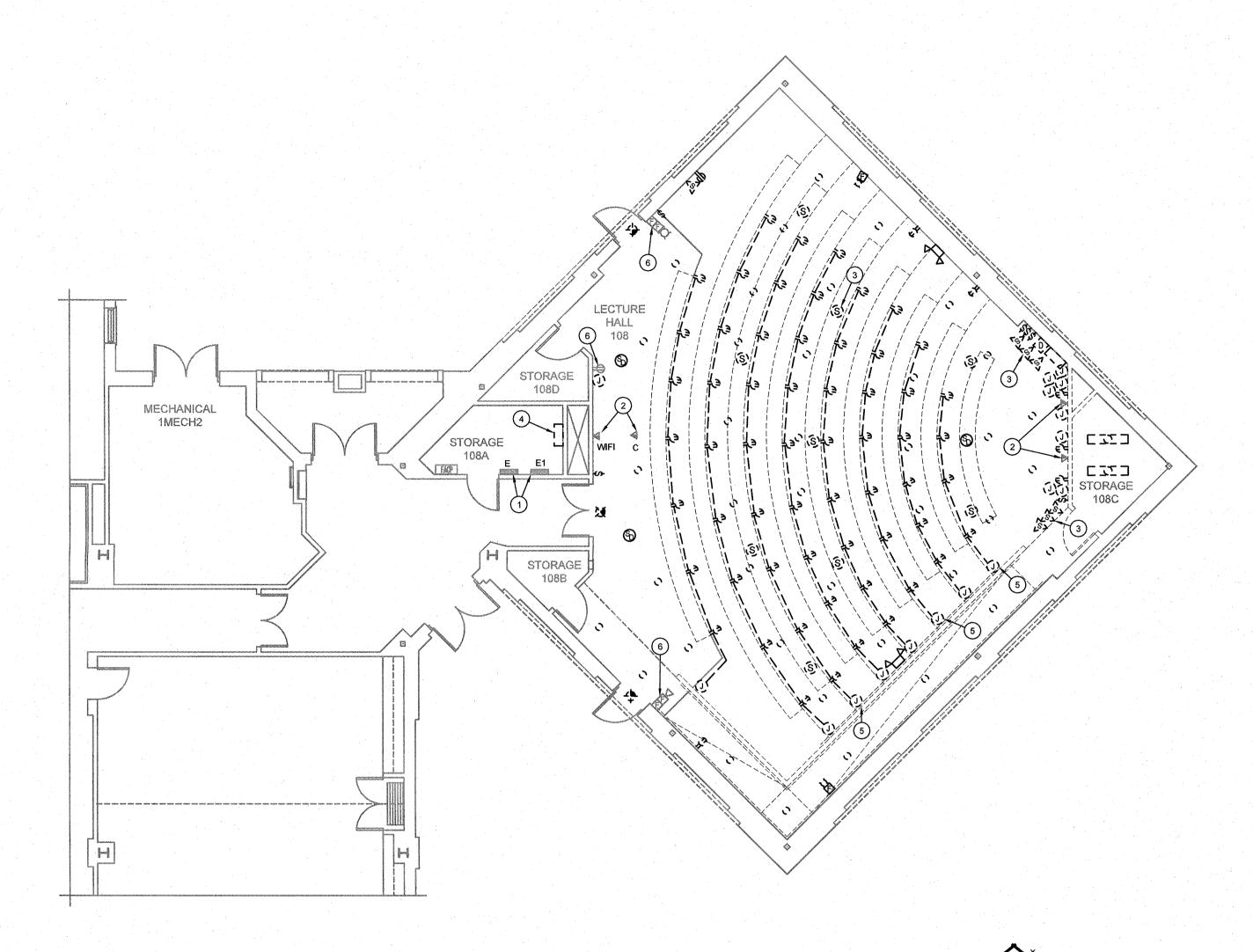
NO. DESCRIPTION DATE

18833.01

SHEET NO.

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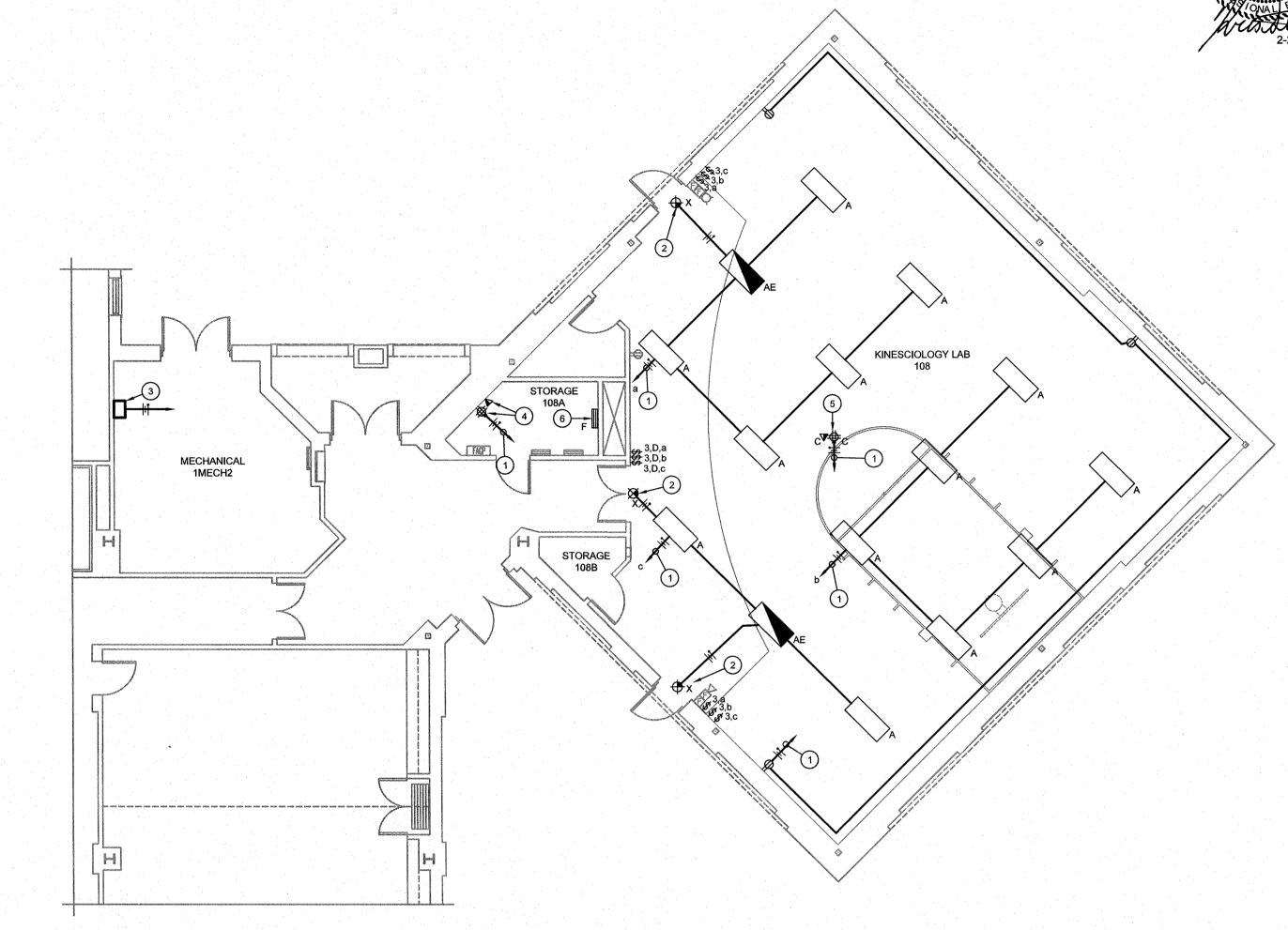
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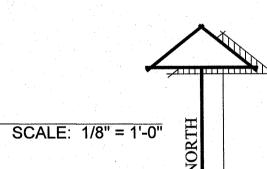


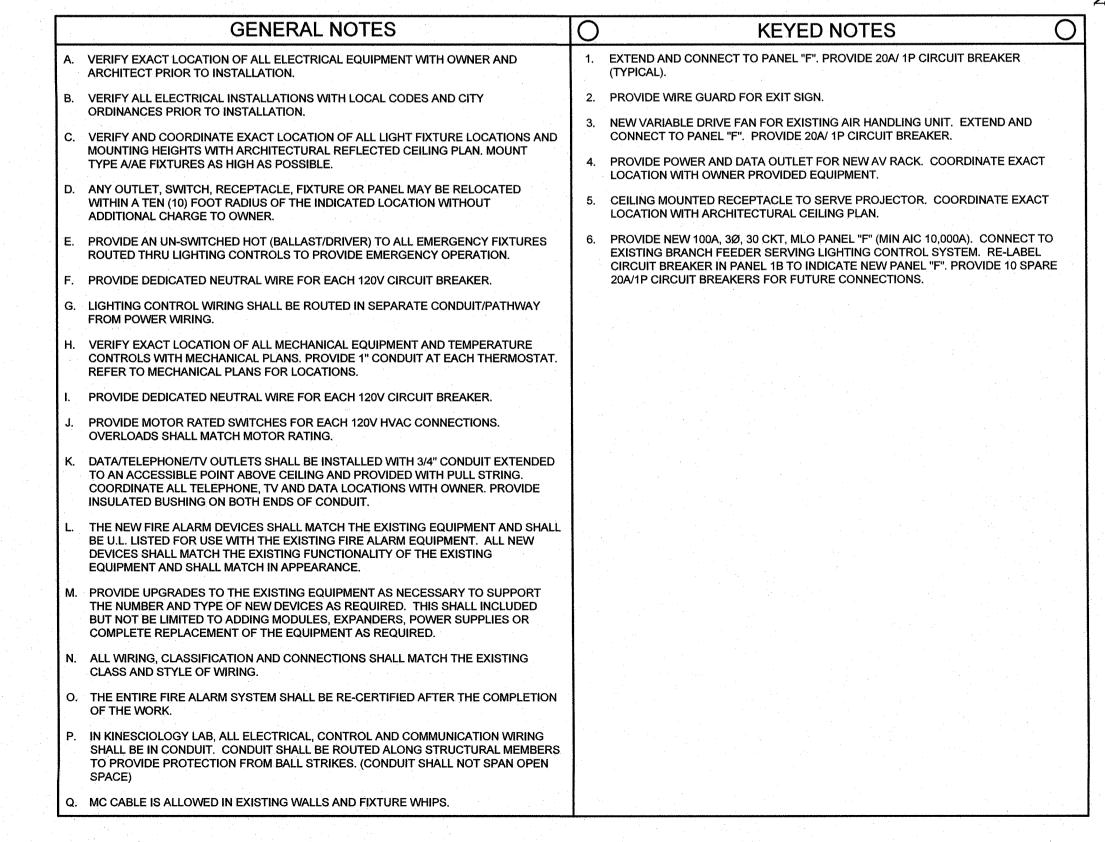


SCALE: 1/8" = 1'-0"

	GENERAL NOTES	0	KEYED NOTES
A.	ALL ELECTRICAL DEVICES SHOWN DASHED, OR ON DASHED WALLS, ALONG WITH	1.	EXISTING PANELS 120V/208V SHALL REMAIN.
	ALL WIRING AND CONDUIT ASSOCIATED WITH DEVICE SHALL BE REMOVED BACK TO POINT OF ORIGIN UNLESS NOTED OTHERWISE.	2.	EXISTING DATA OUTLETS SHALL BE PRESERVED. COORDINATE RELOCATION OF OUTLETS WITH OWNER.
В.	CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO		
	EARTHWORK.	3.	ALL AUDIO EQUIPMENT/SPEAKERS SHALL BE REMOVED AND RETURNED TO OWNER. (TYPICAL).
C.	VERIFY EXACT LOCATION OF ALL DEVICES AND CONDUIT TO REMAIN.	4	LIGHTING CONTROL SYSTEM AND ALL ASSOCIATED EQUIPMENT SHALL BE
D.	ALL DOWNSTREAM DEVICES NOT BEING REMOVED AS PART OF THIS PROJECT SHALL REMAIN ACTIVE. THIS INCLUDES BUT NOT LIMITED TO RECEPTACLES, LIGHTS,	7.	REMOVED. EXISTING BRANCH CIRCUIT SERVING SYSTEM SHALL REMAIN FOR REUSE.
	FIRE ALARM, DATA, AND COMMUNICATION OUTLETS/WIRING.	5.	FLOOR MOUNTED RECEPTACLES AND CONDUIT SYSTEM SHALL BE REMOVED.
E.	ALL POWER AND COMMUNICATIONS OUTAGES SHALL BE COORDINATED WITH OWNER AND ARCHITECT PRIOR TO OUTAGE. PROVIDE TEMPORARY CONNECTIONS (POWER AND COMMUNICATION WIRING) TO EQUIPMENT TO MAINTAIN SERVICE	6.	EXISTING DEVICES SHALL REMAIN.
	DURING CONSTRUCTION AS REQUIRED.		
F.	EXISTING WALL MOUNTED DEVICES TO REMAIN SHALL BE PROVIDED WITH JUNCTION BOX EXTENSION RING TO ACCOMMODATE NEW 1/2" PLYWOOD.		
G.	EXISTING NETWORK DROPS SHALL BE PRESERVED.		
		1	

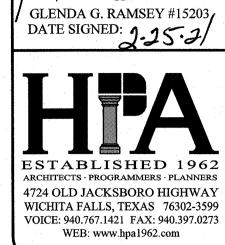


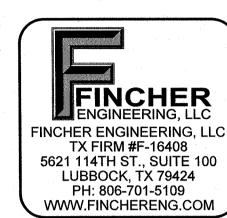




FLOOR PLAN - ELECTRICAL







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HIOG HAYES



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				LIGHT FIXTURE S	CHEDULE			
TYPE	VOLTAGE	MOUNTING	MANUFACTURER		LAMPS (LM)	WATTS	REMARKS	NOTE
Α	120/277	PENDANT	LITHONIA	IBG 36000 HEF AFL WD MVOLT GZ10 40K 80CRI DNA IBAC120M100 WGIBG26	36000	214	2'x4' FLAT PANEL WITH DIMMING DRIVER	NOTE
AE	120/277	PENDANT	LITHONIA	IBG 36000 HEF AFL WD MVOLT GZ10 40K 80CRI IE30WDPHE DNA IBAC120M100 WGIBG26	36000	214	SAME AS TYPE "A" EXCEPT WITH EMERGENCY BATTERY	
X	120/277	SURFACE	LITHONIA	LE S B 1 G EL N ELA WG	LED	2	SINGLE FACED EXIT SIGN WITH EMERGENCY BATTERY AND WIRE GUARD	
		e e e e e e e e e e e e e e e e e e e		GENERAL LIGHT FIXT	URE NOTES:			
Α.	ALL LED LIC	HT FIXTURES	SHALL BE RATED F	FOR 4000 DEGREES KELVIN UNLESS OTHERWISE	NOTED.			
				LIGHT FIXTURE SCHE		S:		

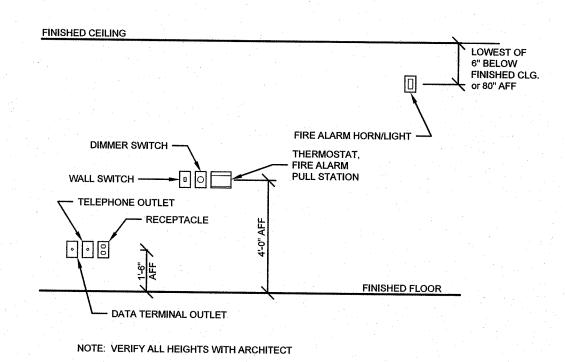
WIRE A	ND	CO	NDI	JIT	SIZI	NG	CHA	ART												
BREAKER	15	20	25	30	35	40	45	50	60	70	80	90	100	125	150	175	200	225	300	400
PHASE	#12	#12	#10	#10	#8	#8	#6	#6	#6	#4	#4	#2	#2	#1	#1/0	#2/0	#3/0	#4/0	#350 KCMIL	#500 KCMIL
NEUTRAL	#12	#12	#10	#10	#8	#8	#6	#6	#6	#4	#4	#2	#2	#1	#1/0	#2/0	#3/0		#350 KCMIL	
GROUND	#12	#12	#10	#10	#10	#10	#10	#10	#10	#8	#8	#8	#8	#6	#6	#6	#6	#4	#4	#3
CONDUIT	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	2"	2"	2"	2-1/2"	3"	4"

NOTES:

1. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL CONDUCTORS AND CONDUIT SHALL BE SIZED FROM THIS CHART.

2. ALL 120V LIGHTING AND POWER CIRCUITS OVER 75' SHALL BE #10 THHN.

3. LOCAL DISCONNECT SIZES SHALL BE BASED ON CIRCUIT BREAKER RATING/SIZE.

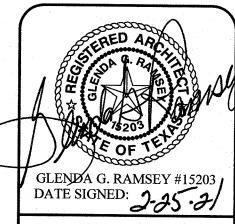


WIRING DEVICE MOUNTING HEIGHTS - TYPICAL NO SCALE

ELECTRICAL ABBREVIATION	JNIC
ABOVE COUNTER	
ABOVE FINISHED FLOOR ALTERNATING CURRENT AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WIRE GAUGE AMPERE	AC AFF AC ANSI ASTM AWG AMP
AMPHOUR AMPERE INTERRUPTING CAPACITY ARC FAULT CIRCUIT INTERRUPTER AUTHORITY HAVING JURISDICTION AUTOMATIC TRANSFER SWITCH	AH AIC AFCI AHJ ATS
BATTERY BUILDING AUTOMATION SYSTEM	BAT BAS
CEILING COAXIAL CABLE COLOR RENDERING INDEX COMMUNICATIONS CONDUIT CONTROL COPPER CURRENT TRANSFORMER.	C COAX CRI COMM C CTRL CU CT
DECIBEL (SOUND) DEMOLITION DIRECT CURRENT DOUBLE POLE, DOUBLE THROW DOUBLE POLE, SINGLE THROW	dB DEMO DC DPDT DPST
ELECTRIC ELECTRICAL METALLIC TUBING ELECTRICAL NONMETALLIC TUBING	ELEC EMT ENT
FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FLEXIBLE METALLIC CONDUIT FOOTCANDLE FULL LOAD AMPS	FAAP FACP FMC FC FLA
GAUGE GROUND GROUND FAULT CIRCUIT INTERRUPTER	GA GND GFCI
HORSEPOWER	HP
INTERMEDIATE METAL CONDUIT INTERNATIONAL BUILDING CODE	IMC IBC
KILOVOLT KILOVOLT AMP KILOWATT KILOWATT HOUR	kV kVA kW kWH
LIQUIDTIGHT FLEXIBLE METAL CONDUIT LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT LOW VOLTAGE LUMEN LUMENS PER WATT	LFMC LFNC LV LM LPW
MAIN CIRCUIT BREAKER MAIN LUGS ONLY	MCB MLO
MINIMUM MINIMUM CIRCUIT AMPS MOTOR CONTROL CENTER	MIN MCA MCC
NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL FIRE CODE NATIONAL FIRE PROTECTION ASSOCIATION NOTIFICATION APPLIANCE CIRCUIT	NEC NEMA NFC NFPA NAC
PANELBOARD PHASE POLY VINYL CHLORIDE POWER FACTOR PUBLIC ADDRESS	PB PH PVC PF PA
RECEPTACLE RIGID GALVANIZED STEEL RIGID NONMETALLIC CONDUIT	RECEP RGS RNC
SINGLE PHASE SINGLE POLE, DOUBLE THROW SINGLE POLE, SINGLE THROW SWITCHBOARD	1 Ø SPDT SPST SWBD
THREE PHASE TELEPHONE TERMINAL BOARD	3Ø TTB
UNINTERRUPTIBLE POWER SUPPLY	UPS
VARIABLE FREQUENCY DRIVE VOLT, VOLTS, VOLTAGE VOLT AMPERE	VFD V VA
WEATHERPROOF	WP

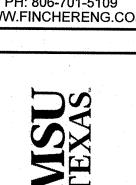
0 ^	2x4 RECESSED LIGHT FIXTURE
AE AE	2x4 RECESSED LIGHT FIXTURE WITH BATTERY BACK-UP
<u> </u>	1x4 RECESSED LIGHT FIXTURE
AE	1x4 RECESSED LIGHT FIXTURE WITH BATTERY BACK-UP
O ^A	DOWN LIGHT FIXTURE
⊠ ^X	EXIT SIGN - NUMBER OF FACES INDICATED BY SHADING
\$	SPST WALL SWITCH, LOWERCASE LETTER INDICATES CORRESPONDING SWITCH
\$ ₃	THREE-WAY SWITCH
\$ ₄	FOUR-WAY SWITCH
D	LIGHTING CONTROL MASTER STATION
<u>©</u>	OCCUPANCY SENSOR
LC	LIGHTING CONTACTOR
Ф	DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, GROUNDING
J	JUNCTION BOX
D	DISCONNECT SWITCH
	CIRCUIT RUN TO PANELBOARD - NUMBER OF WIRES SHOWN
	CIRCUIT INDICATOR
V	WALL MOUNTED TELEPHONE/DATA OUTLET
	SURFACE MOUNTED LIGHTING AND APPLIANCE PANELBOARD
	RECESSED MOUNTED LIGHTING AND APPLIANCE PANELBOARD
<u>s</u>	CEILING MOUNTED SPEAKER
4	WALL MOUNTED SPEAKER
FACP	FIRE ALARM CONTROL PANEL WITH VOICE EVACUATION MODULE
F	FIRE ALARM PULL STATION
呂	FIRE ALARM AUDIBLE/STROBE UNIT
Œ	FIRE ALARM STROBE UNIT
S	FIRE ALARM SMOKE DETECTOR











NEW KINESIOLOGY LAB @ J.S. BRII MIDWESTERN

MSU TEXAS

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